IMMEDIATE RESPONSE ACTION STATUS II
And QUARTERLY LANDFILL MONITORING
With SUPPORTING DOCUMENTATION

MA DEP RTN 4-24301

Town of Eastham Landfill
255 Old Orchard Road
Eastham, MA
BEA09-10104

JUNE 24, 2013

BENNETT ENVIRONMENTAL ASSOCIATES, INC.

LICENSED SITE PROFESSIONALS ◊ ENVIRONMENTAL SCIENTISTS ◊ GEOLOGISTS ◊ ENGINEERS

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BEA09-10104

June 24, 2013

Millie Garcia-Serrano, Regional Deputy Director
Bureau of Waste Site Cleanup
MA Department of Environmental Protection (MA DEP)
Southeast Regional Offices (SERO)
20 Riverside Drive - Lakeville, MA 02347

RE: IMMEDIATE RESPONSE ACTION STATUS REPORT II AND QUARTERLY LANDFILL MONITORING REPORT
RTN#4-24301 Eastham Landfill
Old Orchard Road - Eastham, MA

Dear Ms. Garcia-Serrano,

On behalf of the Town of Eastham, BENNETT ENVIRONMENTAL ASSOCIATES, INC. (BEA) has prepared the following Immediate Response Action Status Report (IRAS II) with Imminent Hazard Evaluation (IH) and Remedial Monitoring Report (RMR) per the MA DEP "Conditional Approval to Conduct Immediate Response Actions/Interim Deadlines" communications dated January 30, 2013 as amended to extend the interim deadline for this submittal to June 28, 2013. The IRAS II report covers the period from March 23, 2013 through June 14, 2013 following the submittal of the original Immediate Response Action Plan (IRAP) on January 11, 2013 and the Immediate Response Action Status Report (IRAS I) on March 29, 2013. A summary of this earlier work and findings are presented herein to orient the reader but a review these earlier public records documents may be required for additional details. Per agreement with the MA Department of Environmental Protection (MA DEP), this document further includes the quarterly Landfill Monitoring requirements for the sampling of onsite/offsite monitoring wells and select residences as set forth in the revised Landfill Monitoring Plan (LMP) dated August 14, 2012 for the second quarter of 2013.

The IRA activities during the reporting period were supported by the efforts of the MA DEP to coordinate assistance from the US EPA Region 1 Water Supply and Investigations and Analysis Unit at the request of the Town of Eastham. The EPA supplied a four person team to assist in the sampling of private wells in the period of April 29, 2013 to May 3, 2013. The Standard Operating Procedures for Residential Well Sampling and Sampling and Analysis Plan provided by the EPA have been amended to the QA/QC protocols of BEA for future private well sampling. The MA DEP and Region I EPA also assisted in the provision of informational literature on 1,4-Dioxane and interpretation of laboratory results provided to residents as accompanying the BWSC-123 Notice of Environmental Sampling. These efforts are greatly appreciated.

The Immediate Response Action (IRA) under RTN4-24301 is in response to the MA DEP Notification for the presence of 1,4-Dioxane as confirmed in the landfill monitoring well MW-3D, sampled November 14, 2012, above the applicable RCGW-1 Reportable Concentration (3.0 ug/L) as within 500' of multiple private potable wells. Subsequent testing of downgradient private wells following Notification documented the presence of 1,4-Dioxane in several private wells as above the aforementioned RCGW-1 standard and the current GW-1, Method 1 – Risk Characterization standard as the sole source of drinking water in the Town of Eastham. The compound 1,4-Dioxane is currently an unregulated volatile organic compound (VOC) under the Federal (EPA) and State (MA DEP) drinking water programs with a current Notification and MCP Cleanup standard (GW-1) of 3.0 ug/L and a Drinking Water Guideline (SMCL) of 0.3 ug/L. The EPA has listed 1,4-Dioxane as a Group B2 (probable human) carcinogen.[1]

As such, the ongoing Immediate Response Action is required to investigate the source and presence of 1,4-Dioxane and other potential contaminants migrating off the capped, but unlined, landfill wherein the ingestion of impacted groundwater is a Critical Exposure Pathway (CEP) as representing the potential for Imminent Hazard and Significant Risks. Under the Immediate Response Action, the aggressive testing of private wells around the landfill has been prioritized to identify any such potential exposures and to mitigate risks through the provision of bottled water as an interim temporary measure wherein ingestion is the primary and most sensitive exposure route. Additionally, this information is being used to evaluate any continuing sources of groundwater impacts and the extent and magnitude of such impacts associated with the landfill towards the implementation of a cleanup strategy to remedy the presence of impaired drinking water.

Thus far under the IRA, private wells for a total of 169 properties representing 171 residences have been sampled and evaluated for regulated volatile organic compounds (VOC's) and low level 1,4-Dioxane. Under the Landfill Monitoring Plan (LMP), select residences (RES) are also being tested for metals and indicator compounds. In this residential testing over six (6) months, no private well has reported any regulated VOC compounds or metals concentration as exceeding the Drinking Water Standards (MMCL)[2]. Five (5) private wells, representing six (6) residents, have reported 1,4-Dioxane above the current GW-1, Method 1 – Risk Characterization Standard (3.0 ug/L). A total of sixteen (16) private wells, as representing eighteen (18) residences, have reported 1,4-Dioxane above the current MA Drinking Water Guideline and proposed revision to the GW-1, Method 1 Risk Characterization Standard (0.3 ug/L). Under Method 3 – Risk Characterization, chemical specific ingestion exposures for Imminent Hazard and Significant Risk for cancer and non-cancer exposures has been evaluated as the basis of the 1.5 ug/L Bottled Water Action Level to mitigate potential Significant Risk. At present, ten (10) residences, as representing eight (8) properties, are being provided with bottled water.

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[1] EPA Integrated Risk Information System (last updated 8/11/2010) http://www.epa.gov/IRIS/subst/0326.htm

[2] Certain compounds reported have no prescribed drinking water standard or GW-1 standards. In the case of 1,2 dibromo-3-chloropropane (DBCP) and 1,2-dibromoethane (EDB), low level testing of these compounds by EPA method 8011 in the landfill wells, reported these concentrations as below the detection limit wherein the detection limit is lower than the prescribed standards. As such, these compounds are not considered to be contaminants of concern and not normally tested by special low level methods in downgradient private wells.

Additionally, interim measures for the mitigation of Critical Exposure Pathways (CEPs) to residents were being pursued at those locations with the highest 1,4-Dioxane concentrations (RES-30/RES-35). A replacement well was installed and tested monthly over the past three months at RES-35 (50 Alston Avenue) and at the existing point-of-entry coconut shell based granular activated carbon (GAC) treatment system at RES-30 (325 Schoolhouse Road). Again, at the time of this reporting, and with the benefit of a preponderance of analytical data, the replacement well at 50 Alston Avenue has documented a significant reduction of 1,4 Dioxane at the affected residence. The former deep well reported the concentration of 1,4-Dioxane at 5.0 – 5.1 ug/L and the replacement well a concentration of 1,4-Dioxane at 0.18 – 0.23 ug/L. The piloting of the coconut based GAC filter system at 325 Schoolhouse Road. Although the results of the GAC treatment system piloting are favorable, the fact that the house has been vacated with little water use other than for purging at the time of testing, additional testing is required to qualify the use of coconut based CAG filtration systems as a practical and effective mitigating measure. Until additional evaluation of the GAC treatment with the simulation of normal household use is conducted, the use of replacement wells remains the most viable, temporary mitigating measure beyond the provision of bottled water. In the case of any increasing concentrations that would represent Significant Risk for either inhalation or dermal contact exposures, a replacement well must be considered.

This IRASII/LMP represents the findings and interpretation of the additional analytical testing (Round 2) conducted including the expanded Study Area east of Schoolhouse Road and additional property owners that replied to the request for water testing in the original Study Area after Round 1. The newly developed information in the context of previous testing remains focused primarily on the identification and evaluation of any potential CEPs for the implementation of mitigating measures to eliminate any Imminent Hazard that might be discovered and to eliminate Significant Risks currently associated with potential ingestion exposures. Additionally, the information gained from the broader study of private wells and offsite monitoring wells is being used to identify any anomalies inconsistent the Conceptual Site Model towards further investigation and to define the magnitude, extent and hydrogeologic characteristics of offsite solute transport of impacted groundwater underlying the Eastham Landfill and offsite downgradient migration in a generally easterly direction wherein multiple private residences are located.

This work is ongoing and, as a recommendation of the Round 1 and Round 2 testing, the IRAS II seeks access to test additional private wells that were not previously tested within the Phase I and Phase II Study Area and to modestly expand the Study Area to the east and northeast of 11 Eldia Lane to Northwood Road between Glacier Hills Road and Meetinghouse Road, and to the abutting westerly commercial PWS supplies along Route 6 wherein the Zone II – Wellhead Protection Area fall onto the Eastham Landfill property. Letters requesting such testing in Round 3 to approximately 60 owners of these properties has been drafted and is being mailed at the time of this reporting. This sampling is being scheduled for the weeks of July 22nd and July 29th.

Bottled water continues to be provided to all residents where the concentration of 1,4-Dioxane is reported above the Bottled Water Action Level of 1.5 ug/L, as an interim measure for the protection of occupants against potential ingestion exposure risks as has been identified by Method 3 – Risk Characterization in review of chemical specific risks for Significant human

cancer and non-cancer ingestion exposures associated specifically to the consumption of impacted groundwater. In light of proposed changes to the regulations to lower the GW-1 standard to 0.3 ug/L, it is now suggested that all residences reporting 1,4-Dioxane at a concentration at or greater than 0.3 ug/L be considered for provision of bottled water. Replacement wells are suggested for year-round residential properties where the concentration of 1,4-Dioxane exceeds the Method 3 - Risk Characterization for Significant chronic or sub-chronic cancer and non-cancer inhalation and dermal exposure risks.

Finally, in the solicitation of bids for multi-level well drilling, it was determined that the membrane interface probe (MIP) technology is not capable of real time monitoring of low level concentrations of 1,4-Dioxane (<2.5 ug/L) and that the geo-probe drive methods employed by other technologies have limited capabilities to drive through the substantial thickness of clay to depths greater than 200' as is the case of the easterly properties in the vicinity of Schoolhouse Road between Knowles and Alston. Standard drilling methods for vertical profiling of groundwater impacts are recommended for consideration in the next reporting period with the utilization of the screened auger method offsetting the existing MW-8 monitoring well at the intersection of Alston Avenue and Meetinghouse Road. Such profiling will provide data useful in defining the plume and in the decision making for mitigating measures.

An Eastham Board of Health Regulation restricting new wells to depths less than 100' was effective in isolating residents from the Landfill solute plume in the vicinity of Schoolhouse Road. It is suggested that the Eastham Board of Health consider low level 1,4-Dioxane testing and other regulatory mechanisms to identify and prevent new exposures in all new and replacement wells downgradient of the landfill.

The installation of additional multi-level monitoring wells will be delayed in the next IRA reporting period to complete the testing of all residential wells within the expanded Study Area, add the testing of additional offsite monitoring wells (MW-9 and MW-10), confirm depths and production elevations in all monitoring wells and private wells with reported impacts at or greater than 0.3 ug/L, and offset MW-8 (corner of Meetinghouse and Alston) with an intermediate and shallow monitoring well. We believe that this work should be prioritized for the identification and mitigation of CEP's and in the evaluation of remedial alternatives. Such subsurface mapping will be the subject of comprehensive response actions (CRAs) to be conducted beyond Tier Classification due November 13, 2013.

The sum of the remedial response actions undertaken on behalf of the Town of Eastham, as described and recommended, have been conducted under LSP oversight in a manner consistent with the MCP Response Action Performance Standards (RAPS) pursuant to 310 CMR 40.0191 and the QA/QC policies of BENNETT ENVIRONMENTAL ASSOCIATES, INC. The facts and statements herein are, to the best of our knowledge, a true and accurate representation of the Site activities, remedial response actions and environmental conditions associated with the project. The LSP opinions are based on the available data and regulations in effect at the time of this reporting.

It must be recognized that environmental investigations are inherently limited in the sense that conclusions are drawn and recommendations developed from the available information

obtained under the context of the regulations and standard of practice at the time of reporting. The passage of time may result in revisions to regulations, published Policy Guidance and change in the LSP community standard of practice. This report does not warrant against future changes in regulations, policy or standard of practice as may differ and/or conflict with the current regulations, policies or standard of practice.

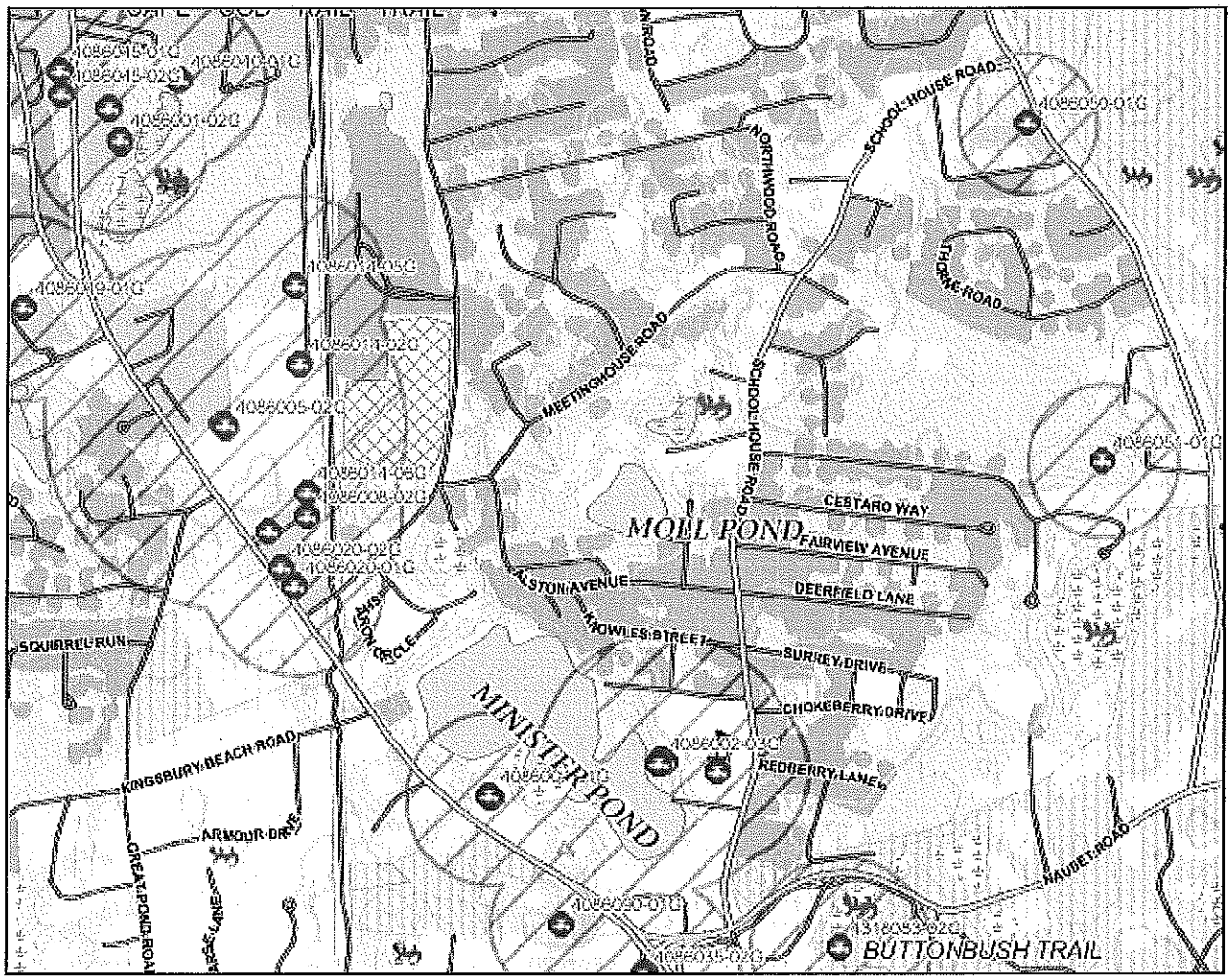
ENVIRONMENTAL CONDITIONS [Refer to Appendix A – Site Plan and Reference Maps]

The Eastham Landfill is located northwest of the intersection of Old Orchard Road and Meetinghouse Road, in the town of Eastham, MA. The property is represented on Eastham Assessor's Map 8, Parcel 120, and contains 18.74 acres of vacant land [Refer to Figure 1]. Access to property along Old Orchard Road is restricted by a locked gate and 6-foot stockade perimeter fence. As such, 1,4-Dioxane containing municipal solid waste (MSW) materials buried, or other soils impacted by 1,4-Dioxane from the former septage lagoons located on the property, as the likely primary source of 1,4-Dioxane, appears to be isolated at the Eastham Landfill property by the fencing, a engineered barrier and/or at such depths to be considered isolated.

The current estimated Site based on Round 1 (January to March 2013) and Round 2 testing (March to June 2013), as that area where 1,4-Dioxane is present or has come to migrate at concentrations above background concentrations, includes the Eastham Landfill property itself and residential properties to the east of the Eastham Landfill roughly running south to Route 6, where commercial businesses are located, east beyond Schoolhouse Road, and north beyond Whidah and Eldia Lanes. Properties within the currently defined Site are moderately to highly develop with seasonal and year-round single and two-family residential dwellings with the exception of those commercial properties along Route 6 and the Eastham Elementary School at 200 Schoolhouse Road.

In Round 3 (June to September 2013), sampling of additional residential properties east and northeast of Eldia Lane will be conducted. Additionally, there are several small transient non-community (TNC) public water supply wells serving restaurants and hotels/motels along Route 6, to the west of the Landfill. Several of these TNC public water supply wells have Zone II Protective Well Radii that fall onto the DPW property and capped unlined landfill area. The Zone II is established as the zone of contribution for source water being pumped from these wells. Based on the density of current development, it is estimated that there are more than 300 residences located within the expanded Study Area (inclusive Phase I, Phase II and Phase III).

The surficial geology in the Study Area is characterized as a part of the Eastham Plain Deposit consisting primarily of gravelly sand, which may contain localized gravel, silt, clay, till and boulders. Hydrologic references indicate groundwater exists at 15' NGVD (+/-) as projected within 20-50' of ground surface over the Study Area. Regional groundwater contours indicate a southeasterly flow direction towards Salt Pond and the Salt Pond Bay estuary beyond, with Molls Pond and Ministers Pond in between. Local groundwater flow has been qualified by the gauging of landfill and offsite monitoring wells confirming a southeasterly flow as consistent with regional groundwater contours.



The occurrence of 1,4-Dioxane in deep wells (> 100') near the intersection of Schoolhouse Road and Alston Avenue, more easterly of the Landfill, appears to be influenced by clay strata as representing preferential pathways for solute transport for dense non-aqueous phase liquids (DNAPL). Based on Site features and environmental conditions, Molls Pond and Ministers Pond are identified as the primary potential environmental receptors as the closest zero-head boundaries, while residents with private wells on downgradient properties are identified as the primary human receptors in the absence of a municipal water system [Refer to above (also Figure 2 in Appendix A)].

The Mass GIS, MA DEP Water Supply Protection overlay shows that several Interim Wellhead Protection Area (IWPA) for commercial establishments along Route 6 fall onto the Eastham Landfill property. Furthermore, in the downgradient Study Area, additional IWPAs are identified as well as numerous private wells. As such, the entirety of the Site including the unlined capped landfill and Study Area is defined as a Drinking Water Source Area [Refer to Figure 3]. The groundwater that migrates from under the Eastham Landfill is the source of potable water as no municipal public water supply exists. The ingestion of 1,4-Dioxane in groundwater is the primary exposure route as driving the evaluation of exposure under the GW-1, Method 1 – Risk Characterizations Standards (3.0 ug/L). In addition, the GW-2 and GW-3, Method 1 – Risk Characterization Standards for vapor entry (6,000 ug/L) and significant

environmental impacts to resource areas (50,000 ug/L) would be considered. Soil impacts associated with 1,4-Dioxane anticipated at the Landfill are isolated as previously represented and, as such, the S-3/GW-1 (0.2 mg/Kg), S-3/GW-2 (6 mg/Kg) and S-3/GW-3 (500 mg/Kg), Method 1 – Risk Characterization Standards are applicable.

It is important to note that proposed revisions to the governing MCP regulations under 310 CMR 40.0000 have been advertised and the promulgation of such revisions postponed due to the amount of public comments received. The proposed change in the GW-1, Method 1 – Risk Characterization Standard for 1,4-Dioxane is 0.3 ug/L, as consistent with the current MA Office of Research and Standards Drinking Water Guideline of 0.3 ug/L. Notwithstanding the uncertainty in promulgation of the proposed revisions to the MCP as based on technical comments received that would increase the values to 0.4 or 0.5 ug/L, the Town of Eastham has elected to continue future testing of 1,4-Dioxane under the low level EPA 522 Method so that the reporting limits will be 0.2 ug/L, as less than the current ORSG and proposed GW-1 standards. Additionally, wherein no Drinking Water Standard (MMCL) has been established for 1,4-Dioxane, under the provisions of 310 CMR 40.0990, Method 3 - Risk Characterization may be considered to evaluate specific Imminent Hazard and Significant Risk. This investigation further utilizes the Method 3 - Risk Characterization MA DEP ShortForms (Version 10-12) as assisted by Peter Woodman, PhD of Risk Management, Inc. (RMI). Method 3 - Risk Characterization allows for the review of both chronic and sub-chronic, cancer and non-cancer, ingestion, inhalation and dermal contact exposure risks in sensitive age groups relative to a lifetime of residential exposures to chemical specific compounds including other VOC's in addition to 1,4-Dioxane. In the transition between existing and proposed regulations for an unregulated VOC within a Drinking Water Standard, this methodology has been used as scientifically justified and framed within the current and proposed revisions to the MCP.

BACKGROUND

The Town of Eastham operated the unlined Eastham Landfill at the current 19 +/- acres parcel of land off Old Orchard Road [Map 8, Parcel 120] from 1937 until its closure in 1997. According to the available records including the Initial Site Assessment and Comprehensive Site Assessment (ISA/CSA) Scope of Work prepared for the Eastham Landfill in 1992, the Site was a burning dump from the late 1930's until the early 1960's. Landfill activities began in the late 1960s with some 9.15 acres used for the burial of municipal solid waste (MSW). An adjacent 4.48 acre "stump dump" was acquired in 1987 from a private owner and operated by the Town. Another half-acre contained the Town's unlined septage lagoon facility which operated in the 1970s and remained active until 1988 when the sludge was excavated and disposed of in the Landfill. According to town personnel interviewed in 1992, no records were kept regarding solid waste generators, solid waste generation rates and composition of the waste stream prior to 1991 when the existing transfer station began operating. By 1992, it appears that the active burial of solid waste landfill was halted.

Drinking water samples collected and reported to the MA DEP in 1987, 1990 and 1991 identified volatile organic compounds (VOCs) impacts to residential wells southeast (downgradient) of the Landfill, as apparently impacted by leachate. In an effort to eliminate further impacts to private wells, the Town proceeded through the ISA/CSA process through its

consultant, ATP Environmental, to cap the unlined landfill against the mobilization of contaminants to groundwater as appeared to be the standard of practice shared among local municipalities. The engineered barrier was designed and approved by the MA DEP (BWP/Solid Waste Section) and the area of active solid waste burial was subsequently capped in 1997. In accordance with the Landfill Closure permit conditions, ATP Environmental continued sampling of monitoring wells and private wells in the area of the Landfill under the MA DEP Solid Waste program where it is indicated that the Landfill capping was effective in eliminating offsite migration of contaminants as Adequately Regulated. A file review of the MA DEP records is being conducted to secure a complete and accurate record of these activities and analytical results in consideration of any other contaminants of concern (COC's) outside the LMP.

In March 2004, a Notice of Responsibility (NOR) [RTN 4-18278] was issued to the Town of Eastham for the suspected release of hazardous materials [vinyl chloride (VC)] from the Eastham Landfill to a private drinking water well at a concentration of 2.0 ppb. Bennett & O'Reilly, Inc. was subsequently engaged by the Town as LSP of Record to conduct remedial response activities for the apparent release. On September 22, 2004, in a meeting between various Department heads, Town officials, and the LSP of Record, it was decided that quarterly VOCs analysis as well as inorganics would be conducted on select landfill monitoring wells and private wells as part of the MCP Waste Site Cleanup monitoring protocols and to also satisfy Solid Waste Landfill Monitoring requirements, as concentrated on VC-related impacts.

With the subsequent closure of RTN 4-18278 under a Class A Response Action Outcome in 2009, as based on a preponderance of physical testing over five years, BEA as successor for Bennett & O'Reilly, Inc., prepared a proposed Landfill Monitoring Plan (LMP) for the continuation of Post-Closure monitoring under MA DEP Solid Waste Program outside of the MCP. Such landfill monitoring was conducted and reported on a quarterly basis by BEA from 2009 to 2012.

In August 2012, the Town of Eastham received a revised LMP from the Department. Included in the revised LMP was the requirement for one-time sampling and analysis of 1,4-Dioxane at selected monitoring and private wells. As such, in the first quarterly sampling under the revised LMP in September-December 2012, the low level sampling of 1,4-Dioxane (8260 SIM) was included at the MW-3I and MW-3D monitoring wells. Analytical results reported 11/7/12 found 1,4-Dioxane in monitoring well MW-3D at a concentration of 18 ug/L, above the applicable Reportable Concentration (RCGW-1) of 3 ug/L as was communicated to the Town of Eastham over the Veteran's Day weekend but not received until the following Tuesday after the holiday. After communicating this information to the Town of Eastham, Release Notification was made to the Department and additional sampling was conducted at the RES-1 (180 Old Orchard), RES-8 (100 Meetinghouse) and RES-20 (285 Alston) private wells for VOC's inclusive of low level 1,4-Dioxane, as immediately downgradient of the MW-3D monitoring well. Additionally, MW-3D was re-tested in consideration of data validation, repeatability and variation. All such samples were submitted on a 24-hour RUSH basis as received and communicated 11/15/12.

Concentrations of 1,4-Dioxane were reported as 4.3 ug/L in the repeat sampling of the MW-3D landfill monitoring well as confirming the presence of 1,4-Dioxane above the RCGW-1

Reporting Concentration, albeit significantly decreased from the initial testing. An estimated concentration of 1.7 ug/L was additionally reported in the RES-8 (100 Meetinghouse) drinking water well, as less than the aforementioned RCGW-1 and GW-1, Method 1 - Risk Characterization Standards. No concentrations of 1,4-Dioxane were reported above the reporting limit (2.0 ug/L) or method detection limits (0.75 ug/L) in RES-1 (180 Old Orchard) or RES-20 (285 Alston) in this confirmatory sampling. The residences sampled were notified of the analytical results and based on the fact that the 100 Meetinghouse Road property reported 1,4-Dioxane at a concentration greater than 50% of the GW-1, Method 1 – Risk Characterization Standard, bottled water was provided to the residents at the duplex for drinking and food preparation as a precautionary measure.

The Department subsequently issued release tracking number (RTN) 4-24301 and authorized additional assessment activities as verbal approvals under the Immediate Response Action (IRA). Supplemental assessment activities included sampling additional private potable wells within 500 feet of the MW-3D well for 1,4-Dioxane, and expedited testing of the remaining landfill monitoring wells and residential private wells (RES's) as consistent with the LMP semi-annual and annual testing requirements. This strategy was approved by the MA DEP and specifically outlined in the Notice of Responsibility (11/28/12) sent to the town as modified for EPA 8260B TCL VOC/SIM testing as falling under CAM/PC protocols to facilitate validation and Representativeness Evaluation and Data Usability Analysis (REDUA). The testing of these additional residential private wells within 500' of the Landfill monitoring well MW-3D, and accelerated semi-annual and annual testing of other residences within the LMP, was conducted at the beginning of December 2012.

This additional work identified the presence of 1,4-Dioxane in the private wells at 325 Schoolhouse Road (RES-30) and 50 Alston Avenue (RES-35) above the 3.0 ug/L GW-1 standard as Critical Exposure Pathways (CEPs), as well as documenting an apparent Condition of Substantial Release Migration for 1,4-Dioxane at a significant distance from the Eastham Landfill. These residents were immediately provided with bottled water as a temporary mitigating measure against ingestion of 1,4-Dioxane, as the primary and most sensitive route of potential exposure. All potential exposures (ingestion, inhalation and dermal contact) were evaluated under Method 3 – Risk Characterization utilizing the MA DEP ShortForms. These findings and recommendations for an expanded sampling program were presented in the Immediate Response Action Plan filed with the Department on January 11, 2013. The MA DEP subsequently met with the Town of Eastham and their consultants to discuss these findings in the context of proposed changes to the MCP regulations to lower the GW-1, Method 1 – Risk Characterization standard from 3.0ug/L to 0.3 ug/L and analytical methods outside the current CAM certifications were identified. It was determined that under EPA Method 522, being provided to the Region 1 EPD by TestAmerica at their Burlington, VT laboratory, a reporting limit of 0.2 ug/L was being provided. On January 30, 2013, the MA DEP issued the "Conditional Approval to Conduct Immediate Response Actions/Interim Deadlines" in response to the IRA Plan submittal as framing the use of low level 1,4 Dioxane testing by EPA Method 522 .

In the January to March 2013 reporting period, some 88 owners of record for downgradient residential properties east of the Eastham Landfill were notified by registered mail

to request the voluntary sampling of their private wells for regulated volatile organic compounds (VOC's) including low level 1,4-Dioxane. From February 11th to February 25th, some 58 responding property owners, representing some 65 residences, the Eastham DPW well and Eastham Elementary School, were tested for regulated VOC's (EPA 524) including low level 1,4-Dioxane (EPA 522 0.2 ug/L). Landfill monitoring wells and offsite monitoring wells were similarly tested.

Analytical results reported estimated concentrations of 1,4-Dioxane below the reporting limit of 0.2 ug/L ("J" values) in thirty-one (31) of the sixty-two (62) samples analyzed. Of the wells reporting concentrations of 1,4-Dioxane above the reporting limit of 0.2 ug/L, four (4) reported concentrations above the current GW-1, Method 1 - Risk Characterization Standard for drinking water (3.0 ug/L) and an additional seven (7) [total of 11] above the ORSG Drinking Water Guideline (0.3 ug/L) [18% +/-]. In the Landfill monitoring wells, nine (9) wells were tested for 1,4-Dioxane and five (5) had detectable concentrations with one (1) reporting a concentration (14.0 ug/L) significantly greater than the current GW-1, Method 1 - Risk Characterization Standard for drinking water (3.0 ug/L). In all of the other VOC testing conducted at the Landfill, no other compounds were reported at concentrations exceeding the current Drinking Water Standards (MMCL) or the MA Contingency Plan (MCP) GW-1, Method 1 – Risk Characterization Standards.

Bottled water was immediately provided to anyone reporting a 1,4-Dioxane concentration of 1.5 ug/L or greater based on Method 3 - Risk Characterization under the Residential ShortForms provided by the MA DEP. Additionally, interim measures for the mitigation of Critical Exposure Pathways (CEPs) to residents was being pursued at those locations with the highest 1,4-Dioxane concentrations (RES-30/RES-35). A replacement well was installed and tested at RES-35 (50 Alston Avenue) and the existing point-of-entry GAC treatment system at RES-30 (325 Schoolhouse Road) was equipped with coconut shell based granular activated carbon (GAC) that had reportedly shown increased capacity for 1,4-Dioxane sorption. At the time of the IRAS I reporting (3/29/13), both the replacement well and the GAC treatment system had documented the significant reduction or effective elimination of 1,4-Dioxane concentrations at these residences (<0.3 ug/L). It must be noted, that the evaluation for the longevity of GAC treatment capacity is limited by the fact that the residents have vacated the dwelling and water use has been limited. To compensate for low water use, more than 500 gallons is pumped prior to sampling to purge the system and simulate carbon contact time under occupancy.

The IRAS I, prescribed additional private well testing east of Schoolhouse Road and at other properties within the original Study Area that were not tested in Round 1. The low response to the original solicitations was attributed to a number of part-time residents that had winterized their houses. A number of these seasonal residents indicated that they would be available for the Round 2 testing later in the spring when the danger of freezing had past and they were opening the houses for the season.

In the April to June 2013 reporting period, 135 owners of record for downgradient residential properties in the expanded Study Area further east of the Eastham Landfill were notified by registered mail to request the voluntary sampling of their private wells for regulated volatile organic compounds (VOC's) including low level 1,4-Dioxane. In addition, 12 residents

from the original Study Area who were not available for sampling in Round 1, 7 residents who requested testing from outside the Study Area, and 7 additional outliers received requests for voluntary sampling. As such, a total of 161 letters requesting authorization for sampling, along with questionnaires for additional information on their private wells, were mailed. The responding 106 residences authorizing well sampling represents 66% of the total residences solicited in Round 2.

The following sections of this report are dedicated to the Landfill Monitoring and associated Immediate Response Actions conducted in the reporting period. This information is further evaluated relative to the identification of any Imminent Hazard and Significant Risk for mitigation and to identify and further qualify the source, nature and extent of impacts as associated with the leaching of contaminants to groundwater as suspected to have originated from buried solid waste under the capped Eastham Landfill.

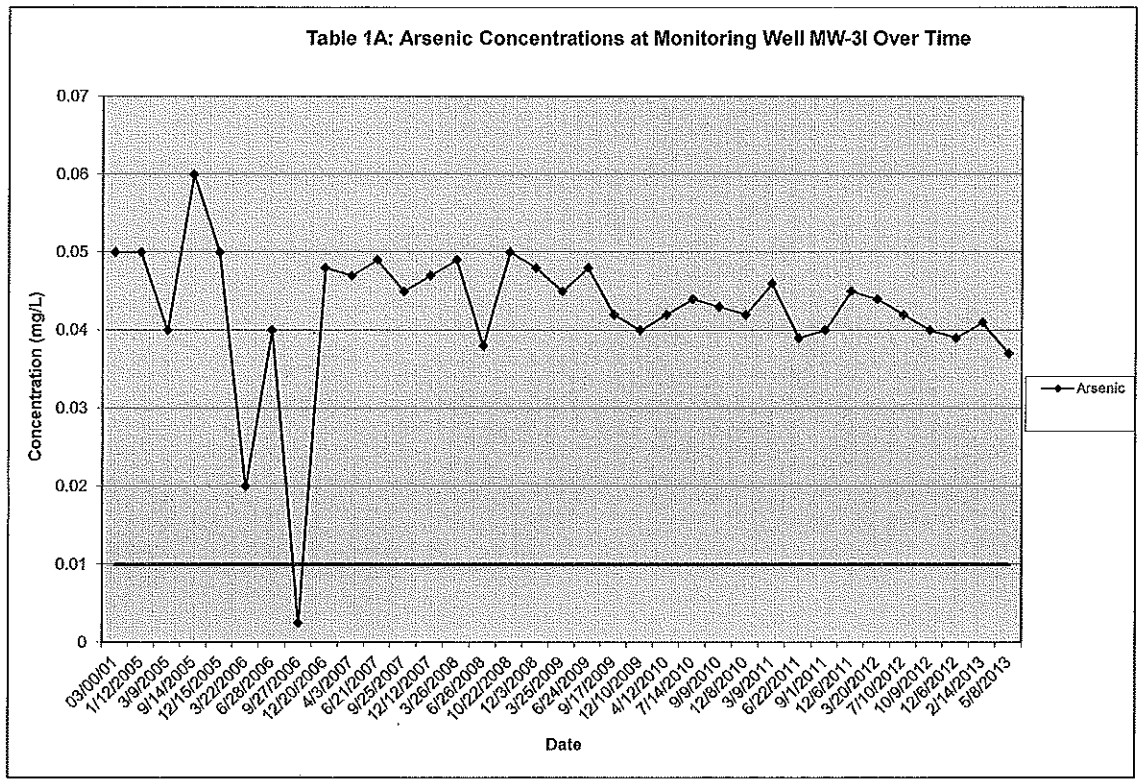
ENVIRONMENTAL ASSESSMENT LMP [Refer to Appendix B]

Groundwater

Barnstable County Department of Health & the Environment (BCDHE) personnel conducted the May 2013 quarterly sampling of the Eastham Landfill monitoring wells in accordance with the revised LMP on May 8, 2013 per contract with the Town of Eastham as overseen by BEA. Select wells were field-screened, purged and sampled for VOCs via Method 8260B as well as inorganics, indicators and 1,4-Dioxane as consistent with the provisions of 310 CMR 19.132(1)(h).

Significant concentrations of alkalinity and total dissolved solids (TDS) consistent with historic testing were reported for MW-3D in the indicator parameters monitored under the LMP as evidence of landfill solute impacts to groundwater associated with MSW burial at that location. Moderate concentrations of alkalinity and TDS continue to be reported at MW-3I. Monitoring wells MW-3I and 3D both reported arsenic at concentrations in excess of the applicable RCGW-1 Reportable Concentration. It is noted that these exceedances are consistent with historic concentrations reported in MCP deliverables submitted under RTN 4-18278 for the Moll's Pond Study Area, as exempt from certain remedial response provisions under the Adequately Regulated provisions of 310 CMR 40.0110 for Solid Waste facilities, wherein no such downgradient impacts have been documented in the historic sampling and analysis of off-site private wells and monitoring wells under the LMP protocols. Arsenic is typically not mobile in groundwater.

Concentrations appear only to be in the deeper portion of the shallow aquifer and localized around the MW-3 landfill monitoring well. The presence of arsenic is often attributed to leaching from chromated copper arsenate (CCA) pressure-treated wood that may be buried as part of the MSW. Arsenic concentrations within the MW-3I and MW-3D monitoring wells has historically decreased over time but remain significantly above the MA Drinking Water Standard (MMCL = 0.01 mg/L) [Refer to Table 1A and 1B].



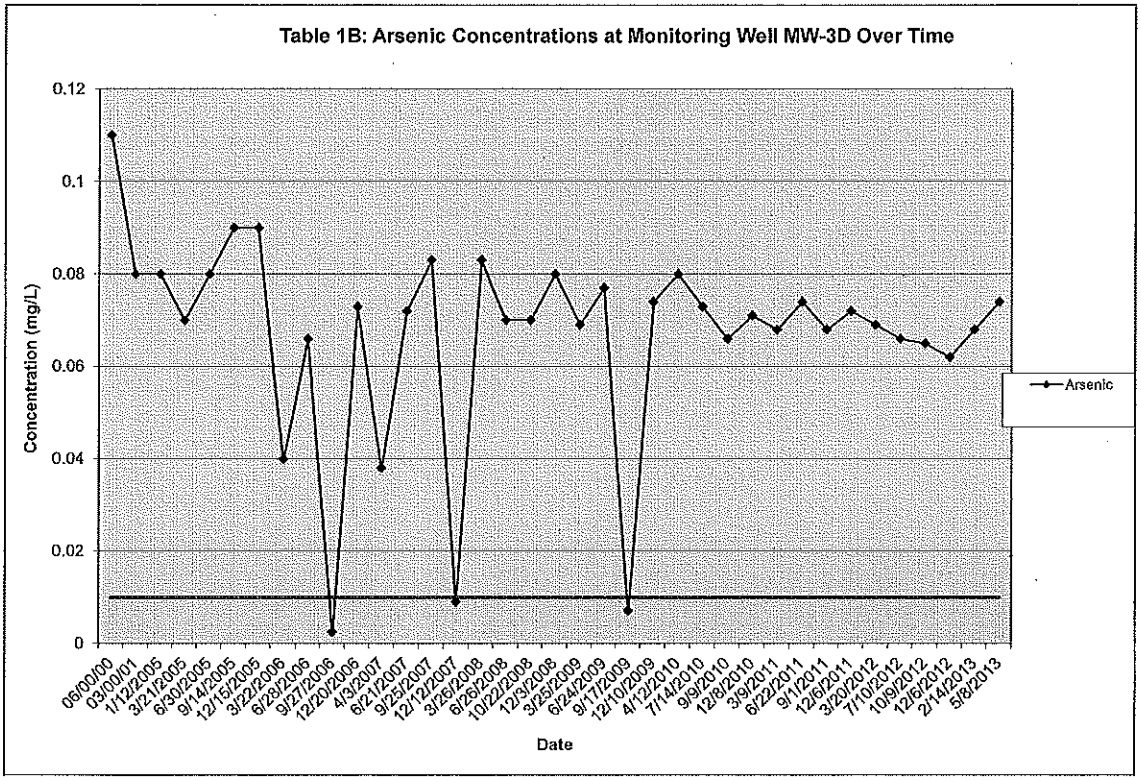


TABLE 1A and 1B: Concentrations of arsenic in the landfill monitoring wells at the MW-3 intermediate (EL -15) and deep (EL -36) aquifer horizons as showing attenuation through time although noted as increasing in MW-3D during the past two quarters. The current 0.01 mg/L arsenic drinlking water standard (MMCL) is shown as red line.

All other inorganic compounds (metals) prescribed for landfill monitoring wells within the LMP were reported below the applicable standards GW-1, Method 1 - Risk Characterization standards under the MCP and as consistent with Drinking Standards (MMCL) under the Drinking Water Program [Refer to Table 2].

Written clarification from the Department on the Adequately Regulated provisions of 310 CMR 40.0110 relative to arsenic concentrations has been requested multiple times as related to the ongoing MCP work. The revised LMP requirements do, however, specify offsite testing of arsenic and other metals and indicator compounds at certain downgradient residential wells. Additional clarification was sought relative to the interaction of the LMP under Solid Waste and the IRA under the MCP in a meeting with the MA DEP, the Town of Eastham officials and their consultants (Environmental Partners) on February 6, 2013 since the review of the Town of Eastham documents at town hall found the record to be incomplete. A formal MA DEP file review was requested by BEA on February 21, 2013 as related to the Solid Waste records for the purpose of identifying any other contaminants of concern (COC's). At the time of such request, BEA was advised that the historic records were currently under internal review and that a summary of findings would be forthcoming from the Department in consideration of adjusting analytical protocols either under the MCP or LMP programs. At the time of this filing, no such information has been received and the file review is being rescheduled by BEA to review the official records in consideration of additional sampling requirements ahead of Tier Classification as prescribed under 310 CMR 40.0510.

Table 2: Metals Analysis in Landfill Monitoring Wells (mg/L)
Town of Eastham Landfill - Old Orchard Road, Eastham, MA

	Date Sampled	Arsenic	Barium	Cadmium	Chromium	Copper	Iron	Lead	Manganese	Mercury	Selenium	Silver	Zinc
MCL		0.01	2	0.005	0.1			0.015		0.002	0.05		
SMCL						1.0	0.3		0.05			0.10	5.0
MW-2S	12/6/2012	ND (<0.0030)	0.013	ND (<0.0030)	ND (<0.0030)	ND (<0.0030)	0.68	ND (<0.0030)	0.43	ND (<0.0005)	ND (<0.015)	ND (<0.002)	ND (<0.060)
MW-2D	12/6/2012	ND (<0.0030)	0.0032	ND (<0.0030)	ND (<0.0030)	ND (<0.0030)	ND (<0.10)	ND (<0.0030)	0.051	ND (<0.0005)	ND (<0.015)	ND (<0.002)	ND (<0.060)
MW-3S	12/6/2012	ND (<0.0030)	0.030	ND (<0.0030)	ND (<0.0030)	ND (<0.0030)	0.25	ND (<0.0030)	0.28	ND (<0.0005)	ND (<0.015)	ND (<0.002)	ND (<0.060)
MW-3I	12/6/2011	0.045	0.011	ND (<0.003)	ND (<0.003)	ND (<0.003)	80	ND (<0.003)	1	ND (<0.0005)	ND (<0.015)	ND (<0.002)	ND (<0.06)
	3/20/2012	0.044	0.011	ND (<0.003)	ND (<0.003)	ND (<0.003)	65	ND (<0.003)	1.4	ND (<0.0005)	ND (<0.015)	ND (<0.002)	ND (<0.06)
	7/10/2012	0.042	ND (<0.003)	ND (<0.003)	ND (<0.003)	ND (<0.003)	68	ND (<0.003)	1.1	ND (<0.0005)	ND (<0.015)	ND (<0.002)	ND (<0.1)
	10/9/2012	0.040	0.011	ND (<0.003)	ND (<0.003)	ND (<0.003)	65	ND (<0.003)	1	ND (<0.0005)	ND (<0.015)	ND (<0.002)	ND (<0.1)
	12/6/2012	0.039	0.011	ND (<0.003)	ND (<0.003)	ND (<0.003)	72	ND (<0.003)	1.1	ND (<0.0005)	ND (<0.015)	ND (<0.002)	ND (<0.060)
	2/14/2013	0.041	0.012	ND (<0.003)	ND (<0.003)	ND (<0.003)	69	ND (<0.003)	1.1	ND (<0.0005)	ND (<0.015)	ND (<0.002)	ND (<0.060)
	5/8/2013	0.037	0.009	ND (<0.003)	ND (<0.003)	ND (<0.003)	64	ND (<0.003)	0.98	ND (<0.0005)	ND (<0.015)	ND (<0.003)	ND (<0.060)
MW-3D	12/6/2011	0.072	0.1	ND (<0.003)	0.0033	ND (<0.003)	50	ND (<0.003)	1.2	ND (<0.0005)	ND (<0.015)	ND (<0.002)	ND (<0.06)
	3/20/2012	0.069	0.1	ND (<0.003)	ND (<0.003)	ND (<0.003)	40	ND (<0.003)	1.7	ND (<0.0005)	ND (<0.015)	ND (<0.002)	ND (<0.06)
	7/10/2012	0.066	0.099	ND (<0.003)	ND (<0.003)	ND (<0.003)	38	ND (<0.003)	1.4	ND (<0.0005)	ND (<0.015)	ND (<0.002)	ND (<0.1)
	10/9/2012	0.065	0.090	ND (<0.003)	0.0030	ND (<0.003)	39	ND (<0.003)	1.4	ND (<0.0005)	ND (<0.015)	ND (<0.002)	ND (<0.1)
	12/6/2012	0.062	0.097	ND (<0.003)	ND (<0.003)	ND (<0.003)	40	ND (<0.003)	1.8	ND (<0.0005)	ND (<0.015)	ND (<0.002)	ND (<0.060)
	2/14/2013	0.068	0.096	ND (<0.003)	0.0059	ND (<0.003)	40	ND (<0.003)	1.7	ND (<0.0005)	ND (<0.015)	ND (<0.002)	ND (<0.060)
	5/8/2013	0.074	0.096	ND (<0.003)	0.0063	ND (<0.003)	40	ND (<0.003)	1.3	ND (<0.0005)	ND (<0.015)	ND (<0.003)	ND (<0.060)
MW-4S	6/24/2010	ND (<0.005)	0.034	ND (<0.0005)	ND (<0.003)	ND (<0.05)	2.3	ND (<0.003)	4.9	ND (<0.00025)	ND (<0.003)	ND (<0.002)	ND (<0.05)
	6/22/2011	ND (<0.0015)	0.03	ND (<0.0015)	ND (<0.0015)	ND (<0.0015)	2.7	ND (<0.0015)	5.2	ND (<0.00025)	ND (<0.0075)	ND (<0.0005)	ND (<0.03)
	7/10/2012	ND (<0.0015)	0.031	ND (<0.0015)	ND (<0.0015)	ND (<0.0015)	2.4	ND (<0.0015)	4.4	ND (<0.00025)	ND (<0.0075)	ND (<0.001)	ND (<0.05)
	12/6/2012	0.0034	0.028	ND (<0.0015)	ND (<0.0015)	ND (<0.0015)	2.4	ND (<0.0015)	5.1	ND (<0.00025)	ND (<0.0075)	ND (<0.001)	ND (<0.05)
MW-4D	12/6/2012	ND (<0.0030)	0.028	ND (<0.0030)	ND (<0.0030)	ND (<0.0030)	ND (<0.10)	ND (<0.0030)	0.16	ND (<0.0005)	ND (<0.015)	ND (<0.002)	ND (<0.060)
MW-5S	12/6/2012	ND(<0.003)	0.044	ND (<0.003)	ND (<0.003)	ND (<0.003)	5.5	ND (<0.003)	3.6	ND (<0.0005)	ND (<0.015)	ND (<0.002)	ND (<0.060)

Indicator compounds iron and manganese were also noted as exceeding the MA Drinking Water Secondary Standards (SMCL) standards in MW-3I and MW-3D and total dissolved solids in MW-3D. These Secondary Standards are primarily based on aesthetic quality of the water and not typically health based. The occurrence of elevated iron and manganese is common to some areas of town but exaggerated by the decay of buried organic wastes. In the landfill setting, the reducing environment leaches naturally-occurring iron and manganese from the surrounding soils. All other indicator compounds were met for the LMP landfill monitoring wells and analytical protocols prescribed [Refer to Table 3].

Table 3: Inorganic/Indicators Analysis in Landfill Monitoring Wells (mg/L)
Town of Eastham Landfill - Old Orchard Road, Eastham, MA

	Date Sampled	COD	Total Cyanide	Nitrate - N	Alkalinity	Chloride	Sulfate	TDS
MCL			0.2	10				
SMCL						250	250	500
MW-2S	12/6/2012	ND (<3.0)	NT	0.45	150	27	40	280
MW-2D	12/6/2012	ND (<3.0)	NT	0.60	23	22	6.7	81
MW-3S	12/6/2012	ND (<3.0)	NT	3.0	16	10	10	61
MW-3I	12/6/2011	ND (<3.0)	ND (<0.01)	ND (<0.01)	180	18	60	290
	3/20/2012	15	ND (<0.01)	0.42	180	19	63	290
	7/10/2012	18	ND (<0.01)	0.19	180	19	66	320
	10/9/2012	ND (<3.0)	ND (<0.01)	ND (<0.01)	180	12	79	270
	12/6/2012	17	NT	0.35	190	10	81	290
	2/14/2013	15	ND (<0.01)	0.14	180	14	70	250
	5/8/2013	7	ND (<0.01)	0.32	160	13	49	260
MW-3D	12/6/2011	84	ND (<0.01)	0.53	990	120	65	**1800**
	3/20/2012	62	ND (<0.01)	1.7	1000	240	68	**1500**
	7/10/2012	71	ND (<0.01)	0.72	970	100	67	**1700**
	10/9/2012	5.8	ND (<0.01)	6.2	960	130	70	**1500**
	12/6/2012	63	NT	1.4	960	91	73	**1700**
	2/14/2013	70	ND (<0.01)	ND (<0.10)	920	120	68	**1600**
	5/8/2013	63	ND (<0.01)	0.87	870	100	68	**1400**
MW-4S	12/6/2011	ND (<1.5)	ND (<0.005)	0.29	220	27	26	410
	3/20/2012	ND (<1)	ND (<0.005)	0.22	190	34	18	270
	7/10/2012	13	ND (<0.005)	0.18	180	26	20	300
	12/6/2012	14	NT	ND (<0.05)	180	21	22	240
MW-4D	12/6/2012	ND (<3.0)	NT	2.3	16	50	18	140
MW-5S	12/5/2012	8	NT	0.45	200	34	29	320
MW-5D	12/5/2012	ND (<3.0)	NT	2.3	23	77	25	230

Over the reporting period, semi-annual testing of MW-3I, MW-3D and MW-21S for VOCs (via EPA Method 8260) was accompanied by 1,4-Dioxane testing (via EPA Method 8260 SIM/522.1 Mod). 1,4-Dioxane was reported in MW-3D (17 ug/L) above the RCGW-1 Standard,

confirming the presence and persistence of this compound in this landfill monitoring well. Concentrations of 1,4-Dioxane were reported as Non-Detect (ND <2.5 ug/L) in MW-3I. A low level concentration of 1,4-Dioxane was reported in MW-21S (0.33 ug/L).

Table 4: VOC Analysis in Landfill Monitoring Wells (Detects only) (ug/L)
Town of Eastham Landfill: Old Orchard Road, Eastham, MA

	Date Sampled	Vinyl Chloride	Chloroethane	cis-1 2-DCE	Benzene	Chlorobenzene	MTBE	1, 4-Dioxane
RCGW-1		2.0	1,000	70	5	100	70	3
MW-2S	12/6/2012	ND (<0.50)	ND (<0.50)	ND (<0.50)	ND (<0.50)	ND (<0.50)	ND (<0.50)	ND (<2.5)
	2/14/2013	NT	NT	NT	NT	NT	NT	0.47
MW-2D	12/6/2012	ND (<0.50)	ND (<0.50)	ND (<0.50)	ND (<0.50)	ND (<0.50)	ND (<0.50)	ND (<2.5)
	2/14/2013	NT	NT	NT	NT	NT	NT	0.14J
MW-3S	12/6/2012	ND (<0.50)	ND (<0.50)	ND (<0.50)	ND (<0.50)	ND (<0.50)	ND (<0.50)	ND (<2.5)
	2/14/2013	NT	NT	NT	NT	NT	NT	ND (<0.2)
MW-3I	12/6/2011	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<500)
	3/20/2012	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA
	7/10/2012	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	NA
	10/9/2012	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<2.5)
	12/6/2012	ND (<0.50)	ND (<0.50)	ND (<0.50)	ND (<0.50)	ND (<0.50)	ND (<0.50)	ND (<2.5)
	2/14/2013	ND (<0.50)	ND (<0.50)	0.84	ND (<0.50)	ND (<0.50)	ND (<0.50)	ND (<0.2)
	5/8/2013	ND (<0.50)	ND (<0.50)	ND (<0.50)	ND (<0.50)	ND (<0.50)	ND (<0.50)	ND (<2.5)
MW-3D	12/6/2011	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<500)
	3/20/2012	ND (<0.5)	ND (<0.5)	1.5	1.2	1.8	ND (<0.5)	NA
	7/10/2012	ND (<0.5)	ND (<0.5)	1.7	1.4	1.9	1.2	NA
	10/9/2012	0.58	0.58	1.3	1.2	1.9	1.6	18
	12/6/2012	ND (<0.050)	ND (<0.050)	1.2	1.1	1.8	1.1	14
	2/14/2013	ND (<0.050)	ND (<0.050)	1.5	1	1.6	1.2	14/16
	5/8/2013	ND (<0.050)	ND (<0.050)	1.1	0.91	1.4	1.1	17/18
MW-4S	12/6/2012	ND (<0.50)	ND (<0.50)	ND (<0.50)	ND (<0.50)	ND (<0.50)	0.56	ND (<2.5)
	2/14/2013	NT	NT	NT	NT	NT	NT	1.5
MW-4D	12/6/2012	ND (<0.50)	ND (<0.50)	ND (<0.50)	ND (<0.50)	ND (<0.50)	ND (<0.50)	ND (<2.5)
	2/14/2013	NT	NT	NT	NT	NT	NT	ND (<0.2)
MW-5S	12/6/2012	ND (<0.50)	ND (<0.50)	0.51	ND (<0.50)	ND (<0.50)	ND (<0.50)	ND (<2.5)
	2/14/2013	NT	NT	NT	NT	NT	NT	1.2
MW-5D	12/6/2012	ND (<0.50)	ND (<0.50)	ND (<0.50)	ND (<0.50)	ND (<0.50)	ND (<0.50)	ND (<2.5)
	2/14/2013	NT	NT	NT	NT	NT	NT	ND (<0.2)
MW-8	12/6/2012	ND (<0.50)	ND (<0.50)	ND (<0.50)	ND (<0.50)	ND (<0.50)	ND (<0.50)	ND (< 2.5)
MW-21S	12/6/2012	ND (<0.50)	0.72	2.1	ND (<0.5)	ND (<0.50)	ND (<0.50)	3.7
	5/8/2013	ND (<1.0)	ND (<2.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	0.16J	0.33
MW-21D	2/25/2013	ND (<0.50)	ND (<2.0)	ND (<0.1)	ND (<1.0)	ND (<1.0)	0.20J	0.54

The VOC analysis of MW-3D in the reporting period reported low level concentrations of several compounds including MTBE, cis-1,2-DCE, benzene and chloro-benzene, all significantly below applicable MMCL and GW-1, Method 1 – Risk Characterization standards. VOC analysis of MW-3I reported all VOCs as ND. VOC analysis of MW-21S reported low level concentrations of MtBE (0.16 ug/L) and carbon disulfide (0.40 ug/L), both significantly below the applicable GW-1 Method 1 Risk Characterization Standards. These VOC results are consistent with prescribed historic LMP testing of the Landfill monitoring wells wherein various low level VOC's are reported at concentrations significantly lower than the MMCL, RCGW-1 and GW-1, Method 1 – Risk Characterization Standards. As such, the most recent LMP testing indicates that 1,4-Dioxane at a concentration of > 3.0 ug/L is isolated in the deeper portion of the

upper aquifer (EL -36 +/- NGVD) in the vicinity of MW-3 only, while lower concentrations of 1,4-Dioxane are present sporadically in other landfill monitoring wells [Refer to Table 4].

Landfill Soil Gas Monitoring

Soil gas monitoring was conducted by the Barnstable County Health and Environmental Department (BCDHE), as contracted by the Town of Eastham, on May 8, 2013. No concentrations of methane were reported in any well above the detection limit of the instrument (ND). In addition, no concentrations of hydrogen sulfide were reported above the detection limits of the instrument in any well. At no time were the oxygen levels reported above 20.9%, which would indicate a potential fire hazard. VOC concentrations were reported at 0.1 ppm in well GMW-1 both prior to, and after purging. All other wells reported VOCs as below the detection limits of the instrument. All other sampling points were noted as consistent with previous reporting wherein no apparent fire or health hazards are identified as associated with landfill venting.

Drinking Water – LMP Residences

BEA personnel, with the assistance of BCHED, performed sampling and analysis of the private potable wells and downgradient monitoring wells in the reporting period. RES-1 (180 Old Orchard), RES-8 (100 Meetinghouse) and RES-20 (285 Alston) were sampled under the LMP quarterly protocols for VOC's (524/522) and arsenic. As previously discussed, arsenic concentrations in these private wells were Non-Detect (ND < 0.003 mg/L) wherein the detection limit or reported concentrations have consistently been significantly below the GW-1 and MMCL Drinking Water Standard (0.01 mg/L). Additionally, VOC testing, exclusive of low level 1,4-Dioxane, reported all compounds in these residential wells at trace concentrations or as Non-Detect. In all cases, excluding EDB/DBCP as non-targets excluded by recent landfill testing, the concentrations reported and/or detection limits reported in these wells are significantly less than the MA Drinking Water (MMCL) and GW-1 standards. Low level 1,4-Dioxane testing of the quarterly LMP residential wells in the period again reported detectable concentrations in RES-1 (180 Old Orchard - 0.52 ug/L), RES-8 (100 Meetinghouse - 1.8 ug/L) and in RES 20 (285 Alston Road – 0.35 ug/L). It is noted that the concentration most recently reported at 180 Old Orchard is significantly greater than the testing in February 2013 (0.045 to 0.52 ug/L), and as such will be tested in the next round of sampling in July 2013 ahead of the quarterly LMP requirements. Otherwise, the reported 1,4-Dioxane concentrations are consistent with the previous testing conducted. RES-8, a duplex at 100 Meetinghouse, continues to be provided bottled water for both residences wherein the Bottled Water Action Level of 1.5 ug/L is exceeded.

Additional residential well testing has been conducted in the reporting period as either associated with prior detection of elevated concentrations of 1,4-Dioxane greater than 3.0 ug/L wherein monthly testing is conducted, or as based on the availability of seasonal homeowners with annual or semi-annual LMP requirements. RES-30 (325 Schoolhouse) has reported 1,4-Dioxane influent (raw untreated) concentrations in their well as ranging from 7.8 ug/L to 9.8 ug/L as consistent with prior testing under the LMP. This household was equipped with a point-of-entry GAC treatment system to pilot the use of coconut shell based granular activated carbon. Throughout the weekly testing and then monthly testing that followed since February 25, 2013,

all VOC concentrations and 1,4-Dioxane concentrations in the intermediate and finished (treated) samples have been reported as ND (< 0.2 ug/L) wherein the detection limit concentrations are significantly below the regulated Drinking Water Standards (MMCL) and 0.3 ug/L Drinking Water Guideline as documenting effective elimination of the CEP at this location with the benefit of treatment.[3]

In the initial testing of RES-35 (50 Alston) in February 2013 under the revised LMP annual sampling requirements, 1,4-Dioxane was reported at a concentration of 5.0 ug/L and bottled water was immediately provided to the residents. In review of the well completion report, the well was found to be set deep in the lower aquifer. As such, with the permission of the homeowners, a replacement well was installed to evaluate the effectiveness of setting a shallow well and to use the clay as a barrier as a mitigating measure. It was intended to produce drinking water from a shallower horizon that was hydraulically isolated from a diving plume of landfill leachate that carried the 1,4-Dioxane. Initial testing indicated that this strategy was successful in significantly improving water quality wherein monthly testing of the well carrying into the current reporting period has reported 1,4-Dioxane concentrations between an estimated values of 0.18J to 0.23 ug/L. Other VOC's were reported as ND or at low level concentrations wherein the reported value, or the detection limit, was significantly less than the regulated Drinking Water Standards (MMCL).[4] These 1,4-Dioxane concentrations are also significantly less than the most restrictive 0.3 ug/L Drinking Water Guideline. However, bottled water continues to be provided as a precautionary measure and the new well will continue to be tested on a quarterly basis in the next reporting period. It remains unclear if this concentration represents background conditions or low level impacts within the shallow aquifer which are absent in abutting wells at similar depths. Regardless, the use of shallow replacement wells in this area appears to be a viable mitigating measure towards elimination or control of the CEP's as an interim measure.

Monthly testing of private wells at RES-31 (30 Knowles) and RES-34 (11 Eldia) is also being conducted as more intensive than the annual requirement prescribed, as based on the 1,4-Dioxane concentrations reported as greater than 3.0 ug/L. At the time of initial discovery of 1,4-Dioxane at such concentrations, these households were immediately supplied with bottled water. In the monthly testing conducted over the reporting period, concentrations of 1,4-Dioxane at RES-31 (30 Knowles) ranged from 4.9 to 6.0 ug/L, and at RES-34 (11 Eldia) from 3.3 to 4.2 ug/L. In each case, these most recent tests are consistent with earlier testing wherein additional VOC's were reported as ND or at low level concentrations wherein the reported value, or the detection limit was significantly less than the regulated Drinking Water Standards (MMCL).[5]

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[3] Acetone, as a common solvent used by the laboratory for the cleaning of equipment and as reported in trip blanks, was reported at low level estimated "J" values and as such, is considered as a false positive and not considered in this statement on GAC treatment performance and elimination of CEP's as a non-target analyte.

[4] 1,2 dibromo-3-chloropropane (DBCP) and 1,2-dibromoethane (EDB) have reporting limits greater than the MMCL standards but based on low level testing in landfill that reported these compounds as below the detection limit wherein the detection limit is lower than the prescribed standards, DBCP and EDB are not considered contaminants of concern

[5] See footnote 4

In the reporting period, RES-32 (45 Knowles) and RES-36 (25 Knowles), as being provided bottled water, were also tested. In the case of RES-32 (45 Knowles), this was the initial testing under the revised LMP annual requirements and low level 1,4-Dioxane and VOC testing by Method 522 and 524, respectively, reported a concentration of 1,4–Dioxane at 2.4 ug/L. Other VOC's were reported as ND or at low level concentrations wherein the reported value, or the detection limit was significantly less than the regulated Drinking Water Standards (MMCL). RES-36 (25 Knowles) reported a concentration of 1,4–Dioxane in the reporting period between 2.6 and 2.8 ug/L, as consistent with previous testing. Both residences were provided with bottled water on discovery of 1,4–Dioxane at concentrations above the 1.5 ug/L Action Level. Remaining VOC's in both wells were reported as ND or at low level concentrations wherein the reported value, or the detection limit was significantly less than the regulated Drinking Water Standards (MMCL). These wells will continue to be tested on a quarterly basis for low level 1,4 Dioxane and regulated drinking water VOC's by Method 522 and 524, respectively, under the IRA.

In the review of the revised LMP requirements, several deficiencies were noted relative to annual testing of the RES wells and offsite monitoring wells, as will be corrected in the next quarterly period from July to September 2013. RES-6 (155 Meetinghouse) has previously been unavailable for sampling due to the seasonal nature of the use of the property, and these owners will be contacted in the next reporting period to complete the required annual sampling of VOC's with low level 1,4-Dioxane, indicators and metals. Additionally, RES-7 (125 Meetinghouse Road) and RES-2 (290 Old Orchard), as the common well for 250, 290, 320 Old Orchard and 167, 169 Meetinghouse Road, have been tested for VOC's and low level 1,4-Dioxane. Records, however, indicate that the annual LMP testing of indicator compounds and metals has not previously been conducted. This additional work at RES-6, RES-2, and RES-7, along with the sampling of MW-21D, MW-8, MW-9 and MW-10 outside the LMP, will be conducted in the next quarter. At the time of such testing, the well depths and production horizons will be established to help define the magnitude and extent of groundwater impacts.

Additional information on the magnitude and extent of 1,4-Dioxane impacts to groundwater outside the requirements of the LMP, including additional use of existing monitoring wells, more frequent testing of RES private wells and the impacts to other private well in the expanded Study Area are being conducted under the IRA as concurrent with the LMP. The sum of this information is being used for the evaluation and mitigation of potential exposures to human receptors as the primary focus of the Immediate Response Action under RTN 4-24301. The findings of such investigation are detailed in the following section of the report.

IMMEDIATE RESPONSE ACTION STATUS [Refer to Appendix C]

Soils

No soil testing has yet been conducted as part of the IRA, but the source of 1,4-Dioxane impacts to groundwater are assumed to be associated with the leaching of buried solid waste (MSW) underlying the engineered barrier at the Eastham Landfill or former septage lagoons north of the buried MSW. As such, impacted soils within the landfill are isolated by the

engineered barrier to cap the landfill against ingestion, dermal contact and inhalation exposures. Additionally, soils impacted by offsite migration of groundwater are considered isolated as being at depths greater than 15' below grade. As such, the investigation of soil impacts is not prioritized in the evaluation of exposures risk at this time under the IRA.

1,4-Dioxane was first manufactured by Dow Chemical in the 1950's. The most recent research indicates that 1,4-Dioxane is a stabilizer historically used in the synthesis of the solvent 1,1,1-Trichloroethane (1,1,1-TCA CAS 71-55-6) wherein in urbanized areas, TCA is most commonly associated with manufacturing (vapor degreaser, printing and polishing compositions: cellulose acetate, benzyl and ethyl cellulose and in the waxes, oils and resins). However, other sources of 1,4-Dioxane reported include septic additives, flame retardant materials, medical diagnostic testing products (scintillation counting – Bray's solution), brake cleaners, antifreeze, paints, coatings and news print (inks). Additionally, as a stabilizer, 1,4-Dioxane is still used in commercially available products such as cosmetics, deodorants and detergents[6]. These non-manufacturing based products are to be expected in the SMW buried at the Eastham Landfill and potentially in the septage that was hauled into the former septage lagoons at the property. It is also likely found in domestic wastewater currently being generated from onsite septic systems throughout the Study Area, as accounting for some low level background concentrations as apparent from recent testing outside the Study Area and known landfill impacts.

To further investigate the correlation between sanitary system discharge and the presence of 1,4-Dioxane, as referenced in the professional literature cited [Midwest GeoScience, 2013], an outlying private well at 20 Guerra Way which reported a high nitrate concentration -was tested as requested through the Eastham Health Department. The testing of this outlier well, screened at 59', reported an estimated ("J") concentration of 1,4-Dioxane at 0.15 ug/L. In the replacement well screened at 42', where nitrate concentrations were reduced, 1,4-Dioxane was reported as ND (< 0.2 ug/L).

The possibility of low level 1,4 Dioxane in commercial products being discharged to private septic systems is considered in review of background conditions. It is further realized in this reporting period that, given the sensitivity of the 522 analysis, with the acceptable recovery limits of between 70-130% and a lower quantification limit of 0.05 or lower, many of the estimated "J" values may be false positives or a function of background conditions. In the outlier well at 20 Guerra Way, some 1,300' up gradient (west) of the Landfill, a 1,4-Dioxane concentration of 0.15 ug/L was estimated. In the reporting period, sample blanks also reported "J" concentrations of 1,4-Dioxane. As such, concentrations less than 0.2 ug/L are suspect as may be considered a lower quantification limitation of the 522 Method or as background. The issue of background conditions and the possibility of fugitive sources of 1,4 Dioxane is subject to further investigations. Notwithstanding, 1,4 Dioxane concentrations greater than 0.2 ug/L are currently attributed to the Eastham Landfill as the subject of the current IRA.

[6] Midwest GeoSciences Group " 1,4-Dioxane: Contaminants of Concern Webinar Series" (Thomas K.G. Mohr) March 19, 2013 and March 21, 2013.

Evaluation of Drinking Water Impacts – Critical Exposure Pathways to Residents

In this reporting period (Round 2 – March to June 2013), an additional 135 owners of record for downgradient residential properties in the expanded Study Area (Phase II) further east of the Eastham Landfill were notified by registered mail to request the voluntary sampling of their private wells for regulated volatile organic compounds (VOC's) including low level 1,4-Dioxane. In addition, 12 residents from the original Study Area (Phase I) who were not available for sampling in Round One, as well as 7 outlying residents, received requests for voluntary sampling. As such, a total of 161 letters requesting authorization for sampling were mailed, along with questionnaires for additional information on their private wells to fill gaps in the public record, and to help establish the horizontal and vertical extent of VOC impacts to groundwater downgradient of the landfill, with particularly interest in the presence of low level 1,4-Dioxane. In the period from April 29, 2013 to May 29, 2013, some 106 responding properties were tested for VOC's (via EPA Method 524.2) and low level 1,4-Dioxane (via EPA Method 522.1 Mod.) as assisted by a team of environmental scientist from the Region 1 EPA Investigations and Analysis Unit. These sampling protocols were recommended by the MA DEP and approved by the Town of Eastham to achieve a reporting limit of 0.2 ug/L for 1,4-Dioxane as consistent with the 2012 MA Drinking Water Guidelines (SMCL) and 2013 proposed changes to the GW-1, Method 1 – Risk Characterization standard.

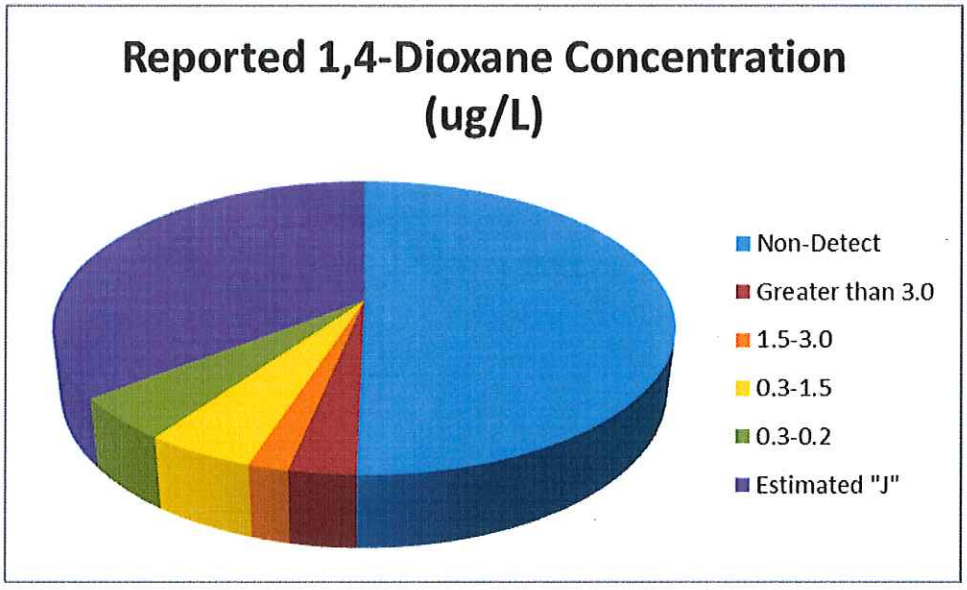
In the reporting period (March to June 2013), one new unique hit of 1,4-Dioxane has been identified at 45 Knowles Street (RES 32) in a deep well (189') as reported at a concentration of 2.3 ug/L. This property location is within the Phase I Study Area and not within the expanded Phase II Study Area. The owner/occupants of the property were immediately provided with bottled water and added to the Town of Eastham water vendor contract as consistent with all other properties where 1,4-Dioxane has been reported at or above 1.5 ug/L. The occurrence of elevated concentrations of 1,4-Dioxane at this property, as within the deep aquifer below a substantial thickness of clay, is typical of the cluster of four other properties in the area (325 Schoolhouse, 25 Knowles, 30 Knowles and former well at 50 Alston), wherein these private wells are produced at elevations ranging from at elevations between -105 and -150 below sea level.

Also in the reporting period (Round 2 – March to June 2013), the presence of 1,4-Dioxane at 11 Eldia was investigated as an anomaly wherein it is a very shallow well with only 8' of penetration reported 1,4-Dioxane impacts at above 3.0 ug/L at considerable distance and cross gradient from the capped landfill. It is noted that the former septage lagoons are up gradient of this property location. The depth of well was confirmed as reported and groundwater impact at 11 Eldia is within the upper aquifer. It is apparent that there are other impacted wells in the vicinity of 11 Eldia Lane as similarly located within the upper unconfined aquifer between elevation +5 to -50. It is further noted that abutting properties in the deeper aquifer report 1,4-Dioxane concentrations as ND or at concentrations less than the most restrictive 0.3 ug/L MA Drinking Water Guideline. The determination of the production horizon in the common well at 290 Old Orchard and surrounding properties will facilitate the consideration of replacement wells in this area.

At 180 Old Orchard Road (RES-1) 1,4-Dioxane has increased from a concentration of .045J ug/L in February 2013 to 0.52 ug/L in May 2013. Any such sudden increase in concentrations must be investigated for a potential active source or changing environmental or physical conditions that could account for such variations. Suggested revisions to the LMP and prescribed resampling of this well will further qualify this disparity.

Thus far under the IRA, private wells for a total of 169 properties representing 171 residences have been sampled and evaluated for regulated volatile organic compounds (VOC's) and low level 1,4-Dioxane. Under the Landfill Monitoring Plan (LMP), select residences (RES) are also being tested for metals and indicator compounds. In this residential testing over six (6) months, no private well has reported any regulated VOC compounds or metals concentration as exceeding the Drinking Water Standards (MMCL). Five (5) private wells, representing six (6) residents, have reported 1,4-Dioxane above the current GW-1, Method 1 – Risk Characterization Standard (3.0 ug/L). A total of sixteen (16) private wells, representing eighteen (18) residences, have reported 1,4-Dioxane above the current MA Drinking Water Guideline and proposed revision to the GW-1, Method 1 Risk Characterization Standard (0.3 ug/L). Under Method 3 – Risk Characterization, chemical specific ingestion exposures for Imminent Hazard and Significant Risk for cancer and non-cancer exposures has been evaluated as the basis of the 1.5 ug/L Bottled Water Action Level to mitigate potential Significant Risk. At present, ten (10) residences, as representing eight (8) properties, are being provided with bottled water. In the next reporting period, all private wells reporting 1,4-Dioxane at 3.0 ug/L or greater will be tested monthly and all private wells reporting 1,4 Dioxane at 1.5 to 3.0 ug/L will be tested quarterly for regulated VOC's by Method 524 and low level 1,4–Dioxane by Method 522.

Analytical results from Round 1 (January to March 2013) and Round 2 (March to June 2013) as a percentage of the number of wells tested is presented in the graph below.



In offsite monitoring well testing, MW-8 (Alston @ Meetinghouse) and MW-21S/MW-21D (Alston @ Molls Pond), all reported detectable concentrations of 1,4-Dioxane by the low level EPA 522 analysis. 1,4-Dioxane was reported at a concentration of 0.33 ug/L at monitoring well MW-8, 3.7 ug/L at MW-21S and 0.54 ug/L at MW-21D. Each of these concentrations is above the 0.3 ug/L ORSG standard, and MW-21S is above the current 3.0 ug/L, GW-1 standard as representing Landfill plume intercept. The elevations of these wells are being used to define the horizontal and vertical extent of 1,4-Dioxane down gradient of the Landfill in the Study Area and define the Site. Other VOC testing of these monitoring wells by Method 8260 reported concentrations of the analyzed regulated compounds as Non-Detect or at low level concentrations. Review of the analytical results indicates that the reporting limits, or concentrations reported for the other regulated VOC's, are significantly less than the MMCL, GW-1 or RCGW-1 standards.

In the next reporting period, monitoring wells MW-9 and MW-10 will be tested for regulated VOC's and low level 1,4-Dioxane. In addition, a shallow monitoring well will be advanced adjacent to the MW-8 location to profile low level 1,4 Dioxane and regulated VOC's in the upper aquifer at this location and to allow for future monitoring. It appears that the existing MW-8 represents the lower limit of the landfill plume and the shallow well is intended to document the upper limit of the plume. Intermediate profiling will also establish the maximum impacts at this location toward consideration of remedial options where intercept wells are anticipated.

Well Designation	Parameters	Frequency of Testing
RES-30, RES-31, RES-34, RES-35	VOCs via EPA Method 524, low level 1,2-Dioxane via Method 522	Monthly
MW-3I and MW-3D	In Accordance with 310 CMR 19.132(1)(h); VOCs via EPA Method 8260B, low level 1,2-Dioxane via Method 522	Quarterly
RES-1, RES-4, RES-8, RES-20, RES-32, RES-36, RES-40, RES-41, RES-42, RES-43, RES-44, RES-45, RES-46	VOCs via EPA Method 524 and arsenic, low level 1,2-Dioxane via Method 522	Quarterly
MW-21S, MW-21D	VOCs (only) via 8260B, low level 1,2-Dioxane via Method 522	Semi-annually
MW-2S, MW-4S, MW-5S	In Accordance with 310 CMR 19.132(1)(h), low level 1,2-Dioxane via Method 522	Annually
RES-2, RES-3, RES-6, RES-7, RES-9, RES-13, RES-16, RES-18	VOCs via EPA Method 524 and Inorganics (except cyanide) per 310 CMR 19.132(1)(h), low level 1,2-Dioxane via Method 522	Annually
MW-8, RES-33 and the DPW well	VOCs (only) via 8260B at Landfill well and via 524 at RES well and DPW well, low level 1,2-Dioxane via Method 522 (all)	Annually

The proposed revisions to the revised LMP are presented in the table above. Additional information regarding exposure risk, CEP evaluation and mitigating measures is presented in the following sections of this report. Field work activities including US EPS Well Sampling Summary and BEA Residential Well Sampling Logs are presented in Appendix B. All analytical

data was communicated to the property owners or residents under the BWSC-123 Transmittal Form inclusive of MA DEP/EPA literature as presented in Appendix C of this report. Analytical results for the residential well sampling are presented in Appendix D with a tabulated summary of results.

Data Usability

The EPA Method 524/522 series drinking water analytical methods employed for the sampling of residential wells over the reporting period are not required to meet CAM requirements and are not reported as such. However, BEA did review and validate the data relative to the QA/QC protocols employed by the laboratory (Test America) and ran trip blanks and duplicates as consistent with CAM requirements. Where deficiencies were noted, the resulting directional bias was considered in the interpretation of data. Duplicate analysis generally matched with the original data within the 25% acceptance range. In the comparison of low level 1,4-Dioxane testing between the 8260 SIM/8270 and 522 methods, a minor disparity was noted between the Alpha Analytical and Test America laboratory findings. Of particular note is at the RES-30 (50 Alston) replacement well, wherein Alpha initially reported 1,4-Dioxane concentrations as Non-Detect (<0.15) and Test America subsequently reported concentrations between 0.20 ug/L and 0.23 ug/L. Additionally, the BCHED sampling of RES-34 by the 8260 SIM in December 2012 reported 1,4-Dioxane as Non-Detect at a reporting limit of < 2.5 ug/L. Retesting of this same well by the 522 Method reported a 1,4-Dioxane concentration of 2.9 ug/L. At such low detection limits and analytical sensitivity, such discrepancies have greater significance and the estimated (J) low level reporting of 1,4-Dioxane below the reporting limits is suspect and may represent background conditions attributed to anthropogenic sources such as onsite wastewater discharge as previously noted. Additionally, in the reporting period, estimated concentrations of 1,4-Dioxane was reported in trip blanks which further cautions against the reliance on estimated values below the reporting limits wherein the lower quantitation limit is so close to the ORSG guideline of 0.3 ug/L.

In regards to the Trip Blanks under the EPA Method 524 VOC testing, some low level concentrations of acetone and other compounds were reported at trace concentrations significantly below the applicable standards. Acetone may be used in the cleaning of laboratory equipment. Regardless, the concentrations reported had no significance in the review of the analytical data or in the evaluation of exposure risks. As such, the data is considered to be technically justified and sufficiently representative and usable for the purposes intended herein wherein the chemical specific Method 3 Risk Characterization has been used to qualify individual risks and Significant Risk for the most sensitive ingestion exposure has been conservatively established at 1.5 ug/L.

Evaluation of Critical Exposure Pathways and Risk Characterization

The following section is based on developing data and is not intended, nor represented to be a comprehensive evaluation of all potential exposure risk to human and environmental receptors as is especially evident due to anticipated revisions in the governing regulations and pending response from the Department and/or access to public records to establish any additional COCs that may need to be further investigated. Notwithstanding, the available analytical data for

the residential private wells is prioritized and evaluated herein as the only source of drinking water in the Town of Eastham, wherein ingestion of 1,4-Dioxane in drinking water at the Site appears to drive the vast majority of the potential exposure risks.

As such, the available private well data was reviewed relative to all reported concentrations of VOC's as a Critical Exposure Pathway. In accordance with the MCP, exposure risks may be evaluated under the Method 1, Method 2 or Method 3 Risk Characterization techniques. Wherein risk characterization is based on the extrapolation of toxic effects of certain chemicals from animal studies, risk is typically represented as a statistical probability of "Significant Risk" (1:100,000).

The Method 1 approach is the most conservative and may be considered as making "worst case" assumptions. Method 2 allows for inclusion of site-specific information relative to exposure considerations using the Method 1 published standards. Method 3 uses toxicological data and site-specific exposures to calculate the specific cancer and non-cancer risks for chronic and sub chronic exposures for the contaminants of concern, inclusive of all detectable compounds. The MA DEP Office of Research and Standards (ORS) have developed Method 3 ShortForms for this approach. In addition, BEA has engaged Peter W. Woodman, PhD of Risk Management Inc. (RMI) in Acton, MA, on behalf of the Town of Eastham, as an expert to review analytical data under Method 3 for the evaluation of Imminent Hazard and Significant Risk under the current provisions of the MCP.

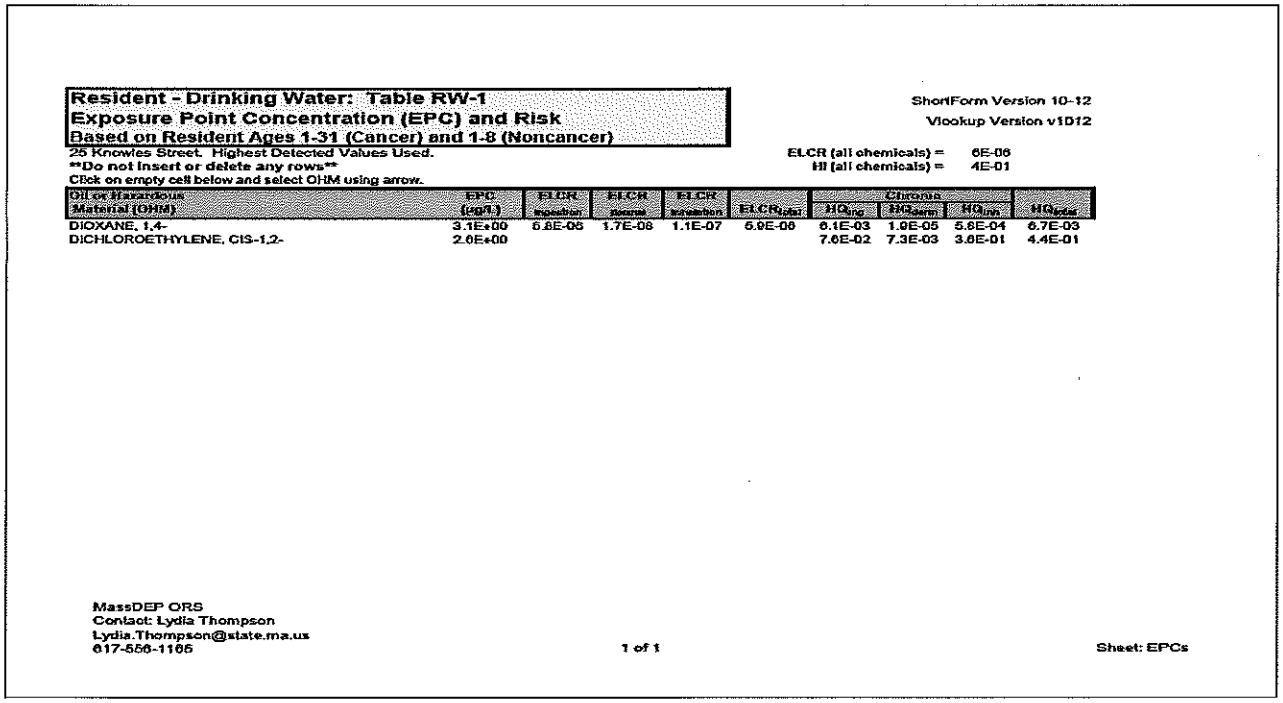
The numerical values listed under Method 1 are useful in determining if there is a basis of "Significant Risk" for additional investigation. Evaluation of the available analytical data from private wells downgradient of the Eastham Landfill indicates that concentrations of 1,4-Dioxane currently exceed the GW-1, Method 1 – Risk Characterization standards in four (4) residential wells including RES-30 (325 Schoolhouse), RES-31 (30 Knowles), RES-35 (50 Alston Ave) and RES-36 (25 Knowles) with concentrations ranging from 2.9 to 10 ug/L. Under the current GW-1, Method 1 – Risk Characterization concentration of 3.0 ug/L, Significant Risk associated with 1,4-Dioxane concentrations in these wells is categorically indicated by this data. The draft revisions to the MCP recently published and currently under the public comment period set the proposed GW-1, Method 1 - Risk Characterization Standard for 1,4-Dioxane at 0.3 ug/L. Under the proposed revised GW-1 standard (0.3 ug/L), there are a total of sixteen 16 private wells where this proposed standard would be exceeded as would indicate a Significant Risk under Method 1 – Risk Caharacterization. In no case did 1,4-Dioxane concentrations exceed the Method 1, GW-2 or GW-3 standards as indicators of potential vapor entry to occupied residential dwellings or significant impacts to environmental receptors. Additionally, in no case did reported concentrations for other VOC's exceed the most stringent GW-1, Method 1 – Risk Characterization Standards.

For further evaluation and qualification of Significant Risk and Imminent Hazard associated with 1,4-Dioxane, Method 3 – Risk Characterization was conducted by RMI utilizing the most recent version of the MA DEP ShortForms (Version 10-12) as having been updated to include the most recent toxicological data for 1,4-Dioxane under the proposed revisions to the MCP [Refer to Appendix F]. Analytical data, with the highest concentrations of 1,4-Dioxane (inclusive of other VOC's) were forwarded to RMI for the most recent testing of RES-30 (325

Schoolhouse) (10 ug/L), RES-31 (30 Knowles) (6.4 ug/L), and RES-36 (25 Knowles) (2.9 ug/L). Lower level concentrations of 1,4-Dioxane in the replacement well at RES-35 (50 Alston Ave) (0.23 ug/L), 255 Alston Ave (1.9 ug/L) and 45 Starlight (1.1 ug/L) were additionally evaluated to further qualify the action level for the provision of bottled water which had been set at 1.5 ug/L. In this reporting period, RMI was provided the most recent analytical data for RES-32 (45 Knowles) and RES-36 (11 Eldia).

RMI's use of the MA DEP ShortForms, inclusive of all reported VOC's, showed that there was no Imminent Hazard threshold exceeded at any of the residences and that "Significant Risk" is indicated for long-term ingestion exposures for the untreated water at the RES-30 (325 Schoolhouse), RES-31 (30 Knowles) and RES-34 (11 Eldia) locations. All these locations are being provided bottled water to mitigate against any Significant Risk and a point-of-entry system is being provided, operated and maintained at 325 Schoolhouse Road even though the occupants have since vacated the premises.

The ShortForms values for other inhalation and dermal contact exposures are significantly less than the cancer (ELCR 1 x 10^{-5}) and non-cancer risk (HI 1.0) thresholds for Significant Risk based on chronic exposures. It is the Method 3 - Risk Characterization results that have been used to frame the 1.5 ug/L Bottled Water Action Level. Method 3 Residential ShortForms using a 1,4-Dioxane concentration of 3.1 ug/L at RES-36 (25 Knowles) did not exceed the ELCR and HI values for Significant Risk. As such, the technical basis and rationale for the provision of bottled water at resident locations wherein 1,4-Dioxane exceeds 1.5 ug/L is substantiated as an interim mitigating measure against "Significant Risk" associated with the ingestion of groundwater impacted with 1,4-Dioxane. The Method 3 ShortForm for RES-36 (25 Knowles), RES-36 (11 Eldia), and RES-32 (45 Knowles) are presented below.



Resident - Drinking Water: Table RW-1
Exposure Point Concentration (EPC) and Risk
Based on Resident Ages 1-31 (Cancer) and 1-8 (Noncancer)

ShortForm Version 10-12
Vlookup Version v1D12

25 Knowles Street. Highest Detected Values Used.
Do not insert or delete any rows
CBck on empty cell below and select OHM using arrow.

ELCR (all chemicals) = 6E-06
HI (all chemicals) = 4E-01

Oil or Hazardous Material (OHM)	EPC (ug/L)	ELCR ingestion	ELCR dermal	ELCR inhalation	ELCR$_{total}$	Chronic HQ$_{ing}$	Chronic HQ$_{derm}$	Chronic HQ$_{inh}$	Chronic HQ$_{total}$
DIOXANE, 1,4-	3.1E+00	5.8E-06	1.7E-08	1.1E-07	5.9E-06	6.1E-03	1.0E-05	5.6E-04	6.7E-03
DICHLOROETHYLENE, CIS-1,2-	2.0E+00					7.0E-02	7.3E-03	3.0E-01	4.4E-01

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Sheet: EPCs

Resident - Drinking Water: Table RW-1
Exposure Point Concentration (EPC) and Risk
Based on Resident Ages 1-31 (Cancer) and 1-8 (Noncancer)

ShortForm Version 10-12
Vlookup Version v1012

11 Elidia. Includes Highest Detected & J Estimated Values
Do not insert or delete any rows
Click on empty cell below and select OHM using arrow.

ELCR (all chemicals) = 2E-05
HI (all chemicals) = 2E-01

Oil or Hazardous Material (OHM)	EPC (ug/L)	ELCR ingestion	ELCR dermal	ELCR inhalation	$ELCR_{total}$	Chronic HQ_{ing}	Chronic HQ_{derm}	Chronic HQ_{inh}	HQ_{total}
DICHLOROETHANE, 1,1-	2.0E-01					5.9E-05	5.6E-05	2.1E-04	2.7E-04
BENZENE	2.0E-01	2.1E-07	2.7E-08	5.2E-07	7.6E-07	2.9E-03	4.1E-04	1.8E-02	2.1E-02
DICHLOROETHYLENE, CIS-1,2-	8.9E-01					2.6E-02	2.5E-03	1.2E-01	1.5E-01
VINYL CHLORIDE	2.3E-01	6.0E-06	4.3E-07	7.5E-07	7.2E-06	4.5E-03	2.2E-04	2.3E-03	7.0E-03
DIOXANE, 1,4-	4.3E+00	8.0E-06	2.4E-08	1.5E-07	8.2E-06	8.4E-03	2.6E-05	8.1E-04	9.3E-03
METHYL TERT BUTYL ETHER	1.2E+00					7.1E-04	1.7E-05	2.7E-04	1.0E-03

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Sheet: EPCs

Resident - Drinking Water: Table RW-1
Exposure Point Concentration (EPC) and Risk
Based on Resident Ages 1-31 (Cancer) and 1-8 (Noncancer)

ShortForm Version 10-12
Vlookup Version v1012

45 Knowles. Includes Highest Detected & J Estimated Values
Do not insert or delete any rows
Click on empty cell below and select OHM using arrow.

ELCR (all chemicals) = 1E-05
HI (all chemicals) = 2E-01

Oil or Hazardous Material (OHM)	EPC (ug/L)	ELCR ingestion	ELCR dermal	ELCR inhalation	$ELCR_{total}$	Chronic HQ_{ing}	Chronic HQ_{derm}	Chronic HQ_{inh}	HQ_{total}
DICHLOROETHANE, 1,1-	2.3E-01					6.8E-05	6.4E-05	2.4E-04	3.1E-04
BENZENE	2.3E-01	2.4E-07	3.1E-08	6.0E-07	8.7E-07	3.4E-03	4.7E-04	2.1E-02	2.5E-02
DICHLOROETHYLENE, CIS-1,2-	1.0E+00					2.9E-02	2.8E-03	1.4E-01	1.7E-01
VINYL CHLORIDE	1.9E-01	5.0E-06	3.6E-07	6.2E-07	5.9E-06	3.7E-03	1.9E-04	1.9E-03	5.8E-03
DIOXANE, 1,4-	2.4E+00	4.5E-06	1.3E-08	8.3E-08	4.6E-06	4.7E-03	1.5E-05	4.5E-04	5.2E-03
METHYL TERT BUTYL ETHER	4.5E-01					2.6E-04	6.5E-06	1.0E-04	3.7E-04

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Sheet: EPCs

NOTE: EPC = Exposure Point Concentration (Average of Reported Values), ECLR = Excess Lifetime Cancer Risk, Value greater than 1:100,000 represent Significant Risk, HI = Hazard Index, Value greater than 1.0 represents Significant Risk

The tabulated VOC results inclusive of low level 1,4-Dioxane, as presented against the MCP Method 1 – Risk Characterization and MA Drinking Water standards, are included as attached to the analytical results in Appendix E and show no Imminent Hazard and that concentrations greater than 3ug/L are affectively mitigated by bottled water. The Method 3 ShortForms prepared and reviewed by RMI are presented in Appendix F.

Temporary Mitigating Measures [Refer to Appendix D]

As noted above, the 1.5 ug/L Bottled Water Action Level has been developed through application of Method 3 under the MA DEP Residential ShortForms wherein potentially significant ingestion exposures are identified by 1,4-Dioxane concentrations greater than 3.0 ug/L dependent on accessory compounds present as is the current GW-1, Method 1 – Risk Characterization. As a conservative measure, bottled water is being provided to all residents with private wells reporting a 1,4-Dioxane concentration a value of 1.5 ug/L as 50% of the current Method 1 and computed Method 3 drinking water standard to mitigate against ingestion exposures as a temporary mitigating measure.

Notwithstanding, any exposure to 1,4-Dioxane above background concentrations is a Critical Exposure Pathway and represents an increased exposure to residents. As such, additional mitigating measures have been undertaken as a precaution against uncertainties in future testing and regulatory environment at those residences with the highest 1,4-Dioxane concentrations. At the time of this reporting, the replacement well installed and tested at RES-35 (50 Alston Ave) has been successful in reducing 1,4-Dioxane in drinking water at concentrations of 5.0 -5.1 ug/L to concentrations to between 0.18J – 2.3 ug/L. Furthermore, the point-of-entry coconut-shell based granular activated carbon treatment system operated, maintained and monitored at the RES-30 (325 Schoolhouse) continues to report reduction of 1,4-Dioxane concentrations from 8.3 – 10.0 ug/L in the raw water to ND (< 0.2 ug/L) at the intermediate and finished water sampling locations following the pumping of only 3,580 gallons of water through the system from February 22 through May 29, 2013. It is noted that the dwelling at 325 Schoolhouse Road is currently vacant and that 3,580 gallons only represents approximately a 15-12 days of anticipated domestic water flow during occupancy that has been tracked since 2005. To compensate for actual domestic water use and simulate carbon contact time under dwelling occupancy, some 500-700 gallons of water were purged prior to sampling the under maximum flow rate established by the submersible pump. At this time, with nominal water use, the longevity of treatment has not yet been established requiring further investigation. In future monthly sampling of the GAC system, some 2000-3000 gallons of water will be purged to simulate occupancy and qualify the longevity of 1,4-Dioxane treatment.

Over the reporting period, monthly testing has been conducted as supporting increased viability of replacement wells and point-of-entry water treatment systems. With the prospect of municipal water defeated again at the June 22, 2013 Special Town Meeting, these options need to be revised as could support a Temporary Solution to providing safe drinking water to these residents.

Nature and Extent of Groundwater Impacts [Refer to Site Plan – Appendix A]

No reported VOC concentrations other than 1,4-Dioxane has exceeded the Method 1 - Risk Characterization standards as part of this IRA, and as documented in the landfill monitoring dating back to 2008, as substantiated by a preponderance of physical data. As such, the nature and extent of groundwater impacts is limited herein to the evaluation of 1,4-Dioxane under the revised LMP and current IRA. The compound 1,4-Dioxane is highly soluble and tends to travel at a higher velocity and greater lateral and horizontal extent relative to other types of dissolved phase compounds (BTEX/CVOC's). It is denser than water and tends to travel to greater depths within the aquifer away from the source and is also persistent with little attenuation or natural breakdown.

Board of Health records for all private wells in the Study Areas is reviewed to determine estimated elevation of the well production horizons to evaluate the occurrence of 1,4-Dioxane in the aquifer downgradient of the landfill. While these records are incomplete, where available, Well Completion Reports are used to estimate the production horizon of such wells. Regional groundwater contours show that the elevation of groundwater in the Study Area is approximately 14' NGVD [Refer to Figure 2 – Appendix A]. As such, the static water level in each well was used as the common benchmark elevation for such estimates [(depth to water + EL 14) – total depth of well = production horizon]. Based on the limited analytical data and private well completion records and homeowner information, it is apparent that closest to the Eastham Landfill property, 1,4-Dioxane tends to be in the shallow aquifer (EL 0 to -60) and travels in a direction consistent with the southeasterly groundwater flow. Further east, the groundwater impact appears to travel to greater depths in a more easterly direction. The cause of the change in flow direction relative to computed groundwater flow in the upper unconfined aquifer is attributed to significant clay strata reported in boring logs for monitoring and private well installations and as based on local driller knowledge.

In the vicinity of Schoolhouse Road at the intersections of Alston Avenue and Knowles Street, a cluster of elevated concentrations of 1,4-Dioxane is reported in deep private wells and monitoring wells MW-21S/D. These wells are typically 150-200' in depth and set in production horizons below EL -100. As such, it was conceptualized that any shallow well east of Molls Pond that is less than 100' deep [> EL -50] will not be significantly impacted by 1,4-Dioxane. This concept is further supported by the additional testing conducted east of Schoolhouse Road wherein none of the private wells on the 56 properties tested reported a 1,4-Dioxane concentration above the reporting limit of 0.2 ug/L. It appears that 1,4-Dioxane impacts groundwater east of Schoolhouse Road at depths more than 100' below sea level as approaching the saltwater interface. From a practical standpoint, drinking water at this depth becomes isolated and that the existing Board of Health Well Regulation that limits well depths to less than 100' is effective in mitigating new exposures. It is recommended that the Eastham Well Regulations be considered to include low level Dioxane testing, which is not an analyte on the standard drinking water VOC testing under the 524 Method.

The following section of this report specifies those proposed IRA activities recommended over the next 90 day reporting period. Within this filing is a specific written request to extend the

next interim deadline for IRA Status Report submittal to September 30, 2013 to allow for a full 90 days to complete such work as including the 3rd quarter LMP requirements.

PROPOSED IMMEDIATE RESPONSE ACTIONS

Temporary Mitigating Measures

Bottled water must continue to be provided to all residents where the concentration of 1,4-Dioxane is reported above 1.5 ug/L, as an interim measure for the protection of occupants against potential ingestion exposure risks as has been identified by Method 3 – Risk Characterization. Although the Method 3 Bottled Water Action Level is justified under the current regulations, pending changes to the governing regulations proposed to lower the GW-1 standard to 0.3 ug/L are set to be ratification before the end of the year. Any such changes in the regulations will require additional consideration of bottled water use for all private wells with 1,4-Dioxane concentrations at or greater than 0.3 ug/L. Additionally, wherein 1,4-Dioxane has been documented as greater than 3.0 ug/L in monthly sampling for more than 3 months, it is recommended that replacement wells be considered with or without GAC treatment.

A review of remedial efforts at other 1,4-Dioxane Sites indicates that treatment of groundwater to drinking water standards is a costly and lengthy process and may, in fact, be technically infeasible under the current technology. As such, a pilot study for treatment of impacted groundwater at the MW-3D location under the IRA is being considered with a withdrawal rate of 10-20 gpm using coconut shell-based GAC with the discharge of treated groundwater upgradient to the landfill cap for irrigation in accordance with the provisions of 310 CMR 40.0045.

Private Well/Small Commercial PWS Sampling

The testing of private and commercial wells within the expanded Study Area, along with the remaining available monitoring wells as previously identified, is prioritized in the next reporting period to identify and mitigate any significant exposure risks for the implementation of temporary mitigating measures to control or eliminate CEP's. Letters requesting authorization for sampling will be mailed in the first week of July for testing to take place the weeks of July 22nd and July 29th. These private and commercial wells will be tested for regulated VOCs inclusive of low level 1,4-Dioxane, by Methods 524/522.

Additional work for the verification of depths and production horizons in the remaining private wells with 1,4-Dioxane concentrations greater than 0.3 ug/L will continue over the next reporting period (5 Starlight, 35 Sharon, 255 Alston, 275 Alston, 285 Alston, 45 Knowles, 180 Old Orchard) to further define groundwater impacts in the shallow aquifer closest to the Landfill. Such investigation will be supplemented by groundwater profiling and the construction of a multilevel monitoring well adjacent to MW-8 at the intersection of Meetinghouse Road, Alston Avenue and Old Orchard Road as a key location common to both shallow and deep groundwater impacts southeast of the capped landfill, and within the projected solute pathway for offsite migration of impacted groundwater.

Concurrent with this work, the point-of-entry GAC treatment system at 325 Schoolhouse will be operated, maintained and monitored on a monthly basis. The replacement well at 50 Alston will be tested on a monthly basis, as will all private wells with a 1,4-Dioxane concentration of 3.0 ug/L or greater (30 Knowles, 11 Eldia). Additionally, wells reporting 1,4-Dioxane at concentrations greater than 1.5 ug/L will be tested on a quarterly basis.

CONCLUSIONS AND RECOMMENDATIONS

Thus far under the IRA, private wells for a total of 169 properties representing 171 residences have been sampled and evaluated for regulated volatile organic compounds (VOC's) and low level 1,4-Dioxane. Under the Landfill Monitoring Plan (LMP), select residences (RES) are also being tested for metals and indicator compounds. In this residential testing over six (6) months, no private well has reported any regulated VOC compounds or metals concentration as exceeding the Drinking Water Standards (MMCL). Five (5) private wells, representing six (6) residents, have reported 1,4-Dioxane above the current GW-1, Method 1 – Risk Characterization Standard (3.0 ug/L). A total of sixteen (16) private wells, as representing eighteen (18) residences, have reported 1,4-Dioxane above the current MA Drinking Water Guideline and proposed revision to the GW-1, Method 1 Risk Characterization Standard (0.3 ug/L). Under Method 3 – Risk Characterization, chemical specific ingestion exposures for Imminent Hazard and Significant Risk for cancer and non-cancer exposures has been evaluated as the basis of the 1.5 ug/L Bottled Water Action Level to mitigate potential Significant Risk. At present, ten (10) residences, as representing eight (8) properties, are being provided with bottled water.

In the absence of municipal water, replacement wells and the use of point-of-entry treatment systems are now considered interim mitigating measures toward a Temporary Solution pending review and implementation of a remedial treatment strategy as would be reviewed under a pump and treat pilot study using MW-3D as an intercept well. Such consideration for replacement wells and/or household point-of-entry systems, and the piloting of a pump and treat remedial system, are specifically subject to MA DEP written approval pending this submittal.

The findings of this investigation, as represented herein, set forth the rationale and technical justifications for the LSP opinions offered, as established by the certifications made on the attached Transmittal Forms. The LSP opinions are based on the available data and regulations in effect at the time of this reporting and based on reliance upon experts. Should you have any questions regarding the project or require additional information, please contact me at your earliest convenience.

Sincerely,
BENNETT ENVIRONMENTAL ASSOCIATES, INC.

David C. Bennett, LSP
President

John D. Tadema-Wielandt, ES
Senior Project Manager

Encl. Supporting Documentation [Appendices A-G]

Cc: Sheila Vanderhoef - Eastham Town Administrator (full hard and electronic copy)
Jane Crowley, Health Agent – Eastham Health Department*
Chief Glenn Olson – Eastham Fire Department*
Steve and Lisa Colley, Property Owners*
Chris and Deanna Ross, Property Owners*
Jeff Carlson, Property Owner*
John Cunningham, Property Owner*
Peter and Mary Martinelli, Property Owners*
Paul and Nancy Underhill, Property Owners*
Donna Holway, Property Owner*

* Narrative, Title Page and Site Plan provided under public notice distribution requirements pursuant to paperwork reduction policy. Legal Notice being published as consistent with the provisions of 310 CMR 401406 to notify all parties within the Disposal Site. Full copies of reports (electronic or paper) provided on written request.

IMMEDIATE RESPONSE ACTION STATUS REPORT II
And QUARTERLY LANDFILL MONITORING
With SUPPORTING DOCUMENTATION
MA DEP RTN 4-24301

Town of Eastham Landfill
255 Old Orchard Road
Eastham, MA
BEA09-10104

JUNE 24, 2013

Prepared By:
BENNETT ENVIRONMENTAL ASSOCIATES, INC.
1573 Main Street - P.O. Box 1743
Brewster, MA 02631
David C. Bennett, LSP.

Prepared For:
Massachusetts Department of Environmental Protection
Southeast Regional Offices, Bureau of Waste Site Cleanup (BWSC)
20 Riverside Drive - Lakeville, MA. 02347
Millie Garcia-Serrano, Deputy Regional Director BWSC

On Behalf Of:
The Town of Eastham
Sheila Vanderhoef, Town Administrator
2500 State Highway – Eastham, MA 02642

VOLUME 1 OF 2

APPENDIX A: Reference Plans

-Figure 1: Site Locus Plan [USGS Topographic Quad., Eastham, MA. 1998] (excerpt)
-Figure 2: Ground-Water Resources of Cape Cod, MA [LeBlanc et al, 1986] (excerpt)
-Figure 3: MA DEP GIS Map Water Supply Protection Overlay [2013]
-Site Plan entitled "… Landfill Monitoring Plan/Immediate Response Action Status Report II ..." Prepared by BENNETT ENVIRONMENTAL ASSOCIATES, INC., dated June 17, 2013.

APPENDIX B: Field Reports

-Inspectors Daily Record of Work Progress [#40 (4/26/13) to #49 (5/31/13)]
-Monitoring Well Sample Log [Landfill Monitoring Wells (5/8/13)]
-Private Well Sample Logs [4/26/13, 5/6/13, 5/7/13, 5/8/13, 5/9/13, 5/10/13, 5/16/13, 5/29/13]
-US EPA Eastham, MA Residential Well Sampling Field Data Summary (4/29/13-5/3/13)
-BCDHE Soil Gas Sampling Results for Eastham Landfill (5/15/13)

APPENDIX C: Environmental Records

-BWSC-126: IRAS Submittal Public Notice (4/10/13) Proof of Publication (4/5/13)
-Public Notice for IRASII
-Request for Residential Private Well Testing and Certified Mailings for Round 2 (4/11/13)
-Request for Residential Private Well Testing and Mailing List for Round 3 (6/24/13)
-MA DEP/EPA literature, letters sent to residents with analytical results under BWSC-123 Forms
-BWSC-105: Immediate Response Action Transmittal Form w/ RMR and eDEP Submittal Summary, Receipt
-Stone Environmental Proposal for Vertical Groundwater Profiling (6/3/2013)

IMMEDIATE RESPONSE ACTION STATUS REPORT II
And QUARTERLY LANDFILL MONITORING
With SUPPORTING DOCUMENTATION
MA DEP RTN 4-24301

Town of Eastham Landfill
255 Old Orchard Road
Eastham, MA
BEA09-10104

JUNE 24, 2013

Prepared By:
BENNETT ENVIRONMENTAL ASSOCIATES, INC.
1573 Main Street - P.O. Box 1743
Brewster, MA 02631
David C. Bennett, LSP.

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APPENDIX D: Laboratory Analysis with Tabulated Summary

-Residential Well Designation Key
-MA DEP Request for US EPA Investigatory Services
-Residential Well Testing 4/26/13 [Test America Lab ID: 480-37259-1 (5/8/13)]
-RES-36 VOC and 1,4-Dioxane (Duplicate), 4/26/13 [Test America Lab ID: 480-37259-2 (5/15/13)]
-Residential Well Testing 4/29/13 [Test America Lab ID: 480-37261-1 (5/9/13)]
-11 Eldia, 30 Knowles and 325 Schoolhouse (Duplicates), 4/29/13 [Test America Lab ID: 480-37261-2 (5/15/13)]
-Residential Well Testing 4/30/13 [Test America Lab ID: 480-37444-1 (5/9/13)]
-Residential Well Testing 5/1/13 [Test America Lab ID: 480-37443-1 (5/9/13)]
-RES-32 (45 Knowles) 1,4-Dioxane (Duplicate), 5/1/13 [Test America Lab ID: 480-37443-2 (5/15/13)]
-Residential Well Testing 5/2/13 [Test America Lab ID: 480-37649-1 (5/14/13)]
-Residential Well Testing 5/3/13 [Test America Lab ID: 480-37650-1 (5/14/13)]
-Residential Well Testing 5/6/13 [Test America Lab ID: 480-37809-1 (5/14/13)]
-RES-32 (255 Schoolhouse) 1,4-Dioxane (Duplicate), 5/6/13 [Test America Lab ID: 480-37809-2 (5/21/13)]
-Residential Well Testing 5/7/13 [Test America Lab ID: 480-37941-1 (5/17/13)]
-Residential Well Testing 5/8/13 [Test America Lab ID: 480-38025-1 (5/16/13)]
-RES-8 (100 Meetinghouse) 1,4-Dioxane (Duplicate), 5/8/13 [Test America Lab ID: 480-38025-2 (5/24/13)]
-Landfill MWs Arsenic, Inorganics, Metals testing 5/8/13 [BCDHE Lab ID: G1373514 (6/4/13)]
-Residential Well Testing 5/9/13 [Test America Lab ID: 480-38132-1 (5/17/13)]
-Residential Well Testing 5/10/13 [Test America Lab ID: 480-38213-1 (5/20/13)]
-Residential Well Testing 5/16/13 [Test America Lab ID: 480-38608-1 (5/24/13)]
-275 Alston VOC and 1,4-Dioxane (Duplicate), 5/16/13 [Test America Lab ID: 480-38608-2 (6/6/13)]
-Monthly Residential Well Testing 5/29/13 [Test America Lab ID: 480-39233-1 (6/7/13)]
-11 Eldia Standard DW Analysis 5/31/13 [Envirotech Laboratories Lab Order Number: DW-131293 (6/5/13)]
-Monthly Residential Well Testing 5/29/13 (Duplicates) [Test America Lab ID: 480-39233-2 (6/14/13)]

APPENDIX E: Risk Characterization – Method 3 Residential ShortForms (Version10-12)

-11 Eldia: Table 1, 2 and 3 Analytical Summary with RWIH-1 and RW-1 Residential ShortForms (4/29 and 5/29/13)
-45 Knowles: Table 4 Analytical Summary with RWIH-1 and RW-1 Residential ShortForms (5/1/13)
-325 Schoolhouse Road: Table 1 Analytical Summary with RWIH-1 and RW-1 Residential ShortForms (2/22/13)

APPENDIX F: Quality Assurance/Quality Control Plan

-US EPA Sampling and Analyses Plan (SAP)
-US EPA Standard Operating Procedure for Residential Well Sampling
-Health and Safety Plan

APPENDIX A

FIGURE 1: Locus representing area of the capped unlined Eastham Landfill, northwest of the intersection of Old Orchard Road and Meetinghouse Road, in the town of Eastham, MA. The property is represented on Eastham Assessor's Map 8, Parcel 120, and contains 18.74 acres of vacant land. Access to property along Old Orchard Road is restricted by a 6-foot stockade where the MW-3D is located as part of the prescribed Landfill Monitoring Program (8/14/12) where 1,4 Dioxane was identified during 2012 fourth quarter sampling round as basis of MA DEP Notification on November 13, 2012 and ensuing Immediate Response Actions. The current Site, includes residential properties to the east of the Eastham Landfill roughly running south to Route 6, east beyond Schoolhouse Road and north to Whidah and Eldia Lanes. The surrounding properties, as well as the entire Study Area, are primarily moderately to highly develop with seasonal and year-round single and two family residential dwellings. Included in the Study Area is the Eastham Elementary School. It is estimated that there are more than 150 residences in the current Study Area, all of which are served by private wells as no municipal public water supply is available in the Town of Eastham.

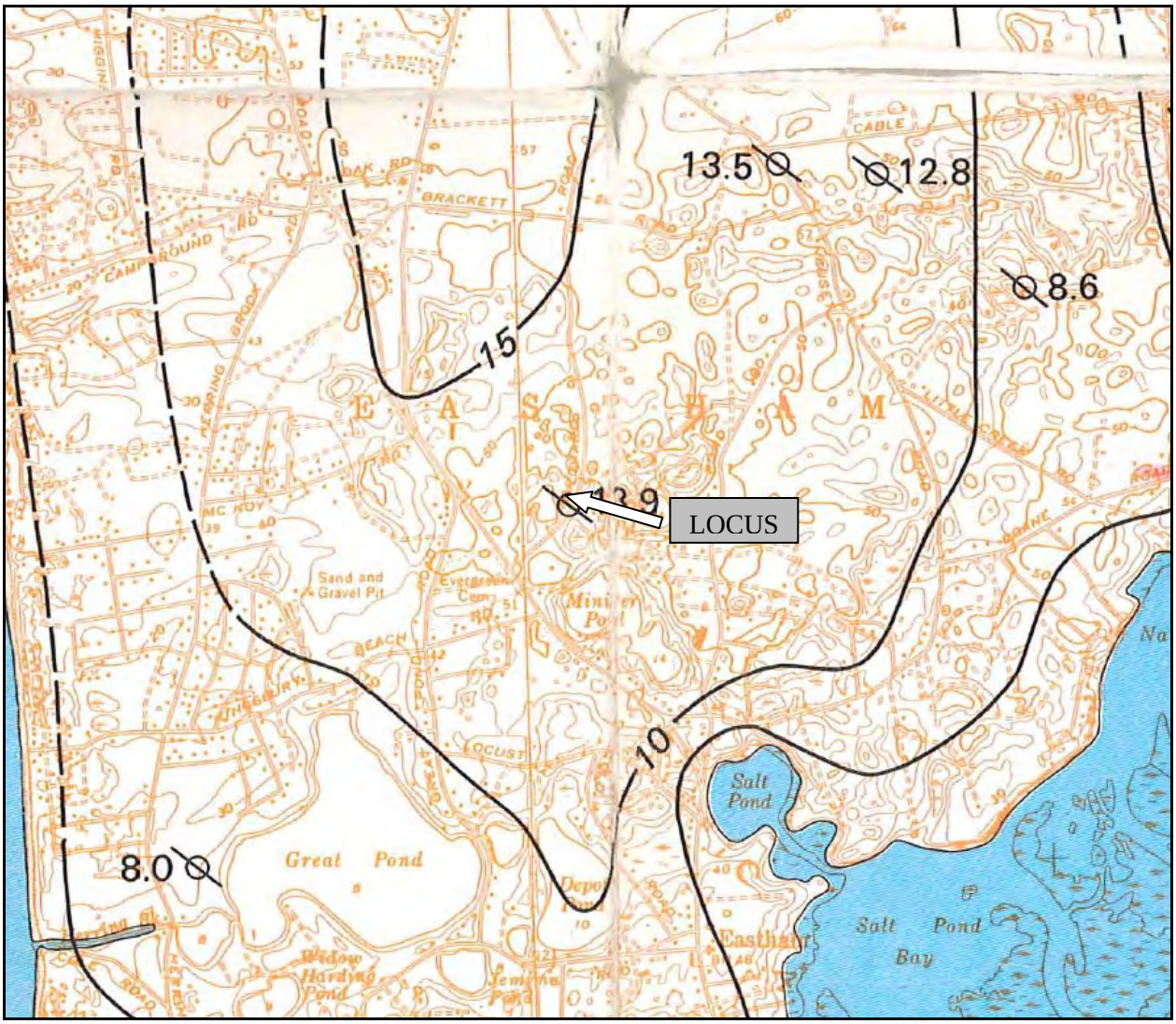


FIGURE 2: Location of capped unlined Eastham Landfill shown relative to regional groundwater contours indicates groundwater exists at 15' NGVD (+/-) as projected within 20-50' of ground surface over the Study Area. Regional groundwater contours indicate a southeast flow direction towards Salt Pond and the Salt Pond Bay estuary beyond, with Molls Pond and Ministers Pond in between. Gauging of monitoring well MW-3D reported local groundwater at approximately 22' bgs. Local groundwater flow has been qualified to the southeast. As such, Molls Pond and Ministers Pond are identified as the primary potential environmental receptors, as the closest zero-head boundaries and residents with private wells on down gradient properties as the primary human receptors in the absence of town water.

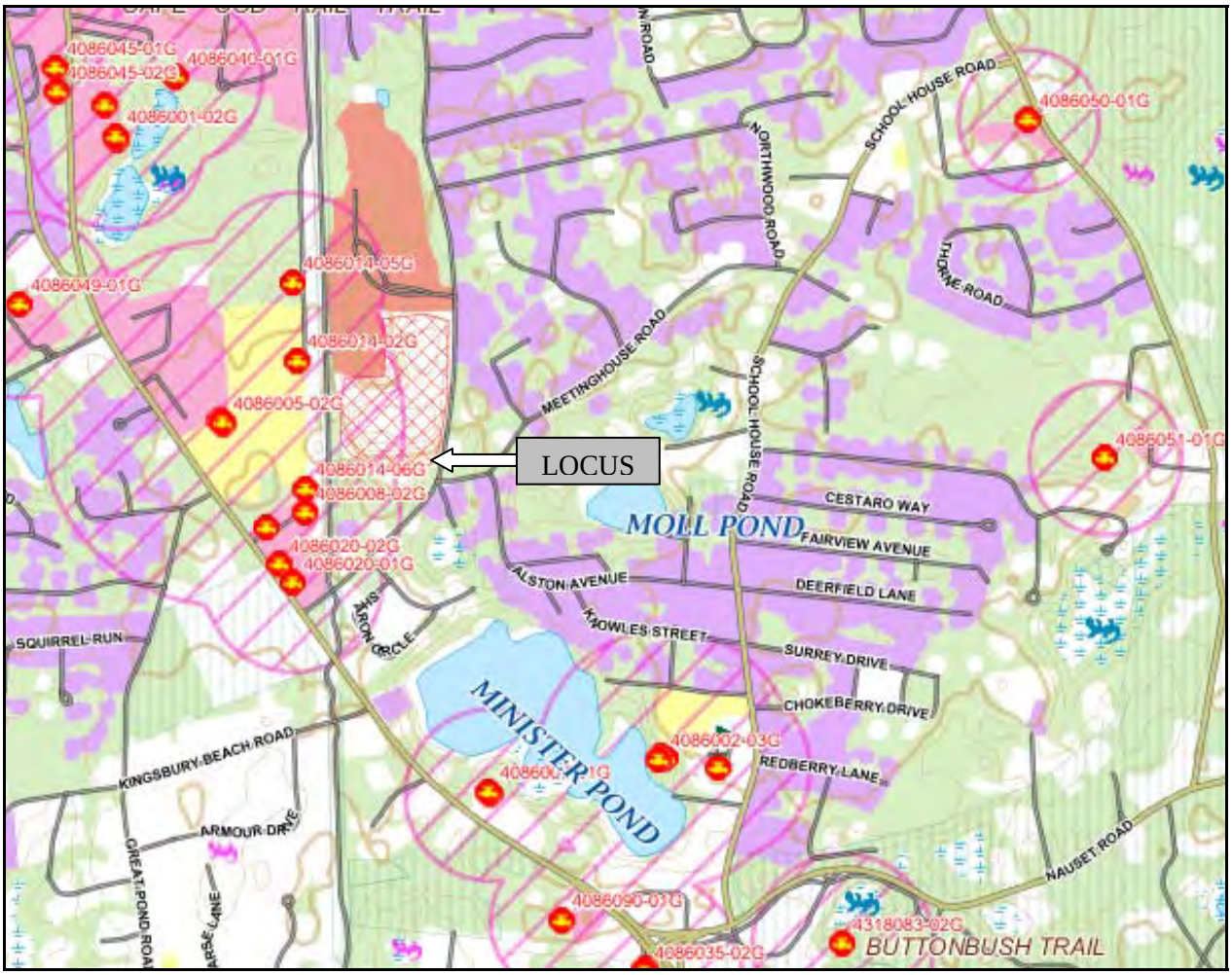
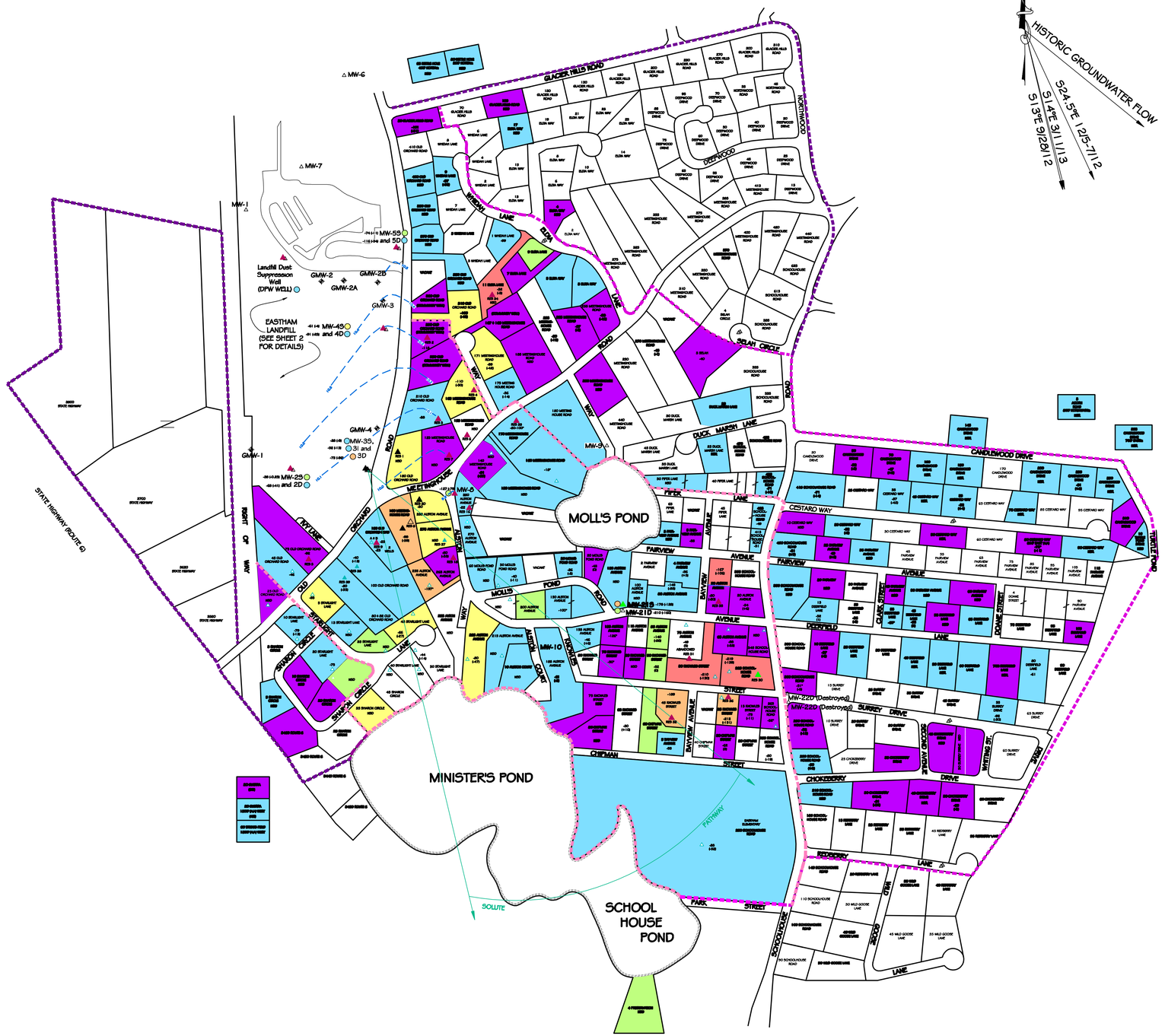


FIGURE 3: Based on the Mass GIS, MA DEP Water Supply Protection overlay, several Interim Wellhead Protection Areas (IWPA) for commercial establishments along Route 6 fall onto the Eastham Landfill property (red hatched). Additionally, in the downgradient Study Area additional IWPA areas are located as well as numerous private wells (purple). As such, the unlined capped landfill falls within a defined Drinking Water Source Area. The groundwater that migrates from under the Eastham Landfill is the source of potable water as no municipal public water supply exists in the Study Area, as currently the Site, as the subject of the Immediate Response Action. The ingestion of 1,4 Dioxane in groundater is the primary exposure route as driving the evaluation of exposure under the GW-1, Method 1 – Risk Characterizations standards and Method 3 approaches under the MCP. No Drinking Water Standard (MMCL) has been established but the MA Office of Research and Standards has a Drinking Water Guideline of 0.3 ug/L.

REFERENCE
- PLAN TITLED "MONITORING PLAN FOR EASTHAM RECYCLE CENTER", PREPARED BY A T P ENVIRONMENTAL, DATED SEPTEMBER 2003
- PLAN TITLED "EASTHAM LANDFILL GROUND MOUNTED FACILITY PROPOSED DEVELOPMENT PLAN", PREPARED BY AMERICAN CAPITAL ENERGY, DATED SEPTEMBER 2011

NOTE:
THE GROUNDWATER CONTOURS SHOWN HEREON WERE TRACED FROM A PLAN BY THE CAPE COD COMMISSION OF THE WELLFLEET HARBOR WATERSHED, DATED 1992.



JANUARY TO MAY 2013 SAMPLING

- 1,4 DIOXANE NON-DETECT <0.3 ug/L OSRG
- 1,4 DIOXANE DETECTED AS ESTIMATED BELOW REPORTING LIMIT <0.2 ug/L
- 1,4 DIOXANE 0.2-0.3 ug/L
- **1,4 DIOXANE 0.3-1.5 ug/L**
- **1,4 DIOXANE 1.5-3.0 ug/L BOTTLED WATER ACTION LEVEL**
- 1,4 DIOXANE >3.0 ug/L METHOD 1 GW-1 STANDARD (MCP)
- MONITORING WELL 1,4 DIOXANE <0.3 ug/L OSRG
- MONITORING WELL 1,4 DIOXANE 0.3-1.5 ug/L
- MONITORING WELL 1,4 DIOXANE 1.5-3.0 ug/L
- MONITORING WELL 1,4 DIOXANE >3.0 ug/L METHOD 1 GW-1 STANDARD (MCP)

LEGEND

- ANNUAL SAMPLING POINTS PER REVISED LANDFILL MONITORING PLAN
- SEMI-ANNUAL SAMPLING POINTS PER REVISED LANDFILL MONITORING PLAN
- QUARTERLY SAMPLING POINTS PER REVISED LANDFILL MONITORING PLAN
- GAS MONITORING WELL
- PROPOSED MULTI-LEVEL MONITORING WELL
- **APPROXIMATE LOCATION OF EXISTING MONITORING WELL**
- EXISTING PRIVATE POTABLE WELLS
- PRIVATE POTABLE WELLS SAMPLED FOR A ONE TIME EVENT AS WITHIN 500' OF MW-3D
- -44 WELL DEPTH
- -44* WELL DEPTH AS REPORTED BY PROPERTY OWNER
- (-14) ELEVATION OF PRODUCTION HORIZON OF WELL
- NSD NO SPECIFICATION DATA FOR WELL
- DEEP WELL GROUNDWATER CONTOUR 3/11/13
- STUDY AREA

- PHASE I IRAP
- PHASE II IRAS
- PHASE III IRAS II

SITE PLAN

0 250 500 750
SCALE 1"=250'

RTN 4-24301

Project:
TOWN OF EASTHAM
2500 STATE HIGHWAY, EASTHAM, MA 02642

Title:
ENVIRONMENTAL MONITORING
LANDFILL MONITORING PLAN
IMMEDIATE RESPONSE ACTION STATUS II
EASTHAM LANDFILL - OLD ORCHARD ROAD, EASTHAM, MA

BEA BENNETT ENVIRONMENTAL ASSOCIATES, INC.
LICENSED SITE PROFESSIONALS, ENVIRONMENTAL SCIENTISTS, GEOLOGISTS, ENGINEERS
1573 MAIN STREET, P.O. BOX 1743, BREWSTER, MA 02631
PHONE: (508) 896-1706 www.bennett-ea.com FAX: (508) 896-5109

DATE	SCALE	BY	CHECK	JOB NUMBER
06/17/13	1" = 150'	SRF	DCB	BEA09-10104

APPENDIX B

BENNETT ENVIRONMENTAL ASSOCIATES, INC.

LICENSED SITE PROFESSIONALS, ENVIRONMENTAL SCIENTISTS, GEOLOGISTS, ENGINEERS

1573 Main Street, P.O. Box 1743
Brewster, MA 02631

(508) 896-1706
fax (508) 896-5109

INSPECTORS DAILY RECORD OF WORK PROGRESS

Date: 4/26/13

REPORT NUMBER: 40

Job Name: Eastham Landfill

Job Number: BEA09-10104

Feature: PW sampling

Contractor: BEA

Type of Work: Residential well sampling

Weather Conditions: Sunny, light wind

Temperature: 59 degrees F

Contractor's Work Force (Indicate classification, including subcontractor personnel)

Bennett Environmental Associates:
JTW (PM)

Equipment in use or idled (Identify which)

YSI, truck

Materials or equipment delivered, quantity or pay items placed

Sample 4 residences for VOCs (524.2) and 1,4-Dioxane (522.1)

Non-conforming materials or work, field problems, inspections of previously reported deficiencies

None

Summary of construction activities

9:00 am	BEA personnel arrive at RES-36 (25 Knowles) to perform sampling of PW in area. Ask resident to turn on faucets. Confirm no treatment system. Resident goes next door to 15 Knowles, opens house and turns on faucet. Fill out labels.
9:15 am	Sample 25 Knowles.
9:25 am	Sample 15 Knowles. Mobilize to 65 Kettle Hole and ask resident to turn on faucet. Check water system has neutralizer.
10:00 am	Collect sample from basement. Mobilize to 255 Meetinghouse. Enter basement, bypass neutralizer and particulate filter and turn on water at 10:20 am.
10:40 am	Collect sample. Pack up equipment. Depart site.

BENNETT ENVIRONMENTAL ASSOCIATES, INC.

LICENSED SITE PROFESSIONALS, ENVIRONMENTAL SCIENTISTS, GEOLOGISTS, ENGINEERS

1573 Main Street, P.O. Box 1743
Brewster, MA 02631

(508) 896-1706
fax (508) 896-5109

INSPECTORS DAILY RECORD OF WORK PROGRESS

Date: 4/29/13

REPORT NUMBER: 41

Job Name: Eastham Landfill

Job Number: BEA09-10104

Feature: PW sampling

Contractor: BEA, EPA

Type of Work: Residential well sampling

Weather Conditions: Sunny

Temperature: 55 degrees F

Contractor's Work Force (Indicate classification, including subcontractor personnel)

Bennett Environmental Associates:
JTW (PM); EPA: Dan, Erin, Jerry, Lisa

Equipment in use or idled (Identify which)

Truck

Materials or equipment delivered, quantity or pay items placed

Sample residences for VOCs (524.2) and 1,4-Dioxane (522.1)

Non-conforming materials or work, field problems, inspections of previously reported deficiencies

None

Summary of construction activities

8:00 am	Meet EPA/DEP/BU/T.O. Eastham at Town Hall.
	20 Guerra Way has high nitrates. Shawn Cunningham is installing new well today, will sample today for VOCs and 1,4-Dioxane.
	Cunningham (25 Knowles) is the first appointment at 9:00 am. Colley testing influent/intermediate/effluent.
8:50 am	Depart Towu Hall to 30 Knowles. Begin purging at 9:05 am (6 gal/min). EPA personnel begin taking field parameters.
9:25 am	Mobilize to 325 Schoolhouse. Enter bulkhead. Take water meter reading. Turn on water at 9:27 am to purge. Take meter reading at sampling of raw water.
10:35 am	Depart 325 Schoolhouse.

BENNETT ENVIRONMENTAL ASSOCIATES, INC.

LICENSED SITE PROFESSIONALS, ENVIRONMENTAL SCIENTISTS, GEOLOGISTS, ENGINEERS

1573 Main Street, P.O. Box 1743
Brewster, MA 02631

(508) 896-1706
fax (508) 896-5109

INSPECTORS DAILY RECORD OF WORK PROGRESS

Date: 5/6/13

REPORT NUMBER: 42

Job Name: Eastham Landfill

Job Number: BEA09-10104

Feature: PW sampling

Contractor: BEA, BCDHE

Type of Work: Residential well sampling

Weather Conditions:

Temperature:

Contractor's Work Force (Indicate classification, including subcontractor personnel)

Bennett Environmental Associates:
JTW (PM); BCDHE: Lee Manillo

Equipment in use or idled (Identify which)

Truck

Materials or equipment delivered, quantity or pay items placed

Sample residences for VOCs (524.2) and 1,4-Dioxane (522.1)

Non-conforming materials or work, field problems, inspections of previously reported deficiencies

None

Summary of construction activities

9:00 am	BEA personnel arrive on site at 25 Old Orchard Road. Meet resident. Enter basement. Observe neutralizer. Hook up hose to water tank and begin purging at 9:15 am.
9:45 am	Collect samples from spigot at pressure tank. Mobilize to 455 Schoolhouse Road. Greet resident. Well has no treatment and was installed approximately 5 years ago by All Cape. Begin purging at 10:05 am.
10:40 am	Collect samples from spigot at front of house. Lee Manillo from BCDHE arrives to assist in sampling. Pack up and mobilize to 50 Cestaro. Greet resident. Check for treatment with none observed. Begin purging at 10:50 am.
11:15 am	Collect samples. Pack up and mobilize to 210 Schoolhouse while Lee mobilizes to 75 Cestaro, 65 Deerfield and 255 Alston. Greet resident and confirm no treatment. Begin purging at 11:38 am.
12:10 pm	Collect samples. Mobilize to 60 Deerfield. Begin purging at 12:15 pm. No one is home to check if any treatment systems exist. Based on the color of the water (brown), however, it appears that there is no treatment from front spigot.
12:40 pm	Collect samples. Pack up equipment and mobilize to 280 Candlewood. Greet resident. Confirm there is no treatment. Begin purging at 1:00 pm.
1:35 pm	Collect samples. Mobilize to 17 Eldia. Greet resident. Enter basement and confirm neutralizer and particulate filter. Begin purging at 1:50 pm.
2:25 pm	Collect samples. Pack up equipment and depart site at 2:40 pm.

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INSPECTORS DAILY RECORD OF WORK PROGRESS

Date: 5/7/13

REPORT NUMBER: 43

Job Name: Eastham Landfill

Job Number: BEA09-10104

Feature: PW sampling

Contractor: BEA

Type of Work: Residential well sampling

Weather Conditions:

Temperature:

Contractor's Work Force (Indicate classification, including subcontractor personnel)

Bennett Environmental Associates:
JTW (PM)

Equipment in use or idled (Identify which)

Truck

Materials or equipment delivered, quantity or pay items placed

Sample residences for VOCs (524.2) and 1,4-Dioxane (522.1)

Non-conforming materials or work, field problems, inspections of previously reported deficiencies

None

Summary of construction activities

8:45 am	Stop by Town Hall and pick up 1,4-Dioxane fact sheet and "What to Expect" form. Mobilize to 390 Old Orchard. Greet resident and confirm no treatment. Turn on spigot and begin purging at 9:00 am from front spigot.
9:30 am	Collect samples. Mobilize next door to 400 Old Orchard (same owner). Begin purging at 9:35 am. Confirm no treatment.
10:00 am	Collect samples. Pack up and mobilize to 390 Schoolhouse. Greet resident. Enter basement, bypass neutralizer. Begin purging from rear spigot at 10:10 am. Receive authorization form.
10:35 am	Collect samples. Mobilize to 9 Whidah Lane. Greet resident and confirm no treatment. Begin purging from spigot (right side, rear) at 10:48 am.
11:10 am	Collect samples. Mobilize to 30 Chokeberry. Greet resident. Enter basement and bypass particulate filter. Begin purging at 11:30 am. Chat with homeowner.
12:05 pm	Collect samples. Switch filter back on. Pack up and mobilize to 25 Fairview. Greet resident. Confirm no treatment. Begin purging at 12:20 pm.
12:50 pm	Collect samples. Pack up and mobilize to 20 Fairview. No one is home, Begin purging at 1:00 pm. Homeowner returns home at 1:12 pm and signs authorization form.
1:30 pm	Collect samples. Pack up and mobilize to 250 Candlewood. No one is home. Begin purging at 1:45 pm at rear spigot in shower.
2:15 pm	Collect samples. Pack up and mobilize to 20 Starlight Lane. Begin purging from front spigot at 2:35 pm.
3:00 pm	Collect samples. Pack up equipment. Depart site at 3:10 pm.

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INSPECTORS DAILY RECORD OF WORK PROGRESS

Date: 5/8/13

REPORT NUMBER: 44

Job Name: Eastham Landfill

Job Number: BEA09-10104

Feature: PW sampling

Contractor: BEA, BCDHE

Type of Work: Residential well sampling

Weather Conditions:

Temperature:

Contractor's Work Force (Indicate classification, including subcontractor personnel)

Bennett Environmental Associates:
JTW (PM); BCDHE: Lee Manillo, Lynn Perry

Equipment in use or idled (Identify which)

Truck

Materials or equipment delivered, quantity or pay items placed

Sample residences for VOCs (524.2) and 1,4-Dioxane (522.1)

Non-conforming materials or work, field problems, inspections of previously reported deficiencies

None

Summary of construction activities

9:00 am	BEA personnel arrive at 20 Deerfield to sample PW. Greet resident and ask about treatment. Enter basement, observe neutralizer. Front left outside spigot is not treated. Begin purging from spigot at 9:05 am.
9:35 am	Collect samples. Pack up. Hand literature to resident. Mobilize to 70B Deerfield. Resident is on phone and is mildly perturbed. Open rear spigot and begin purging at 9:55 am. Confirm no treatment.
10:20 am	Collect samples. Pack up. Mobilize to 105 Deerfield. No one is home and house is locked. Outside spigot is on. Begin purging at 10:32 am. Receive call from Lee and Lynn (BCDHE). They are in Eastham heading to the landfill to perform quarterly/semi-annual sampling. Will meet me later to help with residential PW sampling.
10:55 am	Collect samples. Pack up and mobilize to 4 Eldia. Greet resident. Enter basement and confirm no treatment. Begin purging from spigot on left side of house at 11:05 am. Chat with resident.
11:35 am	Collect samples. Mobilize to 125 Meetinghouse [RES-7]. Begin purging well at 11:55 am.
12:25 pm	Collect samples. Mobilize to 285 Alston [RES-20]. Enter basement and confirm no treatment. Water is on by Doug Wallace. Begin purging by rear spigot at 12:40 pm. Doug Wallace stops by briefly and departs. Lynn and Lee arrive and depart for Candlewood.
1:10 pm	Collect samples. Pack up and mobilize to 100 Meetinghouse [RES-8]. Begin purging from shower spigot at 1:25 pm.
1:55 pm	Collect samples. Pack up and mobilize to 180 Old Orchard [RES-1]. Begin purging from front spigot at 2:05 pm.
2:25 pm	Collect samples. Lynn and Lee take Inorganics and Arsenic samples back to County Lab. Pack up and mobilize to William Raveis office. Get key from Denise. Mobilize to 230 Schoolhouse. Enter front door, enter basement. Observe water treatment system and note spigot is not treated. Turn on spigot to purge at 3:05 pm. Collect sample at 3:35 pm. Pack up and depart site, returning key to Denise at WR.

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INSPECTORS DAILY RECORD OF WORK PROGRESS

Date: 5/9/13

REPORT NUMBER: 45

Job Name: Eastham Landfill

Job Number: BEA09-10104

Feature: PW sampling

Contractor: BEA, BCDHE

Type of Work: Residential well sampling

Weather Conditions:

Temperature:

Contractor's Work Force (Indicate classification, including subcontractor personnel)

Bennett Environmental Associates:
JTW (PM); BCDHE: Lynn Perry

Equipment in use or idled (Identify which)

Truck

Materials or equipment delivered, quantity or pay items placed

Sample residences for VOCs (524.2) and 1,4-Dioxane (522.1)

Non-conforming materials or work, field problems, inspections of previously reported deficiencies

Samples received at lab out of hold temperature due to shipping error

Summary of construction activities

9:15 am	Pick up key from Kinlin Grover for 555 Schoolhouse. Mobilize to 21 Smith Lane as requested by Jane Crowley for VOC and 1,4-Dioxane testing as outlier. Greet resident, check basement for treatment. Observe carbon vessels and water softener. Begin purging from bottom of pressure tank pre-treatment at 9:45 am.
10:10 am	Collect samples. Pack up and depart site. Mobilize to 555 Schoolhouse. Enter house and basement. Observe neutralizer. Begin purging from bottom of pressure tank at 11:05 am.
11:45 am	Collect samples. Pack up, turn off water. Lock up house and depart site at 12:00 pm. Mobilize to 40 Fairview. Get key from key box and enter basement. No treatment. Begin purging from right side spigot at 12:10 pm.
12:35 pm	Collect samples. Pack up, turn off outside spigot and lock house. Replace key. Mobilize to community well at 310 Old Orchard. Begin purging at 1:10 pm. Lynn accompanies me and hands me her samples from 400 Schoolhouse, 45 Chokeberry and 3 Whidah.
1:30 pm	Collect samples. Pack up and mobilize to 10 Sharon Circle. Lynn departs for BCDHE. Turn on pump and begin purging at 1:50 pm.
2:15 pm	Collect samples. Pack up. Drain tank. Turn off power/pump. Lock up. Depart at 2:45 pm.
3:00 pm	Return key from 555 Schoolhouse to Kinlin Grover.

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INSPECTORS DAILY RECORD OF WORK PROGRESS

Date: 5/10/13

REPORT NUMBER: 46

Job Name: Eastham Landfill

Job Number: BEA09-10104

Feature: PW sampling

Contractor: BEA

Type of Work: Residential well sampling

Weather Conditions:

Temperature:

Contractor's Work Force (Indicate classification, including subcontractor personnel)

Bennett Environmental Associates:
JTW (PM)

Equipment in use or idled (Identify which)

Truck

Materials or equipment delivered, quantity or pay items placed

Sample residences for VOCs (524.2) and 1,4-Dioxane (522.1)

Non-conforming materials or work, field problems, inspections of previously reported deficiencies

All spigots shut off at 170 Candlewood. No sample collected

Summary of construction activities

9:00 am	BEA personnel arrive at 7 Eldia Lane to sample private potable well. Notify resident upon arrival. Enter basement. Observe neutralizer and particulate filter. Outside spigot on right side of house is untreated. Begin purging from spigot at 9:06 am.
9:35 am	Collect samples. Give lit. (fact sheet, "What to Expect" doc) to resident. Mobilize to 225 Meetinghouse. Greet Resident. Enter basement. Observe neutralizer and carbon system (MtBE removal - empty). Begin purging from bottom of pressure tank pre-treatment at 9:55 am.
10:20 am	Collect samples. Hand literature to resident. Pack up equipment and mobilize to 170 Candlewood. Water is turned off at both spigots. No one is home. Depart residence without collecting any samples. Mobilize to 3 Fairview. Meet resident. Turn on water. No treatment observed. Begin purging from bottom of pressure tank at 11:15 am.
11:40 am	Collect samples. Hand literature to resident. Mobilize to 50 Chokeberry. No one is home, cannot confirm if there is any treatment to water. Begin purging from rear spigot at 12:10 pm. Check bulkhead for access to basement. Bulkhead is open, enter basement and confirm no treatment.
1:00 pm	Collect samples. Leave literature in side door. Depart for 13 Starlight. Greet residents. Enter basement, confirm no treatment. Begin purging from front spigot at 1:15 pm.
1:40 pm	Collect samples. Hand literature to residents. Mobilize to vacant lot at corner of Old Orchard and Starlight. Locate well, gauge for depth to water and bottom of well. Clear brush at side of road for access. Run whale pump down well and begin purging at 2:10 pm.
2:45 pm	Collect sample. Decon equipment and mobilize to Wallace lot on Meetinghouse. Gauge depth to water and bottom of well. Begin purging at 3:35 pm.
4:05 pm	Collect samples. Decon and pack up equipment. Mobilize to 10 Turtle Pond. No one home to verify no treatment. Begin purging from outside spigot at 4:35 pm. Sample at 5:00 pm. Decon and pack up equipment. Depart site at 5:15 pm.

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INSPECTORS DAILY RECORD OF WORK PROGRESS

Date: 5/16/13

REPORT NUMBER: 47

Job Name: Eastham Landfill

Job Number: BEA09-10104

Feature: PW sampling

Contractor: BEA

Type of Work: Residential well sampling

Weather Conditions:

Temperature:

Contractor's Work Force (Indicate classification, including subcontractor personnel)

Bennett Environmental Associates:
JTW (PM)

Equipment in use or idled (Identify which)

Truck

Materials or equipment delivered, quantity or pay items placed

Sample residences for VOCs (524.2) and 1,4-Dioxane (522.1)

Non-conforming materials or work, field problems, inspections of previously reported deficiencies

Not able to pick up key to sample at 555 Schoolhouse

Summary of construction activities

8:30 am	BEA personnel arrive in Eastham to perform PW sampling of selected residential wells as part of IRA activities related to the presence of 1,4-Dioxane in GW downgradient of the Eastham Landfill. Begin at MW-21S as part of the semi-annual LMP sampling requirements. Begin purging well.
9:30 am	Collect samples. Pack up and mobilize to 275 Alston Ave. Greet resident. Check basement and confirm no treatment. Begin purging from rear spigot at 9:55 am.
10:25 am	Collect samples. Mobilize to 400 Schoolhouse. No one home. Begin purging from rear spigot at 10:45 am.
11:15 am	Collect samples. Pack up and mobilize to 40 Fairview. Enter house and open spigot on left side of house, closest to pressure tank. Begin purging at 11:20 am.
11:45 am	Collect samples. Pack up and mobilize to 45 Chokeberry. No one home, begin purging from front spigot at 11:55 am.
12:15 pm	Collect samples. Pack up and mobilize to 3 Whidah. Begin purging from shower spigot at 12:27 pm.
12:50 pm	Collect samples. Pack up and mobilize to community well. Enter well pit and begin purging at 1:05 pm.
1:35 pm	Collect samples. Pack up and mobilize to 10 Sharon Circle. Open house and begin purging well from pressure tank at 1:50 pm.
2:15 pm	Collect samples. Pack up. Turn off power, drain tank. Turn off pump switch. Lock house and return key. Depart site.

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INSPECTORS DAILY RECORD OF WORK PROGRESS

Date: 5/29/13 REPORT NUMBER: 48

Job Name: Eastham Landfill Job Number: BEA09-10104

Feature: PW sampling

Contractor: BEA

Type of Work: Residential well sampling

Weather Conditions: Temperature:

Contractor's Work Force (Indicate classification, including subcontractor personnel)

Bennett Environmental Associates:
JTW (PM)

Equipment in use or idled (Identify which)

Truck

Materials or equipment delivered, quantity or pay items placed

Sample residences for VOCs (524.2) and 1,4-Dioxane (522.1)

Non-conforming materials or work, field problems, inspections of previously reported deficiencies

None

Summary of construction activities

9:15 am	BEA personnel arrive at RES-36 (25 Knowles) to perform monthly sampling of private potable well. Notify residents of arrival. Begin purging well at 9:40 am.
10:25 am	Collect samples. Mobilize to RES-31 (30 Knowles). Begin purging at 10:40 am.
11:30 am	Collect samples. Mobilize to RES-30 (325 Schoolhouse). Enter basement and take water meter reading (810430). Begin purging from bottom of pressure tank at 11:50 am. Turn on both outside spigots to run water through GAC.
12:55 pm	Sample raw water. Sample intermediate at 1:05 pm, sample effluent at 1:20 pm. 811280 is water meter reading after effluent sample is collected. Mobilize to RES-35 (50 Alston). Bypass neutralizer/filter and begin purging from spigot at 1:40 pm.
2:30 pm	Collect samples. Turn treatment system back on. Pack up and mobilize to RES-34 (11 Eldia). Notify tenants of sampling activities. Begin purging spigot at 2:45 pm.
3:25 pm	Collect samples. Pack up and mobilize to 555 Schoolhouse. Enter house with key obtained from Realtor earlier this morning. Turn on pump switch and begin purging from bottom of pressure tank at 3:40 pm.
4:05 pm	Collect samples for Dioxane only. Pack up equipment. Secure basement. Turn pump switch off. Lock house. Mobilize to 20 Candlewood. Greet resident. Enter basement and observe neutralizer. Hook hose up to bottom of pressure tank and begin purging at 4:30 pm.
5:00 pm	Collect samples. Hand fact sheet/What to Expect info to resident. Pack up equipment. Depart site at 5:15 pm. Drop off key to 555 Schoolhouse Realtor in Orleans. Depart to office.

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INSPECTORS DAILY RECORD OF WORK PROGRESS

Date: 5/31/13

REPORT NUMBER: 49

Job Name: Eastham Landfill

Job Number: BEA09-10104

Feature: PW sampling

Contractor: BEA

Type of Work: Residential well sampling

Weather Conditions: Sunny, warm

Temperature: 75 F

Contractor's Work Force (Indicate classification, including subcontractor personnel)

Bennett Environmental Associates:
JTW (PM)

Equipment in use or idled (Identify which)

Truck

Materials or equipment delivered, quantity or pay items placed

Sample residence for general chemistry parameters

Non-conforming materials or work, field problems, inspections of previously reported deficiencies

None

Summary of construction activities

1:10 pm BEA personnel arrive at 11 Eldia Way to collect General Chemistry sample from well and to meet Jenkins Well Drilling personnel to collect data on well. Jenkins personnel already on site with property owner. Property owner indicates spigot (rear) started leaking and to collect sample from front spigot from now on. Enter basement and confirm no treatment in place. Turn on front spigot and begin purging at 1:20 pm. Allow to run for 20 minutes and sample at 1:40 pm.

David Jenkins opens well cap, drains tank and pulls pump. Gauge for depth to water (38.69') and bottom of well (52.0'). Pipe does have some yellowish slime on it at water line.

Reinstall pump. Chlorinate well. Speak briefly with property owner.

2:05 pm Depart site.

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MONITORING WELL SAMPLING LOG

Job Name: Town of Eastham Landfill Monitoring Date(s): 5/8/13 Time: _____ Tide: _____

Location: Old Orchard Road Job Number: BEA09-10104

Sampler: Lynn Mulkeen-Perry Measuring Point: Ground Surface or T.O.C. T.O.C.

Well Number	Elev. of reference point (feet)	Total Depth of Well (feet)	Depth to Water (feet)	Standing Water Height (feet)	Water Table Elevation (feet)	Static Volume (gallons)	Volume Purged (gallons)	HNU PI-101 (ppm)	pH	Dissolved Oxygen (mg/L)	Conductivity	Temperature (F)	Comments:
MW-3D	32.32	73.42	19.15	54.27	13.17	8.68	55	NA	6.98	1.63	374	12.76	brown silt->clear; slight leachate odor
MW-3I	32.59	52.34	19.32	33.02	13.27	5.28	35	NA	6.94	1.10	79	13.04	clear

Notes:

TOC elevations from mark on PVC except MW-2D (chisel mark in steel cover).

NA = Not applicable
NE = Not established

BCH #13 is blind duplicate of MW 3D

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PRIVATE WELL SAMPLING LOG

Job Name: Eastham Landfill Date(s): 4/26/2013 Time: AM

Location: Various Job Number: BEA09-10104

Sampler: John T-W Measuring Point: Ground Surface or T.O.C. _____

Well Number	Total Depth of Well (feet)	Depth to Water (feet)	Production horizon	Volume Purged (gallons)	pH	Dissolved Oxygen (mg/L)	Conductivity	Temperature (F)	Comments:
RES-36	212	45+/-	-152	20	6.68	3.84	248	52	25 Knowles. 1 gal in 45 sec, purge 15 mins.
NA	75	45	-15	75	6.49	9.14	155	53	15 Knowles. 1 gal in 20 sec, purge 25 mins.
NA	NE	NE	NE	23	6.97	8.76	105	52	65 Kettle Hole. 1 gal in 40 sec, purge 15 mins.
NA	98	35	-48	30	6.40	4.70	197	52	255 Meetinghouse. 1 gal in 40 sec, purge 20 mins.

Notes:

Collect 4 private potable well samples for VOCs (524.2) and 1,4-Dioxnae (522.1 Mod).

NE = Not established
NA = Not applicable

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PRIVATE WELL SAMPLING LOG

Job Name: Eastham Landfill Date(s): 5/6/13 Time: _____

Location: Various Job Number: BEA09-10104

Sampler: JTW, LM Measuring Point: Ground Surface or T.O.C. _____

Well Number	Total Depth of Well (feet)	Depth to Water (feet)	Production horizon	Volume Purged (gallons)	pH	Dissolved Oxygen (mg/L)	Conductivity	Temperature (F)	Comments:
					6.24	10.41	217	52	25 Old Orchard, 9:45 am. Collect samples from spigot at pressure tank
					6.14	7.61	107	52	455 Schoolhouse, 10:40 am. Collect samples from front spigot
					6.19	10.10	121	52	50 Cestaro, 11:15 am
					6.33	7.81	164	53	210 Schoolhouse, 12:10 pm
					6.47	10.54	109	51	60 Deerfield, 12:40 pm. Collect samples from front spigot
					6.33	8.59	115	51	280 Candlewood, 1:35 pm
					5.99	7.45	197	52	17 Eldia, 2:25 pm
					6.24	8.80	151	53.46	75 Cestaro, 12:00 pm
					6.42	8.98	130	51.60	65 Deerfield, 12:40 pm
					6.30	3.09	339	64.48	255 Alston, 2:15 pm

Notes:

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PRIVATE WELL SAMPLING LOG

Job Name: Eastham Landfill Date(s): 5/7/13 Time: _____

Location: Various Job Number: BEA09-10104

Sampler: JTW Measuring Point: Ground Surface or T.O.C. _____

Well Number	Total Depth of Well (feet)	Depth to Water (feet)	Production horizon	Volume Purged (gallons)	pH	Dissolved Oxygen (mg/L)	Conductivity	Temperature (F)	Comments:
					6.00	4.24	228	53	390 Old Orchard Road, 9:30 am
					5.92	4.50	228	53	400 Old Orchard, 10:00 am
					5.99	11.40	155	52	390 Schoolhouse, 10:35 am
					6.05	5.35	211	53	9 Whidah, 11:10 am
					5.96	10.21	123	52	30 Chokeberry, 12:05 pm
					6.07	11.85	141	52	25 Fairview, 12:50 pm
					6.05	8.17	116	53	20 Fairview, 1:30 pm
					6.08	9.89	110	52	250 Candlewood, 2:15 pm
					6.09	6.48	135	53	20 Starlight, 3:00 pm

Notes:

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PRIVATE WELL SAMPLING LOG

Job Name: Eastham Landfill Date(s): 5/8/13 Time: _____

Location: Various Job Number: BEA09-10104

Sampler: JTW, LM, LP Measuring Point: Ground Surface or T.O.C. _____

Well Number	Total Depth of Well (feet)	Depth to Water (feet)	Production horizon	Volume Purged (gallons)	pH	Dissolved Oxygen (mg/L)	Conductivity	Temperature (F)	Comments:
					5.96	11.90	128	52	20 Deerfield, 9:35 am
					5.95	13.31	115	52	70B Deerfield, 10:20 am
					6.31	7.25	107	51	105 Deerfield, 10:55 am
					6.21	5.68	163	52	4 Eldia, 11:35 am
RES-7					6.12	0.54	167	54	125 Meetinghouse, 12:25 pm
RES-20					6.17	0.38	131	53	285 Alston, 1:10 pm
RES-8					6.25	0.37	172	53	100 Meetinghouse, 1:55 pm
RES-1					6.12	3.47	135	54	180 Old Orchard, 2:25 pm
					6.42	2.61	142	52	230 Schoolhouse, 3:35 pm
					5.53	5.94	28	13.00 C	100 Glacier Hills, 1:20 pm
					5.63	10.11	33	11.47 C	200 Candlewood, 1:50 pm
					5.88	9.68	22	11.22 C	395 Candlewood, 2:15 pm

Notes:

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PRIVATE WELL SAMPLING LOG

Job Name: Eastham Landfill Date(s): 5/9/13 Time: _____

Location: Various Job Number: BEA09-10104

Sampler: JTW, LP Measuring Point: Ground Surface or T.O.C. _____

Well Number	Total Depth of Well (feet)	Depth to Water (feet)	Production horizon	Volume Purged (gallons)	pH	Dissolved Oxygen (mg/L)	Conductivity	Temperature (F)	Comments:
					6.54	0.55	78	53	21 Smith, 10:10 am
					5.99	9.20	125	52	555 Schoolhouse, 11:45 am
					6.06	12.46	104	52	40 Fairview, 12:35 pm
					6.08	2.27	133	53	Community well, 1:30 pm
					5.71	9.07	30	11.74 C	400 Schoolhouse, 11:30 am
					5.56	9.06	39	11.54 C	45 Chokeberry, 12:05 pm
					5.14	5.73	46	12.48 C	3 Whidah, 12:40 pm
					5.95	9.48	175	52	10 Sharon, 2:15 pm

Notes:

1573 Main Street, P.O. Box 1743
Brewster, MA 02631

BENNETT ENVIRONMENTAL ASSOCIATES, INC.

LICENSED SITE PROFESSIONALS, ENVIRONMENTAL SCIENTISTS, GEOLOGISTS, SANITARIANS

(508) 896-1706
fax (508) 896-5109

PRIVATE WELL SAMPLING LOG

Job Name: Eastham Landfill Date(s): 5/10/13 Time: _____

Location: Various Job Number: BEA09-10104

Sampler: JTW Measuring Point: Ground Surface or T.O.C. _____

Well Number	Total Depth of Well (feet)	Depth to Water (feet)	Production horizon	Volume Purged (gallons)	pH	Dissolved Oxygen (mg/L)	Conductivity	Temperature (F)	Comments:
					6.03	8.89	153	53	7 Eldia, 9:35 am
					6.04	11.90	145	52	225 Meetinghouse, 10:20 am
					5.90	0.54	90	49	3 Fairview, 11:40 am
					6.24	13.80	135	52	50 Chokeberry, 1:00 pm
					6.11	10.84	128	53	13 Starlight, 1:40 pm
	78.5	48.20			6.20	12.96	132	51	Vacant lot at Old Orchard and Starlight, 2:45 pm
	90.5	38.60			6.26	0.45	185	52	Vacant lot on Meetinghouse, 4:05 pm
					6.05	15.06	113	52	10 Turtle Pond, 5:00 pm

Notes:

1573 Main Street, P.O. Box 1743
Brewster, MA 02631

BENNETT ENVIRONMENTAL ASSOCIATES, INC.

LICENSED SITE PROFESSIONALS, ENVIRONMENTAL SCIENTISTS, GEOLOGISTS, SANITARIANS

(508) 896-1706
fax (508) 896-5109

PRIVATE WELL SAMPLING LOG

Job Name: Eastham Landfill Date(s): 5/16/13 Time: _____

Location: Various Job Number: BEA09-10104

Sampler: JTW Measuring Point: Ground Surface or T.O.C. _____

Well Number	Total Depth of Well (feet)	Depth to Water (feet)	Production horizon	Volume Purged (gallons)	pH	Dissolved Oxygen (mg/L)	Conductivity	Temperature (F)	Comments:
MW-21S					7.77	4.54	326	54	9:30 am
					6.27	0.76	179	53	275 Alston, 10:25 am
					6.18	9.91	109	53	400 Schoolhouse, 11:15 am
					6.15	17.88	109	51	40 Fairview, 11:45 am
					6.17	18.40	141	52	45 Chokeberry, 12:15 pm
					6.02	11.91	168	53	3 Whidah, 12:50 pm
					6.08	2.33	142	53	Community well, 1:35 pm
					6.02	11.10	190	52	10 Sharon, 2:15 pm

Notes:

1573 Main Street, P.O. Box 1743
Brewster, MA 02631

BENNETT ENVIRONMENTAL ASSOCIATES, INC.

LICENSED SITE PROFESSIONALS, ENVIRONMENTAL SCIENTISTS, GEOLOGISTS, SANITARIANS

(508) 896-1706
fax (508) 896-5109

PRIVATE WELL SAMPLING LOG

Job Name: Eastham Landfill Date(s): 5/29/13 Time: _____

Location: Various Job Number: BEA09-10104

Sampler: JTW Measuring Point: Ground Surface or T.O.C. _____

Well Number	Total Depth of Well (feet)	Depth to Water (feet)	Production horizon	Volume Purged (gallons)	pH	Dissolved Oxygen (mg/L)	Conductivity	Temperature (F)	Comments:
RES-36					6.01	1.01	252	51	25 Knowles, 10:25 am
RES-31					6.30	0.76	328	51	30 Knowles, 11:30 am
RES-30					6.32	0.68	390	51	325 Schoolhouse, 12:55 pm
RES-35					6.40	0.71	123	52	50 Alston, 2:30 pm
RES-34					6.45	0.61	343	53	11 Eldia, 3:25 pm
					6.26	8.86	136	52	555 Schoolhouse, 4:05 pm
					6.14	0.81	89	51	20 Candlewood, 5:00 pm

Notes:

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION1
11 TECHNOLOGY DRIVE, NO. CHELMSFORD, MA 01863

Sampling Report

Date: May 28, 2013

Subject: Eastham, MA Residential Well Sampling – Field Data Summary

Prepared by: Lisa Thuot, Environmental Scientist - Office of Environmental Management & Evaluation (OEME)

Dates of Sampling: April 29 – May 3, 2013

Purpose of Project:

The purpose of the sampling was to collect representative drinking water samples from residential wells on private properties in the Town of Eastham, MA (the "Town") located north, east, and southeast of the Eastham Landfill, which resides at 225 Old Orchard Street. The sampling project was requested by Angela Gallagher, Massachusetts Department of Environmental Protection (MassDEP) – Southeast Region.

Summary of Sampling Project:

On April 29, 2013 through May 3, 2013, Lisa Thuot, Jerry Keefe, Daniel Granz, and Erin Trainor of the USEPA Environmental Investigations and Analysis (EIA) field team collected drinking water samples from 63 residential wells located in Eastham, MA. [Please see „Table I" of this report for a list of properties and sampling locations]. Project and sampling oversight was conducted by Angela Gallagher, Environmental Analyst, of the Massachusetts Department of Environmental Protection (MassDEP) Southeast Regional Office, and Jane Crowley, Health Agent, of the Town of Eastham.

The Town selected the wells for this sampling event, and mailed letters of notification to residents/homeowners in the project study area to request sampling authorization. In addition, certain property owners granted sampling authorization on-site during door-to-door inquiries facilitated by MassDEP and Town staff.

At each sample location, EPA field staff purged the well water and recorded simultaneous measurements of pH, conductivity, and temperature. The well water was purged for a period of time until stable readings of pH, conductivity, and temperature were achieved (typically between 15-25 minutes). Samples were collected at a location prior to any well water treatment system(s) in place such as filters, water softeners, ion exchange units, etc. (if applicable).

The samples were analyzed by Test America Laboratory in South Burlington, VT for volatile organic compounds (VOCs) and 1,4-Dioxane. Field duplicate samples were collected at each property for quality control purposes; the sample identification numbers are designated with an extension of "dup". EPA field staff delivered samples to a designated Test America Laboratory courier for pick-up on a daily basis during the project. Sample containers, preservative, ice chests/coolers, and chain-of-custody forms were supplied by Test America Laboratory.

EPA field data (sample number/location, time, date, pH, temperature, conductivity, and sample location information) are summarized in Table I. The pH, temperature, and conductivity values outlined in Table I represent the final measurements recorded by EPA field staff before the well water sample was collected.

Analytical data reports from Test America Laboratory for the well water analyses for this project will be sent directly to the Town.

If you have any questions about this report please contact Lisa Thuot at (617) 918-8366, Thuot.Lisa@epa.gov or Jerry Keefe at (617) 918-8376, Keefe.Jerry@epa.gov .

Enclosures/Attachments:

Table I – Summary of EPA Field Data

.cc Angela Gallagher, Environmental Analyst, MassDEP
Jane Crowley, Health Agent, Town of Eastham

Table I – Summary of EPA Field Data

Address/Property	Sample Date/Time(s)		Conductivity (mS/cm)	Temperature (°C)	pH (S.U.)	Sample Location/Description	Sample ID #
5 Acorn Rd.	5/3/13	1015	0.138	10.6	6.58	Outside front spigot (no water treatment)	5Acorn
50 Alston Ave.	5/1/13	1450	0.191	11.2	6.18	Outside spigot (bypassed water treatment)	50Alston
200 Alston Ave.	5/1/13	1055	0.183	12.4	5.58	(Sample location not noted in logbook).	200Alston
225 Alston Ave.	4/29/13	1245	0.33	11.7	6.13	Outside spigot (no water treatment)	225Alston
60 Briggs Field Rd.	5/1/13	1535	0.48	15.1	5.97	Outside spigot (no water treatment)	60Briggsfield
50 Candlewood Dr.	5/3/13	1110	0.35	10.0	5.44	Outside spigot (no water treatment)	50Candlewood
70 Candlewood Dr.	5/3/13	0915	0.21	13.6	5.95	Spigot on basement well pressure tank line (before water treatment).	70Candlewood
100 Candlewood Dr.	5/3/13	1210	(no reading)*	12.4	6.30	Spigot on basement incoming water line next to well pressure tank (before water filter and neutralizer treatment).	100Candlewood
145 Candlewood Dr.	5/2/13	1550	0.208	11.3	5.81	Outside spigot (bypassed water treatment)	145Candlewood
150 Candlewood Dr.	5/2/13	1002	0.144	11.0	6.35	Outside spigot (bypassed water treatment)	150Candlewood
310 Candlewood Dr.	4/30/13	1305	0.18	11.2	5.90	Outside spigot in front of house (before two water filters).	310Candlewood
10 Cestaro Way	4/30/13	1055	0.155	14.3	5.75	Outside spigot (before water pH treatment)	10Cestaro
20 Cestaro Way	5/2/13	1505	0.21	11.8	5.60	Outside spigot (no water treatment)	20Cestaro

Table I – Summary of EPA Field Data

Address/Property	Sample Date/Time(s)		Conductivity (mS/cm)	Temperature (°C)	pH (S.U.)	Sample Location/Description	Sample ID #
35 Cestaro Way	4/30/13	1135	0.144	11.3	6.07	Outside spigot (before water treatment. Note: water filter on kitchen faucet only)	35Cestaro
45 Cestaro Way	5/2/13	1415	0.15	11.6	5.85	Outside spigot (no water treatment)	45Cestaro
55 Cestaro Way	5/2/13	0935	0.21	11.4	5.73	Outside spigot (before water treatment)	55Cestaro
90 Cestaro Way	5/2/13	1055	0.166	11.4	5.94	Outside back spigot (owner not home to verify water treatment)	90Cestaro
60 Chipman St.	4/30/13	0915	0.326	10.8	5.75	Outside spigot (bypassed water treatment)	60Chipman
35 Chokeberry Dr.	5/3/13	0915	0.172	11.2	5.84	Outside front spigot (no water treatment)	35Chokeberry
40 Chokeberry Dr.	5/2/13	1155	0.20	11.2	5.60	Outside spigot (owner temporarily shut off valve to water neutralizer treatment).	40Chokeberry
10 Deerfield Lane	5/1/13	1140	0.164	11.6	5.76	Inside spigot (bypassed water treatment)	10Deerfield
15 Deerfield Lane	4/29/13	1515	0.186	11.8	5.68	Inside spigot (before pH water treatment)	15Deerfield
40 Deerfield Lane	5/1/12	1000	0.200	11.6	5.74	Outside front spigot (bypassed water pH treatment)	40Deerfield
45 Deerfield Lane	5/2/13	1550	0.20	11.6	5.72	Outside spigot (no water treatment)	45Deerfield
50 Deerfield Lane	5/3/13	1010	0.17	9.2	6.68	Spigot on basement well pressure tank (before water conditioning treatment). A slight sulfur smell detected in well water.	50Deerfield

Table I – Summary of EPA Field Data

Address/Property	Sample Date/Time(s)		Conductivity (mS/cm)	Temperature (°C)	pH (S.U.)	Sample Location/Description	Sample ID #
55 Deerfield Lane	4/29/13	1005	0.21	11.0	5.85	Spigot on basement well pressure tank (before a water filter).	55Deerfield
80 Deerfield Lane	5/1/13	0910	0.150	11.0	5.99	Outside spigot (owner not home to confirm water treatment status).	80Deerfield
20 Duck Marsh Lane	4/30/13	1020	0.20	10.9	6.26	Spigot on basement incoming water line in next to well pressure tank, (before water softener). Water was a yellow-brown color during the purge, but clear at sample time.	20DuckMarsh
25 Duck Marsh Lane	5/2/13	1250	0.144	11.3	5.66	Outside front spigot (bypassed water pH neutralization)	25DuckMarsh
3 Eldia Way	5/3/13	1200	0.242	11.5	5.63	Outside front spigot (bypassed water pH neutralization).	3Eldia
5 Eldia Way	4/29/13	1145	0.27	11.9	5.51	Spigot on basement incoming water line next to well pressure tank (before water neutralizer).	5Eldia
9 Eldia Way	5/2/13	1240	0.34	11.7	6.11	Spigot on basement well pressure tank line (before water treatment)	9Eldia
11 Eldia Way	4/29/13	1410	0.74	12.1	6.16	Outside spigot (no water treatment)	11Eldia
4 Fairview Ave.	4/29/13	1105	0.19	11.3	5.67	Outside spigot (no water treatment)	4Fairview
35 Fairview Ave.	5/2/13	0900	0.186	11.5	5.73	Outside spigot in shower (owner not home to verify water treatment status)	35Fairview
50 Fairview Ave.	5/2/13	1025	0.18	11.4	5.95	Outside spigot (no water treatment)	50Fairview

Table I – Summary of EPA Field Data

Address/Property	Sample Date/Time(s)		Conductivity (mS/cm)	Temperature (°C)	pH (S.U.)	Sample Location/Description	Sample ID #
60 Fairview Ave.	5/1/13	1355	0.148	11.1	5.81	Outside spigot (bypassed water treatment)	60Fairview
20 Guerrera 42	4/29/13	1215	0.113	12.1	5.46	Well at 42 ft. (no water treatment)	20Guerrera42
20 Guerrera 59	4/29/13	1140	0.497	11.6	5.40	Well at 59 ft. (no water treatment)	20Guerrera59
80 Kettle Hole Rd.	5/1/13	1155	0.14	12.1	5.58	Outside spigot (no water treatment)	80Kettlehole
30 Knowles St.	4/29/13	0930	0.679	10.8	6.07	(Sample location not noted in logbook).	30Knowles
45 Knowles St.	5/1/13	1015	0.53	10.5	5.90	Outside spigot (no water treatment)	45Knowles
75 Knowles St.	4/30/13	0955	0.25	11.4	5.67	Outside spigot (no water treatment)	75Knowles
171B Meetinghouse Rd.	5/1/13	0925	0.41	12.4	6.57	Spigot on basement incoming water line next to well pressure tank (before water treatment)	171BMeetinghouse
175 Meetinghouse Rd.	5/2/13	1140	0.142	11.8	5.73	Outside spigot (no water treatment)	175Meetinghouse
180 Meetinghouse Rd.	5/1/13	1355	0.13	12.7	5.95	Outside spigot (no water treatment) Note: water was a orange-yellow color during the purge; clear at sample time.	180Meetinghouse
185 Meetinghouse Rd.	4/30/13	1615	0.263	11.7	6.25	Outside spigot (bypassed water treatment)	185Meetinghouse
200 Meetinghouse Rd.	5/2/13	1700	0.162	11.5	5.53	Outside front spigot (no water treatment)	200Meetinghouse

Table I – Summary of EPA Field Data

Address/Property	Sample Date/Time(s)		Conductivity (mS/cm)	Temperature (°C)	pH (S.U.)	Sample Location/Description	Sample ID #
370 Meetinghouse Rd.	4/30/13	1505	0.18	11.0	5.97	Outside spigot (temporary bypass of water softener using a shut-off valve).	370Meetinghouse
310 Old Orchard Rd.	4/29/13	1155	0.28	12.4	5.93	Spigot on basement well pressure tank (no water treatment). Minor smell of sulfur detected in well water.	310OldOrchard
350 Old Orchard Rd.	5/3/13	1120	0.339	12.0	5.58	Outside front spigot (bypassed water pH neutralization).	350OldOrchard
370 Old Orchard Rd.	5/2/13	1500	0.406	13.0	5.83	Outside spigot (no water treatment)	370OldOrchard
4 Preservation Way	4/30/13	1425	0.197	12.6	6.25	Outside front spigot (bypassed water treatment)	4Preservation
325 Schoolhouse Rd.	4/29/13	1015 1035 1050	0.917	10.7	5.96	3 sample locations: (1) Influent spigot in basement (before 2 carbon water filters); (2) Intermediate – after 1st carbon filter in basement (3) Effluent – outside spigot after both carbon filters.	325SchoolhouseInf 325SchoolhouseInt 325Schoolhouseeff
418 Schoolhouse Rd.	5/2/13	1105	0.14	11.5	5.83	Outside spigot (no water treatment)	418Schoolhouse
3 Selah Circle	4/30/13	1220	0.273	11.8	5.57	Outside spigot (no water treatment)	3Selah
5 Sharon Circle	5/3/13	1250	0.203	11.6	6.03	Outside back spigot (no water treatment)	5Sharon
20 Sharon Circle	4/30/13	1545	0.26	11.9	5.60	Outside spigot (no water treatment)	20Sharon

Table I – Summary of EPA Field Data

Address/Property	Sample Date/Time(s)		Conductivity (mS/cm)	Temperature (°C)	pH (S.U.)	Sample Location/Description	Sample ID #
35 Sharon Circle	5/1/13	1445	0.18	11.3	5.75	Outside spigot (no water treatment).	35Sharon
30 Starlight Lane	5/3/13	1245	(no reading)*	14.0	5.97	Faucet in kitchen (no water treatment). Water slightly cloudy in color during the purge; water clear at sample time.	30Starlight
3460 State Highway	4/30/13	1420	0.35	12.4	5.68	Outside spigot (no water treatment).	3460Statehighway
50 Surrey Dr.	4/30/13	1000	0.191	13.2	5.87	(Sample location not noted in logbook - no water treatment).	50Surrey
55 Surrey Dr.	5/1/13	1105	0.21	11.1	6.27	Outside spigot (no water treatment)	55Surrey
1 Whidah	4/29/13	1345	0.554	11.8	5.36	Outside spigot (no water treatment)	1Whidah

*Note: The conductivity meter required new replacement batteries and the meter was temporarily turned to off, so conductivity measurements could not be recorded during this time.

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

RECEIVED MAY 17 2013

May 15, 2013

Mark Dakers
Division of Solid Waste
Massachusetts Department of Environmental Protection
20 Riverside Drive
Lakeville, MA 02346

Re: Soil /Gas Results for Eastham Landfill

Dear Mr. Dakers:

Please find enclosed the results from samples dated May 8, 2013 of the soil gas monitoring wells at the Eastham Landfill site.

The barometric pressure the day of sampling was 30.15 inHg; the weather was sunny at 57°F. Please notice that none of the wells came back above 10% LEL for methane. The six wells sampled are not considered a threat to health and the environment at this time. Please see table 1 for specific well data.

The instruments used to collect the data were a Photo-Ionization Detector (PID), MiniRae Lite meter and a Landtec Gem 2000 multi-gas meter. The next round of quarterly gas sampling is scheduled for December. Should you have any questions, please feel free to contact me at (508) 375-6620 or Lynn K. Mulkeen Perry at (508) 375-6676.

Sincerely,

Lee A. Mannillo, RS
Senior Environmental Specialist
Barnstable County Department of Health and Environment

Cc: Jane Crowley, Eastham Health Agent
John D. Tadema-Wielandt, Bennett Environmental Associates, Inc.

Eastham Landfill Soil Gas Monitoring Well Survey

Sampled by Lee A. Mannillo and Lynn Mulkeen Perry, Barnstable County Dept. of Health and Environment
Barometric Pressure: 30.15 inHg
Weather: Sunny, 57°F
Date: May 8, 2013

Table 1

Well #	Time	Bar. Pressure	Methane (% LEL)		H2S (ppm)		Oxygen (%)		VOC (ppm)	
		("Hg)	Initial	Purged	Initial	Purged	Initial	Purged	Initial	Purged
GMW-2B	12:35	30.17	0	0	0	0	18.5	17.4	0	0
GMW-2A	12:25	30.18	0	0	0	0	19.7	18.9	0	0
GMW-2	12:15	30.18	0	0	0	0	20.2	18.5	0	0
GMW-3	12:45	30.14	0	0	0	0	19.9	20.0	0	0
GMW-4	12:50	30.13	0	0	0	0	19.7	19.3	0	0
GMW-1	13:00	30.14	0	0	0	0	19.8	19.8	0.1	0.1

APPENDIX C

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC126

Miscellaneous Document Transmittal Form

Release Tracking Number
4 - 24301

A. DISPOSAL SITE LOCATION:

1. Disposal Site Name: EASTHAM LANDFILL
2. Street Address: OLD ORCHARD ROAD
3. City/Town: EASTHAM 4. Zip Code:

B. THIS FORM IS BEING USED TO: (check all that apply)

☐ 1. Correct typographical errors and/or make corrections that do not materially affect the nature or complexity of the response actions. If changes are materially significant, then a revised or modified submittal must be made to the Department. List the report/form that is being corrected that is associated with the above Release Tracking Number (RTN). Attach an errata sheet containing a description of the errors and/or corrections.

Form/Report	Submittal Date (mm/dd/yyyy)	Transaction ID

☐ 2. Submit other documents associated with this RTN that cannot be submitted to the Department using any other BWSC transmittal form. Do not submit documents that are of a time-critical nature and/or that require a direct response from the Department and/or that require an LSP Opinion pursuant to 310 CMR 40.0015.

Description of Submittal

☐ 3. Resign as LSP-of-Record for the above Release Tracking Number (RTN). Attach a copy of the LSP resignation letter. (Section D, E, and F are not required).

☑ 4. Submit copies of Public Notices required pursuant to 310 CMR 40.1400: (check all that apply)
(Section C is not required)

- ☐ a. Tier I Classification/Permit Application — ☐ Check here if submitting a copy of a legal notice
- ☐ b. Tier II Classification — ☐ Check here if submitting a copy of a legal notice
- ☑ c. Immediate Response Action (IRA)
- ☐ d. Release Abatement Measure (RAM)
- ☐ e. Downgradient Property Status (DPS)
- ☐ f. Utility-related Abatement Measure (URAM)
- ☐ g. Comprehensive Response Actions
- ☐ h. Activities related to recording/registering an Activity and Use Limitation (AUL) — ☐ Check here if submitting a copy of a legal notice
- ☐ i. Response Action Outcome (RAO)

(All sections of this transmittal form must be filled out unless otherwise noted)

B. THIS FORM IS BEING USED TO (cont.): (check all that apply)

☐ 5. Submit Public Involvement Petition documents. (check all that apply). (Section C is not required).

- ☐ a. Submit a Public Involvement Petition
- ☐ b. Submit a a Public Involvement Petition Retraction
- ☐ c. Submit a Positive Public Involvement Petition Designation Letter
- ☐ d. Submit a Negative Public Involvement Designation Letter
- ☐ e. Submit a Draft Public Involvement Petition Plan
- ☐ f. Submit a Revised Public Involvement Petition Plan
- ☐ g. Submit a Final Public Involvement Petition Plan
- ☐ h. Submit a Notice of Public Comment Period

  Date of Close of Comment Period :_____
  (mm/dd/yyyy)
- ☐ i. Submit a copy of a Public Involvement Petition legal notice
- ☐ j. Submit a Notice of Public Meeting

  Meeting Date:_____
  (mm/dd/yyyy)
- ☐ k. Submit other Public Involvement Petition related documents not specified above:

  Describe: _____

☐ 6. Submit a RCRA Contained-In-Determination to document that soil and/or groundwater is no longer considered a hazardous waste pursuant to state (310 CMR 30.00) and federal (Title 40, Chapter I, Part 261 of the Code of Federal Regulations) hazardous waste regulations.

C. LSP SIGNATURE:

I attest under the pains and penalties of perjury that I have personally examined and am familiar with this transmittal form, including any and all documents accompanying this submittal. I am aware that significant penalties may result, including, but not limited to, possible fines and imprisonment, if I submit information which I know to be false, inaccurate or materially incomplete.

1. LSP #:
2. First Name: 3. Last Name:
4. Telephone: 5. Ext. 6. FAX:
7. Signature:
8. Date: (mm/dd/yyyy)

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

Miscellaneous Document Transmittal Form

BWSC126

Release Tracking Number
4 - 24301

D. PERSON MAKING A SUBMITTAL:

1. Check all that apply: ☑ a. change in contact name ☐ b. Change of address ☐ c. Change in person undertaking response actions

2. Name of Organization: EASTHAM TOWN OF

3. Contact First Name: SHEILA 4. Last Name: VANDERHOEF

5. Street: 2500 STATE HIGHWAY 6. Title: TOWN ADMINISTRATOR

7. City/Town: EASTHAM 8. State: MA 9. Zip Code: 026420000

10. Telephone: 5082405900 11. Ext: 12. Fax:

☐ 13. Check here if the person is a Public Involvement Petitioner

E. RELATIONSHIP TO SITE OF PERSON MAKING SUBMITTAL: ☑ Check here to change relationship

☐ 1. RP or PRP: ☐ a. Owner ☐ b. Operator ☐ c. Generator ☐ d. Transporter

☐ e. Other RP or PRP Specify:

☑ 2. Fiduciary, Secured Lender or Municipality with Exempt Status (as defined by M.G.L. c.21E, s.2):

☐ 3. Agency or Public Utility on a Right of Way (as defined by M.G.L. c.21E, s.5(j))

☐ 4. Any Other person Undertaking Response Actions: Specify Relationship:

F. CERTIFICATION OF PERSON MAKING SUBMITTAL:

1. I, Sheila Vanderhoef attest under the pains and penalties or perjury (i) that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this transmittal form, (ii) that, based on my inquiry of those individuals immediately responsible for obtaining the information, the material information contained in this submittal is, to the best of my knowledge and belief, true, accurate and complete, and (iii) that I am fully authorized to make this attestation on behalf of the entity legally responsible for this submittal. I/the person or entity on whose behalf this submittal is made am/is aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate, or incomplete information.

2. By: Sheila Vanderhoef (Signature) 3. Title: TOWN ADMINISTRATOR

4. For: EASTHAM TOWN OF (Name of person or entity recorded in Section D) 5. Date: 4/10/2013 (mm/dd/yyyy)

☐ 6. Check here if the address of the person providing certification is different from address recorded in Section D.

7. Street:

8. City/Town: 9. State: 10. Zip Code:

11. Telephone: 12. Ext: 13. Fax:

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC126

Miscellaneous Document Transmittal Form

Release Tracking Number
4 - 24301

☐ Check here if any non-updatable information provided on this form is incorrect, e. g. property address. Send corrections to BWSC.eDEP@state.ma.us

YOU ARE SUBJECT TO AN ANNUAL COMPLIANCE ASSURANCE FEE OF UP TO $10,000 PER BILLABLE YEAR FOR THIS DISPOSAL SITE. YOU MUST LEGIBLY COMPLETE ALL RELEVANT SECTIONS OF THIS FORM OR DEP MAY RETURN THE DOCUMENT AS INCOMPLETE. IF YOU SUBMIT AN INCOMPLETE FORM, YOU MAY BE PENALIZED FOR MISSING A REQUIRED DEADLINE.

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4/10/2013 12:30:06 PM

LANDFILL AREA

LEGAL NOTICE
NOTICE OF IMMEDIATE RESPONSE ACTION STATUS

TOWN OF EASTHAM
LANDFILL STUDY AREA
EASTHAM, MASSACHUSETTS
02642
RELEASE TRACKING NUMBER 4-24301

A release of oil and/or hazardous materials has occurred in the area of the Eastham Landfill on Old Orchard Road, Eastham, MA, resulting in the need to conduct an Immediate Response Action (IRA) as defined by M.G.L. c. 21E and the Massachusetts Contingency Plan (310 CMR 40.0000). The Disposal Site includes the Eastham Landfill as well as the Study Area, defined by a line running southeasterly along the southeastern boundary of the Landfill property to Starlight Lane and on to Minister's Pond, then easterly along the northern boundary of Minister's Pond to Park Street, westerly along Piper Lane and northerly to Cestaro Way, then westerly across Schoolhouse Road to Mott's Pond, continuing northwesterly across Meetinghouse Road along an unnamed Way to Old Orchard Road nearest the current entrance to the Eastham Landfill/Transfer Station.

This Legal Notice serves to provide notification to property owners within the Disposal Site of the availability of the written "Immediate Response Action Status" (IRAS) prepared by Bennett Environmental Associates, Inc., dated March 29, 2013, documenting such work and findings. The IRAS has been filed with the Massachusetts Department of Environmental Protection (Mass DEP) as a public record document subject to review and comment by Affected Individuals under public involvement opportunities under 310 CMR 40.1403(9) and 310 CMR 40.1404.

Anyone interested in reviewing the IRAS should notify the Eastham Health Department, 2500 State Highway, Eastham, MA [508-240-5900] or contact MA DEP, Southeast Regional Office at 20 Riverside Drive, Lakeville, MA [508-946-2700] for file review referencing the Release Tracking Number RTN4-24301. These documents are also electronically available through the MA DEP website at the following link http://public.dep.state.ma.us/SearchableSites/Search.asp and on the Town of Eastham Website at www.eastham-ma.gov/documents. Printed versions are also available for review at the Eastham Public Library, and Eastham Health Department at Town Hall., 2500 State Highway, Eastham, MA 02642.

Written comments related to the IRAS must be submitted within 20 days of this publication to the Eastham Health Department and copied to the Mass DEP, Bureau of Waste Site Cleanup, Southeast Regional Office at 20 Riverside Drive, Lakeville, MA.

AD#12917179
Cape Codder 4/5/13

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DEP Transaction ID: 555126
Date and Time Submitted: 4/10/2013 12:30:06 PM
Other Email :

Form Name: BWSC126 Miscellaneous Document Transmittal Form

RTN: 4-24301
Location: EASTHAM LANDFILL
Address: OLD ORCHARD ROAD, EASTHAM,

Person Making Submittal
EASTHAM TOWN OF
SHEILA VANDERHOEF
2500 STATE HIGHWAY
EASTHAM, MA 026420000

LSP
LSP #
LSP Name

Person Making Certification
EASTHAM TOWN OF
Sheila Vanderhoef
EASTHAM TOWN OF
Sheila Vanderhoef

Additional Forms Submitted

Ancillary Document Uploaded/Mailed
BWSC-126 Ques.B4C - IRA Notice - Uploaded (Proof of Publication.pdf)

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NOTICE OF IMMEDIATE RESPONSE ACTION STATUS

TOWN OF EASTHAM
LANDFILL STUDY AREA
EASTHAM, MASSACHUSETTS 02642
RELEASE TRACKING NUMBER 4-24301

A release of oil and/or hazardous materials has occurred in the area of the Eastham Landfill on Old Orchard Road, Eastham, MA, resulting in the need to conduct an Immediate Response Action (IRA) as defined by M.G.L. c. 21E and the Massachusetts Contingency Plan (310 CMR 40.0000). The Disposal Site, as it is currently defined, includes the Eastham Landfill as well as the Expanded Study Area, and runs from the Eastham Landfill/Transfer Station northeasterly along Glacier Hills Road, southerly along Northwood Road and then Schoolhouse Road to Candlewood Drive, east on Candlewood Drive to Turtle Pond Road and turning southerly to the west end of Redberry Lane, then westerly to Schoolhouse Road, southerly along Schoolhouse Road to Park Street, westerly on Park Street to Minister's Pond, along the northern boundary of Minister's Pond to 3450 State Highway (Route 6), then northwest along State Highway to 3500 State Highway and easterly to the point of beginning at the Eastham Landfill/Transfer Station.

This Legal Notice serves to provide notification to property owners within the Disposal Site boundaries of the availability of the written "Immediate Response Action Status II" (IRASII) prepared by Bennett Environmental Associates, Inc., dated June 24, 2013, documenting such work and findings. The IRASII has been filed with the Massachusetts Department of Environmental Protection (Mass DEP) as a public record document subject to review and comment by Affected Individuals under public involvement opportunities under 310 CMR 40.1403(9) and 310 CMR 40.1404.

Anyone interested in reviewing the IRASII should notify the Eastham Health Department, 2500 State Highway, Eastham, MA [508-240-5900] or contact MA DEP, Southeast Regional Office at 20 Riverside Drive, Lakeville, MA [508-946-2700] for file review referencing the Release Tracking Number RTN4-24301. These documents are also electronically available through the MA DEP website at the following link http://public.dep.state.ma.us/SearchableSites/Search.asp and on the Town of Eastham Website at www.eastham-ma.gov/documents. Printed versions are also available for review at the Eastham Public Library, and Eastham Health Department at Town Hall., 2500 State Highway, Eastham, MA 02642.

Written comments related to the IRASII must be submitted within 20 days of this publication to the Eastham Health Department and copied to the Mass DEP, Bureau of Waste Site Cleanup, Southeast Regional Office at 20 Riverside Drive, Lakeville, MA.

TOWN OF EASTHAM

2500 State Highway, Eastham, MA 02642
All Departments 508-240-5900
www.eastham-ma.gov

April 11, 2013

Property Owner Name:
Property Address

Dear

RE: Eastham Residential Well Testing Program

Groundwater sampling in the vicinity of the Eastham landfill has detected a volatile organic compound, 1,4 dioxane, in residential drinking water wells. This has resulted in the need for the Town to perform follow-on investigations to determine the extent of this compound in our groundwater. The investigation consists of sampling residential water supply wells around the landfill area, and your property lies within this area. We are therefore seeking your permission to collect and test a sample of your well water for this purpose. A copy of the results will be provided to you. This investigation in being conducted by the Town in partnership with the Massachusetts Department of Environmental Protection and the U.S. Environmental Protection Agency.

It is important that we complete this investigation within the next 30 days, and we would like to schedule collection a sample from your home during the week of either April 29th or May 6th if at all possible. The sample needs to be collected at a faucet inside your home; therefore we will need to enter your home for this purpose. If someone is not able to be at home during the day, we will make special arrangements to schedule a time that works for you. You will be notified at least three days in advance of when we would like to visit your home.

If you are agreeable to to this, we would appreciate you signing the form below and returning it no later than Friday, April 26th by regular mail, email, or facsimile to:

Attn: Debbie Cohen
Bennett Environmental Associations, Inc.
1573 Main St
PO Box 1743
Brewster, MA 02631

Phone: 508-896-1706
Email: dcohen@bennett-ea.com
Fax: 508-896-5109

If you are unable to to provide access into your home during these two weeks, but would still like to have your well water sampled we can make arrangements for this as well by noting so on the form below.

AUTHORIZATION FOR RESIDENTIAL WELL SAMPLING

Contact Name: _____

Home Phone Number: _____ Cell Phone Number: (preferred) _____

E-mail Address: (this will not be shared or used for any other purpose) _____

- ☐ My home can be sampled during the weeks of April 22nd and 29th
- ☐ I'm not available either of these two weeks, but still would like my home sampled

Authorization: _____ Date: _____

Information about Your Well (if known)

Additionally, we would appreciate you answering the questions below to the best of your ability to assist us in our investigation. If you do not know the answer to any questions, leave it blank.

Description of where your well is located on your property: (eg., behind the shed on the right)

_____

_____

Well casing: (2"/4"…metal/PVC) _____

Depth of well: _____

Length of screen: _____

Do you have an in-home treatment system for your well water? (Yes or No) _____

If yes, what is the water treatment for or what kind of system is it: _____

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

DAVID R & ANN A ABBOTT TTEES
PO BOX 219
NO EASTHAM, MA 02651

COMPLETE THIS SECTION ON DELIVERY

A. Signature: X Ann Abbott — ☐ Agent ☑ Addressee

B. Received by (Printed Name): A Abbott — C. Date of Delivery: 9/19/13

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label): 7009 0820 0001 3999 1718

PS Form 3811, February 2004 — Domestic Return Receipt — 102595-02-M-1540

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- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

CAROLYN N AMBROULT
280 CANDLEWOOD DR
EASTHAM, MA 02642

COMPLETE THIS SECTION ON DELIVERY

A. Signature: X Carolyn Ambroult — ☐ Agent ☐ Addressee

B. Received by (Printed Name): Carolyn Ambroult — C. Date of Delivery: 4/13/13

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label): 7009 0820 0001 3999 2159

PS Form 3811, February 2004 — Domestic Return Receipt — 102595-02-M-15

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- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

RAYMOND S ANDERSON
PO BOX 591
NO EASTHAM, MA 02651

COMPLETE THIS SECTION ON DELIVERY

A. Signature: X — ☐ Agent ☐ Addressee

B. Received by (Printed Name): — C. Date of Delivery:

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

APR 17 2013 NORTH EASTHAM, MA 02651

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label): 7009 0820 0001 4000 2472

PS Form 3811, February 2004 — Domestic Return Receipt — 102595-02-M-1540

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- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

RAYMOND S ANDERSON
PO BOX 591
NO EASTHAM, MA 02651

COMPLETE THIS SECTION ON DELIVERY

A. Signature: X — ☐ Agent ☐ Addressee

B. Received by (Printed Name): — C. Date of Delivery:

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

EASTHAM, MA APR 17 2013 USPS 02651

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label): 7009 0820 0001 4000 2465

PS Form 3811, February 2004 — Domestic Return Receipt — 102595-02-M-154

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- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

BARBARA AUSTIN TTEE
PO BOX 639
WELLFLEET, MA 02667

COMPLETE THIS SECTION ON DELIVERY

A. Signature: X — ☐ Agent ☐ Addressee

B. Received by (Printed Name): Barbara Austin — C. Date of Delivery:

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

USPS

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label): 7009 0820 0001 3999 0421

PS Form 3811, February 2004 — Domestic Return Receipt — 102595-02-M-1540

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

JOSEPH F & ELIZABETH BALCEWICZ
413 STOCKTON ST
HIGHTSTOWN, NJ 08520

COMPLETE THIS SECTION ON DELIVERY

A. Signature: X — ☐ Agent ☐ Addressee

B. Received by (Printed Name): Joseph F Balcewicz — C. Date of Delivery:

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

HIGHTSTOWN, NJ APR 3 2013 08520 USPS

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label): 7009 0820 0001 3999 1558

PS Form 3811, February 2004 — Domestic Return Receipt — 102595-02-M-15

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

THOMAS E BARBIERI
1660 ARDEN AVE
STATEN ISLAND, NY 10312

COMPLETE THIS SECTION ON DELIVERY

A. Signature: X — ☐ Agent ☐ Addressee

B. Received by (Printed Name): T Barbieri — C. Date of Delivery: 4/15/13

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label): 7009 0820 0001 3999 0261

PS Form 3811, February 2004 — Domestic Return Receipt — 102595-02-M-1540

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

JACQUELINE A BEALE
PO BOX 386
NO CHATHAM, MA 02650

APR 13 2013 USPS

COMPLETE THIS SECTION ON DELIVERY

A. Signature: X — ☐ Agent ☐ Addressee

B. Received by (Printed Name): — C. Date of Delivery:

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label): 7009 0820 0001 3999 0025

PS Form 3811, February 2004 — Domestic Return Receipt — 102595-02-M-15

SENDER: COMPLETE THIS SECTION

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- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

NOREEN E BELAIR
370 OLD ORCHARD RD
EASTHAM, MA 02642

COMPLETE THIS SECTION ON DELIVERY

A. Signature: X — ☐ Agent ☐ Addressee

B. Received by (Printed Name): — C. Date of Delivery: 4/13/13

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

JANET Y BENJAMINS
6 VALLEY VIEW DR
ORCHARD PARK, NY 14127

COMPLETE THIS SECTION ON DELIVERY

A. Signature: X — ☐ Agent ☐ Addressee

B. Received by (Printed Name): Janet Benjamins — C. Date of Delivery: 4/22/2013

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

ORCHARD PARK, NY APR 22 2013 14127 USPS

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

SENDER: COMPLETE THIS SECTION

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- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

JUDITH A JALBERT & CAROL BERGEN
PO BOX 484
NO EASTHAM, MA 02651

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Carol Bergen ☐ Agent ☐ Addressee

B. Received by (Printed Name) | C. Date of Delivery
4/15/13

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 0820 0001 3999 1527

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

SENDER: COMPLETE THIS SECTION

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- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

WILLIAM R & PATRICIA A BERGER
14 HIDDEN RD
SCARSDALE, NY 10583

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X W R Berger ☐ Agent ☒ Addressee

B. Received by (Printed Name) | C. Date of Delivery
William Berger | 4-16-13

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☒ No

APR 16 2013

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 0820 0001 3999 0193

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-154

SENDER: COMPLETE THIS SECTION

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- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

CLARENCE O & LINDA D BODAMER
BOX 442
N EASTHAM, MA 02651

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Clarence Bodamer ☐ Agent ☐ Addressee

B. Received by (Printed Name) APR | C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

N EASTHAM APR 2013 02651

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 0820 0001 3999 0391

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

SENDER: COMPLETE THIS SECTION

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- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

PETER E SR & NANCY M BOUYEA
55 SURREY DR
EASTHAM, MA 02642

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Peter E Bouyea ☐ Agent ☐ Addressee

B. Received by (Printed Name) | C. Date of Delivery
PETER E BOUYEA SR | 4-15-1

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☑ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 0820 0001 3999 0186

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1

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- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

TIMOTHY & ET AL BRADY
59 PERSHING LN
ORLEANS, MA 02653-1414

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Tim Brady ☐ Agent ☐ Addressee

B. Received by (Printed Name) TIM BRADY | C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☒ Express Mail
☐ Registered ☒ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 0820 0001 3999 7185

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

NELDA B BURKE
179 KATZ AVE
PATERSON, NJ 07502

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X ☐ Agent ☐ Addressee

B. Received by (Printed Name) | C. Date of Delivery
4/11/

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 0820 0001 3999 1886

S Form 3811, February 2004 Domestic Return Receipt 102595-02-M-15

SENDER: COMPLETE THIS SECTION

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- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

JAMES J & MARGARET & CALLANAN
35 HOWELL ST
DORCHESTER, MA 02125

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X V. Siders ☐ Agent ☐ Addressee

B. Received by (Printed Name) | C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 0820 0001 3999 7147

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

HELEN R CARLSON
PO BOX 419
E LONGMEADOW, MA 01028

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Helen Rose Carlson ☐ Agent ☐ Addressee

B. Received by (Printed Name) Helen Rose Carlson | C. Date of Delivery 4-15

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☒ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 0820 0001 3999 0308

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-15

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

ALAN CASTELLANO
PO BOX 395
NO EASTHAM, MA 02651

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X ☐ Agent ☐ Addressee

B. Received by (Printed Name) | C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

NO EASTHAM APR 22 2013 02651

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

RONALD E & SUZANNE E CHAD
35 SURREY DR
EASTHAM, MA 02642

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Roy Chad ☐ Agent ☐ Addressee

B. Received by (Printed Name) | C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

EASTHAM MA 02642 USPS 3 2013

3. Service Type
☑ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

JAMES E & NEE MARY C CHAPIN
118 GOVERNORS RD
MILTON, MA 02186

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X _____ ☐ Agent ☐ Addressee

B. Received by (Printed Name) _____ C. Date of Delivery _____

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

APR 18 2013 USPS 02651

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 0820 0001 3999 0247

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

MICHAEL G & KAREN C CONNELL
5 ROLLING MEADOW DR
WALLINGFORD, CT 06492

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X _____ ☐ Agent ☐ Addressee

B. Received by (Printed Name) Michael Connell C. Date of Delivery 4-15-1

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 0820 0001 3999 0384

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-15

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

CHARLES J & MICHELLE B CONNORS
PO BOX 1390
NO EASTHAM, MA 02651

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Michelle Connors ☐ Agent ☐ Addressee

B. Received by (Printed Name) _____ C. Date of Delivery

NORTH EASTHAM APR 23 2013 USPS 02651

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 0820 0001 3999 1824

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

JUDITH D COONEY
9 WHIDAH LANE
EASTHAM, MA 02642

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Judith D Cooney ☐ Agent ☐ Addressee

B. Received by (Printed Name) Judith D Cooney C. Date of Delivery 4/13/B

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 0820 0001 3999 0209

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-

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SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

FELICE S CORAL
BX 724
SUDBURY, MA 01776

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X _____ ☐ Agent ☐ Addressee

B. Received by (Printed Name) F. Coral C. Date of Delivery 4.16.13

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 0820 0001 3999 1725

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

SHIRLEY A COSKER
20 CESTARO WAY
EASTHAM, MA 02642

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X _____ ☐ Agent ☐ Addressee

B. Received by (Printed Name) Wilma T. Cosker C. Date of Delivery 4/13

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 0820 0001 3999 1947

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-

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SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

ROBERT L & JULIA F COTE
4 RANDY RD
ELLINGTON, CT 06029

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Robert L Cote ☐ Agent ☑ Addressee

B. Received by (Printed Name) R. COTE C. Date of Delivery 4/16/13

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 0820 0001 3999 7222

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

JERI LYNNE CRONIN TTEE
245 MIDLINE RD
AMSTERDAM, NY 12010

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Jeri Cronin trustee ☐ Agent ☐ Addressee

B. Received by (Printed Name) Jeri Cronin trustee C. Date of Delivery 4-16-13

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 0820 0001 4000 2502

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

CAROL M & NICOLINI MAR DANSKY
00 CANDLEWOOD DR
ASTHAM, MA 02642

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Mary Nicolini ☐ Agent ☐ Addressee

B. Received by (Printed Name) MARY NICOLINI C. Date of Delivery 4/13/13

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

SUZANNE DA SILVA
169 MEETINGHOUSE RD REAR
EASTHAM, MA 02642

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Suzanne Da Silva ☐ Agent ☐ Addressee

B. Received by (Printed Name) Suzanne Da Silva C. Date of Delivery 4-19-1

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☑ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

JOHN V & SHIRLEY L DAVERSA
BOX 1013
N EASTHAM, MA 02651

COMPLETE THIS SECTION ON DELIVERY

A. Signature — X — ☐ Agent ☐ Addressee

B. Received by (Printed Name) — C. Date of Delivery — APR 15 2013

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 0820 0001 3999 0179

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

CHARLES F & MARY E DEEG
30 CHOKEBERRY DR
EASTHAM, MA 02642

COMPLETE THIS SECTION ON DELIVERY

A. Signature — X — ☐ Agent ☐ Addressee

B. Received by (Printed Name) Tom Deeg — C. Date of Delivery 4/18/13

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 0820 0001 3999 6997

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-15

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

BARBARA DEGRANDIS TTEE
PO BOX 369
NO EASTHAM, MA 02651

COMPLETE THIS SECTION ON DELIVERY

A. Signature — X — ☐ Agent ☐ Addressee

B. Received by (Printed Name) — C. Date of Delivery

NORTH EASTHAM MA APR 17 2013 USPS 02651

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 0820 0001 4000 2427

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

BARBARA DEGRANDIS TTEE
PO BOX 369
NO EASTHAM, MA 02651

COMPLETE THIS SECTION ON DELIVERY

A. Signature — ☐ Agent ☐ Addressee

B. Received by (Printed Name) — C. Date of Deliver

NORTH EASTHAM MA APR 17 2013 USPS 02651

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandis
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 0820 0001 4000 2441

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-15

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

PATRICIA A DEWITT
418 SCHOOLHOUSE RD
EASTHAM, MA 02642

COMPLETE THIS SECTION ON DELIVERY

A. Signature — X — ☐ Agent ☐ Addressee

B. Received by (Printed Name) Patricia DeWitt — C. Date of Delivery 4/13/13

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 0820 0001 3999 1800

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

ROBERT H & JENNIFER S DOLD
54 CARPENTER RD
MONSON, MA 01057

COMPLETE THIS SECTION ON DELIVERY

A. Signature — X — ☐ Agent ☐ Addressee

B. Received by (Printed Name) Jacob Dold — C. Date of Delive 4/15/13

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandi
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 0820 0001 3999 1640

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

STEVEN G & DIANE P DOUGLAS
PO BOX 398
NORTH EASTHAM, MA 02651

COMPLETE THIS SECTION ON DELIVERY

A. Signature — X — ☐ Agent ☐ Addressee

B. Received by (Printed Name) — C. Date of Delivery — APR 15 2013

NORTH EASTHAM MA USPS 02651

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 0820 0001 3999 1923

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

EASTHAM CONSERVATION
FOUNDAT
PO BOX 183
EASTHAM, MA 02642

COMPLETE THIS SECTION ON DELIVERY

A. Signature — ☐ Agent ☐ Addressee

B. Received by (Printed Name) — C. Date of Deliver
ECF — 4/15/1

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☑ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandis
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 0820 0001 3999 2296

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-15

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

EASTHAM CONSERVATION
FOUNDAT
PO BOX 183
EASTHAM, MA 02642

COMPLETE THIS SECTION ON DELIVERY

A. Signature — ☐ Agent ☐ Addressee

B. Received by (Printed Name) ECF — C. Date of Delivery 4/15/13

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☑ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

EASTHAM UNITED METHODIST
CHUR
3200 STATE HIGHWAY
EASTHAM, MA
02642

COMPLETE THIS SECTION ON DELIVERY

A. Signature — X — ☐ Agent ☐ Addressee

B. Received by (Printed Name) Rhonda Garrard — C. Date of Delivery 4/25/13

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

BRIAN EDMUNDS
65 KETTLE HOLE RD
EASTHAM, MA 02642

COMPLETE THIS SECTION ON DELIVERY

A. Signature: X Kathryn Edmunds ☐ Agent ☐ Addressee

B. Received by (Printed Name): Kathryn Edmunds C. Date of Delivery: 4/15/13

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☑ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label): 7009 0820 0001 3999 0346

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

PETER M & SUSAN D EVANS
AVON OLD FARM SCHOOL
AVON, CT 06001

COMPLETE THIS SECTION ON DELIVERY

A. Signature: X Lori McCordic ☐ Agent ☐ Addressee

B. Received by (Printed Name): Lori McCordic C. Date of Delivery: 4/15/13

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label): 7009 0820 0001 3999 7208

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-154

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

PETER FARBER TTEE
PO BOX 768
NO CHATHAM, MA 02650

COMPLETE THIS SECTION ON DELIVERY

A. Signature: X Peter Farber ☐ Agent ☑ Addressee

B. Received by (Printed Name): C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label): 7009 0820 0001 3999 2272

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

PETER S FARBER TTEE
PO BOX 768
NO CHATHAM, MA 02650

COMPLETE THIS SECTION ON DELIVERY

A. Signature: X Peter Farber ☐ Agent ☑ Addressee

B. Received by (Printed Name): C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label): 7009 0820 0001 3999 2265

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-154

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

SUSAN J FISHER
80 SALISBURY ST
WORCESTER, MA 01609

COMPLETE THIS SECTION ON DELIVERY

A. Signature: X Susan J Fisher ☐ Agent ☐ Addressee

B. Received by (Printed Name): Susan Fisher C. Date of Delivery: 9/24/18

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☑ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label): 7009 0820 0001 3999 1626

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

EBEN & MARGARET FOGG
20 STARLIGHT LN
EASTHAM, MA 02642

COMPLETE THIS SECTION ON DELIVERY

A. Signature: X Eben Fogg ☐ Agent ☐ Addressee

B. Received by (Printed Name): Eben Fogg C. Date of Delivery: 4-16-1

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☑ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label): 7009 0820 0001 3999 1916

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-15

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

GABRIELE & CAPOLA ET AL
777 AMITY RD
BETHANY, CT 06524

COMPLETE THIS SECTION ON DELIVERY

A. Signature: X ☐ Agent ☐ Addressee

B. Received by (Printed Name): C. Date of Delivery: 4-15

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label): 7009 0820 0001 3999 0278

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

MATTHEW C & ANGELA H B GETTY
10620 CHAMBERS DR
TAMPA, FL 33626

COMPLETE THIS SECTION ON DELIVERY

A. Signature: X ☐ Agent ☐ Addressee

B. Received by (Printed Name): C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label): 7009 0820 0001 3999 1954

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-15

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

MARIAL GILMAN TRUST
14 CENTURY WAY
GARDNER, MA 01440

COMPLETE THIS SECTION ON DELIVERY

A. Signature: X Marial Gilman ☐ Agent ☐ Addressee

B. Received by (Printed Name): C. Date of Delivery: 4-15

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

CHRISTOPHER D & SUZANNE GOMOLA
157 TULLER RD
FAIRFIELD, CT 06825

COMPLETE THIS SECTION ON DELIVERY

A. Signature: X ☐ Agent ☐ Addressee

B. Received by (Printed Name): C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

PETER V R & DIANE E HALL
BOX 893
N EASTHAM, MA 02651

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X ☐ Agent ☐ Addressee

B. Received by (Printed Name) C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 0820 0001 3999 1657

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

HALL 2012 IRREV TRUST
70 CANDLEWOOD DR
EASTHAM, MA 02642

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X M D Hall ☐ Agent ☐ Address

B. Received by (Printed Name) M. D. HALL C. Date of Delive 4/13/13

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandi
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 0820 0001 3999 7215

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

ROBERT DANA HANDEL
44 CURTIS ST
ROCKPORT, MA 01966-1242

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X ☐ Agent ☐ Addressee

B. Received by (Printed Name) S. Handel C. Date of Delivery 4/15/13

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☒ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 0820 0001 3999 1831

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

MARY L HARRINGTON
PO BOX 126
BREWSTER, MA 02631

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X ☐ Agent ☐ Addres

B. Received by (Printed Name) C. Date of Deliv

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

BREWSTER MA
APR 13 2013
USPS - 02631

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchand
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 0820 0001 3999 1497

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

SHAUN F TRUSTEE HARRINGTON
640 GREAT FIELDS RD
BREWSTER, MA 02631

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X ☑ Agent ☐ Addressee

B. Received by (Printed Name) C. Date of Delivery

D. Is delivery address different from item 1? ☑ Yes
If YES, enter delivery address below: ☐ No
P.O. Box 126
Brewster, MA 02631

BREWSTER MA
APR 13 2013
USPS - 02631

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 0820 0001 3999 1480

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

JEFFREY HAVLICK & BURKE CATHER
40 CHOKEBERRY DR
EASTHAM, MA 02642

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X ☐ Agent ☐ Addres

B. Received by (Printed Name) Jeffrey A Havlick C. Date of Deli 4/13/1

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchand
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 0820 0001 3999 6980

PS Form 3811, February 2004

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

ROBERT H JR & MARY P HEATH
3490 16TH STREET
BOULDER, CO 80304

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Mary P Heath ☐ Agent ☐ Addressee

B. Received by (Printed Name) Mary P Heath C. Date of Delivery 4/15/13

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

FEB VALMONT
USPS
APR 15 2013

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 0820 0001 3999 1763

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

FREDERICK H & FREYA HEMLEY
455 SCHOOLHOUSE RD
EASTHAM, MA 02642

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Fred Hemley ☐ Agent ☐ Addresse

B. Received by (Printed Name) Fred Hemley C. Date of Deliver 4/13/13

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandis
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 0820 0001 3999 1817

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

BYRON L & DELORES S HIGGINS
30 STARLIGHT LN
EASTHAM, MA 02651

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Byron L Higgins ☐ Agent ☐ Addressee

B. Received by (Printed Name) Byron L Higgins C. Date of Delivery 4-15-13

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☑ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

JOHN J & VIRGINA F HOGAN
401 LAKEVIEW DR
FAIRFIELD, CT 06825

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X John J. Hogan ☐ Agent ☐ Addressee

B. Received by (Printed Name) John J. Hogan C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

FAIRFIELD CT
APR 15 2013
USPS 06825

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandis
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

ANN MARIE HOYT
P O BOX 1801
EASTHAM, MA 02642

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [signature] ☐ Agent ☐ Addressee

B. Received by (Printed Name) Ann Hoyt C. Date of Delivery 4-23-13

D. Is delivery address different from item 1? ☑ Yes
If YES, enter delivery address below: ☐ No
350 OLD ORCHARD RD
EASTHAM, MA 02642

3. Service Type
☑ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 0820 0001 4000 2410

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

STEPHEN M & JUNE P JABLINOWSKI
PO BOX 82
EASTHAM, MA 02642

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [signature] ☐ Agent ☐ Addressee

B. Received by (Printed Name) Stephen M Jablinowski C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

APR 12 2013

3. Service Type
☑ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 0820 0001 3999 2109

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-15

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

USPS
MARY E TTEE JACOBY
PO BOX 272
GHENT, NY 12075-0272

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [signature] ☐ Agent ☐ Addressee

B. Received by (Printed Name) CO C. Date of Delivery 4/15/13

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 0820 0001 3999 0162

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

GLEN R & DENISE A JOHNSON
7 STRAWBERRY HILL RD
SOUTHBOROUGH, MA 01772

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [signature] ☐ Agent ☐ Addressee

B. Received by (Printed Name) C. Date of Delivery 4/15/13

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 0820 0001 3999 1473

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-15

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

FREDERICK J & BARBARA V KAMENS
PO BOX 262
EASTHAM, MA 02642

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [signature] ☐ Agent ☐ Addressee

B. Received by (Printed Name) F.J. KAMENS C. Date of Delivery 4-13-13

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 0820 0001 3999 1930

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

GERTRUDE ANNA ET AL KEIGHLEY
50 CESTARO WAY
EASTHAM, MA 02642

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [signature] ☐ Agent ☐ Addressee

B. Received by (Printed Name) GERTRUDE KEIGHLEY C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No
4-15

3. Service Type
☑ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 0820 0001 3999 0285

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

ROBERT J KELLEY
58 HAWLEY ST
NO HAMPTON, MA 01060

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [signature] ☐ Agent ☐ Addressee

B. Received by (Printed Name) Robert J. Kelley C. Date of Delivery 4/16/13

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

NORTHAMPTON MA APR 25 2013 USPS

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 0820 0001 3999 7246

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

KELLMAN BARBARA & SARAH SWARTZ
58 ORCHARD ST
BOSTON, MA 02130

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [signature] ☐ Agent ☐ Addressee

B. Received by (Printed Name) C. Date of Delivery 4/16/13

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 0820 0001 3999 7192

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-154

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

FRANCIS E KENNY
25 MAPLE ST
MILFORD, MA 01757

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [signature] ☐ Agent ☐ Addressee

B. Received by (Printed Name) DON KENNY C. Date of Delivery 4-15-13

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No
4-15-13

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

PETER A & ROBERT A LABRANCHE
PO BOX 1232
EASTHAM, MA 02642

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [signature] ☐ Agent ☐ Addressee

B. Received by (Printed Name) C. Date of Delivery 4-24-13

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☑ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

JARED W & NANCY A LAMB
194 SUMMER AVE
READING, MA 01867

COMPLETE THIS SECTION ON DELIVERY

A. Signature: X Kay Lamb ☐ Agent ☐ Addressee

B. Received by (Printed Name) | C. Date of Delivery: 4/17/13

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label): 7009 0820 0001 3999 2180

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

ELLEN & ANGELO LAPRIORE
64 FARNHAM ST
BELMONT, MA 02478

COMPLETE THIS SECTION ON DELIVERY

A. Signature: X Ellen Lapriore ☐ Agent ☐ Addressee

B. Received by (Printed Name) | C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label): 7009 0820 0001 3999 1688

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-154

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

MARINA LAUBERT
PO BOX 1379
N EASTHAM, MA 02651

COMPLETE THIS SECTION ON DELIVERY

A. Signature: X Marina Laubert ☐ Agent ☐ Addressee

B. Received by (Printed Name) M Laubert | C. Date of Delivery: 4-18-13

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No
APR 18 2013

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label): 7009 0820 0001 3999 0148

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

KENNETH D LEWIS
15 REDBERRY LN
EASTHAM, MA 02642

COMPLETE THIS SECTION ON DELIVERY

A. Signature: X Kenneth D Lewis ☐ Agent ☐ Addressee

B. Received by (Printed Name) Kenneth D Lewis | C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☒ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label): 7009 0820 0001 3999 1985

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-154

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

DAVID H & ELIZABETH B LORD
BX 178
SO WELLFLEET, MA 02663

COMPLETE THIS SECTION ON DELIVERY

A. Signature: X ☐ Agent ☐ Addressee

B. Received by (Printed Name) | C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No
APR 22 2013

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label): 7009 0820 0001 3999 1862

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

MARTIN I & JOANNE L
MAKETANSKY
24 MARCEY RD
HOLLAND, MA 01521

COMPLETE THIS SECTION ON DELIVERY

A. Signature: ☐ Agent ☐ Addressee

B. Received by (Printed Name) | C. Date of Delivery: 4/16/13

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label): 7009 0820 0001 3999 1565

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-154

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

AMY L MARTIN
PO BOX 1511
NO EASTHAM, MA 02651

COMPLETE THIS SECTION ON DELIVERY

A. Signature: X ☐ Agent ☐ Addressee

B. Received by (Printed Name) | C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No
NO EASTHAM

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label): 7009 0820 0001 4000 2403

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

AMANDA L MARTIN
BX 1456
NO EASTHAM, MA 02651

COMPLETE THIS SECTION ON DELIVERY

A. Signature: X ☐ Agent ☐ Addressee

B. Received by (Printed Name) | C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No
NO EASTHAM

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label): 7009 0820 0001 4000 2397

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-154

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

MATASSA CHARLES H &
135 SOUNDVIEW TER
NEW HAVEN, CT 06512

COMPLETE THIS SECTION ON DELIVERY

A. Signature: X ☐ Agent ☐ Addressee

B. Received by (Printed Name) CHARLES MATASSA | C. Date of Delivery: 9-16-2013

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

MARWOOD E FAMILY TRUST RAND
PO BOX 1064
EASTHAM, MA 02642

COMPLETE THIS SECTION ON DELIVERY

A. Signature: X ☐ Agent ☐ Addressee

B. Received by (Printed Name) | C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

CONSTANCE L MCDONOUGH
30 SUSAN RD
MARLBORO, MA 01752

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Constance McDonough ☐ Agent ☐ Addressee

B. Received by (Printed Name) C. Date of Delivery
C. McDonough 4-15-13

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 0820 0001 3999 7130

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

SENDER: COMPLETE THIS SECTION

Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
Print your name and address on the reverse so that we can return the card to you.
Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

THOMAS J MCGREGOR
5 DONEGAL RD
PEABODY, MA 01960

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Thom McGregor ☐ Agent ☒ Addressee

B. Received by (Printed Name) C. Date of Delivery
J. McGregor 4/15/13

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☒ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

Article Number (Transfer from service label) 7009 0820 0001 3999 0292

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

EDWARD & ELIZABETH MCKENNA
25 OLD ORCHARD RD
EASTHAM, MA 02642

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Edward McKenna ☐ Agent ☐ Addressee

B. Received by (Printed Name) C. Date of Delivery
Edward McKenna 4/13/13

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 0820 0001 3999 1961

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

RUTH E MCKINNON
173 FLORENCE ST
MELROSE, MA 02176

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Ruth E McK ☐ Agent ☐ Addressee

B. Received by (Printed Name) C. Date of Deliver

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 0820 0001 3999 0216

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-154

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

GARY W & DENA M MCMAKIN
45 DEERFIELD LN
EASTHAM, MA 02642

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Gary McMakin ☐ Agent ☐ Addressee

B. Received by (Printed Name) C. Date of Delivery
Gary McMakin 4-15-13

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☑ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 0820 0001 3999 1589

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

PABLO J JR & MARIA MOLINA
50 RICHMOND RD #24
PUTNAM, CT 06260

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Pablo M. ☐ Agent ☒ Addressee

B. Received by (Printed Name) C. Date of Deliver
4/16/13

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 0820 0001 3999 2166

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-154

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

WAYNE P. & KATHLEEN S MORA
70 TIMBER LANE
WILLINGTON, CT 06279

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Wayne Mora ☐ Agent ☐ Addressee

B. Received by (Printed Name) C. Date of Delivery
WAYNE MORA 3-16-13

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 0820 0001 3999 2197

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

ROBERT S & TRACY P MOSS
7 ELDIA WAY
EASTHAM, MA 02642

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Tracy P. Moss ☐ Agent ☐ Addressee

B. Received by (Printed Name) C. Date of Deliver
Tracy P. Moss 4/15/13

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☑ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 0820 0001 3999 2333

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-154

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT
OR THE RETURN ADDRESS, FOLD AT DOTTED LINE

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

ROBERT & NANCY L NICKERSON
PO BOX 701
EASTHAM, MA 02642

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Bob N ☐ Agent ☐ Addressee

B. Received by (Printed Name) C. Date of Delivery
B Nickerson

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

DONALD J NORTON
30 WARNER LN
THOMASTON, CT 06787

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X ☐ Agent ☐ Addressee

B. Received by (Printed Name) C. Date of Delivery
Richard Tracy 4/15/13

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

CHAD & LIA C NOVOTNY
27 INMAN ST
CAMBRIDGE, MA 02139

COMPLETE THIS SECTION ON DELIVERY

A. Signature — ☐ Agent ☐ Addressee

B. Received by (Printed Name) CHAD NOVOTNY — C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 0820 0001 3999 2173

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

DONALD T & BONNIE C NUENDEL
255 MEETINGHOUSE RD
EASTHAM, MA 02642

COMPLETE THIS SECTION ON DELIVERY

A. Signature — ☐ Agent ☐ Addressee

B. Received by (Printed Name) — C. Date of Delivery 4/15/13

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 0820 0001 3999 0155

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-15

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT OF THE RETURN ADDRESS, FOLD AT DOTTED LINE

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

SUSAN OBRIEN
BX 1554
NO EASTHAM, MA 02651

COMPLETE THIS SECTION ON DELIVERY

A. Signature — ☐ Agent ☒ Addressee

B. Received by (Printed Name) — C. Date of Delivery 4/23/13

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 0820 0001 3999 2227

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT OF THE RETURN ADDRESS, FOLD AT DOTTED LINE

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

MICHAEL J & MICHELE M OCONNELL
PO BOX 1003
NO EASTHAM, MA 02651

COMPLETE THIS SECTION ON DELIVERY

A. Signature — ☐ Agent ☒ Addressee

B. Received by (Printed Name) — C. Date of Delivery APR 15 2013

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

USPS 02651

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 0820 0001 3999 1619

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-15

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT OF THE RETURN ADDRESS, FOLD AT DOTTED LINE

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

SCOTT B & PATRICIA PEARSTON
PO BOX 561
NO EASTHAM, MA 02651

COMPLETE THIS SECTION ON DELIVERY

A. Signature — ☐ Agent ☒ Addressee

B. Received by (Printed Name) Scott Pearston — C. Date of Delivery APR 15 2013

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 0820 0001 3999 1541

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT OF THE RETURN ADDRESS, FOLD AT DOTTED LINE

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

STEPHEN S PESCHEL
325 S KENT RD
KENT, CT 06785

COMPLETE THIS SECTION ON DELIVERY

A. Signature — ☐ Agent ☐ Addressee

B. Received by (Printed Name) Stephen Peschel — C. Date of Delivery

D. Is delivery address different from item 1? ☒ Yes
If YES, enter delivery address below: ☐ No
SOUTH KENT

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 0820 0001 3999 0223

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT OF THE RETURN ADDRESS, FOLD AT DOTTED LINE

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

ROGER H & BARBARA PETTIS
7 GLENN DR
FRANKLIN, MA 02038

COMPLETE THIS SECTION ON DELIVERY

A. Signature — ☐ Agent ☐ Addressee

B. Received by (Printed Name) — C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☒ No

APR 17 2013
USPS

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 0820 0001 3999 1855

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT OF THE RETURN ADDRESS, FOLD AT DOTTED LINE

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

DAVID W & SHARON L PREUSCH
19 WOODCREST AVE
TRUMBULL, CT 06611

COMPLETE THIS SECTION ON DELIVERY

A. Signature — ☐ Agent ☐ Addressee

B. Received by (Printed Name) — C. Date of Delivery 4-15-13

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 0820 0001 3999 0414

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT OF THE RETURN ADDRESS, FOLD AT DOTTED LINE

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

GEORGE S RANDALL
27 FAIRCHILD DR
HOLDEN, MA 01520

COMPLETE THIS SECTION ON DELIVERY

A. Signature — ☐ Agent ☒ Addressee

B. Received by (Printed Name) George Randall — C. Date of Delivery 4-16-13

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT OF THE RETURN ADDRESS, FOLD AT DOTTED LINE

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

THOMAS C REILLY
10 CESTARO WAY
EASTHAM, MA 02642

COMPLETE THIS SECTION ON DELIVERY

A. Signature — ☐ Agent ☐ Addressee

B. Received by (Printed Name) THOMAS REILLY — C. Date of Delivery 4/13/13

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

PETER GROST TRUST
3301 SHAKESPEARE LN
TOLEDO OH 43615

COMPLETE THIS SECTION ON DELIVERY

A. Signature: X [signature] ☐ Agent ☐ Addressee

B. Received by (Printed Name) [illegible] C. Date of Delivery 4-16-13

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 0820 0001 3999 2302

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

MARJORIE E SANDBLOM REVOCABL
185 MEETINGHOUSE RD
EASTHAM, MA 02642

COMPLETE THIS SECTION ON DELIVERY

A. Signature: X [signature] ☐ Agent ☐ Addressee

B. Received by (Printed Name) [illegible] C. Date of Delivery

D. Is delivery address different from item 1? ☑ Yes
If YES, enter delivery address below: ☐ No

EASTHAM MA 02642 APR 2013 USPS

3. Service Type
☑ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 0820 0001 3999 0124

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-15

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

REBECCA L SAVIN
BX 195
WELLFLEET, MA 02667

COMPLETE THIS SECTION ON DELIVERY

A. Signature: X [signature] ☐ Agent ☐ Addressee

B. Received by (Printed Name) Rebecca L Savin C. Date of Delivery 4/13/13

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

APR 13 2013

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 0820 0001 3999 1879

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

JOHN J & TSESAN W SHAW
47 SHERMAN BRIDGE RD
WAYLAND, MA 01778

COMPLETE THIS SECTION ON DELIVERY

A. Signature: X [signature] ☐ Agent ☐ Addressee

B. Received by (Printed Name) C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 0820 0001 3999 0407

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

THOMAS M & KATHERINE A SHEA
01 CENTRE ST
DOVER, MA 02030

COMPLETE THIS SECTION ON DELIVERY

A. Signature: X [signature] ☐ Agent ☑ Addressee

B. Received by (Printed Name) K Shea C. Date of Delivery 4/15/13

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☑ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 0820 0001 3999 0254

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

SIMKINS YVONNE REV TRUST
60 DEERFIELD LN
EASTHAM, MA 02642

COMPLETE THIS SECTION ON DELIVERY

A. Signature: X Yvonne Simkins ☐ Agent ☑ Addressee

B. Received by (Printed Name) Yvonne Simkins C. Date of Delivery 4-16-13

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☑ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 0820 0001 3999 1534

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-

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SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

TIMOTHY A & EMILY C SIMKINS
3 ELDIA WAY
EASTHAM, MA 02642

COMPLETE THIS SECTION ON DELIVERY

A. Signature: X [signature] ☐ Agent ☐ Addressee

B. Received by (Printed Name) Emily Simkins C. Date of Delivery 4/13/13

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 0820 0001 3999 2357

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

MARY E & ET ALDESPILLANE
13 BLACK BROOK RD
SO EASTON, MA 02375

COMPLETE THIS SECTION ON DELIVERY

A. Signature: X [signature] ☐ Agent ☐ Addressee

B. Received by (Printed Name) C. Date of Delivery 4/15/13

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 0820 0001 4000 2489

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-15

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

ROBERT S & LAURA M SMITH
20 DEERFIELD LN
EASTHAM, MA 02642

COMPLETE THIS SECTION ON DELIVERY

A. Signature: X Laura Smith ☐ Agent ☐ Addressee

B. Received by (Printed Name) Laura Smith C. Date of Delivery 4.16.13

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☑ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

THEODORE C & JANE E SMITH
390 SCHOOLHOUSE RD
EASTHAM, MA
02642

COMPLETE THIS SECTION ON DELIVERY

A. Signature: X Theodore C Smith ☐ Agent ☐ Addressee

B. Received by (Printed Name) Theodore C. Smith C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

EASTHAM MA 02642 MAY - 6 2013 USPS

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

ROBERT SOLOMON REVOCABLE TR
8502 W HOWELL RD
BETHESDA, MD 20817

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [signature] ☐ Agent ☐ Addressee

B. Received by (Printed Name) | C. Date of Delivery: 4/16

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 0820 0001 4000 2496

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT OF THE RETURN ADDRESS, FOLD AT DOTTED LINE

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

NANCY E STAGG TTEE
PO BX 1289
WELLFLEET, MA 02667

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [signature] ☐ Agent ☐ Addressee

B. Received by (Printed Name) | C. Date of Deliver

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No
APR 16 2013

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandis
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 0820 0001 4000 2380

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-15

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT OF THE RETURN ADDRESS, FOLD AT DOTTED LINE

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

ELIZABETH STEELE-JEFFERS
40 DEERFIELD LN
EASTHAM, MA 02642

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [signature] ☐ Agent ☐ Addressee

B. Received by (Printed Name) Elizabeth Steele-Jeffers | C. Date of Delivery: 4-13-13

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☑ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 0820 0001 3999 1572

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

ROBERT C & STEELE RM STEVENSON
20 FAIRVIEW AVE
EASTHAM, MA 02642

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [signature] ☐ Agent ☐ Addres

B. Received by (Printed Name) Rose Steele | C. Date of Deliv: 4/16-13

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchand
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 0820 0001 3999 2371

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

MICHAEL J & JOANNE G SULLIVAN
PO BOX 842
N EASTHAM, MA 02651

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [signature] ☐ Agent ☑ Addressee

B. Received by (Printed Name) | C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No
APR 16 2013

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 0820 0001 3999 7123

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

MARY M SULLIVAN
390 PALISADO AVE
WINDSOR, CT 06095

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [signature] ☐ Agent ☑ Addressee

B. Received by (Printed Name) | C. Date of Delivery: 4-15-13

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 0820 0001 3999 7017

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT OF THE RETURN ADDRESS, FOLD AT DOTTED LINE

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

THOMAS J BUONO FAMILY TRUST
14 MORNINGVIEW CT
HAMDEN, CT 06518

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X ☐ Agent ☐ Addressee

B. Received by (Printed Name) | C. Date of Delivery: 4/15/13

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

MARY M SULLIVAN
390 PALISADO AVE
WINDSOR, CT 06095

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [signature] ☐ Agent ☑ Addressee

B. Received by (Printed Name) | C. Date of Deliver: 4-15-13

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandis
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 0820 0001 3999 1848

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-15

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

ERMA DENNY TEASON
5 ELDIA WAY
EASTHAM, MA 02642

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [signature] ☐ Agent ☐ Addressee

B. Received by (Printed Name) Denny Teason | C. Date of Deliver: 4-15-1

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☑ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandis
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 0820 0001 3999 2364

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-15

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT OF THE RETURN ADDRESS, FOLD AT DOTTED LINE

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

DONALD J THOMAS
10 SURREY DR
EASTHAM, MA 02642

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [signature] ☐ Agent ☑ Addressee

B. Received by (Printed Name) DONALD J. THOMAS | C. Date of Deliver: 4-15-1

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☑ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandis
☐ Insured Mail ☐ C.O.D.

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

LYNETTE W SUSCO
119 ROCKWELL AVE
PLAINVILLE, CT 06062

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Lynette W Susco ☐ Agent ☐ Addressee

B. Received by (Printed Name) Lynette W Susco C. Date of Delivery 4/15/13

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 0820 0001 3999 1695

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

PAUL J THURSTON
10 BROWNSON TERRACE
JAMAICA PLAIN, MA 02130

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X ☐ Agent ☐ Addressee

B. Received by (Printed Name) C. Date of Delivery 4-15-13

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 0820 0001 3999 7178

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-154

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

VIRGINIA LYNN VANKEUREN
463 ROCK RD
GLEN ROCK, NJ 07452

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X ☐ Agent ☐ Addressee

B. Received by (Printed Name) C. Date of Delivery 4/15/13

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 0820 0001 3999 7093

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

JOHN T & BARBARA A WALSH
PO BOX 1229
NO EASTHAM, MA 02651

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X ☐ Agent ☐ Addressee

B. Received by (Printed Name) C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

APR 15 2013

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 0820 0001 3999 1633

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-15

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

EDWARD J & JOYCE C WOOD
PO BOX 1814
NO EASTHAM, MA 02651

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X ☐ Agent ☐ Addressee

B. Received by (Printed Name) C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

APR 15 2013

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 0820 0001 3999 2326

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

WELLS FARGO BANK NA
4101 WISEMAN BLVD
SAN ANTONIO, TX 78251

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X ☐ Agent ☐ Addressee

B. Received by (Printed Name) C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 0820 0001 3999 1893

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-15

TOWN OF EASTHAM

2500 State Highway, Eastham, MA 02642
All Departments 508-240-5900
www.eastham-ma.gov

June 24, 2013

Property Owner Name:
Property Address

Dear

RE: Eastham Residential Well Testing Program

Groundwater sampling in the vicinity of the Eastham landfill has detected a volatile organic compound, 1,4 Dioxane, in residential drinking water wells. This has resulted in the need for the Town to perform follow-on investigations to determine the extent of this compound in our groundwater. The investigation consists of sampling residential water supply wells around the landfill area, and your property lies within this area. We are therefore seeking your permission to collect and test a sample of your well water for this purpose. A copy of the results will be provided to you. This investigation in being conducted by the Town in partnership with the Massachusetts Department of Environmental Protection and the U.S. Environmental Protection Agency.

It is important that we complete this investigation within the next 30 days, and we would like to schedule collection of a sample from your home during the week of either July 22nd thru August 2nd- if at all possible. The sample needs to be collected at a faucet inside your home; therefore we will need to enter your home for this purpose. If someone is not able to be at home during the day, we will make special arrangements to schedule a time that works for you. You will be notified at least three days in advance of when we would like to visit your home.

If you are agreeable to this, we would appreciate you signing the form below and returning it no later than Friday, July 19th by regular mail, email, or facsimile to:

Attn: Debbie Cohen
Bennett Environmental Associations, Inc.
1573 Main St
PO Box 1743
Brewster, MA 02631

Phone: 508-896-1706
Email: dcohen@bennett-ea.com
Fax: 508-896-5109

If you are unable to provide access into your home during these two weeks, but would still like to have your well water sampled we can make arrangements for this as well by noting so on the form below.

AUTHORIZATION FOR RESIDENTIAL WELL SAMPLING

Contact Name: _____

Home Phone Number: _____ Cell Phone Number: (preferred) _____

E-mail Address: (this will not be shared or used for any other purpose) _____

- ☐ My home can be sampled during the weeks of July 22nd thru August 2nd.
- ☐ I'm not available either of these two weeks, but still would like my home sampled

Authorization: _____ Date: _____

ownerfirst	ownerlast	streetnum	streetname	mailingnum	mailname	mailcity	mailst	mailzip
ROBIN	MCLAUGHLIN DAYTON	15	DEEPWOOD DR	15	DEEPWOOD DR	EASTHAM	MA	02642
JAMES E & MICHELE V	DAYTON	25	DEEPWOOD DR	109	HEBRON RD	BOLTON	CT	06043
ROLLAND L & CONSTAN	LAVALLEE	45	DEEPWOOD DR	7	WESTERLY WAY	SEVERNA PARK	MD	21146
PHILIP J	BAUER	55	DEEPWOOD DR	214	SLICE DR	STAMFORD	CT	06907
SANDRA	LARSEN	75	DEEPWOOD DR	PO BOX 464		EASTHAM	MA	02642
ROBERT E & WENDY B	BLUM	85	DEEPWOOD DR	885	HICKORY HILL RD	THOMASTON	CT	06787
SANDRA	HARDY	95	DEEPWOOD DR	128	FOX HOLLOW LN	BANGOR	ME	04401
JOHN F & ELIZABETH	SPEZIALE	70	DEEPWOOD DR	PO BOX 428		EASTHAM	MA	02642-0428
FULLEM GARY L REV TRUST &	FULLEM ARACELLI C REV TRUST	30	DEEPWOOD DR	2762	FORT SCOTT DR	ARLINGTON	VA	22202
PATRICIA A & BRENT E	WARREN	40	DEEPWOOD DR	40	DEEPWOOD DR	EASTHAM	MA	02642
KENT LAKES NOMINEE TRUST	NICHOLAS TRITTO JR TTEE	50	DEEPWOOD DR	129	CHIEF NINHAM CIRCLE	KENT LAKES	NY	10512
ROBERT P	PLITT	60	DEEPWOOD DR	60	DEEPWOOD DR	EASTHAM	MA	02642
JANE S & STUART E	PRATT	65	DEEPWOOD DR	4	PINE TRAIL	CARMEL	NY	10512
JOHN L & EILEEN B	AHLE	13	ELDIA WAY	13	ELDIA WAY	EASTHAM	MA	02642
DENISE L MESSIER TTEE	DENISE L MESSIER TRUST	15	ELDIA WAY	15	ELDIA WAY	EASTHAM	MA	02642
MARTHA E	GAJEWSKI	19	ELDIA WAY	19	ELDIA WAY	EASTHAM	MA	02642
SCHROCK FAMILY REVOCABLE TRUST	THYRA & JAMES C SCHROCK TTEES	21	ELDIA WAY	21	ELDIA WAY	EASTHAM	MA	02642
JAMES A & JAYNE	BADERA	14	ELDIA WAY	P O BOX 1113		NO EASTHAM	MA	02651
THOMAS F WEST (LT)	C/O REILLY PROPERTIES LLC	8	ELDIA WAY	PO BOX 1822		NO EASTHAM	MA	02651
THEODORE F JR & KATHLEE	MICKLE	6	ELDIA WAY	6	ELDIA WAY	EASTHAM	MA	02642
LYNDA ANN POTASH DECLAR TRUST	ALBERT W & KATHLEEN HOTTELMANN	4	ELDIA WAY	PO BOX 415		NO EASTHAM	MA	02651
MARY	MALONEY (LT)	2	ELDIA WAY	320	FOREST PARK AVE	SPRINGFIELD	MA	01108
RANDALL E	GILL	70	GLACIER HILLS RD	PO BOX 252		ORLEANS	MA	02653
J THOMAS & DIANNE	HILFERTY	310	GLACIER HILLS RD	310	GLACIER HILLS RD	EASTHAM	MA	02642
WILLIAM J & JANET P	DUNNE	300	GLACIER HILLS RD	9	CAMILLE LN	WEST SIMSBURY	CT	06092
PETER JR & FISHBON	HILGENDORFF	270	GLACIER HILLS RD	49	EAST SHORE TRAIL	SPARTA	NJ	07871
DONALD & ANN	REY	230	GLACIER HILLS RD	121	BUNKER HILL RD	ANDOVER	CT	06232-1300
NANCY C	CORREIA TTEE	200	GLACIER HILLS RD	PO BOX 686		NO EASTHAM	MA	02651
EDWARD & NINA GOLDMAN	C/O ERIK ANDERSON	180	GLACIER HILLS RD	95	HIGHCREST LN	MT KISCO	NY	10549
JILL A STEWART &	MARG PHILLIPS	150	GLACIER HILLS RD	150	GLACIER HILLS RD	EASTHAM	MA	02642
DAVID M & MARGARET R	ROST	130	GLACIER HILLS RD	166	MAIN ST	CONCORD	MA	01742
DORIS J KOZLOWSKI REV TRUST	C/O CHARLES E & CHERYL I ROY	440	MEETINGHOUSE RD	2635	H RD	GRAND JUNCTION	CO	81506
LUBBEN	HELEN	400	MEETINGHOUSE RD	39	NORTH BAYNARD LN	MAHWAH	NJ	07430
SCHMIDT	BRIAN D & CHRISTINE V	370	MEETINGHOUSE RD	31	JACOBUS AVE	LITTLE FALLS	NJ	07424
GRISWOLD	DANIEL G & KRISTINE M	350	MEETINGHOUSE RD	5	ARNOLD RD	PELHAM	MA	01002-9757
FELITTE	JAMES W & CHERYL A	310	MEETINGHOUSE RD	14	VICTORY DR	ALBANY	NY	12205
ALLEN S & VIRGINIA L	CORBETT	275	MEETINGHOUSE RD	275	MEETINGHOUSE RD	EASTHAM	MA	02642
JAMES R & JANET C	DWYER	325	MEETINGHOUSE RD	325	MEETINGHOUSE RD	EASTHAM	MA	02642
ROSARIO & P BETTY	TOMASELLI	355	MEETINGHOUSE RD	596	NATICK AVE	CRANSTON	RI	02921
DAVID L	ALEXANDER	375	MEETINGHOUSE RD	375	MEETINGHOUSE RD	EASTHAM	MA	02642
DORIS J	KOZLOWSKI TTEE	385	MEETINGHOUSE RD	385	MEETINGHOUSE RD	EASTHAM	MA	02642
ERIC O & LISA M	RADKE	415	MEETINGHOUSE RD	415	MEETINGHOUSE RD	EASTHAM	MA	02642
BERNSTEIN SULLIVAN TRUST	GAIL LEE BERNSTEIN TTEE	55	NORTHWOOD RD	2017	EAST THIRD ST	TUCSON	AZ	85719
ALBERT J & MARY L	HECK	45	NORTHWOOD RD	75	POTTER HILL RD	GRAFTON	MA	01519
ALAN	CASTELLANO	410	OLD ORCHARD RD	PO BOX 395		NO EASTHAM	MA	02651
HERBERT T	JEFFERSON	585	SCHOOLHOUSE RD	585	SCHOOLHOUSE RD	EASTHAM	MA	02642
LYNDA ANN	POTASH TTEE	625	SCHOOLHOUSE RD	2814	RIO PLATO DR	PUNTA GORDA	FL	33950
DONALD R	REILLY	4	SELAH CIR	5	LEGHORN LN	CROMWELL	CT	06416
WELLS FARGO	BANK NA	3	SHARON CIR	4101	WISEMAN BLVD	SAN ANTONIO	TX	78251
ATLANTIC OAKS REALTY LLC	DAVID NUSSDORFER	0	STATE HWY BY RR	1709	MAIN ST	BREWSTER	MA	02631
ATLANTIC OAKS REALTY LLC	DAVID NUSSDORFER	3700	STATE HWY	1709	MAIN ST	BREWSTER	MA	02631
LAZY J REALTY TRUST	JOSEPH W CANNON SR ET AL	3620	STATE HWY	3620	STATE HWY	EASTHAM	MA	02642
JEROPE REALTY TRUST - PHILBRIC	ROGER GOODSPEED TTEES	3580	STATE HWY	PO BOX 1568		NO EASTHAM	MA	02651
JUDITH D	COONEY	9	WHIDAH LN	9	WHIDAH LANE	EASTHAM	MA	02642
NANCY C CORREIA 2009 REV TRUST	C/O WILLIAM R & PATRICIA A BERGER	8	WHIDAH LN	14	HADDEN RD	SCARSDALE	NY	10583
RICHARD A & CLAUDIA J	SETTER	4	WHIDAH LN	35	GRANT AVE	WRENTHAM	MA	02093

ownerfirst	ownerlast	streetnum	streetname	mailingnum	mailingname	mailcity	mailst	mailzip
JAMES E	KENNEWAY	80	ALSTON AVE	80	ALSTON AVE	EASTHAM	MA	02642
CAPE COD TRUST	DIANE EDWARDS TTEE	20	REDBERRY LN	26	BABY PT CRESCENT	TORONTO	CANADA	M6S2B8
CAROL	MARTIN	195	SALTWINDS DR	195	SALT WINDS DR	EASTHAM	MA	02642
BRIAN R SOUCY &	EGGSWARE SOUCY	350	SCHOOLHOUSE RD	131	DARTMOUTH ST	BOSTON	MA	02116
RONALD E & SUZANNE E	CHAD	35	SURREY DR	35	SURREY DR	EASTHAM	MA	02642

May 30, 2013

Mark Okane
619 South Pearl Street
Denver, CO 80209

RE: **EASTHAM**
Release Tracking Number 4-0024301
Eastham Landfill
Old Orchard Road
Private Drinking Water Well Sampling Results
180 Old Orchard Road

Dear Mr. Okane:

The Town of Eastham (Town) and the Massachusetts Department of Environmental Protection (MassDEP) are working together to conduct groundwater investigations near your home in the vicinity of the Eastham Landfill (Landfill). More recent investigatory efforts also involve the United States Environmental Protection Agency, Region 1, Chelmsford Laboratory (US EPA or EPA). The Landfill is a closed, unlined and capped landfill located on Old Orchard Road. As you may know, in November 2012, during routine landfill groundwater monitoring, 1,4-dioxane was detected above MassDEP Groundwater Category GW-1 Groundwater Standards, which are established to be protective of drinking water supplies. The Town proceeded to sample several private drinking water wells downgradient of the Landfill to evaluate whether the private drinking water wells had been affected by the release of 1,4-dioxane. The analytical results from this sampling round indicated that samples from several private drinking water wells contained 1,4-dioxane at concentrations exceeding MassDEP GW-1 Groundwater Standards. The affected residences have been provided with bottled water by the Town of Eastham.

In an effort to evaluate the extent of 1,4-dioxane groundwater contamination, and to ensure the continued protection of public health, the Town sampled more than sixty (60) private wells downgradient of the Eastham Landfill. As you are aware, representatives from the Town/MassDEP and/or the EPA visited your home and obtained a drinking water sample for analytical sampling purposes. The purpose of this letter is to provide you with the analytical results from this sampling effort.

Sampling Activities

Drinking water samples were obtained from your private well on 5/8/13 to determine if your water supply has been impacted by volatile organic compounds (VOCs) including 1,4-dioxane. The samples were submitted to a laboratory for analysis of VOCs and 1,4-dioxane.

As required by the Massachusetts Contingency Plan (MCP – 310 CMR 40.0000), the Town is providing you with the analytical results of the sampling of your private drinking water well and information to assist you in understanding the results.

Sampling Results

The sampling results indicate that 1,4-dioxane was detected in the drinking water sample obtained from your well at a concentration of 0.52. The reported concentration is greater than the most restrictive 0.3 ug/L drinking water guideline but less the 1.5 ug/L Bottled Water Action Level. This Action Level of 1.5 ug/L is based on Site-specific conditions evaluated by a qualified risk assessor who has determined that no significant risk exists below this concentration. Other volatile organic compounds (VOC's) tested were also reported as Non-Detect (ND) or at low level concentrations as significantly less than the current regulatory standards. Therefore you may continue to use your water for drinking and all other household uses.

Please refer to the attached analytical data sheets that specify the compounds that were analyzed in your well and the results of such analysis. Also, a "Sample Results" key and listing of VOC compounds with the applicable MCP Cleanup and drinking water standards is provided to help you interpret the laboratory analytical data. The Town may contact you in the future to sample your well again, as needed.

If you have any questions regarding this matter, please contact me at the letterhead address or by telephone at (508) 255-5900.

Sincerely,
Jane Crowley, MS., RS, Agent
Eastham Health Department

Enclosures:
- BWSC 123 Notice of Environmental Sampling
- Well Testing Analytical Data
- Sample Results Key
- Fact Sheet on 1,4-Dioxane
- Tabulated Summary of VOC Compounds Tested and Regulatory Standards

May 30, 2013

Jeffrey Carlson
P.O. Box 284
Eastham, MA 02642

RE: **EASTHAM**
Release Tracking Number 4-0024301
Eastham Landfill
Old Orchard Road
Private Drinking Water Well Sampling Results
100 Meetinghouse Road

Dear Mr. Carlson:

The Town of Eastham (Town) and the Massachusetts Department of Environmental Protection (MassDEP) are working together to conduct groundwater investigations near your home in the vicinity of the Eastham Landfill (Landfill). More recent investigatory efforts also involve the United States Environmental Protection Agency, Region 1, Chelmsford Laboratory (US EPA or EPA). The Landfill is a closed, unlined and capped landfill located on Old Orchard Road. As you may know, in November 2012, during routine landfill groundwater monitoring, 1,4-dioxane was detected above MassDEP Groundwater Category GW-1 Groundwater Standards, which are established to be protective of drinking water supplies. The Town proceeded to sample several private drinking water wells downgradient of the Landfill to evaluate whether the private drinking water wells had been affected by the release of 1,4-dioxane. The analytical results from this sampling round indicated that samples from several private drinking water wells contained 1,4-dioxane at concentrations exceeding MassDEP GW-1 Groundwater Standards. The affected residences have been provided with bottled water by the Town of Eastham.

In an effort to evaluate the extent of 1,4-dioxane groundwater contamination, and to ensure the continued protection of public health, the Town sampled more than sixty (60) private wells downgradient of the Eastham Landfill. As you are aware, representatives from the Town/MassDEP and/or the EPA visited your home and obtained a drinking water sample for analytical sampling purposes. The purpose of this letter is to provide you with the analytical results from this sampling effort.

Sampling Activities

Drinking water samples were obtained from your private well on 5/8/13 to determine if your water supply has been impacted by volatile organic compounds (VOCs) including 1,4-dioxane. The samples were submitted to a laboratory for analysis of VOCs and 1,4-dioxane.

As required by the Massachusetts Contingency Plan (MCP – 310 CMR 40.0000), the Town is providing you with the analytical results of the sampling of your private drinking water well and information to assist you in understanding the results.

Sampling Results

The sampling results indicate that 1,4-dioxane was detected in the drinking water sample obtained from your well at a concentration of 1.8. The reported concentration is greater than the most restrictive 0.3 ug/L drinking water guideline and the 1.5 ug/L Bottled Water Action Level. This Action Level of 1.5 ug/L is based on Site-specific conditions evaluated by a qualified risk assessor who has determined that a potential significant risk associated with ingestion may exist at this concentration. The use of bottled water, however, will eliminate this exposure pathway. Given this information, and as a precautionary measure, the Town has already begun providing you with bottled water at the Town's expense. Because 1,4-dioxane does not evaporate easily or absorb through the skin readily, you may continue to use the water for other household activities, including bathing, showering, and washing dishes. A fact sheet with more information about 1,4-dioxane is attached. Other volatile organic compounds (VOC's) tested were also reported as Non-Detect (ND) or at low level concentrations as significantly less than the current regulatory standards.

Please refer to the attached analytical data sheets that specify the compounds that were analyzed in your well and the results of such analysis. Also, a "Sample Results" key and listing of VOC compounds with the applicable MCP Cleanup and drinking water standards is provided to help you interpret the laboratory analytical data.

Potential Additional Sampling

Due to the presence of 1,4-dioxane in your private drinking water well, the Town would like to re-sample your private well on a quarterly basis to evaluate the concentrations of 1,4-dioxane. The Town will contact you to determine a mutually agreeable schedule to continue monitoring your private well. In the meantime, please continue to use bottled water for drinking and cooking.

If you have any questions regarding this matter, please contact me at the letterhead address or by telephone at (508) 255-5900.

Sincerely,
Jane Crowley, MS., RS, Agent
Eastham Health Department

Enclosures:
- BWSC 123 Notice of Environmental Sampling
- Well Testing Analytical Data
- Sample Results Key
- Fact Sheet on 1,4-dioxane
- Tabulated Summary of VOC Compounds Tested and Regulatory Standards

May 31, 2013

Paul Thurston
10 Brownson Terrace
Jamaica Plain, MA 02130

RE: **EASTHAM**
Release Tracking Number 4-0024301
Eastham Landfill
Old Orchard Road
Private Drinking Water Well Sampling Results
45 Chokeberry Drive

Dear Mr. Thurston:

The Town of Eastham (Town) and the Massachusetts Department of Environmental Protection (MassDEP) are working together to conduct groundwater investigations near your home in the vicinity of the Eastham Landfill (Landfill). More recent investigatory efforts also involve the United States Environmental Protection Agency, Region 1, Chelmsford Laboratory (US EPA or EPA). The Landfill is a closed, unlined and capped landfill located on Old Orchard Road. As you may know, in November 2012, during routine landfill groundwater monitoring, 1,4-dioxane was detected above MassDEP Groundwater Category GW-1 Groundwater Standards, which are established to be protective of drinking water supplies. The Town proceeded to sample several private drinking water wells downgradient of the Landfill to evaluate whether the private drinking water wells had been affected by the release of 1,4-dioxane. The analytical results from this sampling round indicated that samples from several private drinking water wells contained 1,4-dioxane at concentrations exceeding MassDEP GW-1 Groundwater Standards. The affected residences have been provided with bottled water by the Town of Eastham.

In an effort to evaluate the extent of 1,4-dioxane groundwater contamination, and to ensure the continued protection of public health, the Town sampled more than sixty (60) private wells downgradient of the Eastham Landfill. As you are aware, representatives from the Town/MassDEP and/or the EPA visited your home and obtained a drinking water sample for analytical sampling purposes. The purpose of this letter is to provide you with the analytical results from this sampling effort.

Sampling Activities

Drinking water samples were obtained from your private well on 5/9/13 and 5/16/13 to determine if your water supply has been impacted by volatile organic compounds (VOCs) including 1,4-dioxane. The samples were submitted to a laboratory for analysis of VOCs and 1,4-dioxane.

As required by the Massachusetts Contingency Plan (MCP – 310 CMR 40.0000), the Town is providing you with the analytical results of the sampling of your private drinking water well and information to assist you in understanding the results.

Sampling Results

The sampling results indicate that 1, 4 Dioxane was detected in the drinking water sample obtained from your well at a concentration of 0.11J. The reported concentration is less than the most restrictive 0.3 ug/L drinking water guideline and the 1.5 ug/L Bottled Water Action Level. Other volatile organic compounds (VOC's) tested were also reported as Non-Detect (ND) or at low level concentrations as significantly less than the current regulatory standards. Therefore you may continue to use your water for drinking and all other household uses.

Please refer to the attached analytical data sheets that specify the compounds that were analyzed in your well and the results of such analysis. Also, a "Sample Results" key and listing of VOC compounds with the applicable MCP Cleanup and drinking water standards is provided to help you interpret the laboratory analytical data. The Town may contact you in the future to sample your well again, as needed.

If you have any questions regarding this matter, please contact me at the letterhead address or by telephone at (508) 255-5900.

Sincerely,
Jane Crowley, MS., RS, Agent
Eastham Health Department

Enclosures: BWSC 123 Notice of Environmental Sampling
Well Testing Analytical Data
Sample Results Key
Fact Sheet on 1,4-dioxane
Tabulated Summary of VOC Compounds Tested and Regulatory Standards

May 31, 2013

David and Sharon Preusch
19 Woodcrest Avenue
Trumbull, CT 06611

RE: **EASTHAM**
Release Tracking Number 4-0024301
Eastham Landfill
Old Orchard Road
Private Drinking Water Well Sampling Results
400 Schoolhouse Road

Dear Mr. and Mrs. Preusch:

The Town of Eastham (Town) and the Massachusetts Department of Environmental Protection (MassDEP) are working together to conduct groundwater investigations near your home in the vicinity of the Eastham Landfill (Landfill). More recent investigatory efforts also involve the United States Environmental Protection Agency, Region 1, Chelmsford Laboratory (US EPA or EPA). The Landfill is a closed, unlined and capped landfill located on Old Orchard Road. As you may know, in November 2012, during routine landfill groundwater monitoring, 1,4-dioxane was detected above MassDEP Groundwater Category GW-1 Groundwater Standards, which are established to be protective of drinking water supplies. The Town proceeded to sample several private drinking water wells downgradient of the Landfill to evaluate whether the private drinking water wells had been affected by the release of 1,4-dioxane. The analytical results from this sampling round indicated that samples from several private drinking water wells contained 1,4-dioxane at concentrations exceeding MassDEP GW-1 Groundwater Standards. The affected residences have been provided with bottled water by the Town of Eastham.

In an effort to evaluate the extent of 1,4-dioxane groundwater contamination, and to ensure the continued protection of public health, the Town sampled more than sixty (60) private wells downgradient of the Eastham Landfill. As you are aware, representatives from the Town/MassDEP and/or the EPA visited your home and obtained a drinking water sample for analytical sampling purposes. The purpose of this letter is to provide you with the analytical results from this sampling effort.

Sampling Activities

Drinking water samples were obtained from your private well on 5/9/13 and 5/16/13 to determine if your water supply has been impacted by volatile organic compounds (VOCs) including 1,4-dioxane. The samples were submitted to a laboratory for analysis of VOCs and 1,4-dioxane.

As required by the Massachusetts Contingency Plan (MCP – 310 CMR 40.0000), the Town is providing you with the analytical results of the sampling of your private drinking water well and information to assist you in understanding the results.

Sampling Results

Sampling results show that 1, 4 Dioxane is ***not present*** in the drinking water sample obtained from your drinking water well at the lowest concentration that the laboratory method is capable of detecting (the method detection limit or MDL). Other volatile organic compounds (VOC's) tested were also reported as Non-Detect (ND) or at low level concentrations as significantly less than the current regulatory standards. Therefore you may continue to your water for drinking and all other household uses.

Please refer to the attached analytical data sheets that specify the compounds that were analyzed in your well and the results of such analysis. Also, a "Sample Results" key and listing of VOC compounds with the applicable MCP Cleanup and drinking water standards is provided to help you interpret the laboratory analytical data. The Town may contact you in the future to sample your well again, as needed.

If you have any questions regarding this matter, please contact me at the letterhead address or by telephone at (508) 255-5900.

Sincerely,
Jane Crowley, MS., RS, Agent
Eastham Health Department

Enclosures:
BWSC 123 Notice of Environmental Sampling
Well Testing Analytical Data
Sample Results Key
Fact Sheet on 1,4-dioxane
Tabulated Summary of VOC Compounds Tested and Regulatory Standards

Client Sample Results (EXAMPLE)

Date sample collected & date received at lab

Sample ID # generated by the Lab

RL – Reporting Limit – the lowest concentration which the laboratory can report without estimating (see MDL definition below).

Client Sample ID: Your Address Here

Lab Sample ID: 480-32873-4

Date Collected: 02/11/13 10:35

Date Received: 02/13/13 01:10

Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND		0.50	0.081	ug/L			02/14/13 14:10	1
N-Propylbenzene	ND		0.50	0.057	ug/L			02/14/13 14:10	1
o-Xylene	ND		0.50	0.044	ug/L			02/14/13 14:10	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			02/14/13 14:10	1
Styrene	ND		0.50	0.044	ug/L			02/14/13 14:10	1
t-Butanol	ND		10	2.5	ug/L			02/14/13 14:10	1
tert-Butylbenzene	ND		0.50	0.060	ug/L				
Tetrachloroethene	ND		0.50	0.067	ug/L				
Toluene	ND		0.50	0.10	ug/L				
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L				
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L				
Trichloroethene	ND		0.50	0.060	ug/L				
Trichlorofluoromethane	ND		0.50	0.044	ug/L				
Vinyl chloride	ND		0.50	0.059	ug/L			02/14/13 14:10	1
Xylenes, Total	ND		1.0	0.20	ug/L			02/14/13 14:10	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			02/14/13 14:10	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			02/14/13 14:10	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			02/14/13 14:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*02/14/13 14:10*	*1*
1,2-Dichlorobenzene-d4	*104*		*80 - 120*		*02/14/13 14:10*	*1*

Analyte - These are the chemicals analyzed.

MDL – Method Detection Limit - the lowest concentration that the laboratory is capable of detecting. Note that values reported under "Results" column that are between the RL and the MDL are estimated values and denoted with a "J" under the "Qualifier" column.

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		02/13/13 17:26	02/14/13 15:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*76*		*70 - 130*	*02/13/13 17:26*	*02/14/13 15:02*	*1*

Level of 1,4-Dioxane in your well (µg/L)
ND = not detected

These are Quality Assurance/Quality Control measures to ensure that the laboratory equipment is working correctly and reporting accurate values for the chemicals analyzed. These are **NOT** actual results from your well.

Date & time sample was analyzed at lab

Commonwealth of Massachusetts
Executive Office of Energy & Environmental Affairs

Department of Environmental Protection
One Winter Street Boston, MA 02108 • 617-292-5500

DEVAL L. PATRICK
Governor

TIMOTHY P. MURRAY
Lieutenant Governor

RICHARD K. SULLIVAN JR.
Secretary

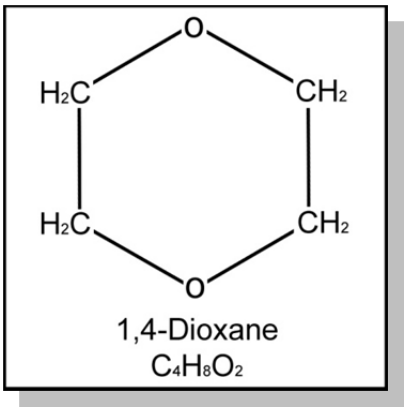
KENNETH L. KIMMELL
Commissioner

1,4-Dioxane in Drinking Water

What is 1,4-Dioxane?

1,4-Dioxane ($C_4H_8O_2$) is a clear liquid used primarily as a solvent in the manufacture of chemicals. It is also used as a laboratory reagent, in adhesives, and it may also be present in small amounts in cosmetics and consumer products such as detergents and shampoos. 1,4-Dioxane dissolves and moves quickly in groundwater.

[Note: 1,4-dioxane is not the same as “dioxin,” which is a very different type of chemical.]



How Might I be Exposed?

People can be exposed to 1,4-dioxane by drinking contaminated water or using it to make beverages such as tea, coffee or formula. The amount of 1,4-dioxane absorbed through the skin during showering and bathing is not significant, although children may be incidentally exposed by ingesting water during bathing. Showering is not generally an exposure pathway of concern because 1,4-dioxane does not readily evaporate from water.

What Are The Health Effects of 1,4-Dioxane?

The possible health effects of 1,4-dioxane depend on the levels in water and the length of time someone is exposed to it. Scientific studies suggest that people exposed to elevated levels of 1,4-dioxane may have an increased risk of certain cancers. In several laboratory studies, high doses of 1,4-dioxane given to animals over long periods of time have caused liver and nasal cancers.

There are also non-cancer health effects associated with exposure to 1,4-dioxane. Very high levels of 1,4-dioxane can affect the nervous system, causing loss of coordination, dizziness and headache. These high levels can also cause liver and kidney damage. The guideline set to protect against cancer effects is low, and thus protects against the non-cancer effects as well.

What Is the Drinking Water Limit for 1,4-Dioxane?

MassDEP sets health-protective standards and guidelines for chemicals in drinking water. In 2011, MassDEP set a state drinking water guideline for 1,4-dioxane of 0.3 µg/L (micrograms per liter, sometimes described as parts-per-billion, or 'ppb'). This guideline is set to protect against cancer risk and is also protective against possible noncancer health effects.

What Is The Basis For The Drinking Water Guideline?

Drinking water guidelines are calculated using the US EPA's chemical-specific toxicity information, in this case for 1,4-dioxane. The guidelines include an adult consumption of 2 liters per day of contaminated water throughout a 70-year lifetime. For carcinogens, the guidelines are based on a cancer risk of one in one million from a lifetime exposure. This low risk limit used for setting guidelines for individual chemicals helps to ensure that mixtures of chemicals in drinking water will not exceed health protective limits (total risk from mixtures of one in a hundred thousand).

What is the Cleanup Requirement for Groundwater?

The MassDEP cleanup standard for 1,4-dioxane in groundwater that may be a source of drinking water (category GW-1) is currently 3 µg/L. This GW-1 standard is being revised to be consistent with the drinking water guideline of 0.3 µg/L.

As an alternative to the GW-1 standard, the cleanup may be based on site-specific health risk. Using this method, the health risk from all chemicals present in the groundwater would be assessed, and the cleanup requirement would be based on a total site risk limit of one in a hundred thousand. If 1,4-dioxane were the only contaminant present at a site, the cleanup goal would be 5 µg/L in the groundwater.

What Can I Do to Protect My Family from 1,4-Dioxane?

If you have concerns about the levels of 1,4-Dioxane in your drinking water, you may want to consider switching to drinking bottled water until your tap water meets the MassDEP's health-protective drinking water guideline.

Parameter	Reporting Units	GW1	GW2	RCGW1	RCGW2	DW MMCL
Volatiles by 524.2						
1,1,1,2-Tetrachloroethane	ug/l	5	10	5	10	NA
1,1,1-Trichloroethane	ug/l	200	4000	200	4000	200
1,1,2,2-Tetrachloroethane	ug/l	2	9	2	9	NA
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/l	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	ug/l	5	900	5	900	5
1,1-Dichloroethane	ug/l	70	1000	70	1000	NA
1,1-Dichloroethene	ug/l	7	80	7	80	7
1,1-Dichloropropene	ug/l	NA	NA	NA	NA	NA
1,2,3-Trichlorobenzene	ug/l	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	ug/l	NA	NA	1000	10000	NA
1,2,4-Trichlorobenzene	ug/l	70	2000	70	2000	70
1,2,4-Trimethylbenzene	ug/l	NA	NA	10000	100000	NA
1,2-Dibromo-3-Chloropropane	ug/l	NA	NA	100	1000	0.2
1,2-Dibromoethane	ug/l	0.02	2	0.02	2	0.02
1,2-Dichlorobenzene	ug/l	600	2000	600	2000	600
1,2-Dichloroethane	ug/l	5	5	5	5	5
1,2-Dichloropropane	ug/l	5	3	3	3	5
1,3,5-Trimethylbenzene	ug/l	NA	NA	100	1000	NA
1,3-Dichlorobenzene	ug/l	40	2000	40	2000	NA
1,3-Dichloropropane	ug/l	NA	NA	5000	50000	NA
1,4-Dichlorobenzene	ug/l	5	200	5	200	5
2,2-Dichloropropane	ug/l	NA	NA	NA	NA	NA
2-Butanone (MEK)	ug/l	4000	50000	4000	50000	NA
2-Chlorotoluene	ug/l	NA	NA	1000	10000	NA
4-Chlorotoluene	ug/l	NA	NA	NA	NA	NA
4-Isopropyltoluene	ug/l	NA	NA	1000	10000	NA
4-Methyl-2-pentanone (MIBK)	ug/l	350	50000	350	50000	NA
Acetone	ug/l	6300	50000	6300	50000	NA
Benzene	ug/l	5	2000	5	2000	5
Bromobenzene	ug/l	NA	NA	1000	10000	NA
Bromochloromethane	ug/l	NA	NA	NA	NA	NA
Bromoform	ug/l	4	700	4	700	NA
Bromomethane	ug/l	10	7	7	7	NA
Carbon tetrachloride	ug/l	5	2	2	2	5
Chlorobenzene	ug/l	100	200	100	200	100
Chlorodibromomethane	ug/l	2	20	2	20	NA
Chloroethane	ug/l	NA	NA	1000	10000	NA
Chloroform	ug/l	70	50	50	50	NA
Chloromethane	ug/l	NA	NA	1000	10000	NA
cis-1,2-Dichloroethene	ug/l	70	100	70	100	NA
cis-1,3-Dichloropropene	ug/l	NA	NA	0.5	5	NA
Dibromomethane	ug/l	NA	NA	5000	50000	NA
Dichlorobromomethane	ug/l	3	6	3	6	NA
Dichlorodifluoromethane	ug/l	NA	NA	10000	100000	NA
Ethylbenzene	ug/l	700	20000	700	5000	700
Hexachlorobutadiene	ug/l	0.6	1	0.6	1	NA
Isopropylbenzene	ug/l	NA	NA	10000	100000	NA
Methyl tert-butyl ether	ug/l	70	50000	70	5000	NA
Methylene Chloride	ug/l	5	10000	5	10000	5
m-Xylene & p-Xylene	ug/l	10000	9000	5000	5000	NA
Naphthalene	ug/l	140	1000	140	1000	NA
n-Butylbenzene	ug/l	NA	NA	NA	NA	NA
N-Propylbenzene	ug/l	NA	NA	1000	10000	NA
o-Xylene	ug/l	10000	9000	5000	5000	NA
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA
Styrene	ug/l	100	100	100	100	100
t-Butanol	ug/l	NA	NA	NA	NA	NA
tert-Butylbenzene	ug/l	NA	NA	1000	10000	NA
Tetrachloroethene	ug/l	5	50	5	50	5
Toluene	ug/l	1000	50000	1000	40000	1000
trans-1,2-Dichloroethene	ug/l	100	90	90	90	100
trans-1,3-Dichloropropene	ug/l	NA	NA	0.5	5	NA
Trichloroethene	ug/l	5	30	5	30	5
Trichlorofluoromethane	ug/l	NA	NA	10000	100000	NA
Trihalomethanes, Total	ug/l	NA	NA	NA	NA	NA
Vinyl chloride	ug/l	2	2	2	2	2
Xylenes, Total	ug/l	10000	9000	5000	5000	NA
Semivolatiles by 522 MOD						
1,4-Dioxane	ug/l	3	6000	3	6000	NA

Notes:
ug/l - micrograms/liter
* - LCS or LCSD exceeds the control limits
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
GW1 - Concentrations based on the use of groundwater as drinking water, either currently or in the foreseeable future.
GW2 - Concentrations based on the potential for volatile material to migrate into indoor air.
GW3 - Concentrations based on the potential environmental effects resulting from contaminated groundwater discharging to surface water.
RC - Risk Characterization approach, Standards may be supplemented or modified with site- and chemical-specific information.
UCL - Upper Concentration Limits in groundwater and soil are promulgated to minimize potential risks associated with uncontrolled environmental contamination, and the costs associated with cumulative anthropogenic contributions to background.

TestAmerica's TotalAccess, is our online data management tool. Features include, a cross-tab view displaying each analyte
as a row across sample columns, an intuitive analyte trending tool, auto-fill search functions and exports data into Excel, while keeping its original format.
Other features include a redesign and simplification in selecting regulatory limits, Work Order and Results page layout redesign, and available data columns in the Results and Budgets pages.
The regulatory comparison tool allows users to compare their analytical data against a number of regulatory compound lists and associated limits.
This feature now encompasses over 786 regulatory lists from 34 States and the U.S. EPA, covering 91,529 individual analyte comparison limits.
The benefits of TotalAccess are offered free of charge to all TestAmerica clients, Clients can sign up for TotalAccess
on the TestAmerica home page at www.testamericainc.com.

More information @ http://www.mass.gov/dep/cleanup/laws/standard.htm

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

☐ ☐

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

1. Street Address: _____

City/Town: _____ Zip Code: _____

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

1. Name: _____

2. Street Address: _____

City/Town: _____ Zip Code: _____

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: _____

City/Town: _____ Zip Code: _____

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.

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

Contact Name: _____

Street Address: _____

City/Town: _____ Zip Code: _____

Telephone: _____ Email: _____

NOTICE OF ENVIRONMENTAL SAMPLING

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

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

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

THE PERSON(S) PROVIDING THIS NOTICE

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

PURPOSE OF THIS NOTICE

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

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

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

FOR MORE INFORMATION

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

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC105

IMMEDIATE RESPONSE ACTION (IRA) TRANSMITTAL FORM

Pursuant to 310 CMR 40.0424 - 40.0427 (Subpart D)

Release Tracking Number: 4 - 24301

A. RELEASE OR THREAT OF RELEASE LOCATION:

1. Release Name/Location Aid: EASTHAM LANDFILL

2. Street Address: OLD ORCHARD ROAD

3. City/Town: EASTHAM 4. ZIP Code:

5. UTM Coordinates: a. UTM N: 4633094 b. UTM E: 418653

☐ 6. Check here if a Tier Classification Submittal has been provided to DEP for this disposal site.
☐ a. Tier IA ☐ b. Tier IB ☐ c. Tier IC ☐ d. Tier II

☑ 7. Check here if this location is Adequately Regulated, pursuant to 310 CMR 40.0110-0114. Specify Program (check one):
☐ a. CERCLA ☐ b. HSWA Corrective Action ☑ c. Solid Waste Management
☐ d. RCRA State Program (21C Facilities)

B. THIS FORM IS BEING USED TO: (check all that apply)

1. List Submittal Date of Initial IRA Written Plan (if previously submitted): 1/11/2013 (mm/dd/yyyy)

☐ 2. Submit an **Initial IRA Plan**.

☐ 3. Submit a **Modified IRA Plan** of a previously submitted written IRA Plan.

☑ 4. Submit an **Imminent Hazard Evaluation**. (check one)
☐ a. An Imminent Hazard exists in connection with this Release or Threat of Release.
☐ b. An Imminent Hazard does not exist in connection with this Release or Threat of Release.
☑ c. It is unknown whether an Imminent Hazard exists in connection with this Release or Threat of Release, and further assessment activities will be undertaken.
☐ d. It is unknown whether an Imminent Hazard exists in connection with this Release or Threat of Release. However, response actions will address those conditions that could pose an Imminent Hazard.

☐ 5. Submit a request to **Terminate an Active Remedial System or Response Action(s) Taken to Address an Imminent Hazard**.

☑ 6. Submit an **IRA Status Report**.

☑ 7. Submit a **Remedial Monitoring Report**. (This report can only be submitted through eDEP.)
a. Type of Report: (check one) ☐ i. Initial Report ☑ ii. Interim Report ☐ iii. Final Report
b. Frequency of Submittal: (check all that apply)
☐ i. A Remedial Monitoring Report(s) submitted monthly to address an Imminent Hazard.
☐ ii. A Remedial Monitoring Report(s) submitted monthly to address a Condition of Substantial Release Migration.
☑ iii. A Remedial Monitoring Report(s) submitted concurrent with a IRA Status Report.
c. Number of Remedial Systems and/or Monitoring Programs: 1

A separate BWSC105A, IRA Remedial Monitoring Report, must be filled out for each Remedial System and/or Monitoring Program addressed by this transmittal form.

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC105

IMMEDIATE RESPONSE ACTION (IRA) TRANSMITTAL FORM Pursuant to 310 CMR 40.0424 - 40.0427 (Subpart D)

Release Tracking Number
4 - 24301

B. THIS FORM IS BEING USED TO (cont.): (check all that apply)

☐ 8. Submit an **IRA Completion Statement.**

☐ a. Check here if future response actions addressing this Release or Threat of Release notification condition will be conducted as part of the Response Actions planned or ongoing at a Site that has already been Tier Classified under a different Release Tracking Number (RTN). When linking RTNs, rescoring via the NRS is required if there is a reasonable likelihood that the addition of the new RTN(s) would change the classification of the site.

b. Provide Release Tracking Number of Tier Classified Site (Primary RTN): ☐ - ☐

These additional response actions must occur according to the deadlines applicable to the Primary RTN. Use the Primary RTN when making all future submittals for the site unless specifically relating to this Immediate Response Action.

☐ 9. Submit a **Revised IRA Completion Statement.**

(All sections of this transmittal form must be filled out unless otherwise noted above)

C. RELEASE OR THREAT OF RELEASE CONDITIONS THAT WARRANT IRA:

1. Identify Media Impacted and Receptors Affected: (check all that apply)

☐ a. Air ☐ b. Basement ☑ c. Critical Exposure Pathway ☑ d. Groundwater ☑ e. Residence

☐ f. Paved Surface ☑ g. Private Well ☐ h. Public Water Supply ☐ i. School ☐ j. Sediments

☐ k. Soil ☐ l. Storm Drain ☐ m. Surface Water ☐ n. Unknown ☐ o. Wetland ☐ p. Zone 2

☐ q. Others Specify: _____

2. Identify Oils and Hazardous Materials Released: (check all that apply)

☐ a. Oils ☐ b. Chlorinated Solvents ☐ c. Heavy Metals

☑ d. Others Specify: **1,4-DIOXANE**

D. DESCRIPTION OF RESPONSE ACTIONS: (check all that apply, for volumes list cumulative amounts)

☑ 1. Assessment and/or Monitoring Only
☐ 2. Temporary Covers or Caps
☐ 3. Deployment of Absorbent or Containment Materials
☑ 4. Temporary Water Supplies
☐ 5. Structure Venting System
☐ 6. Temporary Evacuation or Relocation of Residents
☐ 7. Product or NAPL Recovery
☐ 8. Fencing and Sign Posting
☐ 9. Groundwater Treatment Systems
☐ 10. Soil Vapor Extraction
☐ 11. Bioremediation
☐ 12. Air Sparging

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC105

IMMEDIATE RESPONSE ACTION (IRA) TRANSMITTAL FORM Pursuant to 310 CMR 40.0424 - 40.0427 (Subpart D)

Release Tracking Number: 4 - 24301

D. DESCRIPTION OF RESPONSE ACTIONS (cont.): (check all that apply, for volumes list cumulative amounts)

☐ 13. Excavation of Contaminated Soils

☐ a. Re-use, Recycling or Treatment ☐ i. On Site Estimated volume in cubic yards _____

☐ ii. Off Site Estimated volume in cubic yards _____

iia. Receiving Facility: _____ Town: _____ State: _____

iib. Receiving Facility: _____ Town: _____ State: _____

iii. Describe: _____

☐ b. Store ☐ i. On Site Estimated volume in cubic yards _____

☐ ii. Off Site Estimated volume in cubic yards _____

iia. Receiving Facility: _____ Town: _____ State: _____

iib. Receiving Facility: _____ Town: _____ State: _____

☐ c. Landfill

☐ i. Cover Estimated volume in cubic yards _____

Receiving Facility: _____ Town: _____ State: _____

☐ ii. Disposal Estimated volume in cubic yards _____

Receiving Facility: _____ Town: _____ State: _____

☐ 14. Removal of Drums, Tanks or Containers:

a. Describe Quantity and Amount: _____

b. Receiving Facility: _____ Town: _____ State: _____

c. Receiving Facility: _____ Town: _____ State: _____

☐ 15. Removal of Other Contaminated Media:

a. Specify Type and Volume: _____

b. Receiving Facility: _____ Town: _____ State: _____

c. Receiving Facility: _____ Town: _____ State: _____

☑ 16. Other Response Actions:

Describe: **POTABLE WATER TREATMENT SYSTEM. SAMPLING OF POTABLE WELLS AND MONITORING**

☐ 17. Use of Innovative Technologies:

Describe: _____

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC105

IMMEDIATE RESPONSE ACTION (IRA) TRANSMITTAL FORM Pursuant to 310 CMR 40.0424 - 40.0427 (Subpart D)

Release Tracking Number
4 - 24301

E. LSP SIGNATURE AND STAMP:

I attest under the pains and penalties of perjury that I have personally examined and am familiar with this transmittal form, including any and all documents accompanying this submittal. In my professional opinion and judgment based upon application of (i) the standard of care in 309 CMR 4.02(1), (ii) the applicable provisions of 309 CMR 4.02(2) and (3), and 309 CMR 4.03(2), and (iii) the provisions of 309 CMR 4.03(3), to the best of my knowledge, information and belief,

> *if Section B of this form indicates that an* ***Immediate Response Action Plan*** *is being submitted*, the response action(s) that is(are) the subject of this submittal (i) has (have) been developed in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is(are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000 and (iii) complies(y) with the identified provisions of all orders, permits, and approvals identified in this submittal;

> *if Section B of this form indicates that an* ***Imminent Hazard Evaluation*** *is being submitted*, this Imminent Hazard Evaluation was developed in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, and the assessment activity(ies) undertaken to support this Imminent Hazard Evaluation comply(ies) with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000;

> *if Section B of this form indicates that an* ***Immediate Response Action Status Report*** *and/or a* ***Remedial Monitoring Report*** *is(are) being submitted*, the response action(s) that is (are) the subject of this submittal (i) is (are) being implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000 and (iii) comply(ies) with the identified provisions of all orders, permits, and approvals identified in this submittal;

> *if Section B of this form indicates that an* ***Immediate Response Action Completion Statement*** *or a request to* ***Terminate an Active Remedial System or Response Action(s) Taken to Address an Imminent Hazard*** *is being submitted*, the response action(s) that is(are) the subject of this submittal (i) has (have) been developed and implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is(are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000 and (iii) comply(ies) with the identified provisions of all orders, permits, and approvals identified in this submittal.

I am aware that significant penalties may result, including, but not limited to, possible fines and imprisonment, if I submit information which I know to be false, inaccurate or materially incomplete.

1. LSP #: 4303

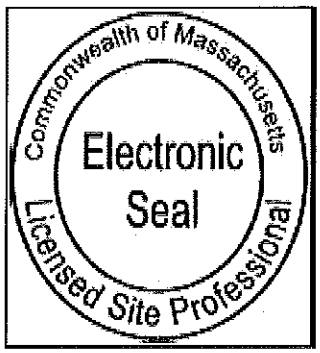
2. First Name: DAVID C 3. Last Name: BENNETT

4. Telephone: 5088961706 5. Ext.: 6. FAX:

7. Signature: David C Bennett

8. Date: 7/3/2013 (mm/dd/yyyy)

9. LSP Stamp:



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC105

Release Tracking Number
4 - 24301

IMMEDIATE RESPONSE ACTION (IRA) TRANSMITTAL FORM

Pursuant to 310 CMR 40.0424 - 40.0427 (Subpart D)

F. PERSON UNDERTAKING IRA:

1. Check all that apply: ☑ a. change in contact name ☐ b. change of address ☐ c. change in the person undertaking response actions

2. Name of Organization: EASTHAM TOWN OF

3. Contact First Name: SHELIA 4. Last Name: VANDERHOEF

5. Street: 2500 STATE HIGHWAY 6. Title: TOWN ADMINISTRATOR

7. City/Town: EASTHAM 8. State: MA 9. ZIP Code: 026420000

10. Telephone: 5082405900 11. Ext.: 12. FAX:

G. RELATIONSHIP TO RELEASE OR THREAT OF RELEASE OF PERSON UNDERTAKING IRA:

☑ 1. RP or PRP ☐ a. Owner ☐ b. Operator ☐ c. Generator ☐ d. Transporter

☑ e. Other RP or PRP Specify: NON-SPECIFIED PRP

☐ 2. Fiduciary, Secured Lender or Municipality with Exempt Status (as defined by M.G.L. c. 21E, s. 2)

☐ 3. Agency or Public Utility on a Right of Way (as defined by M.G.L. c. 21E, s. 5(j))

☐ 4. Any Other Person Undertaking IRA Specify Relationship: _____

H. REQUIRED ATTACHMENT AND SUBMITTALS:

☐ 1. Check here if any Remediation Waste, generated as a result of this IRA, will be stored, treated, managed, recycled or reused at the site following submission of the IRA Completion Statement. If this box is checked, you must submit one of the following plans, along with the appropriate transmittal form.

☐ a. A Release Abatement Measure (RAM) Plan (BWSC106) ☐ b. Phase IV Remedy Implementation Plan (BWSC108)

☐ 2. Check here if the Response Action(s) on which this opinion is based, if any, are (were) subject to any order(s), permit(s) and/or approval(s) issued by DEP or EPA. If the box is checked, you MUST attach a statement identifying the applicable provisions thereof.

☑ 3. Check here to certify that the Chief Municipal Officer and the Local Board of Health were notified of the implementation of an Immediate Response Action taken to control, prevent, abate or eliminate an Imminent Hazard.

☐ 4. Check here to certify that the Chief Municipal Officer and the Local Board of Health were notified of the submittal of a Completion Statement for an Immediate Response Action taken to control, prevent, abate or eliminate an Imminent Hazard.

☐ 5. Check here if any non-updatable information provided on this form is incorrect, e.g. Release Address/Location Aid. Send corrections to the DEP Regional Office.

☑ 6. Check here to certify that the LSP Opinion containing the material facts, data, and other information is attached.

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC105

IMMEDIATE RESPONSE ACTION (IRA) TRANSMITTAL FORM

Pursuant to 310 CMR 40.0424 - 40.0427 (Subpart D)

Release Tracking Number: 4 - 24301

I. CERTIFICATION OF PERSON UNDERTAKING IRA:

1. I, **Sheila Vanderhoef**, attest under the pains and penalties of perjury (i) that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this transmittal form, (ii) that, based on my inquiry of those individuals immediately responsible for obtaining the information, the material information contained in this submittal is, to the best of my knowledge and belief, true, accurate and complete, and (iii) that I am fully authorized to make this attestation on behalf of the entity legally responsible for this submittal. I/the person or entity on whose behalf this submittal is made am/is aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate, or incomplete information.

2. By: **Sheila Vanderhoef** (Signature) 3. Title: **TOWN ADMINISTRATOR**

4. For: **EASTHAM TOWN OF** (Name of person or entity recorded in Section F) 5. Date: **7/3/2013** (mm/dd/yyyy)

☐ 6. Check here if the address of the person providing certification is different from address recorded in Section F.

7. Street: _____

8. City/Town: _____ 9. State: _____ 10. ZIP Code: _____

11. Telephone: _____ 12. Ext.: _____ 13. FAX: _____

YOU ARE SUBJECT TO AN ANNUAL COMPLIANCE ASSURANCE FEE OF UP TO $10,000 PER BILLABLE YEAR FOR THIS DISPOSAL SITE. YOU MUST LEGIBLY COMPLETE ALL RELEVANT SECTIONS OF THIS FORM OR DEP MAY RETURN THE DOCUMENT AS INCOMPLETE. IF YOU SUBMIT AN INCOMPLETE FORM, YOU MAY BE PENALIZED FOR MISSING A REQUIRED DEADLINE.

Date Stamp (DEP USE ONLY:)

Received by DEP on

7/3/2013 4:33:59 PM

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC105A

IRA REMEDIAL MONITORING REPORT

Pursuant to 310 CMR 40.0400 (SUBPART D)

Release Tracking Number: 4 - 24301

Remedial System or Monitoring Program: 1 of: 1

A. DESCRIPTION OF ACTIVE REMEDIAL SYSTEM OR ACTIVE REMEDIAL MONITORING PROGRAM:

1. Type of Active Remedial System or Active Remedial Monitoring Program: (check all that apply)

- [x] a. Active Remedial System: (check all that apply)
  - [ ] i. NAPL Recovery
  - [ ] ii. Soil Vapor Extraction/Bioventing
  - [ ] iii. Vapor-phase Carbon Adsorption
  - [ ] iv. Groundwater Recovery
  - [ ] v. Dual/Multi-phase Extraction
  - [x] vi. Aqueous-phase Carbon Adsorption
  - [ ] vii. Air Stripping
  - [ ] viii. Sparging/Biosparging
  - [ ] ix. Cat/Thermal Oxidation
  - [ ] x. Other Describe:
- [ ] b. Application of Remedial Additives: (check all that apply)
  - [ ] i. To the Subsurface
  - [ ] ii. To Groundwater (Injection)
  - [ ] iii. To the Surface
- [ ] c. Active Remedial Monitoring Program Without the Application of Remedial Additives: (check all that apply; Sections C, D and E are not required; attach supporting information, data, maps and/or sketches needed by checking Section F5)
  - [ ] i. Reactive Wall
  - [ ] ii. Natural Attenuation
  - [ ] iii. Other Describe:

2. Mode of Operation: (check one)

- [x] a. Continuous
- [ ] b. Intermittent
- [ ] c. Pulsed
- [ ] d. One-time Event Only
- [ ] e. Other:

3. System Effluent/Discharge: (check all that apply)

- [ ] a. Sanitary Sewer/POTW
- [ ] b. Groundwater Re-infiltration/Re-injection: (check one) [ ] i. Downgradient [ ] ii. Upgradient
- [ ] c. Vapor-phase Discharge to Ambient Air: (check one) [ ] i. Off-gas Controls [ ] ii. No Off-gas Controls
- [x] d. Drinking Water Supply
- [ ] e. Surface Water (including Storm Drains)
- [ ] f. Other Describe:

B. MONITORING FREQUENCY:

1. Reporting period that is the subject of this submittal: From: 3/22/2013 (mm/dd/yyyy) To: 5/29/2013 (mm/dd/yyyy)

2. Number of monitoring events during the reporting period: (check one)

- [ ] a. System Startup: (if applicable)
  - [ ] i. Days 1, 3, 6, and then weekly thereafter, for the first month.
  - [ ] ii. Other Describe:
- [x] b. Post-system Startup (after first month) or Monitoring Program:
  - [x] i. Monthly
  - [ ] ii. Quarterly
  - [ ] iii. Other Describe:

[x] 3. Check here to certify that the number of required monitoring events were conducted during the reporting period.

C. EFFLUENT/DISCHARGE REGULATION: (check one to indicate how the effluent/discharge limits were established)

- [ ] 1. NPDES: (check one) [ ] a. Remediation General Permit [ ] b. Individual Permit [ ] c. Emergency Exclusion Effective Date of Permit: (mm/dd/yyyy)
- [ ] 2. MCP Performance Standard MCP Citations(s):
- [x] 3. DEP Approval Letter Date of Letter: 1/30/2013 (mm/dd/yyyy)
- [ ] 4. Other Describe:

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC105A

IRA REMEDIAL MONITORING REPORT

Pursuant to 310 CMR 40.0400 (SUBPART D)

Remedial System or Monitoring Program: 1 of: 1

Release Tracking Number: 4 - 24301

D. WASTEWATER TREATMENT PLANT OPERATOR: (check one)

☐ 1. Required due to Remedial Wastewater Treatment Plant in place for more than 30 days.
a. Name: b. Grade:
c. License No.: d. License Exp. Date: (mm/dd/yyyy)

☐ 2. Not Required

☑ 3. Not Applicable

E. STATUS OF ACTIVE REMEDIAL SYSTEM OR ACTIVE REMEDIAL MONITORING PROGRAM DURING REPORTING PERIOD: (check all that apply)

☑ 1. The Active Remedial System was functional one or more days during the Reporting Period.
a. Days System was Fully Functional: 69 b. GW Recovered (gals):
c. NAPL Recovered (gals): d. GW Discharged (gals): 1190
e. Avg. Soil Gas Recovery Rate (scfm): f. Avg. Sparging Rate (scfm) :

☐ 2. Remedial Additives: (check all that apply)

☐ a. No Remedial Additives applied during the Reporting Period.

☐ b. Enhanced Bioremediation Additives applied: (total quantity applied at the site for the current reporting period)

☐ i. Nitrogen/Phosphorus:

Name of Additive	Date	Quantity	Units

☐ ii. Peroxides:

Name of Additive	Date	Quantity	Units

☐ iii. Microorganisms:

Name of Additive	Date	Quantity	Units

☐ iv. Other:

Name of Additive	Date	Quantity	Units

☐ c. Chemical oxidation/reduction additives applied: (total quantity applied at the site for the current reporting period)

☐ i. Permanganates:

Name of Additive	Date	Quantity	Units

☐ ii. Peroxides:

Name of Additive	Date	Quantity	Units

☐ iii. Persulfates:

Name of Additive	Date	Quantity	Units

☐ iv. Other:

Name of Additive	Date	Quantity	Units

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC105B

Release Tracking Number
4 - 24301

IRA REMEDIAL MONITORING REPORT
EFFLUENT/DISCHARGE CONCENTRATIONS

Pursuant to 310 CMR 40.0400 (SUBPART D)

Remedial System or Monitoring Program: 1 of: 1

For each Point of Measurement, indicate the highest concentration detected during the reporting period, of each oil, hazardous material and/or remedial additive.

Point of Measurement	Date (mm/dd/yyyy)	Contaminant, Measurement and/or Indicator Parameter	Influent Concentraion (where applicable)	Midpoint Concentration (where applicable)	(check one) ☑ Discharge ☐ Groundwater Concentration	Check here, if ND/BDL	Permissible Concentration	Units	Within Permissible Limits? (Y/N)
RES-30	4/29/2013	1,4-DIOXANE	9.8	0.2		☑	3.0	UG/L	Yes
RES-30	5/29/2013	1,4-DIOXANE	7.8	0.2		☑	3.0	UG/L	Yes
						☐			
						☐			
						☐			
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						☐		MG/KG	
						☐			
						☐			

☐ Check here if an additional BWSC105B, Effluent/Discharge Concentrations Form, is needed.

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC105A

IRA REMEDIAL MONITORING REPORT

Pursuant to 310 CMR 40.0400 (SUBPART D)

Release Tracking Number: 4 - 24301

Remedial System or Monitoring Program: 1 of: 1

E. STATUS OF ACTIVE REMEDIAL SYSTEM OR ACTIVE REMEDIAL MONITORING PROGRAM DURING REPORTING PERIOD: (cont.) (check all that apply)

☐ d. Other additives applied: (total quantity applied at the site for the current reporting period)

Name of Additive	Date	Quantity	Units

Name of Additive	Date	Quantity	Units

☐ e. Check here if any additional Remedial Additives were applied. Attach list of additional additives and include Name of Additive, Date Applied, Quantity Applied and Units (in gals. or lbs.)

F. SHUTDOWNS OF ACTIVE REMEDIAL SYSTEM OR ACTIVE REMEDIAL MONITORING PROGRAM: (check all that apply)

☐ 1. The Active Remedial System had unscheduled shutdowns on one or more occasions during the Reporting Period.

a. Number of Unscheduled Shutdowns: _____ b. Total Number of Days of Unscheduled Shutdowns: _____

c. Reason(s) for Unscheduled Shutdowns: _____

☐ 2. The Active Remedial System had scheduled shutdowns on one or more occasions during the Reporting Period.

a. Number of Scheduled Shutdowns: _____ b. Total Number of Days of Scheduled Shutdowns: _____

c. Reason(s) for Scheduled Shutdowns: _____

☐ 3. The Active Remedial System or Active Remedial Monitoring Program was permanently shutdown/discontinued during the Reporting Period.

a. Date of Final System or Monitoring Program Shutdown: _____ (mm/dd/yyyy)

☐ b. No Further Effluent Discharges.

☐ c. No Further Application of Remedial Additives planned; sufficient monitoring completed to demonstrate compliance with 310 CMR 40.0046.

☐ d. No Further Submittals Planned.

☐ e. Other: Describe: _____

G. SUMMARY STATEMENTS: (check all that apply for the current reporting period)

☑ 1. All Active Remedial System checks and effluent analyses required by the approved plan and/or permit were performed when applicable.

☑ 2. There were no significant problems or prolonged (>25% of reporting period) unscheduled shutdowns of the Active Remedial System.

☑ 3. The Active Remedial System or Active Remedial Monitoring Program operated in conformance with the MCP, and all applicable approval conditions and/or permits.

4. Indicate any Operational Problems or Notes:

☐ 5. Check here if additional/supporting Information, data, maps, and/or sketches are attached to the form.

Receipt

Forms → Attach Files → Signature → Receipt

Summary/Receipt

print receipt Exit

Your submission is complete. Thank you for using DEP's online reporting system. You can select "My eDEP" to see a list of your transactions.

DEP Transaction ID: 569240
Date and Time Submitted: 7/3/2013 4:33:59 PM
Other Email :

Form Name: BWSC105 Immediate Response Action Transmittal Form

RTN: 4-24301
Location: EASTHAM LANDFILL
Address: OLD ORCHARD ROAD, EASTHAM,

Person Making Submittal
EASTHAM TOWN OF
SHELIA VANDERHOEF
2500 STATE HIGHWAY
EASTHAM, MA 026420000

LSP
LSP #: 4303
LSP Name: DAVID C BENNETT

Person Making Certification
EASTHAM TOWN OF
Sheila Vanderhoef
BWSC Remedial Monitoring Report ( )
BWSC Remedial Monitoring Report B( )

Ancillary Document Uploaded/Mailed
BWSC-105 Q.B04 - Imminent Hazard Evaluation Doc - Uploaded (IHE reference.pdf)
BWSC-105 Q.B06 - IRA Status Report - Uploaded (IRAS II.pdf)

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Integrated Site Investigation Solutions

Cost Proposal for Environmental Field Services at Eastham, MA

A PROPOSAL FOR BENNET ENVIRONMENTAL

JUNE 3, 2013

Waterloo APS™
ADVANCED PROFILING SYSTEM

CORE DFN™
DISCRETE FRACTURE NETWORK APPROACH

platform
ENVIRONMENTAL DRILLING AND REMEDIATION SERVICES

MObiLab™
DEFENSIBLE REAL-TIME ANALYTICS

Prepared by:

STONE ENVIRONMENTAL INC

535 Stone Cutters Way
Montpelier, VT
05602 USA

Phone / 802.229.4541
Fax / 802.229.5417
Web Site / www.stone-env.com

1

Introduction

Stone Environmental, Inc. (Stone) is pleased to present this cost proposal to Bennet Environmental for environmental field services in support of Bennet Environmental's investigation of the Site. Stone has been providing sampling and analytical services to the environmental consulting community since 1993 and is considered to be the premier firm in the U.S.A for assisting with high resolution site characterizations.

Stone's integrated site investigations solutions are provided through a series of steps that are designed to offer the project team the best chance for success. These include:

1) Upfront and thorough project planning that starts with a dialogue between Stone and the project team to understand the specific needs of the given project.

2) A clear and well thought out plan for which tool sets should be deployed and the staging of the procedures as to streamline the course of investigation and maximize its efficiency.

3) Implement work strategy which includes sampling and analyses and the smooth transferal and/or presentation of the data to the project team.

4) Post project data delivery.

To learn more about our capabilities and available resources, please go to our website http://www.stone-env.com. The last page of this cost proposal also gives a brief description of our field services and their benefits.

The following page presents the anticipated costs for the described scope of work. Our assumptions and the terms and conditions for this work are also listed on this page.

Stone Environmental, Inc. Field Services Quote

Client Name: Bennet Environmental

Project: Bennet Eastham, MA
Project No. P13-093

Date: 6/3/2013

Scope of Work:

Mob/Demob: Mobilize/demobilize one Waterloo$^{APS\ TM}$ data acquistion truck with operator and two direct push drill rigs with two operators and one assistant from Montpelier, VT to Eastham, MA.

Waterloo$^{APS\ TM}$: Perform Waterloo$^{APS\ TM}$ services at 4 locations to an average depth of approximately 250 feet Below Ground Surface (BGS). Approximately 20 groundwater samples will be collected at each location. Index of Hydraulic Conductivity (I_k) logs will be collected continuously throughout these explorations. Depth to water is assumed to be approximately 45 feet BGS. Stone estimates that the Waterloo$^{APS\ TM}$ work will require 12 days to complete and the work will be completed in two five-day events followed by one two-day event with weekend breaks in between. The productivity is based on the assumption that the Geoprobe drill rig is readily available to push or pull the profiling tooling and only the higher K portions of the aquifer will be targeted for sampling. Data deliverables for the Waterloo$^{APS\ TM}$ services include tabulated physicochemical and Index of Hydraulic Conductivity (Ik) data and plots of these data at each of the 4 locations.

Drilling: Stone will utilize both a 7822 Geoprobe and an 8040 Geoprobe to reach the target depth of 250 fbgs. Closed casing will be set to the first depth of inteded profile sampling. The profiling tool will then be tripped into the casing and direct pushed to the point of refusal, at which point the profiling tooling will be retracted. An open drive and wash technique will then be used to advance casing to the point of refusal, which for cost estimation purposes is assumed to be at approximately 160 fbgs. The profiling tooling will then be tripped back into the casing and direct pushed again, Stone is assuming that another refusal will occur at approximately 220 fbgs and the tool will need to be retracted and the casing advanced a third time. Stone feels this is a conservative approach, based on boring logs from other direct push work that has been conducted on site, refusal may not occur twice. It is estimateed that approximately 100 gallons of liquid waste will be produced for the drive and wash casing advancement per 50 feet.

Well Installation: Each well installation will require two days, unless wells are installed in the profiled location, in which significantly less time will be required for the well installs.

Health & Safety: Stone will work under Bennet Environmental's Site Specific Health and Safety Plan. Daily morning tailgate health and safety meetings will be conducted by Bennet Environmental or Stone field team leader.

Subproj	Phase	ITEM	RATE PER UNIT	UNITS	AMOUNT	SUBTOTAL
Drilling Services - Geoprobe 7822						
	PLT	1.1 Mobilization/Demobilization	$1.96 / mi	608	$1,192	
		1.2 Decon Area Setup/Removal	$291 / ls	0	$0	
		1.3 DOT Down Day	$653 / day	0	$0	
		2.1 Geoprobe Drilling	$2,090 / day	12	$25,078	
		2.2 Overtime (over 10 hrs/day)	$258 / hr	0	$0	
		2.3 Weekend Travel	$855 / weekend	2	$1,710	
		2.5 Consumables and grouting equipment	$200 / day	12	$2,400	
		2.6 Project Management	$82 / day	12	$980	
		2.7 Standby	$1,033 / day	0	$0	
		Subtotal				**$31,359**
Drilling Services - Geoprobe 8040						
	PLT	1.1 Mobilization/Demobilization	$1.96 / mi	608	$1,192	
		1.3 DOT Down Day	$653 / day	0	$0	
		3.1 Geoprobe Drilling	$3,287 / day	20	$65,732	
		3.2 Overtime (over 10 hrs/day)	$370 / hr	0	$0	
		3.3 Weekend Travel	$943 / weekend	3	$2,829	
		3.4 Well Installation Consumables	$842 / well	4	$3,368	
		3.5 Project Management	$82 / day	20	$1,640	
		3.6 Standby	$1,033 / day	0	$0	
		Subtotal				**$74,761**
Waterloo^{APS} Services						
	APS	1.1 Mobilization/Demobilization	$1,760 / ls	1	$1,760	
		1.2 DOT Down Day	$730 / day	0	$0	
		2.1 Waterloo Profiling	$2,300 / day	12	$27,600	
		2.2 Overtime (over 10 hrs/day)	$300 / hour	0	$0	
		2.3 Weekend Travel	$943 / weekend	2	$1,886	
		2.4 Data Management	$115 / day	12	$1,385	
		2.5 Project Management	$116 / day	12	$1,394	
		2.6 Standby	$1,110 / day	0	$0	
		Subtotal				**$34,024**
		Project Total				**$140,144**

TERMS OF QUOTE

1. Refusal will be determined by STONE. If the CLIENT wishes to continue, any broken tooling will be charged to the CLIENT
2. "Dig Safe" and other utility clearances will be accomplished by others.
3. Work days are 10 hrs from arrival on site to departure from site. Hours over 10 per day will be billed at the rates shown above. Stone policy forbids work days in excess of 12-hours unless authorized by Stone management.
4. DOT Mandated down days are presented above; they assume 10 hr work days and factor in travel times specific to the project. If project schedule changes are necessary (i.e. overtime hours or Saturday work), DOT down day requirements may change.
5. Access to all drill sites with rubber-tired trucks is unimpeded or will be provided by others. All sites will be workable level. Suitability of access is at the sole discretion of STONE.
6. Potable water for use during the project will be made available on site for use by STONE at no charge.
7. It is assumed that explorations will take place in natural soils. No drilling through man-made or man-placed materials is anticipated or required.
8. Management and disposal of investigation derived waste will be performed by others. This waste includes spent environmental samples. If Stone is of posession of these samples at the end of the project, Stone will discard these samples within 30 and 120 days of the end of the project for groundwater and soil samples, resepectively.
9. It is understood that the property owner will allow STONE to leave our equipment on site overnight while on this project, in a safe and secure area of their choice.
10. Unless otherwise noted in the scope of work delineated above, there are no provisions nor any costs included for the restoration of any property which may be damaged due to the drilling operation; i.e., lawns, shrubs, sidewalks, etc.
11. All waste materials, e.g., empty cement or bentonite bags, empty bentonite pails, and other waste products generated will be disposed of on site in a refuse vessel provided by others, or will be neatly consolidated at one area on site at no cost to STONE.
12. Acquisition of any permits which may be required are the responsibility of others.
13. This Quote is valid for 60 days from the date indicated above.

STONE ENVIRONMENTAL INC

Integrated Site Investigation Solutions

Stone Environmental, Inc. (Stone) provides rapid-adaptive, high-resolution site characterization field service solutions to environmental consultants, companies, and government agencies. Our solutions consist of powerful, specialized technologies and techniques that enable site investigators to more effectively meet their clients' environmental challenges.

Stone provides vertical groundwater profiling services (Waterloo$^{APS\ TM}$), NELAP-accredited onsite laboratory services (MobiLab^{TM}), characterization of rock environments via the discrete fracture network approach (CORE$^{DFN\ TM}$), membrane interface probe (MIP) surveys, direct push technology (DPT) services, data management, and 2-D and 3-D visualization support.

Services

Waterloo Advanced Profiling System

The Waterloo$^{APS\ TM}$ is a subsurface data acquisition system that collects both groundwater samples and an integrated set of companion data in a single, continuous direct push. Uniquely offered by Stone, the Waterloo^{APS} is a proprietary modification of the original Waterloo Profiler developed by Dr. John Cherry's research team at the University of Waterloo.

The Waterloo^{APS} is the premier tool for groundwater profiling because of its short vertical sampling interval and unique dual screen sampling port design. It captures with pinpoint accuracy the significant changes in contaminant concentrations that can occur in just centimeters, while reliably providing defensible quality groundwater samples.

MobiLab

Stone's MobiLab^{TM} is a NELAP-accredited onsite analytical service that provides near-real-time, definitive, field-based analysis of volatile organic compounds (VOCs) in groundwater, soil, and soil gas media. We generate, manage, and present fully defensible analytical chemistry data onsite, offering the subsurface investigation and remediation community a timely and extremely reliable product.

CORE Discrete Fracture Network Approach

CORE$^{DFN\ TM}$ is a unique solution for investigating contamination in fractured, porous bedrock aquifers. Developed by Professor Beth Parker and her research team, CORE^{DFN} includes specialized techniques for sampling, rapidly extracting, and analyzing contaminants present within the rock matrix to assess the effects of diffusion of contaminants from fractures into the porous rock matrix and subsequently back out of the matrix and into the groundwater in the fractures.

Membrane Interface Probe

The MIP is a rapid screening tool for locating VOCs in the subsurface. Invented and manufactured by Geoprobe Systems®, the MIP collects real-time, vertically continuous data on the distribution of VOCs as well as subsurface electrical conductance.

Platform Environmental Drilling and Remediation Services

Platform^{TM} specializes in direct push and rotary drilling methods and remedial system construction services, as well as the use of the membrane interface probe. Our services include continuous or discrete soil coring, discrete groundwater sampling, and hydrostratigraphic profiling.

Contact

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Waterloo APS™ ADVANCED PROFILING SYSTEM

MobiLab™ DEFENSIBLE REAL-TIME ANALYTICS

CORE DFN™ DISCRETE FRACTURE NETWORK APPROACH

platform ENVIRONMENTAL DRILLING AND REMEDIATION SERVICES

APPENDIX D

							5	20	50	50	50	50	50	50	50	65	80	85	100	130	135	150	155	185	200	215
						Sample ID	ACORN	ALSTON	ALSTON	ALSTON	ALSTON	ALSTON	ALSTON	ALSTON	ALSTON	ALSTON	ALSTON	ALSTON	ALSTON	ALSTON	ALSTON	ALSTON	ALSTON	ALSTON	ALSTON	ALSTON
						Sampled By			RES-35	DUP, RES-35	FINAL EFF. RES-35	RAW, RES-35	RES-35	RES-35	RES-35											
						Sample Collection Date	05/03/2013 10:15	02/22/2013 12:35	02/14/2013 11:10	02/14/2013 11:10	03/04/2013 09:45	03/04/2013 10:15	03/14/2013 11:55	05/01/2013 14:50	05/29/2013 14:30	02/19/2013 12:30	02/11/2013 10:35	02/12/2013 10:10	02/11/2013 10:15	02/19/2013 09:50	02/11/2013 10:55	02/15/2013 09:35	02/11/2013 09:15	02/14/2013 09:50	05/01/2013 10:55	02/12/2013 09:20
						Laboratory Order Number	480-37650-15	480-33420-1	480-33096-16	480-33096-39	480-33846-1	480-33846-2	480-34449-3	480-37443-27	480-39233-11	480-33247-4	480-32873-4	480-32875-5	480-32873-3	480-33247-2	480-32873-5	480-33096-17	480-32873-1	480-33096-13	480-37443-20	480-32875-1
Parameter	**Reporting Units**	**GW1**	**GW2**	**RCGW1**	**RCGW2**	**DW MMCL**																				
Volatiles by 524.2																										
1,1,1,2-Tetrachloroethane	ug/l	5	10	5	10	NA	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1,1-Trichloroethane	ug/l	200	4000	200	4000	200	0.13J	< 0.50	< 0.50		< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1,2,2-Tetrachloroethane	ug/l	2	9	2	9	NA	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1,2-Trichloroethane	ug/l	5	900	5	900	5	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1-Dichloroethane	ug/l	70	1000	70	1000	NA	< 0.50	< 0.50	0.24J		0.27J	0.25J		0.28J	0.25J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1-Dichloroethene	ug/l	7	80	7	80	7	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1-Dichloropropene	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2,3-Trichlorobenzene	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2,3-Trichloropropane	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2,4-Trichlorobenzene	ug/l	70	2000	70	2000	70	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2,4-Trimethylbenzene	ug/l	NA	NA	10000	100000	NA	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dibromo-3-Chloropropane	ug/l	NA	NA	100	1000	0.2	**< 0.50**	**< 0.50**	**< 0.50**		**< 0.50**	**< 0.50**		**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**
1,2-Dibromoethane	ug/l	0.02	2	0.02	2	0.02	**< 0.50**	**< 0.50**	**< 0.50**		**< 0.50**	**< 0.50**		**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**
1,2-Dichlorobenzene	ug/l	600	2000	600	2000	600	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichloroethane	ug/l	5	5	5	5	5	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichloropropane	ug/l	5	3	3	3	5	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,3,5-Trimethylbenzene	ug/l	NA	NA	100	1000	NA	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,3-Dichlorobenzene	ug/l	40	2000	40	2000	NA	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,3-Dichloropropane	ug/l	NA	NA	5000	50000	NA	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,4-Dichlorobenzene	ug/l	5	200	5	200	5	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,2-Dichloropropane	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Butanone (MEK)	ug/l	4000	50000	4000	50000	NA	< 2.5	< 2.5	< 2.5		16	16		< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
2-Chlorotoluene	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Chlorotoluene	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Isopropyltoluene	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Methyl-2-pentanone (MIBK)	ug/l	350	50000	350	50000	NA	< 2.5	< 2.5	< 2.5		< 2.5	< 2.5		< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
Acetone	ug/l	6300	50000	6300	50000	NA	< 2.5	< 2.5	< 2.5		8.4	7.5		< 2.5	< 2.5	< 2.5	< 2.5	1.2J	< 2.5	< 2.5	0.60J	< 2.5	< 2.5	< 2.5	< 2.5	1.5J
Benzene	ug/l	5	2000	5	2000	5	< 0.50	< 0.50	0.40J		< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromobenzene	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromochloromethane	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromoform	ug/l	4	700	4	700	NA	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromomethane	ug/l	10	7	7	7	NA	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Carbon tetrachloride	ug/l	5	2	2	2	5	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chlorobenzene	ug/l	100	200	100	200	100	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chlorodibromomethane	ug/l	2	20	2	20	NA	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chloroethane	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	0.24J		< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chloroform	ug/l	70	50	50	50	NA	0.68	< 0.50	0.17J		0.37J	0.33J		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.15J	< 0.50
Chloromethane	ug/l	NA	NA	1000	10000	NA	< 0.50	0.095J	< 0.50		< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.081J	< 0.50	0.13J
cis-1,2-Dichloroethene	ug/l	70	100	70	100	NA	< 0.50	< 0.50	0.74		< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
cis-1,3-Dichloropropene	ug/l	NA	NA	0.5	5	NA	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dibromomethane	ug/l	NA	NA	5000	50000	NA	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dichlorobromomethane	ug/l	3	6	3	6	NA	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dichlorodifluoromethane	ug/l	NA	NA	10000	100000	NA	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Ethylbenzene	ug/l	700	20000	700	5000	700	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachlorobutadiene	ug/l	0.6	1	0.6	1	NA	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Isopropylbenzene	ug/l	NA	NA	10000	100000	NA	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Methyl tert-butyl ether	ug/l	70	50000	70	5000	NA	< 0.50	< 0.50	0.84		< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	1.7	0.31J	< 0.50	< 0.50	0.26J	< 0.50	< 0.50	0.56	< 0.50	< 0.50
Methylene Chloride	ug/l	5	10000	5	10000	5	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
m-Xylene & p-Xylene	ug/l	10000	9000	5000	5000	NA	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene	ug/l	140	1000	140	1000	NA	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
n-Butylbenzene	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
N-Propylbenzene	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
o-Xylene	ug/l	10000	9000	5000	5000	NA	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Styrene	ug/l	100	100	100	100	100	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
t-Butanol	ug/l	NA	NA	NA	NA	NA	< 10	< 10	5.1J		< 10	< 10		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
tert-Butylbenzene	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Tetrachloroethene	ug/l	5	50	5	50	5	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Toluene	ug/l	1000	50000	1000	40000	1000	< 0.50	< 0.50	< 0.50		3.8	1.5		0.14J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
trans-1,2-Dichloroethene	ug/l	100	90	90	90	100	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
trans-1,3-Dichloropropene	ug/l	NA	NA	0.5	5	NA	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Trichloroethene	ug/l	5	30	5	30	5	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Trichlorofluoromethane	ug/l	NA	NA	10000	100000	NA	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Trihalomethanes, Total	ug/l	NA	NA	NA	NA	NA	< 2.0	< 2.0	< 2.0		< 2.0	< 2.0		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Vinyl chloride	ug/l	2	2	2	2	2	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Xylenes, Total	ug/l	10000	9000	5000	5000	NA	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Semivolatiles by 522 MOD																										
1,4-Dioxane	ug/l	3	6000	3	6000	NA	0.042J	0.18J	**5.1**	**5.0**	0.23	0.23	0.20	0.18J	0.20	0.099J	< 0.20	0.20	< 0.20	< 0.20	0.11J	< 0.20	< 0.20	< 0.20	0.21	< 0.20

Notes:
ug/l - micrograms/liter
* - LCS or LCSD exceeds the control limits
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
GW1 - Concentrations based on the use of groundwater as drinking water, either currently or in the foreseeable future.
GW2 - Concentrations based on the potential for volatile material to migrate into indoor air.
GW3 - Concentrations based on the potential environmental effects resulting from contaminated groundwater discharging to surface water.
RC - Risk Characterization approach, Standards may be supplemented or modified with site- and chemical-specific information.
UCL - Upper Concentration Limits in groundwater and soil are promulgated to minimize potential risks associated with uncontrolled environmental contamination, and the costs associated with cumulative anthropogenic contributions to background.

TestAmerica's TotalAccess, is our online data management tool. Features include, a cross-tab view displaying each analyte
as a row across sample columns, an intuitive analyte trending tool, auto-fill search functions and exports data into Excel, while keeping its original format.
Other features include a redesign and simplification in selecting regulatory limits, Work Order and Results page layout redesign, and available data columns in the Results and Budgets pages.
The regulatory comparison tool allows users to compare their analytical data against a number of regulatory compound lists and associated limits.
This feature now encompasses over 786 regulatory lists from 34 States and the U.S. EPA, covering 91,529 individual analyte comparison limits.
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More information @ http://www.mass.gov/dep/cleanup/laws/standard.htm

225	255	255	255	255	265	270	275	275	280	285	285	285	10	5	60	20	50	70	100	145	150	200	250	280
ALSTON	ALSTON	ALSTON	ALSTON	ALSTON	ALSTON	ALSTON	ALSTON	ALSTON	ALSTON	ALSTON	ALSTON	ALSTON	ALSTON COURT	BAYVIEW	BRIGGS FIELD	CANDLEWOOD	CANDLEWOOD	CANDLEWOOD	CANDLEWOOD	CANDLEWOOD	CANDLEWOOD	CANDLEWOOD	CANDLEWOOD	CANDLEWOOD
	RES-40	DUP, RES-40	RES-40	DUP, RES-40	RES-18		RES-37	DUP, RES-37	RES-16	RES-20	DUP, RES-20	RES-20												
04/29/2013 12:45	02/14/2013 09:20	02/14/2013 09:20	05/06/2013 14:15	05/06/2013 14:15	03/14/2013 11:05	02/11/2013 11:30	05/16/2013 10:25	05/16/2013 10:25	02/22/2013 11:10	02/22/2013 10:35	02/22/2013 10:35	05/08/2013 13:10	02/14/2013 10:15	02/25/2013 09:20	05/01/2013 15:35	05/29/2013 17:00	05/03/2013 11:10	05/03/2013 09:15	05/03/2013 12:10	05/02/2013 15:50	05/02/2013 10:02	05/08/2013 13:50	05/07/2013 14:15	05/06/2013 13:35
480-37261-7	480-33096-11	480-33096-34	480-37809-19	480-37809-20	480-34449-4	480-32873-6	480-38608-5	480-38608-6	480-33420-5	480-33420-7	480-33420-8	480-38025-11	480-33096-14	480-33543-1	480-37443-14	480-39233-17	480-37650-6	480-37650-2	480-37650-8	480-37649-31	480-37649-14	480-38025-21	480-37941-15	480-37809-11
< 0.50	< 0.50					< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50				See BCHED G-1271902 (12/6/12)	< 0.50	< 0.50	< 0.50	See BCHED G-1271902 (12/10/12)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50					< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50					< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50					< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
0.099J	0.11J					< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50					< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50					< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50					< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50					< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50					< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50					< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	**< 0.50**					**< 0.50**	**< 0.50**	**< 0.50**		**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**
< 0.50	**< 0.50**					**< 0.50**	**< 0.50**	**< 0.50**		**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**
< 0.50	< 0.50					< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50					< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50					< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50					< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50					< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50					< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 2.5	< 2.5					< 2.5	< 2.5	< 2.5		< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
< 0.50	< 0.50					< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50					< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50					< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 2.5	< 2.5					< 2.5	< 2.5	< 2.5		< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
< 2.5	0.67J					0.64J	0.56J	1.1J		< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	1.0J	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
< 0.50	< 0.50					< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50					< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50					< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50					< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50					< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50					< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
0.23J	0.88					< 0.50	0.75	0.72		0.59	0.55	0.47J	< 0.50	0.19J	< 0.50	< 0.50	0.36J	0.47J	0.39J	0.89	< 0.50	0.49J	0.63	0.74
< 0.50	< 0.50					< 0.50	< 0.50	< 0.50		0.29J	< 0.50	< 0.50	< 0.50	0.20J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
0.23J	0.36J					< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50					< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50					< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50					< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
0.11J	< 0.50					< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50					< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50					< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50					< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	0.19J					< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50					< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 1.0	< 1.0					< 1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
< 0.50	< 0.50					< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50					< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50					< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50					< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 10	< 10					< 10	< 10	< 10		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
< 0.50	< 0.50					< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50					< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50					< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50					< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50					< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50					< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 2.0	< 2.0					< 2.0	< 2.0	< 2.0		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
0.075J	< 0.50					< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 1.0	< 1.0					< 1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1.2	1.9	1.8	1.8	1.5	0.055J	< 0.20	1.3	0.99	< 0.20	0.37	0.33	0.35	< 0.20	< 0.20	< 0.20	0.056J	0.092J	0.073J	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20

310	395	10	20	35	45	50	55	75	80	90	30	60	80	30	35	40	45	45	50	250, 290, 320 Old Orch 167,169 Mtghs	250, 290, 320 Old Orch 167,169 Mtghs	250, 290, 320 Old Orch 167,169 Mtghs	10	15
CANDLEWOOD	CANDLEWOOD	CESTARO	CESTARO	CESTARO	CESTARO	CESTARO	CESTARO	CESTARO	CESTARO	CESTARO	CHIPMAN	CHIPMAN	CHIPMAN	CHOKEBERRY	CHOKEBERRY	CHOKEBERRY	CHOKEBERRY	CHOKEBERRY	CHOKEBERRY	COMMUNITY WELL	COMMUNITY WELL	COMMUNITY WELL	DEERFIELD	DEERFIELD
																				RES-2	RES-2	RES-2		
04/30/2013 13:05	05/08/2013 14:15	04/30/2013 10:55	05/02/2013 15:05	04/30/2013 11:35	05/02/2013 14:15	05/06/2013 11:15	05/02/2013 09:35	05/06/2013 12:00	02/21/2013 10:00	05/02/2013 10:55	02/11/2013 09:55	04/30/2013 09:15	02/15/2013 11:55	05/07/2013 12:05	05/03/2013 09:15	05/02/2013 11:55	05/09/2013 12:05	05/16/2013 12:15	05/10/2013 13:00	02/15/2013 11:30	05/09/2013 13:30	05/16/2013 13:35	05/01/2013 11:40	04/30/2013 15:15
480-37444-8	480-38025-23	480-37444-20	480-37649-26	480-37444-22	480-37649-24	480-37809-5	480-37649-2	480-37809-15	480-33420-25	480-37649-16	480-32873-2	480-37444-16	480-33096-24	480-37941-9	480-37650-13	480-37649-8	480-38132-13	480-38608-11	480-38213-7	480-33096-23	480-38132-7	480-38608-15	480-37443-22	480-37444-28
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50
< 0.50	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**		**< 0.50**	**< 0.50**	**< 0.50**		**< 0.50**	**< 0.50**
< 0.50	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**		**< 0.50**	**< 0.50**	**< 0.50**		**< 0.50**	**< 0.50**
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50
< 2.5	< 2.5	< 2.5	< 2.5	0.64J	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5		< 2.5	< 2.5	< 2.5		< 2.5	< 2.5
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50
< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5		< 2.5	< 2.5	< 2.5		< 2.5	< 2.5
< 2.5	0.60J B	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	1.0J *	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5		1.2J	< 2.5	< 2.5		< 2.5	< 2.5
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50
0.51	0.61	0.56	0.53	< 0.50	0.79	0.63	0.46J	0.68	0.58	0.66	0.17J	0.25J	1.6	0.27J	< 0.50	0.38J	0.58		0.16J	0.38J	0.25J		< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.11J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	0.099J	< 0.50		0.080J	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.39J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50
< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10		< 10	< 10
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50
< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	1.6J	< 2.0	< 2.0	< 2.0	< 2.0		< 2.0	< 2.0	< 2.0		< 2.0	< 2.0
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50
< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0		< 1.0	< 1.0

0.060J	< 0.20	0.11J	< 0.20	< 0.20	< 0.20	0.077J	< 0.20	< 0.20	0.061J	< 0.20	0.14J	0.29	0.047J	0.17J	0.050J	0.069J		0.11J	0.058J	< 0.20		0.068J	0.052J	< 0.20

20	35	40	45	50	55	60	65	70	80	105	20	25	3	4	5	7	7	9	11	11	11	11	11	11
DEERFIELD	DEERFIELD	DEERFIELD	DEERFIELD	DEERFIELD	DEERFIELD	DEERFIELD	DEERFIELD	DEERFIELD	DEERFIELD	DEERFIELD	DUCK MARSH	DUCK MARSH	ELDIA	ELDIA	ELDIA	ELDIA	ELDIA	ELDIA	ELDIA	ELDIA	ELDIA	ELDIA	ELDIA	ELDIA
								(70B)											RES-34	DUP, RES-34	RES-34	DUP, RES-34	RES-34	DUP, RES-34
05/08/2013 09:35	02/25/2013 07:50	05/01/2013 10:00	05/02/2013 15:50	05/03/2013 10:10	04/29/2013 10:05	05/06/2013 12:40	05/06/2013 12:40	05/08/2013 10:20	05/01/2013 09:10	05/08/2013 10:55	04/30/2013 10:55	05/02/2013 12:50	05/03/2013 12:00	05/08/2013 11:35	04/30/2013 11:45	05/10/2013 09:35	05/10/2013 09:35	05/02/2013 12:40	03/14/2013 10:20	03/14/2013 10:20	04/29/2013 14:10	04/29/2013 14:10	05/29/2013 15:25	05/29/2013 15:25
480-38025-1	480-33543-11	480-37443-18	480-37649-28	480-37650-4	480-37261-1	480-37809-9	480-37809-17	480-38025-3	480-37443-16	480-38025-5	480-37444-3	480-37649-20	480-37650-21	480-38025-7	480-37444-5	480-38213-1	480-38608-1	480-37649-10	480-34449-6	480-34449-13	480-37261-9	480-37261-10	480-39233-13	480-39233-14
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	See BCHED		< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	G-1271902		< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	(12/6/12)		< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50			0.20J	0.19J	0.20J	0.20J
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50

17	3	4	5	20	25	35	40	40	50	60	100	20	20	20	65	80	15	25	25	25	25	25	25	30
ELDIA	FAIRVIEW	FAIRVIEW	FAIRVIEW	FAIRVIEW	FAIRVIEW	FAIRVIEW	FAIRVIEW	FAIRVIEW	FAIRVIEW	FAIRVIEW	GLACIER HILLS	GLACIER HILLS	GUERRA	GUERRA	KETTLE HOLE	KETTLE HOLE	KNOWLES	KNOWLES	KNOWLES	KNOWLES	KNOWLES	KNOWLES	KNOWLES	KNOWLES
													59	42				RES-36	DUP, RES-36	RES-36	DUP, RES-36	RES-36	DUP, RES-36	RES-31
05/06/2013 14:25	05/10/2013 11:40	04/29/2013 11:05	02/14/2013 12:30	05/07/2013 13:30	05/07/2013 12:50	05/02/2013 09:00	05/09/2013 12:35	05/16/2013 11:45	05/02/2013 10:25	05/01/2013 13:55	05/08/2013 13:20	02/22/2013 12:15	04/29/2013 11:40	04/29/2013 12:15	04/26/2013 10:20	05/01/2013 11:55	04/26/2013 09:25	02/21/2013 09:00	02/21/2013 09:00	04/26/2013 09:15	04/26/2013 09:15	05/29/2013 10:25	05/29/2013 10:25	02/19/2013 11:30
480-37809-13	480-38213-5	480-37261-5	480-33096-12	480-37941-13	480-37941-11	480-37649-12	480-38132-5	480-38608-9	480-37649-4	480-37443-24	480-38025-19	480-33420-15	480-37261-15	480-37261-17	480-37259-3	480-37443-8	480-37259-2	480-33420-21	480-33420-22	480-37259-1	480-37259-6	480-39233-1	480-39233-2	480-33247-6
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	See Alpha L1301492 (1/13/13)		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

30	30	30	30	30	45	45	50	50	60	70	75	100	100	100	100	125	150	160	165	165	170	171	175	180
KNOWLES	KNOWLES	KNOWLES	KNOWLES	KNOWLES	KNOWLES	KNOWLES	KNOWLES	KNOWLES	KNOWLES	KNOWLES	KNOWLES	MEETINGHOUSE	MEETINGHOUSE	MEETINGHOUSE	MEETINGHOUSE	MEETINGHOUSE	MEETINGHOUSE	MEETINGHOUSE	MEETINGHOUSE	MEETINGHOUSE	MEETINGHOUSE	MEETINGHOUSE	MEETINGHOUSE	MEETINGHOUSE
DUP, RES-31	RES-31	DUP, RES-31	RES-31	DUP, RES-31	RES-32	DUP, RES-32	DUP					RES-8	DUP, RES-8	RES-8	DUP, RES-8	RES-7			RES-4	DUP, RES-4	RES-33	(171B)		
02/19/2013 11:30	04/29/2013 09:30	04/29/2013 09:30	05/29/2013 11:30	05/29/2013 11:30	05/01/2013 10:15	05/01/2013 10:15	02/19/2013 09:15	02/19/2013 09:15	02/21/2013 09:30	02/20/2013 11:00	04/30/2013 09:55	02/14/2013 11:55	02/14/2013 11:55	05/08/2013 13:55	05/08/2013 13:55	05/08/2013 12:25	02/22/2013 11:30	02/12/2013 10:30	02/15/2013 10:10	02/15/2013 10:10	02/15/2013 11:35	05/01/2013 09:25	05/02/2013 11:40	05/01/2013 13:55
480-33247-13	480-37261-11	480-37261-12	480-39233-3	480-39233-4	480-37443-4	480-37443-5	480-33247-8	480-33247-1	480-33420-23	480-33246-1	480-37444-1	480-33096-15	480-33096-38	480-38025-13	480-38025-14	480-38025-9	480-33420-11	480-32875-3	480-33096-18	480-33096-41	480-33096-20	480-37443-2	480-37649-18	480-37443-10
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50				< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		Reported	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50	Refer to BCHED		Refer to BCHED	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		Out of Hold	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50	12/6/2012		12/6/2012	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50				< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50				< 0.50	< 0.50	< 0.50
0.40J	0.36J	0.36J	0.37J	0.36J	0.23J			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50				< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50				< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50				< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50				< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50				< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50				< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50				< 0.50	< 0.50	< 0.50
< 0.50	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**			**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**		**< 0.50**		**< 0.50**	**< 0.50**	**< 0.50**				**< 0.50**	**< 0.50**	**< 0.50**
< 0.50	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**			**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**		**< 0.50**		**< 0.50**	**< 0.50**	**< 0.50**				**< 0.50**	**< 0.50**	**< 0.50**
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50				< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50				< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50				< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50				< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50				< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50				< 0.50	< 0.50	< 0.50
< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5			< 2.5	< 2.5	< 2.5	< 2.5	< 2.5		< 2.5		< 2.5	< 2.5	< 2.5				< 2.5	< 2.5	< 2.5
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50				< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50				< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50				< 0.50	< 0.50	< 0.50
< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5			< 2.5	< 2.5	< 2.5	< 2.5	< 2.5		< 2.5		< 2.5	< 2.5	< 2.5				< 2.5	< 2.5	< 2.5
< 2.5	0.92J	< 2.5	0.86J	1.0J	< 2.5			< 2.5	< 2.5	< 2.5	< 2.5	< 2.5		< 2.5		< 2.5	< 2.5	0.82J				< 2.5	1.5J *	< 2.5
0.34J	0.31J	0.28J	0.31J	0.31J	0.23J			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50				< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50				< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50				< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50				< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50				< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50				< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50				< 0.50	< 0.50	< 0.50
0.35J	< 0.50	0.34J	0.44J	0.43J	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50				< 0.50	< 0.50	< 0.50
0.21J	0.20J	0.18J	0.21J	0.20J	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50	0.42J		0.46J		< 0.50	< 0.50	0.72				0.32J	0.56	0.35J
< 0.50	0.080J	< 0.50	< 0.50	< 0.50	< 0.50			< 0.50	0.084J	< 0.50	< 0.50	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50				< 0.50	< 0.50	< 0.50
1.9	1.8	1.7	1.8	1.8	1.0			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50				< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50				< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50				< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50				< 0.50	< 0.50	< 0.50
0.30J *	0.25J	< 0.50	< 0.50	< 0.50	0.22J			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50				< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50				< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50				< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50				< 0.50	< 0.50	< 0.50
1.1	0.85	0.85	0.79	0.81	0.45J			< 0.50	0.39J	0.15J	< 0.50	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50				0.19J	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50				< 0.50	< 0.50	< 0.50
< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0		< 1.0	< 1.0	< 1.0				< 1.0	< 1.0	< 1.0
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50				< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50				< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50				< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50				< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50				< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50				< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50				< 0.50	< 0.50	< 0.50
< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0			< 2.0	< 2.0	< 2.0	< 2.0	< 2.0		< 2.0		< 2.0	< 2.0	< 2.0				< 2.0	< 2.0	< 2.0
0.16J	0.18J	< 0.50	< 0.50	< 0.50	0.19J			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50		< 0.50	< 0.50	< 0.50				< 0.50	< 0.50	< 0.50
< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0		< 1.0	< 1.0	< 1.0				< 1.0	< 1.0	< 1.0
6.4	6.0	5.2	4.9	5.9B	2.3	2.4	0.23	0.26	0.063J	0.057J	0.075J	1.6	1.5	1.8	1.7	0.15J	< 0.20	< 0.20	0.75	0.67	< 0.20	0.58	< 0.20	< 0.20

185	200	225	255	370	20	30	50	60	25	45	75	80	100	130	130	180	180	210	310	350	370	390	400	50
MEETINGHOUSE	MEETINGHOUSE	MEETINGHOUSE	MEETINGHOUSE	MEETINGHOUSE	MOLLS POND	MOLLS POND	MOLLS POND	MOLLS POND	OLD ORCHARD	OLD ORCHARD	OLD ORCHARD	OLD ORCHARD	OLD ORCHARD	OLD ORCHARD	OLD ORCHARD	OLD ORCHARD	OLD ORCHARD	OLD ORCHARD	OLD ORCHARD	OLD ORCHARD	OLD ORCHARD	OLD ORCHARD	OLD ORCHARD	OLD ORCHARD	PIPER
											RES-13	RES-39	RES-38	130A, RES-9A	130B, RES-9B	RES-1	RES-1	RES-3						
04/30/2013 16:15	05/03/2013 17:00	05/10/2013 10:20	04/26/2013 10:40	04/30/2013 15:05	02/19/2013 10:45	02/15/2013 10:35	02/11/2013 11:50	02/11/2013 12:15	05/06/2013 09:45	02/22/2013 09:30	02/21/2013 11:00	02/12/2013 10:00	02/12/2013 10:50	02/25/2013 10:45	02/25/2013 11:00	02/22/2013 10:00	05/08/2013 14:25	02/15/2013 13:10	04/29/2013 11:55	05/03/2013 11:20	05/02/2013 15:00	05/07/2013 09:30	05/07/2013 10:00	02/20/2013 11:35
480-37444-30	480-37650-19	480-38213-3	480-37259-4	480-37444-12	480-33247-3	480-33096-22	480-32873-7	480-32873-8	480-37809-1	480-33420-9	480-33420-29	480-32875-2	480-32875-6	480-33543-4	480-33543-5	480-33420-3	480-38025-15	480-33096-19	480-37261-3	480-37650-17	480-37649-22	480-37941-1	480-37941-3	480-33246-2
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	See BCHED G1271902 (12/6/12)	< 0.50	< 0.50	< 0.50	See BCHED G1271902-5 (12/6/12)	< 0.50	< 0.50	Refer to BCHED 12/6/2012	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50

4	200	210	230	265	280	300	325	325	325	325	325	325	325	325	325	325	325	325	325	325	325	325	325	325
PRESERVATION	SCHOOLHOUSE	SCHOOLHOUSE	SCHOOLHOUSE	SCHOOLHOUSE	SCHOOLHOUSE	SCHOOLHOUSE	SCHOOLHOUSE	SCHOOLHOUSE	SCHOOLHOUSE	SCHOOLHOUSE	SCHOOLHOUSE	SCHOOLHOUSE	SCHOOLHOUSE	SCHOOLHOUSE	SCHOOLHOUSE	SCHOOLHOUSE	SCHOOLHOUSE	SCHOOLHOUSE	SCHOOLHOUSE	SCHOOLHOUSE	SCHOOLHOUSE	SCHOOLHOUSE	SCHOOLHOUSE	SCHOOLHOUSE
							RAW, RES-30	RAW DUP, RES-30	INT, RES-30	FINAL EFF. RES-30	INT, RES-30	FINAL EFF, RES-30	INT, RES-30	FINAL EFF, RES-30	INT, RES-30	FINAL EFF, RES-30	INF, RES-30	INF DUP, RES-30	INT, RES-30	FINAL EFF, RES-30	RAW, RES-30	RAW DUP, RES-30	INT, RES-30	EFF, RES-30
04/30/2013 14:25	02/12/2013 09:30	05/06/2013 12:10	05/08/2013 15:35	02/21/2013 11:45	02/22/2013 11:50	02/19/2013 10:25	02/22/2013 09:55	02/22/2013 09:55	02/25/2013 11:45	02/25/2013 11:50	03/08/2013 09:35	03/08/2013 09:45	03/14/2013 12:30	03/14/2013 12:40	03/21/2013 10:35	03/21/2013 10:40	04/29/2013 10:15	04/29/2013 10:15	04/29/2013 10:35	04/29/2013 10:50	05/29/2013 12:55	05/29/2013 12:55	05/29/2013 13:05	05/29/2013 13:20
480-37444-26	480-32875-4	480-37809-7	480-38025-17	480-33420-31	480-33420-13	480-33247-5	480-33420-17	480-33420-18	480-33543-7	480-33543-8	480-34120-1	480-34120-2	480-34449-1	480-34449-2	480-35025-1	480-35025-2	480-37261-13	480-37261-14	480-37261-21	480-37261-23	480-39233-5	480-39233-6	480-39233-7	480-39233-9
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50					< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50					< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50					< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50					< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50					< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.49J	0.49J	< 0.50	< 0.50	< 0.50	< 0.50					0.36J	0.37J	< 0.50	< 0.50	0.44J	0.41J	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50					< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50					< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50					< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50					< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50					< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**					**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**
< 0.50	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**					**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50					< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50					< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50					< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50					< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50					< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5					< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50					< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50					< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50					< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5					< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
< 2.5	< 2.5	< 2.5	0.93J B	0.59J	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	0.61J					< 2.5	< 2.5	0.67J	< 2.5	0.68J	< 2.5	1.6J	< 2.5
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.66	0.63	< 0.50	< 0.50	< 0.50	< 0.50					0.57	0.54	< 0.50	< 0.50	0.65	0.58	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50					< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50					< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50					< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50					< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50					< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50					< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50					< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.63	0.59	< 0.50	< 0.50	< 0.50	< 0.50					0.51	0.50	< 0.50	< 0.50	0.51	0.64	< 0.50	< 0.50
0.22J	< 0.50	< 0.50	< 0.50	< 0.50	0.15J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50					< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	0.093J	0.12J	< 0.50	< 0.50	< 0.50	0.23J	< 0.50	< 0.50	< 0.50					< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
0.44J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	2.7	2.7	< 0.50	< 0.50	< 0.50	< 0.50					1.9	2.1	< 0.50	< 0.50	2.4	2.3	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50					< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50					< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50					< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50					< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50					< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50					< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50					< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50					< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50					< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50					< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50					< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50					< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50					< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50					< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50					< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50					< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50					< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50					< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50					< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50					< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50					< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50					< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50					< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50					< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0					< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.30J	0.27J	< 0.50	< 0.50	< 0.50	< 0.50					0.23J	< 0.50	< 0.50	< 0.50	< 0.50	0.27J	< 0.50	< 0.50
< 1.0	< 1.0	< 1.0	0.30J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0					< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
0.21	< 0.20	< 0.20	< 0.20	0.053J	0.071J	0.14J	10	9.7	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	9.8	8.3	< 0.20	< 0.20	7.8	9.8B	< 0.20	< 0.20

345	390	400	400	415	418	425	455	555	555	3	5	10	10	20	35	21	5	5	13	20	30	35	45	45
SCHOOLHOUSE	SCHOOLHOUSE	SCHOOLHOUSE	SCHOOLHOUSE	SCHOOLHOUSE	SCHOOLHOUSE	SCHOOLHOUSE	SCHOOLHOUSE	SCHOOLHOUSE	SCHOOLHOUSE	SELAH	SHARON	SHARON	SHARON	SHARON	SHARON	SMITH	STARLIGHT	STARLIGHT	STARLIGHT	STARLIGHT	STARLIGHT	STARLIGHT	STARLIGHT	STARLIGHT
																	RES-42	DUP, RES-42					RES-41	DUP, RES-41
02/12/2013 12:15	05/07/2013 10:35	05/09/2013 11:30	05/16/2013 11:15	02/25/2013 09:50	05/02/2013 11:05	02/25/2013 10:10	05/06/2013 10:40	05/09/2013 11:45	05/29/2013 16:05	04/30/2013 12:20	05/03/2013 12:50	05/09/2013 14:15	05/16/2013 14:15	04/30/2013 15:45	05/01/2013 14:55	05/09/2013 10:10	02/21/2013 10:30	02/21/2013 10:30	05/10/2013 13:40	05/07/2013 15:00	05/03/2013 12:45	02/15/2013 12:45	02/12/2013 11:40	02/12/2013 11:40
480-32875-8	480-37941-5	480-38132-11	480-38608-7	480-33543-2	480-37649-6	480-33543-3	480-37809-3	480-38132-3	480-39233-15	480-37444-24	480-37650-23	480-38132-9	480-38608-17	480-37444-14	480-37443-12	480-38132-1	480-33420-27	480-33420-28	480-38213-9	480-37941-17	480-37650-10	480-33096-21	480-32875-7	480-32875-17
< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.093J
< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	**< 0.50**	**< 0.50**		**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**		**< 0.50**	**< 0.50**	**< 0.50**		**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**
< 0.50	**< 0.50**	**< 0.50**		**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**		**< 0.50**	**< 0.50**	**< 0.50**		**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**
< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 2.5	< 2.5	< 2.5		< 2.5	< 2.5	< 2.5	< 2.5	< 2.5		< 2.5	< 2.5	< 2.5		< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 2.5	< 2.5	< 2.5		< 2.5	< 2.5	< 2.5	< 2.5	< 2.5		< 2.5	< 2.5	< 2.5		< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
< 2.5	< 2.5	< 2.5		< 2.5	< 2.5	< 2.5	< 2.5	< 2.5		< 2.5	< 2.5	< 2.5		< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	0.62J	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	0.20J	< 0.50		< 0.50	0.22J	< 0.50	0.22J	0.72		0.71	0.17J	0.26J		< 0.50	0.39J	< 0.50	0.73	0.73	0.21J	0.16J	0.59	0.70	0.26J	0.25J
< 0.50	< 0.50	0.071J		0.16J	< 0.50	0.31J	< 0.50	< 0.50		< 0.50	< 0.50	0.084J		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.17J
< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 10	< 10	< 10		< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
< 2.0	< 2.0	< 2.0		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0		< 2.0	< 2.0	< 2.0		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.082J	0.083J
< 1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

0.12J	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20	< 0.20		0.048J	0.072J	< 0.20		0.088J	0.10J	0.34		0.37	0.37	< 0.20	< 0.20	0.21	0.26	1.1	0.93

3460	50	55	10	MEETINGHOUSE	OLD ORCHARD AND STARLIGHT	1	3	3	9
STATE HIGHWAY	SURREY	SURREY	TURTLE POND	VACANT LOT	VACANT LOT	WHIDAH	WHIDAH	WHIDAH	WHIDAH
04/30/2013 14:20	04/30/2013 10:00	05/01/2013 11:05	05/10/2013 17:00	05/10/2013 16:05	05/10/2013 14:45	04/29/2013 13:45	05/09/2013 12:40	05/16/2013 12:50	05/07/2013 11:10
480-37444-10	480-37444-18	480-37443-6	480-38213-15	480-38213-13	480-38213-11	480-37261-19	480-38132-15	480-38608-13	480-37941-7
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50
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< 2.5	< 2.5	< 2.5	0.63J	0.74J	0.79J	< 2.5	< 2.5		< 2.5
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< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50
< 0.50	0.31J	0.28J	0.50	< 0.50	< 0.50	< 0.50	0.38J		< 0.50
< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.099J		< 0.50
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< 0.50	< 0.50	0.26J	< 0.50	0.14J	< 0.50	< 0.50	< 0.50		< 0.50
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< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0
0.10J	0.058J	< 0.20	< 0.20	0.11J	< 0.20	< 0.20		0.071J	< 0.20

Residential Well Designation Key:

RES-1:	180 Old Orchard Road
RES-2:	290 Old Orchard Road
RES-3:	210 Old Orchard Road
RES-4:	165 Meetinghouse Road
RES-6:	155 Meetinghouse Road
RES-7:	125 Meetinghouse Road
RES-8:	100 Meetinghouse Road
RES-9:	130 Old Orchard Road
RES-13:	75 Old Orchard Road
RES-16:	280 Alston Avenue
RES-18:	265 Alston Avenue
RES-20:	285 Alston Avenue
RES-30:	325 Schoolhouse Road
RES-31:	30 Knowles Street
RES-32:	45 Knowles Street
RES-33:	170 Meetinghouse Road
RES-34:	11 Eldia Way
RES-35:	50 Alston Avenue
RES-36:	25 Knowles Street
RES-37:	275 Alston Avenue
RES-38:	100 Old Orchard Road
RES-39:	80 Old Orchard Road
RES-40:	255 Alston Avenue
RES-41:	310 Old Orchard Road
RES-42:	171 Meetinghouse Road
RES-43:	225 Alston Avenue
RES-44:	5 Starlight Avenue
RES-45:	45 Starlight Avenue
RES-46:	35 Sharon Circle

Commonwealth of Massachusetts
Executive Office of Energy & Environmental Affairs

Department of Environmental Protection

Southeast Regional Office • 20 Riverside Drive, Lakeville MA 02347 • 508-946-2700

DEVAL L. PATRICK
Governor

TIMOTHY P. MURRAY
Lieutenant Governor

RICHARD K. SULLIVAN JR.
Secretary

KENNETH L. KIMMELL
Commissioner

TO: Jane Downing, Associate Director, Drinking Water Program, EPA Region 1
Ernest Waterman, Chief, Investigations and Analysis Unit, EPA Region 1

FROM: Millie Garcia-Serrano, Deputy Regional Director, BWSC-SERO

CC: Sheila Vanderhoef, Town Administrator, Town of Eastham
Jane Crowley, Health Agent, Town of Eastham
Phil Weinberg, Regional Director, SERO
Ben Ericson, Assistant Commissioner, BWSC-Boston
Beth Card, Assistant Commissioner, BRP-Boston
Nancy Seidman, Assistant Commissioner, BWP-Boston
Gerard Martin, Chief, Compliance and Enforcement, BWSC-SERO
Angela Gallagher, Environmental Analyst, BWSC-SERO

RE: REQUEST FOR U.S. EPA INVESTIGATORY SERVICES -- Private Water Supply Well Sampling Effort, Town of Eastham, Former Town Landfill Abutting Properties Study Area

DATE: April 5, 2013

REQUEST FOR U.S. EPA INVESTIGATORY SERVICES TO SUPPORT SAMPLING OF PRIVATE WATER SUPPLY WELLS FOR THE PRESENCE OF 1,4-DIOXANE EASTHAM, MASSACHUSETTS

REQUEST:

The Massachusetts Department of Environmental Protection (MassDEP or Department) Bureau of Waste Site Cleanup (BWSC) requests the assistance of the U.S. Environmental Protection Agency Region 1 (EPA) Drinking Water Program and its Investigations and Analysis Unit, with the execution of private water supply well sampling efforts in the Town of Eastham, Massachusetts (Town). Actual and/or potential threats to human health stemming from the presence of 1,4-dioxane in private water supply wells and coupled with MassDEP's limited resources have led us to issue this request. The significance of this request is validated by the fact that the Town does not currently have a municipal drinking water supply system, hence its use of the groundwater resource for drinking water purposes.

This information is available in alternate format. Call Michelle Waters-Ekanem, Diversity Director, at 617-292-5751. TDD# 1-866-539-7622 or 1-617-574-6868
MassDEP Website: www.mass.gov/dep

Printed on Recycled Paper

BACKGROUND:

In November 2012, 1,4-dioxane was detected in groundwater above its currently promulgated Massachusetts Contingency Plan (MCP) Method 1 GW-1 Groundwater Standard of 3.0 µg/L in a landfill monitoring well located at the Town landfill (specifically, perimeter groundwater monitoring well MW-3D).[1] The MCP (located at 310 CMR 40.0000) is the body of regulations that govern the assessment and cleanup of waste disposal sites in the Commonwealth of Massachusetts.

The monitoring wells located at the landfill and areas downgradient of the landfill are part of a solid waste sampling program (Landfill Monitoring Plan or LMP) required by the MassDEP's Bureau of Waste Prevention (BWP) Solid Waste division for the now closed, capped and unlined Eastham Landfill. The presence of 1,4-dioxane in landfill monitoring well MW-3D prompted an MCP 72-hour reporting condition, given that this well is located within 500' of a private drinking water well.

A Town-lead groundwater sampling effort was initiated in December 2012, after the detection of 1,4-dioxane in the landfill perimeter monitoring well MW-3D. In addition, sampling of a number of private drinking water wells located downgradient of the landfill was performed to determine the presence of 1,4-dioxane. Since November 2012, 1,4-dioxane has been detected in groundwater at thirty two (32) private drinking water supply wells. The concentrations of 1,4-dioxane are reported to range between concentrations of a laboratory estimated value (denoted as "J" or estimated value on analytical data sheets) of .012 µg/L and a laboratory actual value of 10 µg/L. The Town is currently providing bottled water to residences where the 1,4-dioxane concentration exceeds 1.5 µg/L . At this time, seven (7) residences have been provided with bottled water.

The Town has also funded the installation of a new private drinking water well (replacement well) at one of the impacted residences in an effort to obtain potable water above the zone of known 1,4-dioxane contamination. Analytical data from March 4, 2013 and March 14, 2013 indicate that the water in the new replacement well contains 0.23 µg/L and 0.20 µg/L, respectively, of 1,4-dioxane. However, these concentrations are below the current Method 1 GW-1 Groundwater Standard of 3.0 µg/L and also below the soon-to-be promulgated Method 1 GW-1 Groundwater Standard of 0.3 µg/L. MassDEP opines that the detection of 1,4-dioxane above the current zone of known contamination indicates the need for further investigation of the fate, transport, nature and extent of 1,4-dioxane contamination.

Through a separate regulatory process, the MassDEP Bureau of Resource Protection (BRP) has approved the pumping test report for two (2) public water supply wells in the Town should the residents of the Town favor the construction and operation of a municipal water supply distribution system through Town vote. These wells could provide water to the Town residents. Reportedly, the cost to construct and operate the municipal water supply distribution system runs upward of 110 million dollars. Given the substantial cost, the Town has reached out to various state and federal agencies seeking financial and logistical support.

In consideration of the financial burden associated with the discovery of 1,4-dioxane in groundwater, MassDEP requests the assistance of the EPA to aid with the ongoing 1,4-dioxane sampling effort. EPA's assistance would come by way of assembling a field sampling team responsible for the collection of groundwater samples from a finite set of private water supply wells and transport of these samples to the contract laboratory that is currently responsible for the analysis of these samples. The contract laboratory, Test America Laboratories, Inc. (Test America), is located in South Burlington, Vermont.

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[1]A proposal to lower the current 1,4-Dioxane GW-1 Groundwater Standard from 3.0 µg/L to 0.3 µg/L is currently undergoing public comment as of April 5, 2013.

MassDEP would assist the EPA via providing State oversight during sample collection activities at the selected private residential properties.

PROPOSED APPROACH TO EPA INVESTIGATORY ASSISTANCE:

Study Area for Investigatory Services

It is proposed that the Town will provide the EPA and the MassDEP with a list of the private properties where the sampling effort will take place, should access be provided by the property owner. A letter describing the anticipated work will be sent out to the property owners that are currently within the expanded "study area", as described in the site plan included in the Immediate Response Action (IRA) Status report prepared by Bennett Environmental Associates, Inc. (BEA) and dated March 29, 2013. A copy of the expanded "study area" map is appended to this document as Figure 1.

Analytical data obtained as of April 5, 2013 has indicated that concentrations of 1,4-dioxane are present in samples collected from private drinking water supply wells along the northern portion and the eastern and downgradient edge of the originally defined "study area." Therefore, in an effort to evaluate whether additional private water supply wells north of the original study area and private water supply wells downgradient and east of the original study area have been impacted, the MassDEP and the Town have agreed to test additional wells outside of the original study area.

Based on the expanded study area map attached herein, MassDEP has compiled a table of residential properties, including nine properties where the property owners have requested sampling, that are proposed for inclusion in the sampling effort described herein. Table 1, attached to this document, presents this information in tabular format.

Access Agreements

The EPA, the MassDEP, and the Town have agreed to use an access agreement generated by the Town (a copy is appended to this document).

Approximately sixty nine (69) properties are expected to receive a request for access. It is possible that access to all the contacted residences may not be granted, as some of the homes within the expanded study area are seasonal in nature and closed until the summer months.

EPA, MassDEP and Town Task Distribution

Currently, the Town has contracted with Test America to use EPA Method 522.2 in the analyses of the drinking water samples for the presence of 1,4-dioxane. Method 522.2 reportedly can attain a detection limit of 0.3 µg/L or lower. In addition, samples will also be collected for volatile organic compound (VOC) analyses using EPA Method 524. The Town will continue to contract with Test America.

The anticipated approach to the proposed work is understood to be as follows:

1. The Town will complete the aforementioned mailing to residents of the expanded study area, requesting access to sample their private drinking water supply well(s) (up to 69 residences as of April 5, 2013).

2. The Town (with MassDEP assistance if requested by the Town) will compile/organize all resulting signed access agreements. Copies of the access agreement will be provided to the EPA and MassDEP.

3. MassDEP will confer with the Town and the EPA regarding the location where sample(s) will be obtained (faucet, outside spigot, directly from well, etc.). Previous sampling efforts will be replicated in order to obtain drinking water samples representative of untreated water.

4. The access agreements will include agency/town sampling points-of-contact, who are tasked with facilitating coordination of the sampling effort, including the dates to initiate and complete sampling, among other information.

5. EPA will provide two (2) field sampling teams consisting of two (2) field personnel each. MassDEP will provide a representative to be present during the sampling program. The Town will provide an environmental(s) consultant(s) and/or a representative(s) of the Town during the sampling event.

6. Samples will be obtained by EPA personnel in accordance with the EPA "Standard Operating Procedure for Residential Well Sampling" dated March 7, 2013 and the "Standard Operating Procedure for Measurement of Purgeable 1,4-Dioxane in Water by GC/MS" dated February 4, 2008. Considerations during this effort include:

    a. MassDEP coordination with the Town and the resident owning/operating the private drinking water supply well to obtain well construction details, including installation date, location, depth, size, well casing materials, substrate, yield, and any known problems. The EPA will be provided with this information.

    b. EPA and MassDEP determination, preferably prior to the sampling event, of whether a drinking water treatment system is present at the residence. If there is a system present, the agencies will work with the homeowner to determine an accessible sampling point prior to the treatment system.

    c. The Town to confer with Test America to obtain the appropriate glassware for the sampling effort.

    d. EPA to obtain the drinking water samples. EPA will follow their protocols for temperature, pH, conductivity, and other field parameters if necessary. EPA will provide and operate all field monitoring devices in support of the sampling event.

    e. Samples will be obtained using the protocols set forth in the EPA "Standard Operating Procedure for Residential Well Sampling." (Separate EPA Protocol to accompany this MassDEP Request for Investigatory Services).

    f. EPA will be responsible for filling out the Chain of Custody, ensuring that the samples are preserved and stored appropriately to ensure data usability, and transporting the samples to Test America.

7. EPA has indicated that based on available personnel and project load, up to sixty (60) private wells will be sampled during this sampling effort.

8. Health and Safety Protocols will be adhered to by Agency/Town representatives and its consultants at all times.

SAMPLING EVENT TIMEFRAME:
The sampling event is expected to take approximately one (1) week, equating to efforts associated with the collection of sixty (60) private well groundwater samples. Sampling is anticipated to commence in mid April 2013; however, its pace will be dependent upon the affirmative responses from the residents who will receive the mailing from the Town.

ANALYTICAL RESULTS DISSEMINATION:
Per 310 CMR 40.1403(10)(b), the Town shall, within thirty (30) days of the date the sample results are issued by the laboratory, provide the property owner with the results of the analyses.

To conform with the standard procedure identified above, if 1,4-dioxane is present above 1.5 µg/L, the Town has indicated that bottled water will be offered to the affected resident(s) at the expense of the Town.

SUMMARY:
MassDEP respectfully requests the assistance of the U.S. EPA with the sampling and transport of drinking water samples collected from within the expanded study area in the Town.

MassDEP will provide field oversight assistance to the EPA and services coordination assistance to the Town. The Town will assume the cost associated with the analyses of the drinking water samples for 1,4-dioxane and VOCs. Activities are anticipated to commence in mid April 2013.

TABLE 1
LIST OF RESIDENTIAL PROPERTIES PROPOSED FOR PRIVATE DRINKING WATER WELL SAMPLING

LAST NAME	FIRST NAME(S)	NO.	STREET	MAP	PARCEL	EXT
Homeowners that have requested analyses:						
SCHMIDT	BRIAN D & CHRISTINE V	370	MEETINGHOUSE RD	9	142	
FULLER	NANCY M	4	PRESERVATION WAY	12	63	C
SULLIVAN	MICHAEL & JOANNE	55	CESTARO WAY	12	254	
CORAL	FELICE	310	CANDLEWOOD RD	12	240	
JABLINOWSKI	STEPHEN & JUNE	35	CESTARO WAY	12	252	
BENSON	JOHN & SANDRA	10	TURTLE POND RD	12	239	A
HALL	PETER & DIANE	20	DUCK MARSH LN	9	133	
Land owners that have requested analyses:						
Douglas	Steven and Diane	10	Starlight Lane	11	46	
Wallace	Doug	140	MEETINGHOUSE RD	11	17	
Properties within Study Area 2:						
Gilman	Maria, Trust	1	Whidah Lane	8	110	K
Chapin	Mary and James	3	Whidah Lane	8	110	J
Peschel	Stephen	5	Whidah Lane	8	110	L
Martin	Realty Trust	310	Old Orchard Road	8	110	E
Hoyt	Anne Marie	350	Old Orchard Road	8	110	I
Delaney	Paul	290	Old Orchard Road	8	110	F
Jacoby	Mary	171	Meetinghouse Road	9	150	A
French	John and Primm	155	Meetinghouse Road	11	16	
Cronin	Jeri Lynne	175	Meetinghouse Road	9	149	
Simkins	Timothy and Emily	3	Eldia Way	9	153	D
Teason	Erma Denny	5	Eldia Way	9	153	E
Nickerson	Robert and Nancy	205	Meetinghouse Road	9	152	
Laubert	Marina	225	Meetinghouse Road	9	153	A
Nuendel	Donald and Bonnie	255	Meetinghouse Road	9	153	C
Solomon	Robert Irrevocable Trust	180	Meetinghouse Road	9	148	
Wood	Edward and Joyce	25	Duck Marsh Lane	12	215	
Gaskill	Shirley	475	School house Road	12	216	B
St. Cyr	Mary and Anderson, Robert	495	School house Road	12	216	A
Vankeuren	Virginia Lynn	2	Fairview Avenue	12	275	
Kinsman	William and Alice	4	Fairview Avenue	12	276	
Wadsworth	James and Carol	395	School house Road	12	278	
Johnson	Bruce	115	Alston	12	96	
Foster	Jenny and Phillips, Evan	80	Knowles	12	90	
McDonald	John	75	Knowles	12	75	A
Gordon	Ganter	65	Knowles	12	77	
Freed	Ivan and Shirley	60	Chipman	12	84	B
Doane	William and Judith	20	Chipman	12	72	

Remmey	Kate	15	Knowles	12	102	
BENSON	Leslie and Lavine Dayle	255	School house Road	12	71	
Dansky	Carol	100	CANDLEWOOD RD	12	246	
Carlson	Helena	25	CESTARO WAY	12	251	
Benjamins	Janet	45	CESTARO WAY	12	253	
Reilly	Thomas	10	CESTARO WAY	12	110	
Cosker	William and Shirley	20	CESTARO WAY	12	109	
		40	School house Road			
Mora	Wayne and Kathleen	35	Fairview Avenue	12	115	
Smith	Theodore and Jane	390	School house Road	12	112	
Stevenson	Robert	20	Fairview Avenue	12	113	
Benatar	Isaac and May	30	Fairview Avenue	12	116	
		60	Fairview Avenue			
Soucy	Brian R. and Eggsware	350	School house Road	12	152	
Walsh	John and barbara	10	Deerfield Lane	12	151	
Smith	Robert and Laura	20	Deerfield Lane	12	148	
Randall	George	30	Deerfield Lane	12	147	
Steele-Jeffers		40	Deerfield Lane	12	144	
		50	Deerfield Lane			
Risk	Kara	35	Deerfield Lane	12	146A	
		55	Deerfield Lane			
Norton	Donald	25	Surrey Drive	12	157	
Chad	Ronald	35	Surrey Drive	12	160	
		45	Surrey Drive			
Lapriore	Ellen and Angelo	20	Surrey Drive	12	158	
Susco	Lynnette	30	Surrey Drive	12	159	
Getty	mathew and Angela	35	Chokeberry Drive	12	174	
Deeg	Charles and Mary	30	Chokeberry Drive	12	173	
		40	Chokeberry Drive			
Labranche	Peter and Robert	180	School house Road	12	178	
Lewis	Kenneth	15	Redberry Lane	12	179	
Rand	Marwood Family Trust	25	Redberry Lane	12	180	
Beale	Jaqueline	35	Redberry Lane	12	181	

TOWN OF EASTHAM

2500 State Highway, Eastham, MA 02642
All Departments 508-240-5900
www.eastham-ma.gov

April 5, 2013

Property Owner Name
Address
Eastham, MA 02642

RE: Eastham Residential Well Testing Program

Dear _____:

Groundwater sampling in the vicinity of the Eastham landfill has detected a volatile organic compound,
1,4-dioxane, in residential drinking wells. This has resulted in the need for the Town to perform follow-on investigations to determine the extent of this compound in our groundwater. The investigation consists of sampling residential water supply wells around the landfill area, and your property lies within this area. We are therefore seeking your permission to collect and test a sample of your well water for this purpose. This investigation is being conducted by the Town in partnership with the Massachusetts Department of Environmental Protection and the U. S. Environmental Protection Agency.

It is important that we complete this investigation within the next 30 days, and we would like to schedule collecting a sample from your home during the week of either April 22nd or April 29th if at all possible. The sample needs to be collected at a faucet inside your home; therefore, we will need to enter your home for this purpose. If someone is not able to be at home during the day, we will make special arrangements to schedule a time that works for you. You will be notified at least three days in advance of when we would like to visit your home.

If you are agreeable to this, we would appreciate you signing the form below and returning it no later than Tuesday, April 16th by regular mail, email or facsimile to:

Attn: Debbie Nestel
Environmental Partners Group
1900 Crown Colony Drive
Quincy, MA 02169

Phone: (617) 657-0200
Email: dbn@envpartners.com
Fax: (617) 657-0201

If you are unable to provide access into your home during these two weeks, but would still like to have your well sampled we can make arrangements for this as well by noting so on the form below.

AUTHORIZATION FOR RESIDENTIAL WELL SAMPLING

Contact Name:

_____

Home phone number:

_____

Cell phone number: (preferred)

_____

E-mail Address (this will not be shared or used for any other purpose)_____

☐ My home can be sampled during the weeks of April 22nd and 29th

☐ I'm not available either of these two weeks, but still would like my home sampled

Authorization: _____ Date:

_____

Information about Your Well (if known)

Additionally, we would appreciate you answering the questions below to the best of your ability to assist us in our investigation. If you do not know the answer to any question, leave it blank.

Description of where your well is located on your property (e.g., behind the shed on the right)_____

_____

_____

Well Casing (2"/ 4".....metal/PVC):_____

Depth of well:

_____

Length of screen:

_____

Do you have an in-home treatment system for your well water? (Yes or No)_____

If yes, what is the water treatment for or what kind of system is it:

_____

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-37259-1
Client Project/Site: Eastham Landfill IRA

For:
Bennett Environmental Associates, Inc.
1573 Main St.
Brewster, Massachusetts 02631

Attn: David Bennett

Authorized for release by:
5/8/2013 2:20:59 PM
Rich Emerich, Analyst V
rich.emerich@testamericainc.com

Designee for

Steve Hartmann, Lab Director
steve.hartmann@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37259-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-37259-1

Laboratory: TestAmerica Buffalo

Narrative

Receipt

The samples were received on 4/30/2013 at 1:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.4° C.

GC/MS VOA

No analytical or quality issues were noted.

GC/MS Semi VOA

No analytical or quality issues were noted.

General Chemistry

No analytical or quality issues were noted.

Organic Prep

No analytical or quality issues were noted.

Detection Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37259-1

Client Sample ID: 25 Knowles (RES-36) — Lab Sample ID: 480-37259-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.22	J	0.50	0.074	ug/L	1		524.2	Total/NA
Acetone	0.65	J	2.5	0.54	ug/L	1		524.2	Total/NA
Chloroform	0.39	J	0.50	0.14	ug/L	1		524.2	Total/NA
cis-1,2-Dichloroethene	1.8		0.50	0.12	ug/L	1		524.2	Total/NA
Methyl tert-butyl ether	0.27	J	0.50	0.12	ug/L	1		524.2	Total/NA
Vinyl chloride	0.066	J	0.50	0.059	ug/L	1		524.2	Total/NA
1,4-Dioxane	2.8		0.20	0.041	ug/L	1		522 MOD	Total/NA

Client Sample ID: 15 Knowles — Lab Sample ID: 480-37259-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.64	J	2.5	0.54	ug/L	1		524.2	Total/NA
1,4-Dioxane	0.078	J	0.20	0.041	ug/L	1		522 MOD	Total/NA

Client Sample ID: 65 Kettle Hole — Lab Sample ID: 480-37259-3

No Detections.

Client Sample ID: 255 Meetinghouse — Lab Sample ID: 480-37259-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.065	J	0.20	0.041	ug/L	1		522 MOD	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 480-37259-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	0.90	J	2.5	0.25	ug/L	1		524.2	Total/NA
Acetone	3.3		2.5	0.54	ug/L	1		524.2	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37259-1

Client Sample ID: 25 Knowles (RES-36)
Date Collected: 04/26/13 09:15
Date Received: 04/30/13 01:15

Lab Sample ID: 480-37259-1
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			04/30/13 16:46	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			04/30/13 16:46	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			04/30/13 16:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			04/30/13 16:46	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			04/30/13 16:46	1
1,1-Dichloroethane	**0.22**	**J**	0.50	0.074	ug/L			04/30/13 16:46	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			04/30/13 16:46	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			04/30/13 16:46	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			04/30/13 16:46	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			04/30/13 16:46	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			04/30/13 16:46	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			04/30/13 16:46	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			04/30/13 16:46	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			04/30/13 16:46	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			04/30/13 16:46	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			04/30/13 16:46	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			04/30/13 16:46	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			04/30/13 16:46	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			04/30/13 16:46	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			04/30/13 16:46	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			04/30/13 16:46	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			04/30/13 16:46	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			04/30/13 16:46	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			04/30/13 16:46	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			04/30/13 16:46	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			04/30/13 16:46	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			04/30/13 16:46	1
Acetone	**0.65**	**J**	2.5	0.54	ug/L			04/30/13 16:46	1
Benzene	ND		0.50	0.13	ug/L			04/30/13 16:46	1
Bromobenzene	ND		0.50	0.13	ug/L			04/30/13 16:46	1
Bromochloromethane	ND		0.50	0.11	ug/L			04/30/13 16:46	1
Bromoform	ND		0.50	0.13	ug/L			04/30/13 16:46	1
Bromomethane	ND		0.50	0.051	ug/L			04/30/13 16:46	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			04/30/13 16:46	1
Chlorobenzene	ND		0.50	0.12	ug/L			04/30/13 16:46	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			04/30/13 16:46	1
Chloroethane	ND		0.50	0.070	ug/L			04/30/13 16:46	1
Chloroform	**0.39**	**J**	0.50	0.14	ug/L			04/30/13 16:46	1
Chloromethane	ND		0.50	0.063	ug/L			04/30/13 16:46	1
cis-1,2-Dichloroethene	**1.8**		0.50	0.12	ug/L			04/30/13 16:46	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			04/30/13 16:46	1
Dibromomethane	ND		0.50	0.17	ug/L			04/30/13 16:46	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			04/30/13 16:46	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			04/30/13 16:46	1
Ethylbenzene	ND		0.50	0.11	ug/L			04/30/13 16:46	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			04/30/13 16:46	1
Isopropylbenzene	ND		0.50	0.053	ug/L			04/30/13 16:46	1
Methyl tert-butyl ether	**0.27**	**J**	0.50	0.12	ug/L			04/30/13 16:46	1
Methylene Chloride	ND		0.50	0.25	ug/L			04/30/13 16:46	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37259-1

Client Sample ID: 25 Knowles (RES-36)

Lab Sample ID: 480-37259-1

Date Collected: 04/26/13 09:15

Matrix: Water

Date Received: 04/30/13 01:15

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			04/30/13 16:46	1
Naphthalene	ND		0.50	0.060	ug/L			04/30/13 16:46	1
n-Butylbenzene	ND		0.50	0.081	ug/L			04/30/13 16:46	1
N-Propylbenzene	ND		0.50	0.057	ug/L			04/30/13 16:46	1
o-Xylene	ND		0.50	0.044	ug/L			04/30/13 16:46	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			04/30/13 16:46	1
Styrene	ND		0.50	0.044	ug/L			04/30/13 16:46	1
t-Butanol	ND		10	2.5	ug/L			04/30/13 16:46	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			04/30/13 16:46	1
Tetrachloroethene	ND		0.50	0.067	ug/L			04/30/13 16:46	1
Toluene	ND		0.50	0.10	ug/L			04/30/13 16:46	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			04/30/13 16:46	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			04/30/13 16:46	1
Trichloroethene	ND		0.50	0.060	ug/L			04/30/13 16:46	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			04/30/13 16:46	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			04/30/13 16:46	1
Vinyl chloride	**0.066**	**J**	0.50	0.059	ug/L			04/30/13 16:46	1
Xylenes, Total	ND		1.0	0.20	ug/L			04/30/13 16:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*101*		*80 - 120*		*04/30/13 16:46*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*04/30/13 16:46*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**2.8**		0.20	0.041	ug/L		05/02/13 14:00	05/02/13 16:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*91*		*70 - 130*	*05/02/13 14:00*	*05/02/13 16:45*	*1*

Client Sample ID: 15 Knowles

Lab Sample ID: 480-37259-2

Date Collected: 04/26/13 09:25

Matrix: Water

Date Received: 04/30/13 01:15

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			04/30/13 17:11	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			04/30/13 17:11	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			04/30/13 17:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			04/30/13 17:11	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			04/30/13 17:11	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			04/30/13 17:11	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			04/30/13 17:11	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			04/30/13 17:11	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			04/30/13 17:11	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			04/30/13 17:11	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			04/30/13 17:11	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			04/30/13 17:11	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			04/30/13 17:11	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			04/30/13 17:11	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37259-1

Client Sample ID: 15 Knowles
Date Collected: 04/26/13 09:25
Date Received: 04/30/13 01:15

Lab Sample ID: 480-37259-2
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			04/30/13 17:11	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			04/30/13 17:11	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			04/30/13 17:11	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			04/30/13 17:11	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			04/30/13 17:11	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			04/30/13 17:11	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			04/30/13 17:11	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			04/30/13 17:11	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			04/30/13 17:11	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			04/30/13 17:11	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			04/30/13 17:11	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			04/30/13 17:11	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			04/30/13 17:11	1
Acetone	**0.64**	**J**	2.5	0.54	ug/L			04/30/13 17:11	1
Benzene	ND		0.50	0.13	ug/L			04/30/13 17:11	1
Bromobenzene	ND		0.50	0.13	ug/L			04/30/13 17:11	1
Bromochloromethane	ND		0.50	0.11	ug/L			04/30/13 17:11	1
Bromoform	ND		0.50	0.13	ug/L			04/30/13 17:11	1
Bromomethane	ND		0.50	0.051	ug/L			04/30/13 17:11	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			04/30/13 17:11	1
Chlorobenzene	ND		0.50	0.12	ug/L			04/30/13 17:11	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			04/30/13 17:11	1
Chloroethane	ND		0.50	0.070	ug/L			04/30/13 17:11	1
Chloroform	ND		0.50	0.14	ug/L			04/30/13 17:11	1
Chloromethane	ND		0.50	0.063	ug/L			04/30/13 17:11	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			04/30/13 17:11	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			04/30/13 17:11	1
Dibromomethane	ND		0.50	0.17	ug/L			04/30/13 17:11	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			04/30/13 17:11	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			04/30/13 17:11	1
Ethylbenzene	ND		0.50	0.11	ug/L			04/30/13 17:11	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			04/30/13 17:11	1
Isopropylbenzene	ND		0.50	0.053	ug/L			04/30/13 17:11	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			04/30/13 17:11	1
Methylene Chloride	ND		0.50	0.25	ug/L			04/30/13 17:11	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			04/30/13 17:11	1
Naphthalene	ND		0.50	0.060	ug/L			04/30/13 17:11	1
n-Butylbenzene	ND		0.50	0.081	ug/L			04/30/13 17:11	1
N-Propylbenzene	ND		0.50	0.057	ug/L			04/30/13 17:11	1
o-Xylene	ND		0.50	0.044	ug/L			04/30/13 17:11	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			04/30/13 17:11	1
Styrene	ND		0.50	0.044	ug/L			04/30/13 17:11	1
t-Butanol	ND		10	2.5	ug/L			04/30/13 17:11	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			04/30/13 17:11	1
Tetrachloroethene	ND		0.50	0.067	ug/L			04/30/13 17:11	1
Toluene	ND		0.50	0.10	ug/L			04/30/13 17:11	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			04/30/13 17:11	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			04/30/13 17:11	1
Trichloroethene	ND		0.50	0.060	ug/L			04/30/13 17:11	1

Client Sample ID: 15 Knowles

Lab Sample ID: 480-37259-2

Date Collected: 04/26/13 09:25

Matrix: Water

Date Received: 04/30/13 01:15

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		0.50	0.044	ug/L			04/30/13 17:11	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			04/30/13 17:11	1
Vinyl chloride	ND		0.50	0.059	ug/L			04/30/13 17:11	1
Xylenes, Total	ND		1.0	0.20	ug/L			04/30/13 17:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*102*		*80 - 120*		*04/30/13 17:11*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*04/30/13 17:11*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.078	J	0.20	0.041	ug/L		05/02/13 14:00	05/02/13 17:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*96*		*70 - 130*	*05/02/13 14:00*	*05/02/13 17:01*	*1*

Client Sample ID: 65 Kettle Hole

Lab Sample ID: 480-37259-3

Date Collected: 04/26/13 10:20

Matrix: Water

Date Received: 04/30/13 01:15

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			04/30/13 17:37	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			04/30/13 17:37	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			04/30/13 17:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			04/30/13 17:37	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			04/30/13 17:37	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			04/30/13 17:37	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			04/30/13 17:37	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			04/30/13 17:37	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			04/30/13 17:37	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			04/30/13 17:37	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			04/30/13 17:37	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			04/30/13 17:37	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			04/30/13 17:37	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			04/30/13 17:37	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			04/30/13 17:37	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			04/30/13 17:37	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			04/30/13 17:37	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			04/30/13 17:37	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			04/30/13 17:37	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			04/30/13 17:37	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			04/30/13 17:37	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			04/30/13 17:37	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			04/30/13 17:37	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			04/30/13 17:37	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			04/30/13 17:37	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			04/30/13 17:37	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			04/30/13 17:37	1
Acetone	ND		2.5	0.54	ug/L			04/30/13 17:37	1

Client Sample ID: 65 Kettle Hole
Date Collected: 04/26/13 10:20
Date Received: 04/30/13 01:15

Lab Sample ID: 480-37259-3
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.13	ug/L			04/30/13 17:37	1
Bromobenzene	ND		0.50	0.13	ug/L			04/30/13 17:37	1
Bromochloromethane	ND		0.50	0.11	ug/L			04/30/13 17:37	1
Bromoform	ND		0.50	0.13	ug/L			04/30/13 17:37	1
Bromomethane	ND		0.50	0.051	ug/L			04/30/13 17:37	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			04/30/13 17:37	1
Chlorobenzene	ND		0.50	0.12	ug/L			04/30/13 17:37	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			04/30/13 17:37	1
Chloroethane	ND		0.50	0.070	ug/L			04/30/13 17:37	1
Chloroform	ND		0.50	0.14	ug/L			04/30/13 17:37	1
Chloromethane	ND		0.50	0.063	ug/L			04/30/13 17:37	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			04/30/13 17:37	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			04/30/13 17:37	1
Dibromomethane	ND		0.50	0.17	ug/L			04/30/13 17:37	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			04/30/13 17:37	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			04/30/13 17:37	1
Ethylbenzene	ND		0.50	0.11	ug/L			04/30/13 17:37	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			04/30/13 17:37	1
Isopropylbenzene	ND		0.50	0.053	ug/L			04/30/13 17:37	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			04/30/13 17:37	1
Methylene Chloride	ND		0.50	0.25	ug/L			04/30/13 17:37	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			04/30/13 17:37	1
Naphthalene	ND		0.50	0.060	ug/L			04/30/13 17:37	1
n-Butylbenzene	ND		0.50	0.081	ug/L			04/30/13 17:37	1
N-Propylbenzene	ND		0.50	0.057	ug/L			04/30/13 17:37	1
o-Xylene	ND		0.50	0.044	ug/L			04/30/13 17:37	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			04/30/13 17:37	1
Styrene	ND		0.50	0.044	ug/L			04/30/13 17:37	1
t-Butanol	ND		10	2.5	ug/L			04/30/13 17:37	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			04/30/13 17:37	1
Tetrachloroethene	ND		0.50	0.067	ug/L			04/30/13 17:37	1
Toluene	ND		0.50	0.10	ug/L			04/30/13 17:37	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			04/30/13 17:37	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			04/30/13 17:37	1
Trichloroethene	ND		0.50	0.060	ug/L			04/30/13 17:37	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			04/30/13 17:37	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			04/30/13 17:37	1
Vinyl chloride	ND		0.50	0.059	ug/L			04/30/13 17:37	1
Xylenes, Total	ND		1.0	0.20	ug/L			04/30/13 17:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*101*		*80 - 120*		*04/30/13 17:37*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*04/30/13 17:37*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		05/02/13 14:00	05/02/13 17:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*89*		*70 - 130*	*05/02/13 14:00*	*05/02/13 17:17*	*1*

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37259-1

Client Sample ID: 255 Meetinghouse
Date Collected: 04/26/13 10:40
Date Received: 04/30/13 01:15

Lab Sample ID: 480-37259-4
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			04/30/13 18:02	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			04/30/13 18:02	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			04/30/13 18:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			04/30/13 18:02	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			04/30/13 18:02	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			04/30/13 18:02	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			04/30/13 18:02	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			04/30/13 18:02	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			04/30/13 18:02	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			04/30/13 18:02	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			04/30/13 18:02	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			04/30/13 18:02	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			04/30/13 18:02	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			04/30/13 18:02	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			04/30/13 18:02	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			04/30/13 18:02	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			04/30/13 18:02	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			04/30/13 18:02	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			04/30/13 18:02	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			04/30/13 18:02	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			04/30/13 18:02	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			04/30/13 18:02	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			04/30/13 18:02	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			04/30/13 18:02	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			04/30/13 18:02	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			04/30/13 18:02	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			04/30/13 18:02	1
Acetone	ND		2.5	0.54	ug/L			04/30/13 18:02	1
Benzene	ND		0.50	0.13	ug/L			04/30/13 18:02	1
Bromobenzene	ND		0.50	0.13	ug/L			04/30/13 18:02	1
Bromochloromethane	ND		0.50	0.11	ug/L			04/30/13 18:02	1
Bromoform	ND		0.50	0.13	ug/L			04/30/13 18:02	1
Bromomethane	ND		0.50	0.051	ug/L			04/30/13 18:02	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			04/30/13 18:02	1
Chlorobenzene	ND		0.50	0.12	ug/L			04/30/13 18:02	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			04/30/13 18:02	1
Chloroethane	ND		0.50	0.070	ug/L			04/30/13 18:02	1
Chloroform	ND		0.50	0.14	ug/L			04/30/13 18:02	1
Chloromethane	ND		0.50	0.063	ug/L			04/30/13 18:02	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			04/30/13 18:02	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			04/30/13 18:02	1
Dibromomethane	ND		0.50	0.17	ug/L			04/30/13 18:02	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			04/30/13 18:02	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			04/30/13 18:02	1
Ethylbenzene	ND		0.50	0.11	ug/L			04/30/13 18:02	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			04/30/13 18:02	1
Isopropylbenzene	ND		0.50	0.053	ug/L			04/30/13 18:02	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			04/30/13 18:02	1
Methylene Chloride	ND		0.50	0.25	ug/L			04/30/13 18:02	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37259-1

Client Sample ID: 255 Meetinghouse

Lab Sample ID: 480-37259-4

Date Collected: 04/26/13 10:40

Matrix: Water

Date Received: 04/30/13 01:15

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			04/30/13 18:02	1
Naphthalene	ND		0.50	0.060	ug/L			04/30/13 18:02	1
n-Butylbenzene	ND		0.50	0.081	ug/L			04/30/13 18:02	1
N-Propylbenzene	ND		0.50	0.057	ug/L			04/30/13 18:02	1
o-Xylene	ND		0.50	0.044	ug/L			04/30/13 18:02	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			04/30/13 18:02	1
Styrene	ND		0.50	0.044	ug/L			04/30/13 18:02	1
t-Butanol	ND		10	2.5	ug/L			04/30/13 18:02	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			04/30/13 18:02	1
Tetrachloroethene	ND		0.50	0.067	ug/L			04/30/13 18:02	1
Toluene	ND		0.50	0.10	ug/L			04/30/13 18:02	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			04/30/13 18:02	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			04/30/13 18:02	1
Trichloroethene	ND		0.50	0.060	ug/L			04/30/13 18:02	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			04/30/13 18:02	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			04/30/13 18:02	1
Vinyl chloride	ND		0.50	0.059	ug/L			04/30/13 18:02	1
Xylenes, Total	ND		1.0	0.20	ug/L			04/30/13 18:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*101*		*80 - 120*		*04/30/13 18:02*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*04/30/13 18:02*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**0.065**	**J**	0.20	0.041	ug/L		05/02/13 14:00	05/02/13 17:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*95*		*70 - 130*	*05/02/13 14:00*	*05/02/13 17:33*	*1*

Client Sample ID: Trip Blank

Lab Sample ID: 480-37259-5

Date Collected: 04/26/13 00:00

Matrix: Water

Date Received: 04/30/13 01:15

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			04/30/13 18:27	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			04/30/13 18:27	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			04/30/13 18:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			04/30/13 18:27	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			04/30/13 18:27	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			04/30/13 18:27	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			04/30/13 18:27	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			04/30/13 18:27	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			04/30/13 18:27	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			04/30/13 18:27	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			04/30/13 18:27	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			04/30/13 18:27	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			04/30/13 18:27	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			04/30/13 18:27	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37259-1

Client Sample ID: Trip Blank
Date Collected: 04/26/13 00:00
Date Received: 04/30/13 01:15

Lab Sample ID: 480-37259-5
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			04/30/13 18:27	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			04/30/13 18:27	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			04/30/13 18:27	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			04/30/13 18:27	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			04/30/13 18:27	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			04/30/13 18:27	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			04/30/13 18:27	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			04/30/13 18:27	1
2-Butanone (MEK)	**0.90**	**J**	2.5	0.25	ug/L			04/30/13 18:27	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			04/30/13 18:27	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			04/30/13 18:27	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			04/30/13 18:27	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			04/30/13 18:27	1
Acetone	**3.3**		2.5	0.54	ug/L			04/30/13 18:27	1
Benzene	ND		0.50	0.13	ug/L			04/30/13 18:27	1
Bromobenzene	ND		0.50	0.13	ug/L			04/30/13 18:27	1
Bromochloromethane	ND		0.50	0.11	ug/L			04/30/13 18:27	1
Bromoform	ND		0.50	0.13	ug/L			04/30/13 18:27	1
Bromomethane	ND		0.50	0.051	ug/L			04/30/13 18:27	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			04/30/13 18:27	1
Chlorobenzene	ND		0.50	0.12	ug/L			04/30/13 18:27	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			04/30/13 18:27	1
Chloroethane	ND		0.50	0.070	ug/L			04/30/13 18:27	1
Chloroform	ND		0.50	0.14	ug/L			04/30/13 18:27	1
Chloromethane	ND		0.50	0.063	ug/L			04/30/13 18:27	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			04/30/13 18:27	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			04/30/13 18:27	1
Dibromomethane	ND		0.50	0.17	ug/L			04/30/13 18:27	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			04/30/13 18:27	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			04/30/13 18:27	1
Ethylbenzene	ND		0.50	0.11	ug/L			04/30/13 18:27	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			04/30/13 18:27	1
Isopropylbenzene	ND		0.50	0.053	ug/L			04/30/13 18:27	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			04/30/13 18:27	1
Methylene Chloride	ND		0.50	0.25	ug/L			04/30/13 18:27	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			04/30/13 18:27	1
Naphthalene	ND		0.50	0.060	ug/L			04/30/13 18:27	1
n-Butylbenzene	ND		0.50	0.081	ug/L			04/30/13 18:27	1
N-Propylbenzene	ND		0.50	0.057	ug/L			04/30/13 18:27	1
o-Xylene	ND		0.50	0.044	ug/L			04/30/13 18:27	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			04/30/13 18:27	1
Styrene	ND		0.50	0.044	ug/L			04/30/13 18:27	1
t-Butanol	ND		10	2.5	ug/L			04/30/13 18:27	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			04/30/13 18:27	1
Tetrachloroethene	ND		0.50	0.067	ug/L			04/30/13 18:27	1
Toluene	ND		0.50	0.10	ug/L			04/30/13 18:27	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			04/30/13 18:27	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			04/30/13 18:27	1
Trichloroethene	ND		0.50	0.060	ug/L			04/30/13 18:27	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37259-1

Client Sample ID: Trip Blank
Date Collected: 04/26/13 00:00
Date Received: 04/30/13 01:15

Lab Sample ID: 480-37259-5
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		0.50	0.044	ug/L			04/30/13 18:27	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			04/30/13 18:27	1
Vinyl chloride	ND		0.50	0.059	ug/L			04/30/13 18:27	1
Xylenes, Total	ND		1.0	0.20	ug/L			04/30/13 18:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*102*		*80 - 120*		*04/30/13 18:27*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*04/30/13 18:27*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		05/07/13 09:33	05/07/13 13:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*78*		*70 - 130*	*05/07/13 09:33*	*05/07/13 13:20*	*1*

Surrogate Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37259-1

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		12DCB	BFB								
Lab Sample ID	Client Sample ID	(80-120)	(80-120)								
480-37259-1	25 Knowles (RES-36)	101	97								
480-37259-2	15 Knowles	102	96								
480-37259-3	65 Kettle Hole	101	95								
480-37259-4	255 Meetinghouse	101	97								
480-37259-5	Trip Blank	102	96								
LCS 480-115862/4	Lab Control Sample	102	98								
MB 480-115862/6	Method Blank	102	96								

Surrogate Legend

12DCB = 1,2-Dichlorobenzene-d4

BFB = 4-Bromofluorobenzene (Surr)

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		14DD8									
Lab Sample ID	Client Sample ID	(70-130)									
480-37259-1	25 Knowles (RES-36)	91									
480-37259-2	15 Knowles	96									
480-37259-3	65 Kettle Hole	89									
480-37259-4	255 Meetinghouse	95									
480-37259-5	Trip Blank	78									
LCS 200-55059/2-A	Lab Control Sample	96									
LCS 200-55200/2-A	Lab Control Sample	93									
MB 200-55059/1-A	Method Blank	89									
MB 200-55200/1-A	Method Blank	93									

Surrogate Legend

14DD8 = 1,4-Dioxane-d8 (Surr)

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-115862/6
Matrix: Water
Analysis Batch: 115862

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			04/30/13 11:57	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			04/30/13 11:57	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			04/30/13 11:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			04/30/13 11:57	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			04/30/13 11:57	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			04/30/13 11:57	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			04/30/13 11:57	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			04/30/13 11:57	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			04/30/13 11:57	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			04/30/13 11:57	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			04/30/13 11:57	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			04/30/13 11:57	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			04/30/13 11:57	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			04/30/13 11:57	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			04/30/13 11:57	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			04/30/13 11:57	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			04/30/13 11:57	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			04/30/13 11:57	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			04/30/13 11:57	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			04/30/13 11:57	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			04/30/13 11:57	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			04/30/13 11:57	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			04/30/13 11:57	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			04/30/13 11:57	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			04/30/13 11:57	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			04/30/13 11:57	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			04/30/13 11:57	1
Acetone	ND		2.5	0.54	ug/L			04/30/13 11:57	1
Benzene	ND		0.50	0.13	ug/L			04/30/13 11:57	1
Bromobenzene	ND		0.50	0.13	ug/L			04/30/13 11:57	1
Bromochloromethane	ND		0.50	0.11	ug/L			04/30/13 11:57	1
Bromoform	ND		0.50	0.13	ug/L			04/30/13 11:57	1
Bromomethane	ND		0.50	0.051	ug/L			04/30/13 11:57	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			04/30/13 11:57	1
Chlorobenzene	ND		0.50	0.12	ug/L			04/30/13 11:57	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			04/30/13 11:57	1
Chloroethane	ND		0.50	0.070	ug/L			04/30/13 11:57	1
Chloroform	ND		0.50	0.14	ug/L			04/30/13 11:57	1
Chloromethane	ND		0.50	0.063	ug/L			04/30/13 11:57	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			04/30/13 11:57	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			04/30/13 11:57	1
Dibromomethane	ND		0.50	0.17	ug/L			04/30/13 11:57	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			04/30/13 11:57	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			04/30/13 11:57	1
Ethylbenzene	ND		0.50	0.11	ug/L			04/30/13 11:57	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			04/30/13 11:57	1
Isopropylbenzene	ND		0.50	0.053	ug/L			04/30/13 11:57	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			04/30/13 11:57	1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-115862/6
Matrix: Water
Analysis Batch: 115862

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		0.50	0.25	ug/L			04/30/13 11:57	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			04/30/13 11:57	1
Naphthalene	ND		0.50	0.060	ug/L			04/30/13 11:57	1
n-Butylbenzene	ND		0.50	0.081	ug/L			04/30/13 11:57	1
N-Propylbenzene	ND		0.50	0.057	ug/L			04/30/13 11:57	1
o-Xylene	ND		0.50	0.044	ug/L			04/30/13 11:57	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			04/30/13 11:57	1
Styrene	ND		0.50	0.044	ug/L			04/30/13 11:57	1
t-Butanol	ND		10	2.5	ug/L			04/30/13 11:57	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			04/30/13 11:57	1
Tetrachloroethene	ND		0.50	0.067	ug/L			04/30/13 11:57	1
Toluene	ND		0.50	0.10	ug/L			04/30/13 11:57	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			04/30/13 11:57	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			04/30/13 11:57	1
Trichloroethene	ND		0.50	0.060	ug/L			04/30/13 11:57	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			04/30/13 11:57	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			04/30/13 11:57	1
Vinyl chloride	ND		0.50	0.059	ug/L			04/30/13 11:57	1
Xylenes, Total	ND		1.0	0.20	ug/L			04/30/13 11:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*102*		*80 - 120*		*04/30/13 11:57*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*04/30/13 11:57*	*1*

Lab Sample ID: LCS 480-115862/4
Matrix: Water
Analysis Batch: 115862

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	4.00	3.65		ug/L		91	70 - 130
1,1,1-Trichloroethane	4.00	3.79		ug/L		95	70 - 130
1,1,2,2-Tetrachloroethane	4.00	3.23		ug/L		81	70 - 130
1,1,2-Trichloroethane	4.00	3.43		ug/L		86	70 - 130
1,1-Dichloroethane	4.00	3.63		ug/L		91	70 - 130
1,1-Dichloroethene	4.00	3.42		ug/L		85	70 - 130
1,1-Dichloropropene	4.00	4.10		ug/L		102	70 - 130
1,2,3-Trichlorobenzene	4.00	3.91		ug/L		98	70 - 130
1,2,3-Trichloropropane	4.00	3.52		ug/L		88	70 - 130
1,2,4-Trichlorobenzene	4.00	3.84		ug/L		96	70 - 130
1,2,4-Trimethylbenzene	4.00	3.83		ug/L		96	70 - 130
1,2-Dibromo-3-Chloropropane	4.00	3.29		ug/L		82	70 - 130
1,2-Dibromoethane	4.00	3.55		ug/L		89	70 - 130
1,2-Dichlorobenzene	4.00	3.73		ug/L		93	70 - 130
1,2-Dichloroethane	4.00	3.78		ug/L		95	70 - 130
1,2-Dichloropropane	4.00	3.52		ug/L		88	70 - 130
1,3,5-Trimethylbenzene	4.00	3.76		ug/L		94	70 - 130
1,3-Dichlorobenzene	4.00	3.77		ug/L		94	70 - 130
1,3-Dichloropropane	4.00	3.56		ug/L		89	70 - 130

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-115862/4
Matrix: Water
Analysis Batch: 115862

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	4.00	3.70		ug/L		92	70 - 130
2,2-Dichloropropane	4.00	3.58		ug/L		90	70 - 130
2-Butanone (MEK)	20.0	17.5		ug/L		88	70 - 130
2-Chlorotoluene	4.00	3.62		ug/L		91	70 - 130
4-Chlorotoluene	4.00	3.61		ug/L		90	70 - 130
4-Isopropyltoluene	4.00	3.85		ug/L		96	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	17.3		ug/L		87	70 - 130
Acetone	20.0	16.6		ug/L		83	70 - 130
Benzene	4.00	3.72		ug/L		93	70 - 130
Bromobenzene	4.00	3.74		ug/L		94	70 - 130
Bromochloromethane	4.00	3.82		ug/L		96	70 - 130
Bromoform	4.00	3.07		ug/L		77	70 - 130
Bromomethane	4.00	3.45		ug/L		86	70 - 130
Carbon tetrachloride	4.00	3.80		ug/L		95	70 - 130
Chlorobenzene	4.00	3.75		ug/L		94	70 - 130
Chlorodibromomethane	4.00	3.29		ug/L		82	70 - 130
Chloroethane	4.00	4.01		ug/L		100	70 - 130
Chloroform	4.00	3.75		ug/L		94	70 - 130
Chloromethane	4.00	3.75		ug/L		94	70 - 130
cis-1,2-Dichloroethene	4.00	3.66		ug/L		92	70 - 130
cis-1,3-Dichloropropene	4.00	3.31		ug/L		83	70 - 130
Dibromomethane	4.00	3.54		ug/L		89	70 - 130
Dichlorobromomethane	4.00	3.44		ug/L		86	70 - 130
Dichlorodifluoromethane	4.00	4.67		ug/L		117	70 - 130
Ethylbenzene	4.00	3.69		ug/L		92	70 - 130
Hexachlorobutadiene	4.00	4.18		ug/L		104	70 - 130
Isopropylbenzene	4.00	3.84		ug/L		96	70 - 130
Methyl tert-butyl ether	4.00	3.60		ug/L		90	70 - 130
Methylene Chloride	4.00	3.91		ug/L		98	70 - 130
Naphthalene	4.00	3.48		ug/L		87	70 - 130
n-Butylbenzene	4.00	3.90		ug/L		97	70 - 130
N-Propylbenzene	4.00	3.76		ug/L		94	70 - 130
sec-Butylbenzene	4.00	3.85		ug/L		96	70 - 130
Styrene	4.00	3.62		ug/L		90	70 - 130
tert-Butylbenzene	4.00	3.92		ug/L		98	70 - 130
Tetrachloroethene	4.00	4.03		ug/L		101	70 - 130
Toluene	4.00	3.70		ug/L		93	70 - 130
trans-1,2-Dichloroethene	4.00	3.71		ug/L		93	70 - 130
trans-1,3-Dichloropropene	4.00	3.26		ug/L		81	70 - 130
Trichloroethene	4.00	3.80		ug/L		95	70 - 130
Trichlorofluoromethane	4.00	4.47		ug/L		112	70 - 130
Vinyl chloride	4.00	4.06		ug/L		102	70 - 130
Xylenes, Total	12.0	11.2		ug/L		93	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichlorobenzene-d4	*102*		*80 - 120*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Lab Sample ID: MB 200-55059/1-A
Matrix: Water
Analysis Batch: 55063

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 55059

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		05/02/13 14:00	05/02/13 16:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*89*		*70 - 130*	*05/02/13 14:00*	*05/02/13 16:13*	*1*

Lab Sample ID: LCS 200-55059/2-A
Matrix: Water
Analysis Batch: 55063

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 55059

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane			0.200	0.207		ug/L		103	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,4-Dioxane-d8 (Surr)	*96*		*70 - 130*

Lab Sample ID: MB 200-55200/1-A
Matrix: Water
Analysis Batch: 55210

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 55200

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		05/07/13 09:33	05/07/13 13:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*93*		*70 - 130*	*05/07/13 09:33*	*05/07/13 13:04*	*1*

Lab Sample ID: LCS 200-55200/2-A
Matrix: Water
Analysis Batch: 55210

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 55200

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane			0.200	0.196	J	ug/L		98	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,4-Dioxane-d8 (Surr)	*93*		*70 - 130*

GC/MS VOA

Analysis Batch: 115862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-37259-1	25 Knowles (RES-36)	Total/NA	Water	524.2	
480-37259-2	15 Knowles	Total/NA	Water	524.2	
480-37259-3	65 Kettle Hole	Total/NA	Water	524.2	
480-37259-4	255 Meetinghouse	Total/NA	Water	524.2	
480-37259-5	Trip Blank	Total/NA	Water	524.2	
LCS 480-115862/4	Lab Control Sample	Total/NA	Water	524.2	
MB 480-115862/6	Method Blank	Total/NA	Water	524.2	

GC/MS Semi VOA

Prep Batch: 55059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-37259-1	25 Knowles (RES-36)	Total/NA	Water	3535A	
480-37259-2	15 Knowles	Total/NA	Water	3535A	
480-37259-3	65 Kettle Hole	Total/NA	Water	3535A	
480-37259-4	255 Meetinghouse	Total/NA	Water	3535A	
LCS 200-55059/2-A	Lab Control Sample	Total/NA	Water	3535A	
MB 200-55059/1-A	Method Blank	Total/NA	Water	3535A	

Analysis Batch: 55063

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-37259-1	25 Knowles (RES-36)	Total/NA	Water	522 MOD	55059
480-37259-2	15 Knowles	Total/NA	Water	522 MOD	55059
480-37259-3	65 Kettle Hole	Total/NA	Water	522 MOD	55059
480-37259-4	255 Meetinghouse	Total/NA	Water	522 MOD	55059
LCS 200-55059/2-A	Lab Control Sample	Total/NA	Water	522 MOD	55059
MB 200-55059/1-A	Method Blank	Total/NA	Water	522 MOD	55059

Prep Batch: 55200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-37259-5	Trip Blank	Total/NA	Water	3535A	
LCS 200-55200/2-A	Lab Control Sample	Total/NA	Water	3535A	
MB 200-55200/1-A	Method Blank	Total/NA	Water	3535A	

Analysis Batch: 55210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-37259-5	Trip Blank	Total/NA	Water	522 MOD	55200
LCS 200-55200/2-A	Lab Control Sample	Total/NA	Water	522 MOD	55200
MB 200-55200/1-A	Method Blank	Total/NA	Water	522 MOD	55200

Lab Chronicle

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37259-1

Client Sample ID: 25 Knowles (RES-36)

Lab Sample ID: 480-37259-1

Date Collected: 04/26/13 09:15
Matrix: Water
Date Received: 04/30/13 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	115862	04/30/13 16:46	TRB	TAL BUF
Total/NA	Prep	3535A			55059	05/02/13 14:00	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55063	05/02/13 16:45	RJH	TAL BUR

Client Sample ID: 15 Knowles

Lab Sample ID: 480-37259-2

Date Collected: 04/26/13 09:25
Matrix: Water
Date Received: 04/30/13 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	115862	04/30/13 17:11	TRB	TAL BUF
Total/NA	Prep	3535A			55059	05/02/13 14:00	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55063	05/02/13 17:01	RJH	TAL BUR

Client Sample ID: 65 Kettle Hole

Lab Sample ID: 480-37259-3

Date Collected: 04/26/13 10:20
Matrix: Water
Date Received: 04/30/13 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	115862	04/30/13 17:37	TRB	TAL BUF
Total/NA	Prep	3535A			55059	05/02/13 14:00	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55063	05/02/13 17:17	RJH	TAL BUR

Client Sample ID: 255 Meetinghouse

Lab Sample ID: 480-37259-4

Date Collected: 04/26/13 10:40
Matrix: Water
Date Received: 04/30/13 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	115862	04/30/13 18:02	TRB	TAL BUF
Total/NA	Prep	3535A			55059	05/02/13 14:00	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55063	05/02/13 17:33	RJH	TAL BUR

Client Sample ID: Trip Blank

Lab Sample ID: 480-37259-5

Date Collected: 04/26/13 00:00
Matrix: Water
Date Received: 04/30/13 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	115862	04/30/13 18:27	TRB	TAL BUF
Total/NA	Prep	3535A			55200	05/07/13 09:33	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55210	05/07/13 13:20	RJH	TAL BUR

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Certification Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37259-1

Laboratory: TestAmerica Buffalo

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-13
California	NELAP	9	1169CA	09-30-13
Connecticut	State Program	1	PH-0568	09-30-14
Florida	NELAP	4	E87672	06-30-13
Georgia	State Program	4	N/A	03-31-14
Georgia	State Program	4	956	06-30-13
Georgia	State Program	4	956	03-31-14
Illinois	NELAP	5	200003	09-30-13
Iowa	State Program	7	374	03-15-15
Kansas	NELAP	7	E-10187	01-31-14
Kentucky	State Program	4	90029	12-31-13
Kentucky (UST)	State Program	4	30	04-01-14
Louisiana	NELAP	6	02031	06-30-13
Maine	State Program	1	NY00044	12-04-13
Maryland	State Program	3	294	03-31-14
Massachusetts	State Program	1	M-NY044	06-30-13
Michigan	State Program	5	9937	04-01-13 *
Minnesota	NELAP	5	036-999-337	12-31-13
New Hampshire	NELAP	1	2973	09-11-13
New Hampshire	NELAP	1	2337	11-17-13
New Jersey	NELAP	2	NY455	06-30-13
New York	NELAP	2	10026	04-01-14
North Dakota	State Program	8	R-176	03-31-14
Oklahoma	State Program	6	9421	08-31-13
Oregon	NELAP	10	NY200003	06-09-13
Pennsylvania	NELAP	3	68-00281	07-31-13
Rhode Island	State Program	1	LAO00328	12-31-13
Tennessee	State Program	4	TN02970	04-01-14
Texas	NELAP	6	T104704412-11-2	07-31-13
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAP	3	460185	09-14-13
Washington	State Program	10	C784	02-10-14
West Virginia DEP	State Program	3	252	09-30-13
Wisconsin	State Program	5	998310390	08-31-13

Laboratory: TestAmerica Burlington

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Connecticut	State Program	1	PH-0751	09-30-13
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-13-15
Florida	NELAP	4	E87467	06-30-13
L-A-B	DoD ELAP		L2336	10-26-13
Louisiana	NELAP	6	176292	06-30-13
Maine	State Program	1	VT00008	04-17-13 *
Minnesota	NELAP	5	050-999-436	12-31-13
New Hampshire	NELAP	1	2006	12-18-13
New Jersey	NELAP	2	VT972	06-30-13
New York	NELAP	2	10391	04-01-14
Pennsylvania	NELAP	3	68-00489	04-30-14

* Expired certification is currently pending renewal and is considered valid.

Certification Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37259-1

Laboratory: TestAmerica Burlington (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
USDA	Federal		P330-11-00093	02-17-14
Vermont	State Program	1	VT-4000	12-31-13
Virginia	NELAP	3	460209	12-14-13

Method Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37259-1

Method	Method Description	Protocol	Laboratory
524.2	Volatile Organic Compounds (GC/MS)	EPA-DW	TAL BUF
522 MOD	1,4 Dioxane (GC/MS SIM)	EPA	TAL BUR

Protocol References:

EPA = US Environmental Protection Agency

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37259-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-37259-1	25 Knowles (RES-36)	Water	04/26/13 09:15	04/30/13 01:15
480-37259-2	15 Knowles	Water	04/26/13 09:25	04/30/13 01:15
480-37259-3	65 Kettle Hole	Water	04/26/13 10:20	04/30/13 01:15
480-37259-4	255 Meetinghouse	Water	04/26/13 10:40	04/30/13 01:15
480-37259-5	Trip Blank	Water	04/26/13 00:00	04/30/13 01:15

TestAmerica Westfield
53 Southampton Road
Westfield, MA 01085
phone 413.572.4000 fax 413.572.3707

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other MA MCP

Client Contact	Project Manager: David Bennett	Site Contact:	Date: 4/26/13	COC No:
Bennett Environmental Associates, Inc.	Tel/Fax: 508-896-1706	Lab Contact:	Carrier:	1 of 1 COCs
Address P.O. Box 1743	Analysis Turnaround Time			For Lab Use Only:
City/State/Zip Brewster, MA 02631	Calendar (C) or Work Days (W) C			Walk-in Client:
(508) 896-1706 Phone	TAT if different from Below			Lab Sampling:
(508) 896-5109 FAX	☑ 2 weeks			
Project Name: Eastham Landfill	☐ 1 week			Job / SDG No.: BEA09-10104
Site: Residential Well Sampling	☐ 2 days			
PO # BEA09-10104	☐ 1 day			Sampler: JTW

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample (Y/N)	Composite = C / Grab = G	1,4-Dioxane via 522.1 Mod	VOCs via 524.2	Sample Specific Notes:
25 Knowles (RES-36)	4/26/13	9:15 AM	G	W	9	N	G	X	X	
15 Knowles	4/26/13	9:25 AM	G	W	9	N	G	X	X	
65 Kettle Hole	4/26/13	10:20 AM	G	W	9	N	G	X	X	
255 Meetinghouse	4/26/13	10:40 AM	G	W	9	N	G	X	X	
Trip Blanks	4/26/13	8:00am	G	W	4	N	G		X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____ 1,2 1,2

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments: Please e-mail results to dbennett@bennett-ea.com

2.4 #1

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	BEA	4/26/13 4:30	BEA office		
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	BEA	4/29/13 1830			4/29/13 1835
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:
		4/29/13 1800		TA BUF	4.30.13 0115

Form No. CA-C-WI-002, Rev. 4, dated 10/25/2012

Login Sample Receipt Checklist

Client: Bennett Environmental Associates, Inc.

Job Number: 480-37259-1

Login Number: 37259

List Source: TestAmerica Buffalo

List Number: 1

Creator: Wienke, Robert

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	BEA
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	True	Lab to check

Login Sample Receipt Checklist

Client: Bennett Environmental Associates, Inc.

Job Number: 480-37259-1

Login Number: 37259
List Number: 1
Creator: Poucher, Stephanie A

List Source: TestAmerica Burlington
List Creation: 05/01/13 12:53 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	708992, 993
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.6ºC, 1.2ºC IR GUN ID 181. CF 0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.

Login Sample Receipt Checklist

Client: Bennett Environmental Associates, Inc.

Job Number: 480-37259-1

Login Number: 37259
List Number: 2
Creator: Poucher, Stephanie A

List Source: TestAmerica Burlington
List Creation: 05/03/13 12:23 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	709096, 097
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.4ºC, 4.6ºC IR GUN ID 181. CF 0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.

						Sample ID	25 Knowles (RES-36)	15 Knowles	65 Kettle Hole	255 Meetinghouse	Trip Blank
						Sampled By					
						Sample Collection Date	04/26/2013 09:15	04/26/2013 09:25	04/26/2013 10:20	04/26/2013 10:40	04/26/2013 00:00
						Laboratory Order Number	480-37259-1	480-37259-2	480-37259-3	480-37259-4	480-37259-5
Parameter	**Reporting Units**	**GW1**	**GW2**	**RCGW1**	**RCGW2**	**DW MMCL**					
Volatiles by 524.2											
1,1,1,2-Tetrachloroethane	ug/l	5	10	5	10	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1,1-Trichloroethane	ug/l	200	4000	200	4000	200	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1,2,2-Tetrachloroethane	ug/l	2	9	2	9	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1,2-Trichloroethane	ug/l	5	900	5	900	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1-Dichloroethane	ug/l	70	1000	70	1000	NA	0.22J	< 0.50	< 0.50	< 0.50	< 0.50
1,1-Dichloroethene	ug/l	7	80	7	80	7	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1-Dichloropropene	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2,3-Trichlorobenzene	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2,3-Trichloropropane	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2,4-Trichlorobenzene	ug/l	70	2000	70	2000	70	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2,4-Trimethylbenzene	ug/l	NA	NA	10000	100000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dibromo-3-Chloropropane	ug/l	NA	NA	100	1000	0.2	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**
1,2-Dibromoethane	ug/l	0.02	2	0.02	2	0.02	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**
1,2-Dichlorobenzene	ug/l	600	2000	600	2000	600	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichloroethane	ug/l	5	5	5	5	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichloropropane	ug/l	5	3	3	3	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,3,5-Trimethylbenzene	ug/l	NA	NA	100	1000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,3-Dichlorobenzene	ug/l	40	2000	40	2000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,3-Dichloropropane	ug/l	NA	NA	5000	50000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,4-Dichlorobenzene	ug/l	5	200	5	200	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,2-Dichloropropane	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Butanone (MEK)	ug/l	4000	50000	4000	50000	NA	< 2.5	< 2.5	< 2.5	< 2.5	0.90J
2-Chlorotoluene	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Chlorotoluene	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Isopropyltoluene	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Methyl-2-pentanone (MIBK	ug/l	350	50000	350	50000	NA	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
Acetone	ug/l	6300	50000	6300	50000	NA	0.65J	0.64J	< 2.5	< 2.5	3.3
Benzene	ug/l	5	2000	5	2000	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromobenzene	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromochloromethane	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromoform	ug/l	4	700	4	700	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromomethane	ug/l	10	7	7	7	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Carbon tetrachloride	ug/l	5	2	2	2	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chlorobenzene	ug/l	100	200	100	200	100	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chlorodibromomethane	ug/l	2	20	2	20	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chloroethane	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chloroform	ug/l	70	50	50	50	NA	0.39J	< 0.50	< 0.50	< 0.50	< 0.50
Chloromethane	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
cis-1,2-Dichloroethene	ug/l	70	100	70	100	NA	1.8	< 0.50	< 0.50	< 0.50	< 0.50
cis-1,3-Dichloropropene	ug/l	NA	NA	0.5	5	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dibromomethane	ug/l	NA	NA	5000	50000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dichlorobromomethane	ug/l	3	6	3	6	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dichlorodifluoromethane	ug/l	NA	NA	10000	100000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Ethylbenzene	ug/l	700	20000	700	5000	700	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachlorobutadiene	ug/l	0.6	1	0.6	1	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Isopropylbenzene	ug/l	NA	NA	10000	100000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Methyl tert-butyl ethe	ug/l	70	50000	70	5000	NA	0.27J	< 0.50	< 0.50	< 0.50	< 0.50
Methylene Chloride	ug/l	5	10000	5	10000	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
m-Xylene & p-Xylene	ug/l	10000	9000	5000	5000	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene	ug/l	140	1000	140	1000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
n-Butylbenzene	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
N-Propylbenzene	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
o-Xylene	ug/l	10000	9000	5000	5000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Styrene	ug/l	100	100	100	100	100	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
t-Butanol	ug/l	NA	NA	NA	NA	NA	< 10	< 10	< 10	< 10	< 10
tert-Butylbenzene	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Tetrachloroethene	ug/l	5	50	5	50	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Toluene	ug/l	1000	50000	1000	40000	1000	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
trans-1,2-Dichloroethene	ug/l	100	90	90	90	100	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
trans-1,3-Dichloropropene	ug/l	NA	NA	0.5	5	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Trichloroethene	ug/l	5	30	5	30	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Trichlorofluoromethane	ug/l	NA	NA	10000	100000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Trihalomethanes, Tota	ug/l	NA	NA	NA	NA	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Vinyl chloride	ug/l	2	2	2	2	2	0.066J	< 0.50	< 0.50	< 0.50	< 0.50
Xylenes, Tota	ug/l	10000	9000	5000	5000	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Semivolatiles by 522 MOD											
1,4-Dioxane	ug/l	3	6000	3	6000	NA	2.8	0.078J	< 0.20	0.065J	< 0.20

Notes:
ug/l - micrograms/liter
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate valu
GW1 - Concentrations based on the use of groundwater as drinking water, either currently or in the foreseeable futu
GW2 - Concentrations based on the potential for volatile material to migrate into indoor a
GW3 - Concentrations based on the potential environmental effects resulting from contaminated groundwater discharging to surface wat
RC - Risk Characterization approach, Standards may be supplemented or modified with site- and chemical-specific informatic
UCL - Upper Concentration Limits in groundwater and soil are promulgated to minimize potential risks associated with uncontrolled environmental contamination, and the costs associated with cumulative anthropogenic contributions to l

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-37259-2
Client Project/Site: Eastham Landfill IRA

For:
Bennett Environmental Associates, Inc.
1573 Main St.
Brewster, Massachusetts 02631

Attn: David Bennett

Authorized for release by:
5/15/2013 2:09:22 PM
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Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37259-2

Qualifiers

GC/MS VOA

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-37259-2

Laboratory: TestAmerica Buffalo

Narrative

Receipt
The samples were received on 4/30/2013 at 1:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.4º C.

Receipt Exceptions
The following sample was activated by the client for Methods 522 and 524 duplicate analysis by the client on 5/9/2013: 25 Knowles (RES-36) (480-37259-1). This analysis was originally placed on hold at the time of sample receipt by the laboratory.

GC/MS VOA
No analytical or quality issues were noted.

GC/MS Semi VOA
No analytical or quality issues were noted.

General Chemistry
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37259-2

Client Sample ID: 25 Knowles (RES-36) Duplicate

Lab Sample ID: 480-37259-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.21	J	0.50	0.074	ug/L	1		524.2	Total/NA
Chloroform	0.34	J	0.50	0.14	ug/L	1		524.2	Total/NA
cis-1,2-Dichloroethene	1.7		0.50	0.12	ug/L	1		524.2	Total/NA
Methyl tert-butyl ether	0.23	J	0.50	0.12	ug/L	1		524.2	Total/NA
1,4-Dioxane	2.6		0.20	0.041	ug/L	1		522 MOD	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37259-2

Client Sample ID: 25 Knowles (RES-36) Duplicate
Date Collected: 04/26/13 09:15
Date Received: 04/30/13 01:15

Lab Sample ID: 480-37259-6
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/09/13 12:30	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/09/13 12:30	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/09/13 12:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/09/13 12:30	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/09/13 12:30	1
1,1-Dichloroethane	**0.21**	**J**	0.50	0.074	ug/L			05/09/13 12:30	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/09/13 12:30	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/09/13 12:30	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/09/13 12:30	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/09/13 12:30	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/09/13 12:30	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/09/13 12:30	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/09/13 12:30	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/09/13 12:30	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/09/13 12:30	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/09/13 12:30	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/09/13 12:30	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/09/13 12:30	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/09/13 12:30	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/09/13 12:30	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/09/13 12:30	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/09/13 12:30	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/09/13 12:30	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/09/13 12:30	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/09/13 12:30	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/09/13 12:30	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/09/13 12:30	1
Acetone	ND		2.5	0.54	ug/L			05/09/13 12:30	1
Benzene	ND		0.50	0.13	ug/L			05/09/13 12:30	1
Bromobenzene	ND		0.50	0.13	ug/L			05/09/13 12:30	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/09/13 12:30	1
Bromoform	ND		0.50	0.13	ug/L			05/09/13 12:30	1
Bromomethane	ND		0.50	0.051	ug/L			05/09/13 12:30	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/09/13 12:30	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/09/13 12:30	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/09/13 12:30	1
Chloroethane	ND		0.50	0.070	ug/L			05/09/13 12:30	1
Chloroform	**0.34**	**J**	0.50	0.14	ug/L			05/09/13 12:30	1
Chloromethane	ND		0.50	0.063	ug/L			05/09/13 12:30	1
cis-1,2-Dichloroethene	**1.7**		0.50	0.12	ug/L			05/09/13 12:30	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/09/13 12:30	1
Dibromomethane	ND		0.50	0.17	ug/L			05/09/13 12:30	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/09/13 12:30	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/09/13 12:30	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/09/13 12:30	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/09/13 12:30	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/09/13 12:30	1
Methyl tert-butyl ether	**0.23**	**J**	0.50	0.12	ug/L			05/09/13 12:30	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/09/13 12:30	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37259-2

Client Sample ID: 25 Knowles (RES-36) Duplicate
Date Collected: 04/26/13 09:15
Date Received: 04/30/13 01:15

Lab Sample ID: 480-37259-6
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/09/13 12:30	1
Naphthalene	ND		0.50	0.060	ug/L			05/09/13 12:30	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/09/13 12:30	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/09/13 12:30	1
o-Xylene	ND		0.50	0.044	ug/L			05/09/13 12:30	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/09/13 12:30	1
Styrene	ND		0.50	0.044	ug/L			05/09/13 12:30	1
t-Butanol	ND		10	2.5	ug/L			05/09/13 12:30	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/09/13 12:30	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/09/13 12:30	1
Toluene	ND		0.50	0.10	ug/L			05/09/13 12:30	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/09/13 12:30	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/09/13 12:30	1
Trichloroethene	ND		0.50	0.060	ug/L			05/09/13 12:30	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/09/13 12:30	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/09/13 12:30	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/09/13 12:30	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/09/13 12:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*100*		*80 - 120*		*05/09/13 12:30*	*1*
4-Bromofluorobenzene (Surr)	*85*		*80 - 120*		*05/09/13 12:30*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**2.6**		0.20	0.041	ug/L		05/10/13 09:02	05/13/13 12:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*90*		*70 - 130*	*05/10/13 09:02*	*05/13/13 12:03*	*1*

Surrogate Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37259-2

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
		12DCB	BFB						
Lab Sample ID	Client Sample ID	(80-120)	(80-120)						
480-37259-6	25 Knowles (RES-36) Duplicate	100	85						
LCS 480-117635/5	Lab Control Sample	100	84						
MB 480-117635/6	Method Blank	103	84						

Surrogate Legend

12DCB = 1,2-Dichlorobenzene-d4

BFB = 4-Bromofluorobenzene (Surr)

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
		14DD8							
Lab Sample ID	Client Sample ID	(70-130)							
480-37259-6	25 Knowles (RES-36) Duplicate	90							
LCS 200-55414/2-A	Lab Control Sample	82							
MB 200-55414/1-A	Method Blank	88							

Surrogate Legend

14DD8 = 1,4-Dioxane-d8 (Surr)

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37259-2

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-117635/6
Matrix: Water
Analysis Batch: 117635

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/09/13 12:04	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/09/13 12:04	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/09/13 12:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/09/13 12:04	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/09/13 12:04	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/09/13 12:04	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/09/13 12:04	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/09/13 12:04	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/09/13 12:04	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/09/13 12:04	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/09/13 12:04	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/09/13 12:04	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/09/13 12:04	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/09/13 12:04	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/09/13 12:04	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/09/13 12:04	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/09/13 12:04	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/09/13 12:04	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/09/13 12:04	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/09/13 12:04	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/09/13 12:04	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/09/13 12:04	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/09/13 12:04	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/09/13 12:04	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/09/13 12:04	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/09/13 12:04	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/09/13 12:04	1
Acetone	ND		2.5	0.54	ug/L			05/09/13 12:04	1
Benzene	ND		0.50	0.13	ug/L			05/09/13 12:04	1
Bromobenzene	ND		0.50	0.13	ug/L			05/09/13 12:04	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/09/13 12:04	1
Bromoform	ND		0.50	0.13	ug/L			05/09/13 12:04	1
Bromomethane	ND		0.50	0.051	ug/L			05/09/13 12:04	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/09/13 12:04	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/09/13 12:04	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/09/13 12:04	1
Chloroethane	ND		0.50	0.070	ug/L			05/09/13 12:04	1
Chloroform	ND		0.50	0.14	ug/L			05/09/13 12:04	1
Chloromethane	ND		0.50	0.063	ug/L			05/09/13 12:04	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/09/13 12:04	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/09/13 12:04	1
Dibromomethane	ND		0.50	0.17	ug/L			05/09/13 12:04	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/09/13 12:04	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/09/13 12:04	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/09/13 12:04	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/09/13 12:04	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/09/13 12:04	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/09/13 12:04	1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-117635/6
Matrix: Water
Analysis Batch: 117635

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		0.50	0.25	ug/L			05/09/13 12:04	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/09/13 12:04	1
Naphthalene	ND		0.50	0.060	ug/L			05/09/13 12:04	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/09/13 12:04	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/09/13 12:04	1
o-Xylene	ND		0.50	0.044	ug/L			05/09/13 12:04	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/09/13 12:04	1
Styrene	ND		0.50	0.044	ug/L			05/09/13 12:04	1
t-Butanol	ND		10	2.5	ug/L			05/09/13 12:04	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/09/13 12:04	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/09/13 12:04	1
Toluene	ND		0.50	0.10	ug/L			05/09/13 12:04	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/09/13 12:04	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/09/13 12:04	1
Trichloroethene	ND		0.50	0.060	ug/L			05/09/13 12:04	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/09/13 12:04	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/09/13 12:04	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/09/13 12:04	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/09/13 12:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*103*		*80 - 120*		*05/09/13 12:04*	*1*
4-Bromofluorobenzene (Surr)	*84*		*80 - 120*		*05/09/13 12:04*	*1*

Lab Sample ID: LCS 480-117635/5
Matrix: Water
Analysis Batch: 117635

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	4.00	3.77		ug/L		94	70 - 130
1,1,1-Trichloroethane	4.00	3.70		ug/L		93	70 - 130
1,1,2,2-Tetrachloroethane	4.00	2.99		ug/L		75	70 - 130
1,1,2-Trichloroethane	4.00	3.41		ug/L		85	70 - 130
1,1-Dichloroethane	4.00	3.53		ug/L		88	70 - 130
1,1-Dichloroethene	4.00	3.34		ug/L		84	70 - 130
1,1-Dichloropropene	4.00	3.89		ug/L		97	70 - 130
1,2,3-Trichlorobenzene	4.00	4.46		ug/L		111	70 - 130
1,2,3-Trichloropropane	4.00	3.46		ug/L		87	70 - 130
1,2,4-Trichlorobenzene	4.00	4.39		ug/L		110	70 - 130
1,2,4-Trimethylbenzene	4.00	3.47		ug/L		87	70 - 130
1,2-Dibromo-3-Chloropropane	4.00	3.37		ug/L		84	70 - 130
1,2-Dibromoethane	4.00	3.65		ug/L		91	70 - 130
1,2-Dichlorobenzene	4.00	3.65		ug/L		91	70 - 130
1,2-Dichloroethane	4.00	4.20		ug/L		105	70 - 130
1,2-Dichloropropane	4.00	3.51		ug/L		88	70 - 130
1,3,5-Trimethylbenzene	4.00	3.44		ug/L		86	70 - 130
1,3-Dichlorobenzene	4.00	3.64		ug/L		91	70 - 130
1,3-Dichloropropane	4.00	3.52		ug/L		88	70 - 130

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-117635/5
Matrix: Water
Analysis Batch: 117635

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	4.00	3.59		ug/L		90	70 - 130
2,2-Dichloropropane	4.00	3.17		ug/L		79	70 - 130
2-Butanone (MEK)	20.0	19.5		ug/L		98	70 - 130
2-Chlorotoluene	4.00	3.36		ug/L		84	70 - 130
4-Chlorotoluene	4.00	3.32		ug/L		83	70 - 130
4-Isopropyltoluene	4.00	3.50		ug/L		87	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	18.7		ug/L		93	70 - 130
Acetone	20.0	21.7		ug/L		109	70 - 130
Benzene	4.00	3.64		ug/L		91	70 - 130
Bromobenzene	4.00	3.74		ug/L		93	70 - 130
Bromochloromethane	4.00	3.64		ug/L		91	70 - 130
Bromoform	4.00	3.52		ug/L		88	70 - 130
Bromomethane	4.00	3.56		ug/L		89	70 - 130
Carbon tetrachloride	4.00	3.82		ug/L		96	70 - 130
Chlorobenzene	4.00	3.63		ug/L		91	70 - 130
Chlorodibromomethane	4.00	3.66		ug/L		91	70 - 130
Chloroethane	4.00	4.16		ug/L		104	70 - 130
Chloroform	4.00	3.39		ug/L		85	70 - 130
Chloromethane	4.00	4.03		ug/L		101	70 - 130
cis-1,2-Dichloroethene	4.00	3.73		ug/L		93	70 - 130
cis-1,3-Dichloropropene	4.00	3.33		ug/L		83	70 - 130
Dibromomethane	4.00	3.58		ug/L		90	70 - 130
Dichlorobromomethane	4.00	3.55		ug/L		89	70 - 130
Dichlorodifluoromethane	4.00	3.81		ug/L		95	70 - 130
Ethylbenzene	4.00	3.56		ug/L		89	70 - 130
Hexachlorobutadiene	4.00	4.59		ug/L		115	70 - 130
Isopropylbenzene	4.00	3.20		ug/L		80	70 - 130
Methyl tert-butyl ether	4.00	3.38		ug/L		85	70 - 130
Methylene Chloride	4.00	3.31		ug/L		83	70 - 130
Naphthalene	4.00	4.55		ug/L		114	70 - 130
n-Butylbenzene	4.00	3.29		ug/L		82	70 - 130
N-Propylbenzene	4.00	3.26		ug/L		81	70 - 130
sec-Butylbenzene	4.00	3.41		ug/L		85	70 - 130
Styrene	4.00	3.52		ug/L		88	70 - 130
tert-Butylbenzene	4.00	3.66		ug/L		92	70 - 130
Tetrachloroethene	4.00	3.81		ug/L		95	70 - 130
Toluene	4.00	3.38		ug/L		85	70 - 130
trans-1,2-Dichloroethene	4.00	3.49		ug/L		87	70 - 130
trans-1,3-Dichloropropene	4.00	3.23		ug/L		81	70 - 130
Trichloroethene	4.00	3.71		ug/L		93	70 - 130
Trichlorofluoromethane	4.00	4.17		ug/L		104	70 - 130
Vinyl chloride	4.00	4.29		ug/L		107	70 - 130
Xylenes, Total	12.0	10.7		ug/L		89	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichlorobenzene-d4	*100*		*80 - 120*
4-Bromofluorobenzene (Surr)	*84*		*80 - 120*

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37259-2

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Lab Sample ID: MB 200-55414/1-A
Matrix: Water
Analysis Batch: 55420

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 55414

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		05/11/13 08:39	05/13/13 09:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*88*		*70 - 130*	*05/11/13 08:39*	*05/13/13 09:20*	*1*

Lab Sample ID: LCS 200-55414/2-A
Matrix: Water
Analysis Batch: 55420

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 55414

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane			8.00	6.61		ug/L		83	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,4-Dioxane-d8 (Surr)	*82*		*70 - 130*

QC Association Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37259-2

GC/MS VOA

Analysis Batch: 117635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-37259-6	25 Knowles (RES-36) Duplicate	Total/NA	Water	524.2	
LCS 480-117635/5	Lab Control Sample	Total/NA	Water	524.2	
MB 480-117635/6	Method Blank	Total/NA	Water	524.2	

GC/MS Semi VOA

Prep Batch: 55362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-37259-6	25 Knowles (RES-36) Duplicate	Total/NA	Water	3535A	

Prep Batch: 55414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 200-55414/2-A	Lab Control Sample	Total/NA	Water	3535A	
MB 200-55414/1-A	Method Blank	Total/NA	Water	3535A	

Analysis Batch: 55420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-37259-6	25 Knowles (RES-36) Duplicate	Total/NA	Water	522 MOD	55362
LCS 200-55414/2-A	Lab Control Sample	Total/NA	Water	522 MOD	55414
MB 200-55414/1-A	Method Blank	Total/NA	Water	522 MOD	55414

Lab Chronicle

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37259-2

Client Sample ID: 25 Knowles (RES-36) Duplicate

Lab Sample ID: 480-37259-6

Date Collected: 04/26/13 09:15

Matrix: Water

Date Received: 04/30/13 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	117635	05/09/13 12:30	CDC	TAL BUF
Total/NA	Prep	3535A			55362	05/10/13 09:02	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55420	05/13/13 12:03	RJH	TAL BUR

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Certification Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37259-2

Laboratory: TestAmerica Buffalo

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-13
California	NELAP	9	1169CA	09-30-13
Connecticut	State Program	1	PH-0568	09-30-14
Florida	NELAP	4	E87672	06-30-13
Georgia	State Program	4	N/A	03-31-14
Georgia	State Program	4	956	06-30-13
Georgia	State Program	4	956	03-31-14
Illinois	NELAP	5	200003	09-30-13
Iowa	State Program	7	374	03-15-15
Kansas	NELAP	7	E-10187	01-31-14
Kentucky	State Program	4	90029	12-31-13
Kentucky (UST)	State Program	4	30	04-01-14
Louisiana	NELAP	6	02031	06-30-13
Maine	State Program	1	NY00044	12-04-13
Maryland	State Program	3	294	03-31-14
Massachusetts	State Program	1	M-NY044	06-30-13
Michigan	State Program	5	9937	04-01-13 *
Minnesota	NELAP	5	036-999-337	12-31-13
New Hampshire	NELAP	1	2973	09-11-13
New Hampshire	NELAP	1	2337	11-17-13
New Jersey	NELAP	2	NY455	06-30-13
New York	NELAP	2	10026	04-01-14
North Dakota	State Program	8	R-176	03-31-14
Oklahoma	State Program	6	9421	08-31-13
Oregon	NELAP	10	NY200003	06-09-13
Pennsylvania	NELAP	3	68-00281	07-31-13
Rhode Island	State Program	1	LAO00328	12-31-13
Tennessee	State Program	4	TN02970	04-01-14
Texas	NELAP	6	T104704412-11-2	07-31-13
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAP	3	460185	09-14-13
Washington	State Program	10	C784	02-10-14
West Virginia DEP	State Program	3	252	09-30-13
Wisconsin	State Program	5	998310390	08-31-13

Laboratory: TestAmerica Burlington

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Connecticut	State Program	1	PH-0751	09-30-13
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-13-15
Florida	NELAP	4	E87467	06-30-13
L-A-B	DoD ELAP		L2336	10-26-13
Louisiana	NELAP	6	176292	06-30-13
Minnesota	NELAP	5	050-999-436	12-31-13
New Hampshire	NELAP	1	2006	12-18-13
New Jersey	NELAP	2	VT972	06-30-13
New York	NELAP	2	10391	04-01-14
Pennsylvania	NELAP	3	68-00489	04-30-14
USDA	Federal		P330-11-00093	02-17-14

* Expired certification is currently pending renewal and is considered valid.

Certification Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37259-2

Laboratory: TestAmerica Burlington (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Vermont	State Program	1	VT-4000	12-31-13
Virginia	NELAP	3	460209	12-14-13

Method Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37259-2

Method	Method Description	Protocol	Laboratory
524.2	Volatile Organic Compounds (GC/MS)	EPA-DW	TAL BUF
522 MOD	1,4 Dioxane (GC/MS SIM)	EPA	TAL BUR

Protocol References:

EPA = US Environmental Protection Agency

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37259-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-37259-6	25 Knowles (RES-36) Duplicate	Water	04/26/13 09:15	04/30/13 01:15

Login Sample Receipt Checklist

Client: Bennett Environmental Associates, Inc.

Job Number: 480-37259-2

Login Number: 37259

List Source: TestAmerica Buffalo

List Number: 1

Creator: Wienke, Robert

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	BEA
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	True	Lab to check

Login Sample Receipt Checklist

Client: Bennett Environmental Associates, Inc.

Job Number: 480-37259-2

Login Number: 37259
List Number: 1
Creator: Poucher, Stephanie A

List Source: TestAmerica Burlington
List Creation: 05/01/13 12:53 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	708992, 993
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.6ºC, 1.2ºC IR GUN ID 181. CF 0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.

Login Sample Receipt Checklist

Client: Bennett Environmental Associates, Inc.

Job Number: 480-37259-2

Login Number: 37259
List Number: 2
Creator: Poucher, Stephanie A

List Source: TestAmerica Burlington
List Creation: 05/03/13 12:23 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	709096, 097
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.4ºC, 4.6ºC IR GUN ID 181. CF 0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.

						Sample ID	25 Knowles (RES-36) Duplicate
						Sampled By	
						Sample Collection Date	04/26/2013 09:15
						Laboratory Order Number	480-37259-6
Parameter	**Reporting Units**	**GW1**	**GW2**	**RCGW1**	**RCGW2**	**DW MMCL**	
Volatiles by 524.2							
1,1,1,2-Tetrachloroethane	ug/l	5	10	5	10	NA	< 0.50
1,1,1-Trichloroethane	ug/l	200	4000	200	4000	200	< 0.50
1,1,2,2-Tetrachloroethane	ug/l	2	9	2	9	NA	< 0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/l	NA	NA	NA	NA	NA	< 0.50
1,1,2-Trichloroethane	ug/l	5	900	5	900	5	< 0.50
1,1-Dichloroethane	ug/l	70	1000	70	1000	NA	0.21J
1,1-Dichloroethene	ug/l	7	80	7	80	7	< 0.50
1,1-Dichloropropene	ug/l	NA	NA	NA	NA	NA	< 0.50
1,2,3-Trichlorobenzene	ug/l	NA	NA	NA	NA	NA	< 0.50
1,2,3-Trichloropropane	ug/l	NA	NA	1000	10000	NA	< 0.50
1,2,4-Trichlorobenzene	ug/l	70	2000	70	2000	70	< 0.50
1,2,4-Trimethylbenzene	ug/l	NA	NA	10000	100000	NA	< 0.50
1,2-Dibromo-3-Chloropropane	ug/l	NA	NA	100	1000	0.2	**< 0.50**
1,2-Dibromoethane	ug/l	0.02	2	0.02	2	0.02	**< 0.50**
1,2-Dichlorobenzene	ug/l	600	2000	600	2000	600	< 0.50
1,2-Dichloroethane	ug/l	5	5	5	5	5	< 0.50
1,2-Dichloropropane	ug/l	5	3	3	3	5	< 0.50
1,3,5-Trimethylbenzene	ug/l	NA	NA	100	1000	NA	< 0.50
1,3-Dichlorobenzene	ug/l	40	2000	40	2000	NA	< 0.50
1,3-Dichloropropane	ug/l	NA	NA	5000	50000	NA	< 0.50
1,4-Dichlorobenzene	ug/l	5	200	5	200	5	< 0.50
2,2-Dichloropropane	ug/l	NA	NA	NA	NA	NA	< 0.50
2-Butanone (MEK)	ug/l	4000	50000	4000	50000	NA	< 2.5
2-Chlorotoluene	ug/l	NA	NA	1000	10000	NA	< 0.50
4-Chlorotoluene	ug/l	NA	NA	NA	NA	NA	< 0.50
4-Isopropyltoluene	ug/l	NA	NA	1000	10000	NA	< 0.50
4-Methyl-2-pentanone (MIBK)	ug/l	350	50000	350	50000	NA	< 2.5
Acetone	ug/l	6300	50000	6300	50000	NA	< 2.5
Benzene	ug/l	5	2000	5	2000	5	< 0.50
Bromobenzene	ug/l	NA	NA	1000	10000	NA	< 0.50
Bromochloromethane	ug/l	NA	NA	NA	NA	NA	< 0.50
Bromoform	ug/l	4	700	4	700	NA	< 0.50
Bromomethane	ug/l	10	7	7	7	NA	< 0.50
Carbon tetrachloride	ug/l	5	2	2	2	5	< 0.50
Chlorobenzene	ug/l	100	200	100	200	100	< 0.50
Chlorodibromomethane	ug/l	2	20	2	20	NA	< 0.50
Chloroethane	ug/l	NA	NA	1000	10000	NA	< 0.50
Chloroform	ug/l	70	50	50	50	NA	0.34J
Chloromethane	ug/l	NA	NA	1000	10000	NA	< 0.50
cis-1,2-Dichloroethene	ug/l	70	100	70	100	NA	1.7
cis-1,3-Dichloropropene	ug/l	NA	NA	0.5	5	NA	< 0.50
Dibromomethane	ug/l	NA	NA	5000	50000	NA	< 0.50
Dichlorobromomethane	ug/l	3	6	3	6	NA	< 0.50
Dichlorodifluoromethane	ug/l	NA	NA	10000	100000	NA	< 0.50
Ethylbenzene	ug/l	700	20000	700	5000	700	< 0.50
Hexachlorobutadiene	ug/l	0.6	1	0.6	1	NA	< 0.50
Isopropylbenzene	ug/l	NA	NA	10000	100000	NA	< 0.50
Methyl tert-butyl ether	ug/l	70	50000	70	5000	NA	0.23J
Methylene Chloride	ug/l	5	10000	5	10000	5	< 0.50
m-Xylene & p-Xylene	ug/l	10000	9000	5000	5000	NA	< 1.0
Naphthalene	ug/l	140	1000	140	1000	NA	< 0.50
n-Butylbenzene	ug/l	NA	NA	NA	NA	NA	< 0.50
N-Propylbenzene	ug/l	NA	NA	1000	10000	NA	< 0.50
o-Xylene	ug/l	10000	9000	5000	5000	NA	< 0.50
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	< 0.50
Styrene	ug/l	100	100	100	100	100	< 0.50
t-Butanol	ug/l	NA	NA	NA	NA	NA	< 10
tert-Butylbenzene	ug/l	NA	NA	1000	10000	NA	< 0.50
Tetrachloroethene	ug/l	5	50	5	50	5	< 0.50
Toluene	ug/l	1000	50000	1000	40000	1000	< 0.50
trans-1,2-Dichloroethene	ug/l	100	90	90	90	100	< 0.50
trans-1,3-Dichloropropene	ug/l	NA	NA	0.5	5	NA	< 0.50
Trichloroethene	ug/l	5	30	5	30	5	< 0.50
Trichlorofluoromethane	ug/l	NA	NA	10000	100000	NA	< 0.50
Trihalomethanes, Total	ug/l	NA	NA	NA	NA	NA	< 2.0
Vinyl chloride	ug/l	2	2	2	2	2	< 0.50
Xylenes, Total	ug/l	10000	9000	5000	5000	NA	< 1.0
Semivolatiles by 522 MOD							
1,4-Dioxane	ug/l	3	6000	3	6000	NA	2.6

Notes:
ug/l - micrograms/liter
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
GW1 - Concentrations based on the use of groundwater as drinking water, either currently or in the foreseeable future.
GW2 - Concentrations based on the potential for volatile material to migrate into indoor air.
GW3 - Concentrations based on the potential environmental effects resulting from contaminated groundwater discharging to surface water.
RC - Risk Characterization approach, Standards may be supplemented or modified with site- and chemical-specific information.
UCL - Upper Concentration Limits in groundwater and soil are promulgated to minimize potential risks associated with uncontrolled environmental contamination, and the costs associated with cumulative anthropogenic con

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-37261-1
Client Project/Site: Eastham Landfill IRA
Revision: 1

For:
Bennett Environmental Associates, Inc.
1573 Main St.
Brewster, Massachusetts 02631

Attn: David Bennett

Authorized for release by:
5/9/2013 5:19:29 PM

Steve Hartmann, Lab Director
steve.hartmann@testamericainc.com

Links

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37261-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-37261-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-37261-1

Revision 1: This revision corrects the client sample ID 480-37261-7 from 255 Alston to 225 Alston. This report replaces the final report generated on 5/9/2013 9:24:48 AM.

Comments
No additional comments.

Receipt
The samples were received on 4/30/2013 1:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.2º C and 2.9º C.

GC/MS VOA
Method(s) 524.2: The laboratory control sample (LCS) for batch 116083 recovered outside control limits for the following analyte: Bromomethane. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

No other analytical or quality issues were noted.

GC/MS Semi VOA
No analytical or quality issues were noted.

Detection Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37261-1

Client Sample ID: 55 Deerfield — Lab Sample ID: 480-37261-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.39	J	0.50	0.14	ug/L	1		524.2	Total/NA
1,4-Dioxane	0.062	J	0.20	0.041	ug/L	1		522 MOD	Total/NA

Client Sample ID: 310 Old Orchard — Lab Sample ID: 480-37261-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.40	J	0.50	0.14	ug/L	1		524.2	Total/NA
Methyl tert-butyl ether	0.14	J	0.50	0.12	ug/L	1		524.2	Total/NA
1,4-Dioxane	0.41		0.20	0.041	ug/L	1		522 MOD	Total/NA

Client Sample ID: 4 Fairview — Lab Sample ID: 480-37261-5

No Detections.

Client Sample ID: 225 Alston — Lab Sample ID: 480-37261-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.099	J	0.50	0.074	ug/L	1		524.2	Total/NA
Chloroform	0.23	J	0.50	0.14	ug/L	1		524.2	Total/NA
cis-1,2-Dichloroethene	0.23	J	0.50	0.12	ug/L	1		524.2	Total/NA
Dichlorodifluoromethane	0.11	J	0.50	0.070	ug/L	1		524.2	Total/NA
Vinyl chloride	0.075	J	0.50	0.059	ug/L	1		524.2	Total/NA
1,4-Dioxane	1.2		0.20	0.041	ug/L	1		522 MOD	Total/NA

Client Sample ID: 11 Elda — Lab Sample ID: 480-37261-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.20	J	0.50	0.074	ug/L	1		524.2	Total/NA
Benzene	0.20	J	0.50	0.13	ug/L	1		524.2	Total/NA
cis-1,2-Dichloroethene	0.78		0.50	0.12	ug/L	1		524.2	Total/NA
Methyl tert-butyl ether	1.2		0.50	0.12	ug/L	1		524.2	Total/NA
t-Butanol	3.7	J	10	2.5	ug/L	1		524.2	Total/NA
Vinyl chloride	0.22	J	0.50	0.059	ug/L	1		524.2	Total/NA
1,4-Dioxane	4.2		0.20	0.041	ug/L	1		522 MOD	Total/NA

Client Sample ID: 30 Knowles — Lab Sample ID: 480-37261-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.36	J	0.50	0.074	ug/L	1		524.2	Total/NA
Acetone	0.92	J	2.5	0.54	ug/L	1		524.2	Total/NA
Benzene	0.31	J	0.50	0.13	ug/L	1		524.2	Total/NA
Chloroform	0.20	J	0.50	0.14	ug/L	1		524.2	Total/NA
Chloromethane	0.080	J	0.50	0.063	ug/L	1		524.2	Total/NA
cis-1,2-Dichloroethene	1.8		0.50	0.12	ug/L	1		524.2	Total/NA
Dichlorodifluoromethane	0.25	J	0.50	0.070	ug/L	1		524.2	Total/NA
Methyl tert-butyl ether	0.85		0.50	0.12	ug/L	1		524.2	Total/NA
t-Butanol	6.1	J	10	2.5	ug/L	1		524.2	Total/NA
Vinyl chloride	0.18	J	0.50	0.059	ug/L	1		524.2	Total/NA
1,4-Dioxane	6.0		0.20	0.041	ug/L	1		522 MOD	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37261-1

Client Sample ID: 325 Schoolhouse Inf — Lab Sample ID: 480-37261-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.36	J	0.50	0.074	ug/L	1		524.2	Total/NA
Benzene	0.57		0.50	0.13	ug/L	1		524.2	Total/NA
Chloroethane	0.51		0.50	0.070	ug/L	1		524.2	Total/NA
cis-1,2-Dichloroethene	1.9		0.50	0.12	ug/L	1		524.2	Total/NA
Methyl tert-butyl ether	1.6		0.50	0.12	ug/L	1		524.2	Total/NA
t-Butanol	9.8	J	10	2.5	ug/L	1		524.2	Total/NA
Vinyl chloride	0.23	J	0.50	0.059	ug/L	1		524.2	Total/NA
1,4-Dioxane	9.8		0.40	0.082	ug/L	2		522 MOD	Total/NA

Client Sample ID: 20 Guerrera 59 — Lab Sample ID: 480-37261-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.15	J	0.20	0.041	ug/L	1		522 MOD	Total/NA

Client Sample ID: 20 Guerrera 42 — Lab Sample ID: 480-37261-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.88	J	2.5	0.54	ug/L	1		524.2	Total/NA
Chloroform	0.49	J	0.50	0.14	ug/L	1		524.2	Total/NA

Client Sample ID: 1 Whidah — Lab Sample ID: 480-37261-19

No Detections.

Client Sample ID: 325 Schoolhouse Int — Lab Sample ID: 480-37261-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.67	J	2.5	0.54	ug/L	1		524.2	Total/NA

Client Sample ID: 325 Schoolhouse Eff — Lab Sample ID: 480-37261-23

No Detections.

Client Sample ID: Trip Blank — Lab Sample ID: 480-37261-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.0	J	2.5	0.54	ug/L	1		524.2	Total/NA
Methylene Chloride	0.59		0.50	0.25	ug/L	1		524.2	Total/NA
1,4-Dioxane	0.083	J	0.20	0.041	ug/L	1		522 MOD	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37261-1

Client Sample ID: 55 Deerfield
Date Collected: 04/29/13 10:05
Date Received: 04/30/13 01:15

Lab Sample ID: 480-37261-1
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/01/13 13:46	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/01/13 13:46	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/01/13 13:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/01/13 13:46	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/01/13 13:46	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/01/13 13:46	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/01/13 13:46	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/01/13 13:46	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/01/13 13:46	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/01/13 13:46	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/01/13 13:46	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/01/13 13:46	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/01/13 13:46	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/01/13 13:46	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/01/13 13:46	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/01/13 13:46	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/01/13 13:46	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/01/13 13:46	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/01/13 13:46	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/01/13 13:46	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/01/13 13:46	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/01/13 13:46	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/01/13 13:46	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/01/13 13:46	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/01/13 13:46	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/01/13 13:46	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/01/13 13:46	1
Acetone	ND		2.5	0.54	ug/L			05/01/13 13:46	1
Benzene	ND		0.50	0.13	ug/L			05/01/13 13:46	1
Bromobenzene	ND		0.50	0.13	ug/L			05/01/13 13:46	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/01/13 13:46	1
Bromoform	ND		0.50	0.13	ug/L			05/01/13 13:46	1
Bromomethane	ND	*	0.50	0.051	ug/L			05/01/13 13:46	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/01/13 13:46	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/01/13 13:46	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/01/13 13:46	1
Chloroethane	ND		0.50	0.070	ug/L			05/01/13 13:46	1
Chloroform	**0.39**	**J**	0.50	0.14	ug/L			05/01/13 13:46	1
Chloromethane	ND		0.50	0.063	ug/L			05/01/13 13:46	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/01/13 13:46	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/01/13 13:46	1
Dibromomethane	ND		0.50	0.17	ug/L			05/01/13 13:46	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/01/13 13:46	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/01/13 13:46	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/01/13 13:46	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/01/13 13:46	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/01/13 13:46	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/01/13 13:46	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/01/13 13:46	1

Client Sample ID: 55 Deerfield

Lab Sample ID: 480-37261-1

Date Collected: 04/29/13 10:05

Matrix: Water

Date Received: 04/30/13 01:15

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/01/13 13:46	1
Naphthalene	ND		0.50	0.060	ug/L			05/01/13 13:46	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/01/13 13:46	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/01/13 13:46	1
o-Xylene	ND		0.50	0.044	ug/L			05/01/13 13:46	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/01/13 13:46	1
Styrene	ND		0.50	0.044	ug/L			05/01/13 13:46	1
t-Butanol	ND		10	2.5	ug/L			05/01/13 13:46	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/01/13 13:46	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/01/13 13:46	1
Toluene	ND		0.50	0.10	ug/L			05/01/13 13:46	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/01/13 13:46	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/01/13 13:46	1
Trichloroethene	ND		0.50	0.060	ug/L			05/01/13 13:46	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/01/13 13:46	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/01/13 13:46	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/01/13 13:46	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/01/13 13:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*103*		*80 - 120*		*05/01/13 13:46*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*05/01/13 13:46*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**0.062**	**J**	0.20	0.041	ug/L		05/03/13 08:49	05/03/13 14:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*89*		*70 - 130*	*05/03/13 08:49*	*05/03/13 14:06*	*1*

Client Sample ID: 310 Old Orchard

Lab Sample ID: 480-37261-3

Date Collected: 04/29/13 11:55

Matrix: Water

Date Received: 04/30/13 01:15

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/02/13 12:47	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/02/13 12:47	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/02/13 12:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/02/13 12:47	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/02/13 12:47	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/02/13 12:47	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/02/13 12:47	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/02/13 12:47	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/02/13 12:47	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/02/13 12:47	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/02/13 12:47	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/02/13 12:47	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/02/13 12:47	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/02/13 12:47	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37261-1

Client Sample ID: 310 Old Orchard
Date Collected: 04/29/13 11:55
Date Received: 04/30/13 01:15

Lab Sample ID: 480-37261-3
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/02/13 12:47	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/02/13 12:47	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/02/13 12:47	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/02/13 12:47	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/02/13 12:47	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/02/13 12:47	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/02/13 12:47	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/02/13 12:47	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/02/13 12:47	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/02/13 12:47	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/02/13 12:47	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/02/13 12:47	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/02/13 12:47	1
Acetone	ND		2.5	0.54	ug/L			05/02/13 12:47	1
Benzene	ND		0.50	0.13	ug/L			05/02/13 12:47	1
Bromobenzene	ND		0.50	0.13	ug/L			05/02/13 12:47	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/02/13 12:47	1
Bromoform	ND		0.50	0.13	ug/L			05/02/13 12:47	1
Bromomethane	ND		0.50	0.051	ug/L			05/02/13 12:47	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/02/13 12:47	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/02/13 12:47	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/02/13 12:47	1
Chloroethane	ND		0.50	0.070	ug/L			05/02/13 12:47	1
Chloroform	**0.40**	**J**	0.50	0.14	ug/L			05/02/13 12:47	1
Chloromethane	ND		0.50	0.063	ug/L			05/02/13 12:47	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/02/13 12:47	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/02/13 12:47	1
Dibromomethane	ND		0.50	0.17	ug/L			05/02/13 12:47	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/02/13 12:47	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/02/13 12:47	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/02/13 12:47	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/02/13 12:47	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/02/13 12:47	1
Methyl tert-butyl ether	**0.14**	**J**	0.50	0.12	ug/L			05/02/13 12:47	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/02/13 12:47	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/02/13 12:47	1
Naphthalene	ND		0.50	0.060	ug/L			05/02/13 12:47	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/02/13 12:47	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/02/13 12:47	1
o-Xylene	ND		0.50	0.044	ug/L			05/02/13 12:47	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/02/13 12:47	1
Styrene	ND		0.50	0.044	ug/L			05/02/13 12:47	1
t-Butanol	ND		10	2.5	ug/L			05/02/13 12:47	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/02/13 12:47	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/02/13 12:47	1
Toluene	ND		0.50	0.10	ug/L			05/02/13 12:47	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/02/13 12:47	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/02/13 12:47	1
Trichloroethene	ND		0.50	0.060	ug/L			05/02/13 12:47	1

Client Sample ID: 310 Old Orchard

Lab Sample ID: 480-37261-3

Date Collected: 04/29/13 11:55

Matrix: Water

Date Received: 04/30/13 01:15

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/02/13 12:47	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/02/13 12:47	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/02/13 12:47	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/02/13 12:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*99*		*80 - 120*		*05/02/13 12:47*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*05/02/13 12:47*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**0.41**		0.20	0.041	ug/L		05/02/13 14:00	05/02/13 18:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*91*		*70 - 130*	*05/02/13 14:00*	*05/02/13 18:05*	*1*

Client Sample ID: 4 Fairview

Lab Sample ID: 480-37261-5

Date Collected: 04/29/13 11:05

Matrix: Water

Date Received: 04/30/13 01:15

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/01/13 14:37	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/01/13 14:37	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/01/13 14:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/01/13 14:37	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/01/13 14:37	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/01/13 14:37	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/01/13 14:37	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/01/13 14:37	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/01/13 14:37	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/01/13 14:37	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/01/13 14:37	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/01/13 14:37	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/01/13 14:37	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/01/13 14:37	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/01/13 14:37	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/01/13 14:37	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/01/13 14:37	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/01/13 14:37	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/01/13 14:37	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/01/13 14:37	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/01/13 14:37	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/01/13 14:37	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/01/13 14:37	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/01/13 14:37	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/01/13 14:37	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/01/13 14:37	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/01/13 14:37	1
Acetone	ND		2.5	0.54	ug/L			05/01/13 14:37	1

Client Sample ID: 4 Fairview
Date Collected: 04/29/13 11:05
Date Received: 04/30/13 01:15

Lab Sample ID: 480-37261-5
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.13	ug/L			05/01/13 14:37	1
Bromobenzene	ND		0.50	0.13	ug/L			05/01/13 14:37	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/01/13 14:37	1
Bromoform	ND		0.50	0.13	ug/L			05/01/13 14:37	1
Bromomethane	ND	*	0.50	0.051	ug/L			05/01/13 14:37	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/01/13 14:37	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/01/13 14:37	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/01/13 14:37	1
Chloroethane	ND		0.50	0.070	ug/L			05/01/13 14:37	1
Chloroform	ND		0.50	0.14	ug/L			05/01/13 14:37	1
Chloromethane	ND		0.50	0.063	ug/L			05/01/13 14:37	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/01/13 14:37	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/01/13 14:37	1
Dibromomethane	ND		0.50	0.17	ug/L			05/01/13 14:37	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/01/13 14:37	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/01/13 14:37	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/01/13 14:37	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/01/13 14:37	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/01/13 14:37	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/01/13 14:37	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/01/13 14:37	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/01/13 14:37	1
Naphthalene	ND		0.50	0.060	ug/L			05/01/13 14:37	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/01/13 14:37	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/01/13 14:37	1
o-Xylene	ND		0.50	0.044	ug/L			05/01/13 14:37	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/01/13 14:37	1
Styrene	ND		0.50	0.044	ug/L			05/01/13 14:37	1
t-Butanol	ND		10	2.5	ug/L			05/01/13 14:37	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/01/13 14:37	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/01/13 14:37	1
Toluene	ND		0.50	0.10	ug/L			05/01/13 14:37	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/01/13 14:37	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/01/13 14:37	1
Trichloroethene	ND		0.50	0.060	ug/L			05/01/13 14:37	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/01/13 14:37	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/01/13 14:37	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/01/13 14:37	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/01/13 14:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*101*		*80 - 120*		*05/01/13 14:37*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*05/01/13 14:37*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		05/02/13 14:00	05/02/13 18:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*94*		*70 - 130*	*05/02/13 14:00*	*05/02/13 18:22*	*1*

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37261-1

Client Sample ID: 225 Alston
Date Collected: 04/29/13 12:45
Date Received: 04/30/13 01:15

Lab Sample ID: 480-37261-7
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/01/13 15:02	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/01/13 15:02	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/01/13 15:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/01/13 15:02	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/01/13 15:02	1
1,1-Dichloroethane	**0.099**	**J**	0.50	0.074	ug/L			05/01/13 15:02	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/01/13 15:02	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/01/13 15:02	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/01/13 15:02	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/01/13 15:02	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/01/13 15:02	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/01/13 15:02	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/01/13 15:02	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/01/13 15:02	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/01/13 15:02	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/01/13 15:02	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/01/13 15:02	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/01/13 15:02	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/01/13 15:02	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/01/13 15:02	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/01/13 15:02	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/01/13 15:02	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/01/13 15:02	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/01/13 15:02	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/01/13 15:02	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/01/13 15:02	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/01/13 15:02	1
Acetone	ND		2.5	0.54	ug/L			05/01/13 15:02	1
Benzene	ND		0.50	0.13	ug/L			05/01/13 15:02	1
Bromobenzene	ND		0.50	0.13	ug/L			05/01/13 15:02	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/01/13 15:02	1
Bromoform	ND		0.50	0.13	ug/L			05/01/13 15:02	1
Bromomethane	ND	*	0.50	0.051	ug/L			05/01/13 15:02	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/01/13 15:02	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/01/13 15:02	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/01/13 15:02	1
Chloroethane	ND		0.50	0.070	ug/L			05/01/13 15:02	1
Chloroform	**0.23**	**J**	0.50	0.14	ug/L			05/01/13 15:02	1
Chloromethane	ND		0.50	0.063	ug/L			05/01/13 15:02	1
cis-1,2-Dichloroethene	**0.23**	**J**	0.50	0.12	ug/L			05/01/13 15:02	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/01/13 15:02	1
Dibromomethane	ND		0.50	0.17	ug/L			05/01/13 15:02	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/01/13 15:02	1
Dichlorodifluoromethane	**0.11**	**J**	0.50	0.070	ug/L			05/01/13 15:02	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/01/13 15:02	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/01/13 15:02	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/01/13 15:02	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/01/13 15:02	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/01/13 15:02	1

Client Sample ID: 225 Alston

Lab Sample ID: 480-37261-7

Date Collected: 04/29/13 12:45

Matrix: Water

Date Received: 04/30/13 01:15

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/01/13 15:02	1
Naphthalene	ND		0.50	0.060	ug/L			05/01/13 15:02	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/01/13 15:02	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/01/13 15:02	1
o-Xylene	ND		0.50	0.044	ug/L			05/01/13 15:02	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/01/13 15:02	1
Styrene	ND		0.50	0.044	ug/L			05/01/13 15:02	1
t-Butanol	ND		10	2.5	ug/L			05/01/13 15:02	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/01/13 15:02	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/01/13 15:02	1
Toluene	ND		0.50	0.10	ug/L			05/01/13 15:02	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/01/13 15:02	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/01/13 15:02	1
Trichloroethene	ND		0.50	0.060	ug/L			05/01/13 15:02	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/01/13 15:02	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/01/13 15:02	1
Vinyl chloride	**0.075**	**J**	0.50	0.059	ug/L			05/01/13 15:02	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/01/13 15:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*101*		*80 - 120*		*05/01/13 15:02*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*05/01/13 15:02*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**1.2**		0.20	0.041	ug/L		05/02/13 14:00	05/02/13 18:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*99*		*70 - 130*	*05/02/13 14:00*	*05/02/13 18:38*	*1*

Client Sample ID: 11 Elda

Lab Sample ID: 480-37261-9

Date Collected: 04/29/13 14:10

Matrix: Water

Date Received: 04/30/13 01:15

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/01/13 15:28	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/01/13 15:28	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/01/13 15:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/01/13 15:28	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/01/13 15:28	1
1,1-Dichloroethane	**0.20**	**J**	0.50	0.074	ug/L			05/01/13 15:28	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/01/13 15:28	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/01/13 15:28	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/01/13 15:28	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/01/13 15:28	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/01/13 15:28	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/01/13 15:28	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/01/13 15:28	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/01/13 15:28	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37261-1

Client Sample ID: 11 Elda
Date Collected: 04/29/13 14:10
Date Received: 04/30/13 01:15

Lab Sample ID: 480-37261-9
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/01/13 15:28	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/01/13 15:28	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/01/13 15:28	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/01/13 15:28	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/01/13 15:28	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/01/13 15:28	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/01/13 15:28	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/01/13 15:28	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/01/13 15:28	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/01/13 15:28	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/01/13 15:28	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/01/13 15:28	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/01/13 15:28	1
Acetone	ND		2.5	0.54	ug/L			05/01/13 15:28	1
Benzene	**0.20**	**J**	0.50	0.13	ug/L			05/01/13 15:28	1
Bromobenzene	ND		0.50	0.13	ug/L			05/01/13 15:28	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/01/13 15:28	1
Bromoform	ND		0.50	0.13	ug/L			05/01/13 15:28	1
Bromomethane	ND	*	0.50	0.051	ug/L			05/01/13 15:28	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/01/13 15:28	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/01/13 15:28	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/01/13 15:28	1
Chloroethane	ND		0.50	0.070	ug/L			05/01/13 15:28	1
Chloroform	ND		0.50	0.14	ug/L			05/01/13 15:28	1
Chloromethane	ND		0.50	0.063	ug/L			05/01/13 15:28	1
cis-1,2-Dichloroethene	**0.78**		0.50	0.12	ug/L			05/01/13 15:28	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/01/13 15:28	1
Dibromomethane	ND		0.50	0.17	ug/L			05/01/13 15:28	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/01/13 15:28	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/01/13 15:28	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/01/13 15:28	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/01/13 15:28	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/01/13 15:28	1
Methyl tert-butyl ether	**1.2**		0.50	0.12	ug/L			05/01/13 15:28	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/01/13 15:28	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/01/13 15:28	1
Naphthalene	ND		0.50	0.060	ug/L			05/01/13 15:28	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/01/13 15:28	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/01/13 15:28	1
o-Xylene	ND		0.50	0.044	ug/L			05/01/13 15:28	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/01/13 15:28	1
Styrene	ND		0.50	0.044	ug/L			05/01/13 15:28	1
t-Butanol	**3.7**	**J**	10	2.5	ug/L			05/01/13 15:28	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/01/13 15:28	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/01/13 15:28	1
Toluene	ND		0.50	0.10	ug/L			05/01/13 15:28	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/01/13 15:28	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/01/13 15:28	1
Trichloroethene	ND		0.50	0.060	ug/L			05/01/13 15:28	1

Client Sample ID: 11 Elda
Date Collected: 04/29/13 14:10
Date Received: 04/30/13 01:15

Lab Sample ID: 480-37261-9
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/01/13 15:28	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/01/13 15:28	1
Vinyl chloride	**0.22**	**J**	0.50	0.059	ug/L			05/01/13 15:28	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/01/13 15:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*102*		*80 - 120*		*05/01/13 15:28*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*05/01/13 15:28*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**4.2**		0.20	0.041	ug/L		05/02/13 14:00	05/02/13 18:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*99*		*70 - 130*	*05/02/13 14:00*	*05/02/13 18:54*	*1*

Client Sample ID: 30 Knowles
Date Collected: 04/29/13 09:30
Date Received: 04/30/13 01:15

Lab Sample ID: 480-37261-11
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/01/13 15:54	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/01/13 15:54	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/01/13 15:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/01/13 15:54	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/01/13 15:54	1
1,1-Dichloroethane	**0.36**	**J**	0.50	0.074	ug/L			05/01/13 15:54	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/01/13 15:54	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/01/13 15:54	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/01/13 15:54	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/01/13 15:54	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/01/13 15:54	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/01/13 15:54	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/01/13 15:54	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/01/13 15:54	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/01/13 15:54	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/01/13 15:54	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/01/13 15:54	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/01/13 15:54	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/01/13 15:54	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/01/13 15:54	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/01/13 15:54	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/01/13 15:54	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/01/13 15:54	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/01/13 15:54	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/01/13 15:54	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/01/13 15:54	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/01/13 15:54	1
Acetone	**0.92**	**J**	2.5	0.54	ug/L			05/01/13 15:54	1

Client Sample ID: 30 Knowles
Date Collected: 04/29/13 09:30
Date Received: 04/30/13 01:15

Lab Sample ID: 480-37261-11
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.31**	**J**	0.50	0.13	ug/L			05/01/13 15:54	1
Bromobenzene	ND		0.50	0.13	ug/L			05/01/13 15:54	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/01/13 15:54	1
Bromoform	ND		0.50	0.13	ug/L			05/01/13 15:54	1
Bromomethane	ND	*	0.50	0.051	ug/L			05/01/13 15:54	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/01/13 15:54	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/01/13 15:54	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/01/13 15:54	1
Chloroethane	ND		0.50	0.070	ug/L			05/01/13 15:54	1
Chloroform	**0.20**	**J**	0.50	0.14	ug/L			05/01/13 15:54	1
Chloromethane	**0.080**	**J**	0.50	0.063	ug/L			05/01/13 15:54	1
cis-1,2-Dichloroethene	**1.8**		0.50	0.12	ug/L			05/01/13 15:54	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/01/13 15:54	1
Dibromomethane	ND		0.50	0.17	ug/L			05/01/13 15:54	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/01/13 15:54	1
Dichlorodifluoromethane	**0.25**	**J**	0.50	0.070	ug/L			05/01/13 15:54	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/01/13 15:54	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/01/13 15:54	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/01/13 15:54	1
Methyl tert-butyl ether	**0.85**		0.50	0.12	ug/L			05/01/13 15:54	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/01/13 15:54	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/01/13 15:54	1
Naphthalene	ND		0.50	0.060	ug/L			05/01/13 15:54	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/01/13 15:54	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/01/13 15:54	1
o-Xylene	ND		0.50	0.044	ug/L			05/01/13 15:54	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/01/13 15:54	1
Styrene	ND		0.50	0.044	ug/L			05/01/13 15:54	1
t-Butanol	**6.1**	**J**	10	2.5	ug/L			05/01/13 15:54	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/01/13 15:54	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/01/13 15:54	1
Toluene	ND		0.50	0.10	ug/L			05/01/13 15:54	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/01/13 15:54	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/01/13 15:54	1
Trichloroethene	ND		0.50	0.060	ug/L			05/01/13 15:54	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/01/13 15:54	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/01/13 15:54	1
Vinyl chloride	**0.18**	**J**	0.50	0.059	ug/L			05/01/13 15:54	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/01/13 15:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*101*		*80 - 120*		*05/01/13 15:54*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*05/01/13 15:54*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**6.0**		0.20	0.041	ug/L		05/02/13 14:00	05/02/13 19:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*96*		*70 - 130*	*05/02/13 14:00*	*05/02/13 19:10*	*1*

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37261-1

Client Sample ID: 325 Schoolhouse Inf
Date Collected: 04/29/13 10:15
Date Received: 04/30/13 01:15

Lab Sample ID: 480-37261-13
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/02/13 13:11	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/02/13 13:11	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/02/13 13:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/02/13 13:11	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/02/13 13:11	1
1,1-Dichloroethane	**0.36**	**J**	0.50	0.074	ug/L			05/02/13 13:11	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/02/13 13:11	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/02/13 13:11	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/02/13 13:11	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/02/13 13:11	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/02/13 13:11	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/02/13 13:11	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/02/13 13:11	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/02/13 13:11	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/02/13 13:11	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/02/13 13:11	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/02/13 13:11	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/02/13 13:11	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/02/13 13:11	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/02/13 13:11	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/02/13 13:11	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/02/13 13:11	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/02/13 13:11	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/02/13 13:11	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/02/13 13:11	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/02/13 13:11	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/02/13 13:11	1
Acetone	ND		2.5	0.54	ug/L			05/02/13 13:11	1
Benzene	**0.57**		0.50	0.13	ug/L			05/02/13 13:11	1
Bromobenzene	ND		0.50	0.13	ug/L			05/02/13 13:11	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/02/13 13:11	1
Bromoform	ND		0.50	0.13	ug/L			05/02/13 13:11	1
Bromomethane	ND		0.50	0.051	ug/L			05/02/13 13:11	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/02/13 13:11	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/02/13 13:11	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/02/13 13:11	1
Chloroethane	**0.51**		0.50	0.070	ug/L			05/02/13 13:11	1
Chloroform	ND		0.50	0.14	ug/L			05/02/13 13:11	1
Chloromethane	ND		0.50	0.063	ug/L			05/02/13 13:11	1
cis-1,2-Dichloroethene	**1.9**		0.50	0.12	ug/L			05/02/13 13:11	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/02/13 13:11	1
Dibromomethane	ND		0.50	0.17	ug/L			05/02/13 13:11	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/02/13 13:11	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/02/13 13:11	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/02/13 13:11	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/02/13 13:11	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/02/13 13:11	1
Methyl tert-butyl ether	**1.6**		0.50	0.12	ug/L			05/02/13 13:11	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/02/13 13:11	1

Client Sample ID: 325 Schoolhouse Inf

Lab Sample ID: 480-37261-13

Date Collected: 04/29/13 10:15

Matrix: Water

Date Received: 04/30/13 01:15

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/02/13 13:11	1
Naphthalene	ND		0.50	0.060	ug/L			05/02/13 13:11	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/02/13 13:11	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/02/13 13:11	1
o-Xylene	ND		0.50	0.044	ug/L			05/02/13 13:11	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/02/13 13:11	1
Styrene	ND		0.50	0.044	ug/L			05/02/13 13:11	1
t-Butanol	**9.8**	**J**	10	2.5	ug/L			05/02/13 13:11	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/02/13 13:11	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/02/13 13:11	1
Toluene	ND		0.50	0.10	ug/L			05/02/13 13:11	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/02/13 13:11	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/02/13 13:11	1
Trichloroethene	ND		0.50	0.060	ug/L			05/02/13 13:11	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/02/13 13:11	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/02/13 13:11	1
Vinyl chloride	**0.23**	**J**	0.50	0.059	ug/L			05/02/13 13:11	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/02/13 13:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*99*		*80 - 120*		*05/02/13 13:11*	*1*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*05/02/13 13:11*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**9.8**		0.40	0.082	ug/L		05/02/13 14:00	05/03/13 09:30	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*91*		*70 - 130*	*05/02/13 14:00*	*05/03/13 09:30*	*2*

Client Sample ID: 20 Guerrera 59

Lab Sample ID: 480-37261-15

Date Collected: 04/29/13 11:40

Matrix: Water

Date Received: 04/30/13 01:15

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/01/13 16:45	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/01/13 16:45	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/01/13 16:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/01/13 16:45	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/01/13 16:45	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/01/13 16:45	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/01/13 16:45	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/01/13 16:45	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/01/13 16:45	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/01/13 16:45	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/01/13 16:45	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/01/13 16:45	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/01/13 16:45	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/01/13 16:45	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37261-1

Client Sample ID: 20 Guerrera 59
Date Collected: 04/29/13 11:40
Date Received: 04/30/13 01:15

Lab Sample ID: 480-37261-15
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/01/13 16:45	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/01/13 16:45	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/01/13 16:45	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/01/13 16:45	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/01/13 16:45	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/01/13 16:45	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/01/13 16:45	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/01/13 16:45	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/01/13 16:45	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/01/13 16:45	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/01/13 16:45	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/01/13 16:45	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/01/13 16:45	1
Acetone	ND		2.5	0.54	ug/L			05/01/13 16:45	1
Benzene	ND		0.50	0.13	ug/L			05/01/13 16:45	1
Bromobenzene	ND		0.50	0.13	ug/L			05/01/13 16:45	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/01/13 16:45	1
Bromoform	ND		0.50	0.13	ug/L			05/01/13 16:45	1
Bromomethane	ND	*	0.50	0.051	ug/L			05/01/13 16:45	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/01/13 16:45	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/01/13 16:45	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/01/13 16:45	1
Chloroethane	ND		0.50	0.070	ug/L			05/01/13 16:45	1
Chloroform	ND		0.50	0.14	ug/L			05/01/13 16:45	1
Chloromethane	ND		0.50	0.063	ug/L			05/01/13 16:45	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/01/13 16:45	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/01/13 16:45	1
Dibromomethane	ND		0.50	0.17	ug/L			05/01/13 16:45	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/01/13 16:45	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/01/13 16:45	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/01/13 16:45	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/01/13 16:45	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/01/13 16:45	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/01/13 16:45	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/01/13 16:45	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/01/13 16:45	1
Naphthalene	ND		0.50	0.060	ug/L			05/01/13 16:45	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/01/13 16:45	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/01/13 16:45	1
o-Xylene	ND		0.50	0.044	ug/L			05/01/13 16:45	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/01/13 16:45	1
Styrene	ND		0.50	0.044	ug/L			05/01/13 16:45	1
t-Butanol	ND		10	2.5	ug/L			05/01/13 16:45	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/01/13 16:45	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/01/13 16:45	1
Toluene	ND		0.50	0.10	ug/L			05/01/13 16:45	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/01/13 16:45	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/01/13 16:45	1
Trichloroethene	ND		0.50	0.060	ug/L			05/01/13 16:45	1

Client Sample ID: 20 Guerrera 59

Lab Sample ID: 480-37261-15

Date Collected: 04/29/13 11:40

Matrix: Water

Date Received: 04/30/13 01:15

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/01/13 16:45	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/01/13 16:45	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/01/13 16:45	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/01/13 16:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*102*		*80 - 120*		*05/01/13 16:45*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*05/01/13 16:45*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**0.15**	**J**	0.20	0.041	ug/L		05/02/13 14:00	05/02/13 19:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*96*		*70 - 130*	*05/02/13 14:00*	*05/02/13 19:58*	*1*

Client Sample ID: 20 Guerrera 42

Lab Sample ID: 480-37261-17

Date Collected: 04/29/13 12:15

Matrix: Water

Date Received: 04/30/13 01:15

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/01/13 17:11	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/01/13 17:11	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/01/13 17:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/01/13 17:11	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/01/13 17:11	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/01/13 17:11	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/01/13 17:11	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/01/13 17:11	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/01/13 17:11	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/01/13 17:11	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/01/13 17:11	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/01/13 17:11	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/01/13 17:11	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/01/13 17:11	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/01/13 17:11	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/01/13 17:11	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/01/13 17:11	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/01/13 17:11	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/01/13 17:11	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/01/13 17:11	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/01/13 17:11	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/01/13 17:11	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/01/13 17:11	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/01/13 17:11	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/01/13 17:11	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/01/13 17:11	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/01/13 17:11	1
Acetone	**0.88**	**J**	2.5	0.54	ug/L			05/01/13 17:11	1

Client Sample ID: 20 Guerrera 42
Date Collected: 04/29/13 12:15
Date Received: 04/30/13 01:15

Lab Sample ID: 480-37261-17
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.13	ug/L			05/01/13 17:11	1
Bromobenzene	ND		0.50	0.13	ug/L			05/01/13 17:11	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/01/13 17:11	1
Bromoform	ND		0.50	0.13	ug/L			05/01/13 17:11	1
Bromomethane	ND	*	0.50	0.051	ug/L			05/01/13 17:11	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/01/13 17:11	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/01/13 17:11	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/01/13 17:11	1
Chloroethane	ND		0.50	0.070	ug/L			05/01/13 17:11	1
Chloroform	**0.49**	**J**	0.50	0.14	ug/L			05/01/13 17:11	1
Chloromethane	ND		0.50	0.063	ug/L			05/01/13 17:11	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/01/13 17:11	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/01/13 17:11	1
Dibromomethane	ND		0.50	0.17	ug/L			05/01/13 17:11	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/01/13 17:11	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/01/13 17:11	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/01/13 17:11	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/01/13 17:11	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/01/13 17:11	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/01/13 17:11	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/01/13 17:11	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/01/13 17:11	1
Naphthalene	ND		0.50	0.060	ug/L			05/01/13 17:11	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/01/13 17:11	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/01/13 17:11	1
o-Xylene	ND		0.50	0.044	ug/L			05/01/13 17:11	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/01/13 17:11	1
Styrene	ND		0.50	0.044	ug/L			05/01/13 17:11	1
t-Butanol	ND		10	2.5	ug/L			05/01/13 17:11	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/01/13 17:11	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/01/13 17:11	1
Toluene	ND		0.50	0.10	ug/L			05/01/13 17:11	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/01/13 17:11	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/01/13 17:11	1
Trichloroethene	ND		0.50	0.060	ug/L			05/01/13 17:11	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/01/13 17:11	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/01/13 17:11	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/01/13 17:11	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/01/13 17:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*101*		*80 - 120*		*05/01/13 17:11*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*05/01/13 17:11*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		05/02/13 14:00	05/02/13 20:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*99*		*70 - 130*	*05/02/13 14:00*	*05/02/13 20:15*	*1*

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37261-1

Client Sample ID: 1 Whidah
Date Collected: 04/29/13 13:45
Date Received: 04/30/13 01:15

Lab Sample ID: 480-37261-19
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/01/13 17:37	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/01/13 17:37	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/01/13 17:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/01/13 17:37	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/01/13 17:37	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/01/13 17:37	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/01/13 17:37	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/01/13 17:37	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/01/13 17:37	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/01/13 17:37	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/01/13 17:37	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/01/13 17:37	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/01/13 17:37	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/01/13 17:37	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/01/13 17:37	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/01/13 17:37	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/01/13 17:37	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/01/13 17:37	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/01/13 17:37	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/01/13 17:37	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/01/13 17:37	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/01/13 17:37	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/01/13 17:37	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/01/13 17:37	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/01/13 17:37	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/01/13 17:37	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/01/13 17:37	1
Acetone	ND		2.5	0.54	ug/L			05/01/13 17:37	1
Benzene	ND		0.50	0.13	ug/L			05/01/13 17:37	1
Bromobenzene	ND		0.50	0.13	ug/L			05/01/13 17:37	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/01/13 17:37	1
Bromoform	ND		0.50	0.13	ug/L			05/01/13 17:37	1
Bromomethane	ND	*	0.50	0.051	ug/L			05/01/13 17:37	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/01/13 17:37	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/01/13 17:37	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/01/13 17:37	1
Chloroethane	ND		0.50	0.070	ug/L			05/01/13 17:37	1
Chloroform	ND		0.50	0.14	ug/L			05/01/13 17:37	1
Chloromethane	ND		0.50	0.063	ug/L			05/01/13 17:37	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/01/13 17:37	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/01/13 17:37	1
Dibromomethane	ND		0.50	0.17	ug/L			05/01/13 17:37	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/01/13 17:37	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/01/13 17:37	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/01/13 17:37	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/01/13 17:37	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/01/13 17:37	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/01/13 17:37	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/01/13 17:37	1

Client Sample ID: 1 Whidah

Lab Sample ID: 480-37261-19

Date Collected: 04/29/13 13:45

Matrix: Water

Date Received: 04/30/13 01:15

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/01/13 17:37	1
Naphthalene	ND		0.50	0.060	ug/L			05/01/13 17:37	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/01/13 17:37	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/01/13 17:37	1
o-Xylene	ND		0.50	0.044	ug/L			05/01/13 17:37	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/01/13 17:37	1
Styrene	ND		0.50	0.044	ug/L			05/01/13 17:37	1
t-Butanol	ND		10	2.5	ug/L			05/01/13 17:37	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/01/13 17:37	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/01/13 17:37	1
Toluene	ND		0.50	0.10	ug/L			05/01/13 17:37	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/01/13 17:37	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/01/13 17:37	1
Trichloroethene	ND		0.50	0.060	ug/L			05/01/13 17:37	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/01/13 17:37	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/01/13 17:37	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/01/13 17:37	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/01/13 17:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*102*		*80 - 120*		*05/01/13 17:37*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*05/01/13 17:37*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		05/02/13 14:00	05/02/13 20:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*88*		*70 - 130*	*05/02/13 14:00*	*05/02/13 20:31*	*1*

Client Sample ID: 325 Schoolhouse Int

Lab Sample ID: 480-37261-21

Date Collected: 04/29/13 10:35

Matrix: Water

Date Received: 04/30/13 01:15

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/01/13 18:03	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/01/13 18:03	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/01/13 18:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/01/13 18:03	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/01/13 18:03	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/01/13 18:03	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/01/13 18:03	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/01/13 18:03	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/01/13 18:03	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/01/13 18:03	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/01/13 18:03	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/01/13 18:03	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/01/13 18:03	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/01/13 18:03	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37261-1

Client Sample ID: 325 Schoolhouse Int
Date Collected: 04/29/13 10:35
Date Received: 04/30/13 01:15

Lab Sample ID: 480-37261-21
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/01/13 18:03	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/01/13 18:03	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/01/13 18:03	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/01/13 18:03	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/01/13 18:03	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/01/13 18:03	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/01/13 18:03	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/01/13 18:03	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/01/13 18:03	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/01/13 18:03	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/01/13 18:03	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/01/13 18:03	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/01/13 18:03	1
Acetone	**0.67**	**J**	2.5	0.54	ug/L			05/01/13 18:03	1
Benzene	ND		0.50	0.13	ug/L			05/01/13 18:03	1
Bromobenzene	ND		0.50	0.13	ug/L			05/01/13 18:03	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/01/13 18:03	1
Bromoform	ND		0.50	0.13	ug/L			05/01/13 18:03	1
Bromomethane	ND	*	0.50	0.051	ug/L			05/01/13 18:03	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/01/13 18:03	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/01/13 18:03	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/01/13 18:03	1
Chloroethane	ND		0.50	0.070	ug/L			05/01/13 18:03	1
Chloroform	ND		0.50	0.14	ug/L			05/01/13 18:03	1
Chloromethane	ND		0.50	0.063	ug/L			05/01/13 18:03	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/01/13 18:03	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/01/13 18:03	1
Dibromomethane	ND		0.50	0.17	ug/L			05/01/13 18:03	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/01/13 18:03	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/01/13 18:03	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/01/13 18:03	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/01/13 18:03	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/01/13 18:03	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/01/13 18:03	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/01/13 18:03	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/01/13 18:03	1
Naphthalene	ND		0.50	0.060	ug/L			05/01/13 18:03	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/01/13 18:03	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/01/13 18:03	1
o-Xylene	ND		0.50	0.044	ug/L			05/01/13 18:03	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/01/13 18:03	1
Styrene	ND		0.50	0.044	ug/L			05/01/13 18:03	1
t-Butanol	ND		10	2.5	ug/L			05/01/13 18:03	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/01/13 18:03	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/01/13 18:03	1
Toluene	ND		0.50	0.10	ug/L			05/01/13 18:03	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/01/13 18:03	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/01/13 18:03	1
Trichloroethene	ND		0.50	0.060	ug/L			05/01/13 18:03	1

Client Sample ID: 325 Schoolhouse Int

Lab Sample ID: 480-37261-21

Date Collected: 04/29/13 10:35

Matrix: Water

Date Received: 04/30/13 01:15

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/01/13 18:03	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/01/13 18:03	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/01/13 18:03	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/01/13 18:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*103*		*80 - 120*		*05/01/13 18:03*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*05/01/13 18:03*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		05/02/13 14:00	05/02/13 20:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*99*		*70 - 130*	*05/02/13 14:00*	*05/02/13 20:47*	*1*

Client Sample ID: 325 Schoolhouse Eff

Lab Sample ID: 480-37261-23

Date Collected: 04/29/13 10:50

Matrix: Water

Date Received: 04/30/13 01:15

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/01/13 18:28	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/01/13 18:28	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/01/13 18:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/01/13 18:28	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/01/13 18:28	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/01/13 18:28	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/01/13 18:28	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/01/13 18:28	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/01/13 18:28	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/01/13 18:28	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/01/13 18:28	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/01/13 18:28	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/01/13 18:28	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/01/13 18:28	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/01/13 18:28	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/01/13 18:28	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/01/13 18:28	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/01/13 18:28	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/01/13 18:28	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/01/13 18:28	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/01/13 18:28	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/01/13 18:28	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/01/13 18:28	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/01/13 18:28	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/01/13 18:28	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/01/13 18:28	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/01/13 18:28	1
Acetone	ND		2.5	0.54	ug/L			05/01/13 18:28	1

Client Sample ID: 325 Schoolhouse Eff
Date Collected: 04/29/13 10:50
Date Received: 04/30/13 01:15

Lab Sample ID: 480-37261-23
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.13	ug/L			05/01/13 18:28	1
Bromobenzene	ND		0.50	0.13	ug/L			05/01/13 18:28	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/01/13 18:28	1
Bromoform	ND		0.50	0.13	ug/L			05/01/13 18:28	1
Bromomethane	ND	*	0.50	0.051	ug/L			05/01/13 18:28	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/01/13 18:28	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/01/13 18:28	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/01/13 18:28	1
Chloroethane	ND		0.50	0.070	ug/L			05/01/13 18:28	1
Chloroform	ND		0.50	0.14	ug/L			05/01/13 18:28	1
Chloromethane	ND		0.50	0.063	ug/L			05/01/13 18:28	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/01/13 18:28	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/01/13 18:28	1
Dibromomethane	ND		0.50	0.17	ug/L			05/01/13 18:28	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/01/13 18:28	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/01/13 18:28	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/01/13 18:28	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/01/13 18:28	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/01/13 18:28	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/01/13 18:28	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/01/13 18:28	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/01/13 18:28	1
Naphthalene	ND		0.50	0.060	ug/L			05/01/13 18:28	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/01/13 18:28	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/01/13 18:28	1
o-Xylene	ND		0.50	0.044	ug/L			05/01/13 18:28	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/01/13 18:28	1
Styrene	ND		0.50	0.044	ug/L			05/01/13 18:28	1
t-Butanol	ND		10	2.5	ug/L			05/01/13 18:28	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/01/13 18:28	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/01/13 18:28	1
Toluene	ND		0.50	0.10	ug/L			05/01/13 18:28	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/01/13 18:28	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/01/13 18:28	1
Trichloroethene	ND		0.50	0.060	ug/L			05/01/13 18:28	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/01/13 18:28	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/01/13 18:28	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/01/13 18:28	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/01/13 18:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*102*		*80 - 120*		*05/01/13 18:28*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*05/01/13 18:28*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		05/02/13 14:00	05/02/13 21:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*99*		*70 - 130*	*05/02/13 14:00*	*05/02/13 21:03*	*1*

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37261-1

Client Sample ID: Trip Blank
Date Collected: 04/29/13 00:00
Date Received: 04/30/13 01:15

Lab Sample ID: 480-37261-25
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/01/13 18:54	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/01/13 18:54	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/01/13 18:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/01/13 18:54	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/01/13 18:54	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/01/13 18:54	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/01/13 18:54	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/01/13 18:54	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/01/13 18:54	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/01/13 18:54	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/01/13 18:54	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/01/13 18:54	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/01/13 18:54	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/01/13 18:54	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/01/13 18:54	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/01/13 18:54	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/01/13 18:54	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/01/13 18:54	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/01/13 18:54	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/01/13 18:54	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/01/13 18:54	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/01/13 18:54	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/01/13 18:54	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/01/13 18:54	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/01/13 18:54	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/01/13 18:54	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/01/13 18:54	1
Acetone	**1.0**	**J**	2.5	0.54	ug/L			05/01/13 18:54	1
Benzene	ND		0.50	0.13	ug/L			05/01/13 18:54	1
Bromobenzene	ND		0.50	0.13	ug/L			05/01/13 18:54	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/01/13 18:54	1
Bromoform	ND		0.50	0.13	ug/L			05/01/13 18:54	1
Bromomethane	ND	*	0.50	0.051	ug/L			05/01/13 18:54	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/01/13 18:54	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/01/13 18:54	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/01/13 18:54	1
Chloroethane	ND		0.50	0.070	ug/L			05/01/13 18:54	1
Chloroform	ND		0.50	0.14	ug/L			05/01/13 18:54	1
Chloromethane	ND		0.50	0.063	ug/L			05/01/13 18:54	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/01/13 18:54	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/01/13 18:54	1
Dibromomethane	ND		0.50	0.17	ug/L			05/01/13 18:54	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/01/13 18:54	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/01/13 18:54	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/01/13 18:54	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/01/13 18:54	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/01/13 18:54	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/01/13 18:54	1
Methylene Chloride	**0.59**		0.50	0.25	ug/L			05/01/13 18:54	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37261-1

Client Sample ID: Trip Blank
Date Collected: 04/29/13 00:00
Date Received: 04/30/13 01:15

Lab Sample ID: 480-37261-25
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/01/13 18:54	1
Naphthalene	ND		0.50	0.060	ug/L			05/01/13 18:54	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/01/13 18:54	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/01/13 18:54	1
o-Xylene	ND		0.50	0.044	ug/L			05/01/13 18:54	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/01/13 18:54	1
Styrene	ND		0.50	0.044	ug/L			05/01/13 18:54	1
t-Butanol	ND		10	2.5	ug/L			05/01/13 18:54	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/01/13 18:54	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/01/13 18:54	1
Toluene	ND		0.50	0.10	ug/L			05/01/13 18:54	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/01/13 18:54	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/01/13 18:54	1
Trichloroethene	ND		0.50	0.060	ug/L			05/01/13 18:54	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/01/13 18:54	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/01/13 18:54	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/01/13 18:54	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/01/13 18:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*102*		*80 - 120*		*05/01/13 18:54*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*05/01/13 18:54*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**0.083**	**J**	0.20	0.041	ug/L		05/07/13 09:33	05/07/13 13:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*89*		*70 - 130*	*05/07/13 09:33*	*05/07/13 13:36*	*1*

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37261-1

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		12DCB	BFB								
Lab Sample ID	Client Sample ID	(80-120)	(80-120)								
480-37261-1	55 Deerfield	103	96								
480-37261-3	310 Old Orchard	99	93								
480-37261-5	4 Fairview	101	96								
480-37261-7	225 Alston	101	95								
480-37261-9	11 Elda	102	97								
480-37261-11	30 Knowles	101	96								
480-37261-13	325 Schoolhouse Inf	99	91								
480-37261-15	20 Guerrera 59	102	95								
480-37261-17	20 Guerrera 42	101	95								
480-37261-19	1 Whidah	102	95								
480-37261-21	325 Schoolhouse Int	103	96								
480-37261-23	325 Schoolhouse Eff	102	96								
480-37261-25	Trip Blank	102	95								
LCS 480-116083/6	Lab Control Sample	99	99								
LCS 480-116392/4	Lab Control Sample	97	92								
MB 480-116083/5	Method Blank	102	97								
MB 480-116392/5	Method Blank	97	90								

Surrogate Legend

12DCB = 1,2-Dichlorobenzene-d4

BFB = 4-Bromofluorobenzene (Surr)

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		14DD8									
Lab Sample ID	Client Sample ID	(70-130)									
480-37261-1	55 Deerfield	89									
480-37261-3	310 Old Orchard	91									
480-37261-5	4 Fairview	94									
480-37261-7	225 Alston	99									
480-37261-9	11 Elda	99									
480-37261-11	30 Knowles	96									
480-37261-13	325 Schoolhouse Inf	91									
480-37261-15	20 Guerrera 59	96									
480-37261-17	20 Guerrera 42	99									
480-37261-19	1 Whidah	88									
480-37261-21	325 Schoolhouse Int	99									
480-37261-23	325 Schoolhouse Eff	99									
480-37261-25	Trip Blank	89									
LCS 200-55059/2-A	Lab Control Sample	96									
LCS 200-55093/2-A	Lab Control Sample	93									
LCS 200-55200/2-A	Lab Control Sample	93									
MB 200-55059/1-A	Method Blank	89									
MB 200-55093/1-A	Method Blank	94									
MB 200-55200/1-A	Method Blank	93									

Surrogate Legend

14DD8 = 1,4-Dioxane-d8 (Surr)

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-116083/5
Matrix: Water
Analysis Batch: 116083

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/01/13 11:33	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/01/13 11:33	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/01/13 11:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/01/13 11:33	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/01/13 11:33	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/01/13 11:33	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/01/13 11:33	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/01/13 11:33	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/01/13 11:33	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/01/13 11:33	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/01/13 11:33	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/01/13 11:33	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/01/13 11:33	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/01/13 11:33	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/01/13 11:33	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/01/13 11:33	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/01/13 11:33	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/01/13 11:33	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/01/13 11:33	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/01/13 11:33	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/01/13 11:33	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/01/13 11:33	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/01/13 11:33	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/01/13 11:33	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/01/13 11:33	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/01/13 11:33	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/01/13 11:33	1
Acetone	ND		2.5	0.54	ug/L			05/01/13 11:33	1
Benzene	ND		0.50	0.13	ug/L			05/01/13 11:33	1
Bromobenzene	ND		0.50	0.13	ug/L			05/01/13 11:33	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/01/13 11:33	1
Bromoform	ND		0.50	0.13	ug/L			05/01/13 11:33	1
Bromomethane	ND		0.50	0.051	ug/L			05/01/13 11:33	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/01/13 11:33	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/01/13 11:33	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/01/13 11:33	1
Chloroethane	ND		0.50	0.070	ug/L			05/01/13 11:33	1
Chloroform	ND		0.50	0.14	ug/L			05/01/13 11:33	1
Chloromethane	ND		0.50	0.063	ug/L			05/01/13 11:33	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/01/13 11:33	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/01/13 11:33	1
Dibromomethane	ND		0.50	0.17	ug/L			05/01/13 11:33	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/01/13 11:33	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/01/13 11:33	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/01/13 11:33	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/01/13 11:33	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/01/13 11:33	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/01/13 11:33	1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-116083/5
Matrix: Water
Analysis Batch: 116083

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		0.50	0.25	ug/L			05/01/13 11:33	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/01/13 11:33	1
Naphthalene	ND		0.50	0.060	ug/L			05/01/13 11:33	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/01/13 11:33	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/01/13 11:33	1
o-Xylene	ND		0.50	0.044	ug/L			05/01/13 11:33	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/01/13 11:33	1
Styrene	ND		0.50	0.044	ug/L			05/01/13 11:33	1
t-Butanol	ND		10	2.5	ug/L			05/01/13 11:33	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/01/13 11:33	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/01/13 11:33	1
Toluene	ND		0.50	0.10	ug/L			05/01/13 11:33	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/01/13 11:33	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/01/13 11:33	1
Trichloroethene	ND		0.50	0.060	ug/L			05/01/13 11:33	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/01/13 11:33	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/01/13 11:33	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/01/13 11:33	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/01/13 11:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*102*		*80 - 120*		*05/01/13 11:33*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*05/01/13 11:33*	*1*

Lab Sample ID: LCS 480-116083/6
Matrix: Water
Analysis Batch: 116083

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	4.00	3.85		ug/L		96	70 - 130
1,1,1-Trichloroethane	4.00	4.23		ug/L		106	70 - 130
1,1,2,2-Tetrachloroethane	4.00	3.34		ug/L		83	70 - 130
1,1,2-Trichloroethane	4.00	3.54		ug/L		89	70 - 130
1,1-Dichloroethane	4.00	3.80		ug/L		95	70 - 130
1,1-Dichloroethene	4.00	3.43		ug/L		86	70 - 130
1,1-Dichloropropene	4.00	4.22		ug/L		105	70 - 130
1,2,3-Trichlorobenzene	4.00	3.33		ug/L		83	70 - 130
1,2,3-Trichloropropane	4.00	3.61		ug/L		90	70 - 130
1,2,4-Trichlorobenzene	4.00	3.46		ug/L		86	70 - 130
1,2,4-Trimethylbenzene	4.00	3.84		ug/L		96	70 - 130
1,2-Dibromo-3-Chloropropane	4.00	3.16		ug/L		79	70 - 130
1,2-Dibromoethane	4.00	3.68		ug/L		92	70 - 130
1,2-Dichlorobenzene	4.00	3.74		ug/L		94	70 - 130
1,2-Dichloroethane	4.00	3.98		ug/L		100	70 - 130
1,2-Dichloropropane	4.00	3.56		ug/L		89	70 - 130
1,3,5-Trimethylbenzene	4.00	3.79		ug/L		95	70 - 130
1,3-Dichlorobenzene	4.00	3.77		ug/L		94	70 - 130
1,3-Dichloropropane	4.00	3.69		ug/L		92	70 - 130

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-116083/6
Matrix: Water
Analysis Batch: 116083

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	4.00	3.72		ug/L		93	70 - 130
2,2-Dichloropropane	4.00	3.79		ug/L		95	70 - 130
2-Butanone (MEK)	20.0	17.0		ug/L		85	70 - 130
2-Chlorotoluene	4.00	3.70		ug/L		92	70 - 130
4-Chlorotoluene	4.00	3.69		ug/L		92	70 - 130
4-Isopropyltoluene	4.00	3.75		ug/L		94	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	16.8		ug/L		84	70 - 130
Acetone	20.0	16.5		ug/L		82	70 - 130
Benzene	4.00	3.85		ug/L		96	70 - 130
Bromobenzene	4.00	3.88		ug/L		97	70 - 130
Bromochloromethane	4.00	4.05		ug/L		101	70 - 130
Bromoform	4.00	3.26		ug/L		81	70 - 130
Bromomethane	4.00	5.27	*	ug/L		132	70 - 130
Carbon tetrachloride	4.00	4.15		ug/L		104	70 - 130
Chlorobenzene	4.00	3.87		ug/L		97	70 - 130
Chlorodibromomethane	4.00	3.47		ug/L		87	70 - 130
Chloroethane	4.00	4.77		ug/L		119	70 - 130
Chloroform	4.00	3.96		ug/L		99	70 - 130
Chloromethane	4.00	3.65		ug/L		91	70 - 130
cis-1,2-Dichloroethene	4.00	3.86		ug/L		96	70 - 130
cis-1,3-Dichloropropene	4.00	3.36		ug/L		84	70 - 130
Dibromomethane	4.00	3.65		ug/L		91	70 - 130
Dichlorobromomethane	4.00	3.54		ug/L		89	70 - 130
Dichlorodifluoromethane	4.00	4.99		ug/L		125	70 - 130
Ethylbenzene	4.00	3.80		ug/L		95	70 - 130
Hexachlorobutadiene	4.00	3.45		ug/L		86	70 - 130
Isopropylbenzene	4.00	3.93		ug/L		98	70 - 130
Methyl tert-butyl ether	4.00	3.76		ug/L		94	70 - 130
Methylene Chloride	4.00	4.08		ug/L		102	70 - 130
Naphthalene	4.00	3.31		ug/L		83	70 - 130
n-Butylbenzene	4.00	3.72		ug/L		93	70 - 130
N-Propylbenzene	4.00	3.72		ug/L		93	70 - 130
sec-Butylbenzene	4.00	3.77		ug/L		94	70 - 130
Styrene	4.00	3.76		ug/L		94	70 - 130
tert-Butylbenzene	4.00	3.86		ug/L		96	70 - 130
Tetrachloroethene	4.00	4.06		ug/L		101	70 - 130
Toluene	4.00	3.72		ug/L		93	70 - 130
trans-1,2-Dichloroethene	4.00	3.76		ug/L		94	70 - 130
trans-1,3-Dichloropropene	4.00	3.35		ug/L		84	70 - 130
Trichloroethene	4.00	3.89		ug/L		97	70 - 130
Trichlorofluoromethane	4.00	4.95		ug/L		124	70 - 130
Vinyl chloride	4.00	4.47		ug/L		112	70 - 130
Xylenes, Total	12.0	11.5		ug/L		96	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichlorobenzene-d4	*99*		*80 - 120*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-116392/5
Matrix: Water
Analysis Batch: 116392

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/02/13 11:47	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/02/13 11:47	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/02/13 11:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/02/13 11:47	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/02/13 11:47	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/02/13 11:47	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/02/13 11:47	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/02/13 11:47	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/02/13 11:47	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/02/13 11:47	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/02/13 11:47	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/02/13 11:47	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/02/13 11:47	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/02/13 11:47	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/02/13 11:47	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/02/13 11:47	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/02/13 11:47	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/02/13 11:47	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/02/13 11:47	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/02/13 11:47	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/02/13 11:47	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/02/13 11:47	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/02/13 11:47	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/02/13 11:47	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/02/13 11:47	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/02/13 11:47	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/02/13 11:47	1
Acetone	ND		2.5	0.54	ug/L			05/02/13 11:47	1
Benzene	ND		0.50	0.13	ug/L			05/02/13 11:47	1
Bromobenzene	ND		0.50	0.13	ug/L			05/02/13 11:47	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/02/13 11:47	1
Bromoform	ND		0.50	0.13	ug/L			05/02/13 11:47	1
Bromomethane	ND		0.50	0.051	ug/L			05/02/13 11:47	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/02/13 11:47	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/02/13 11:47	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/02/13 11:47	1
Chloroethane	ND		0.50	0.070	ug/L			05/02/13 11:47	1
Chloroform	ND		0.50	0.14	ug/L			05/02/13 11:47	1
Chloromethane	ND		0.50	0.063	ug/L			05/02/13 11:47	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/02/13 11:47	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/02/13 11:47	1
Dibromomethane	ND		0.50	0.17	ug/L			05/02/13 11:47	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/02/13 11:47	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/02/13 11:47	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/02/13 11:47	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/02/13 11:47	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/02/13 11:47	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/02/13 11:47	1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-116392/5
Matrix: Water
Analysis Batch: 116392

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		0.50	0.25	ug/L			05/02/13 11:47	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/02/13 11:47	1
Naphthalene	ND		0.50	0.060	ug/L			05/02/13 11:47	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/02/13 11:47	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/02/13 11:47	1
o-Xylene	ND		0.50	0.044	ug/L			05/02/13 11:47	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/02/13 11:47	1
Styrene	ND		0.50	0.044	ug/L			05/02/13 11:47	1
t-Butanol	ND		10	2.5	ug/L			05/02/13 11:47	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/02/13 11:47	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/02/13 11:47	1
Toluene	ND		0.50	0.10	ug/L			05/02/13 11:47	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/02/13 11:47	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/02/13 11:47	1
Trichloroethene	ND		0.50	0.060	ug/L			05/02/13 11:47	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/02/13 11:47	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/02/13 11:47	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/02/13 11:47	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/02/13 11:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*97*		*80 - 120*		*05/02/13 11:47*	*1*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*		*05/02/13 11:47*	*1*

Lab Sample ID: LCS 480-116392/4
Matrix: Water
Analysis Batch: 116392

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	4.00	4.07		ug/L		102	70 - 130
1,1,1-Trichloroethane	4.00	3.66		ug/L		91	70 - 130
1,1,2,2-Tetrachloroethane	4.00	3.84		ug/L		96	70 - 130
1,1,2-Trichloroethane	4.00	4.12		ug/L		103	70 - 130
1,1-Dichloroethane	4.00	3.61		ug/L		90	70 - 130
1,1-Dichloroethene	4.00	3.40		ug/L		85	70 - 130
1,1-Dichloropropene	4.00	4.08		ug/L		102	70 - 130
1,2,3-Trichlorobenzene	4.00	4.57		ug/L		114	70 - 130
1,2,3-Trichloropropane	4.00	4.18		ug/L		104	70 - 130
1,2,4-Trichlorobenzene	4.00	4.14		ug/L		104	70 - 130
1,2,4-Trimethylbenzene	4.00	3.97		ug/L		99	70 - 130
1,2-Dibromo-3-Chloropropane	4.00	3.33		ug/L		83	70 - 130
1,2-Dibromoethane	4.00	4.25		ug/L		106	70 - 130
1,2-Dichlorobenzene	4.00	3.91		ug/L		98	70 - 130
1,2-Dichloroethane	4.00	3.96		ug/L		99	70 - 130
1,2-Dichloropropane	4.00	3.90		ug/L		97	70 - 130
1,3,5-Trimethylbenzene	4.00	3.94		ug/L		98	70 - 130
1,3-Dichlorobenzene	4.00	4.07		ug/L		102	70 - 130
1,3-Dichloropropane	4.00	4.27		ug/L		107	70 - 130

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-116392/4
Matrix: Water
Analysis Batch: 116392

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	4.00	4.01		ug/L		100	70 - 130
2,2-Dichloropropane	4.00	3.32		ug/L		83	70 - 130
2-Butanone (MEK)	20.0	20.1		ug/L		100	70 - 130
2-Chlorotoluene	4.00	3.94		ug/L		99	70 - 130
4-Chlorotoluene	4.00	3.87		ug/L		97	70 - 130
4-Isopropyltoluene	4.00	3.94		ug/L		99	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	20.3		ug/L		102	70 - 130
Acetone	20.0	15.5		ug/L		78	70 - 130
Benzene	4.00	4.02		ug/L		100	70 - 130
Bromobenzene	4.00	4.35		ug/L		109	70 - 130
Bromochloromethane	4.00	4.16		ug/L		104	70 - 130
Bromoform	4.00	4.15		ug/L		104	70 - 130
Bromomethane	4.00	3.99		ug/L		100	70 - 130
Carbon tetrachloride	4.00	4.04		ug/L		101	70 - 130
Chlorobenzene	4.00	4.09		ug/L		102	70 - 130
Chlorodibromomethane	4.00	4.20		ug/L		105	70 - 130
Chloroethane	4.00	4.13		ug/L		103	70 - 130
Chloroform	4.00	3.77		ug/L		94	70 - 130
Chloromethane	4.00	4.26		ug/L		106	70 - 130
cis-1,2-Dichloroethene	4.00	3.61		ug/L		90	70 - 130
cis-1,3-Dichloropropene	4.00	3.97		ug/L		99	70 - 130
Dibromomethane	4.00	4.10		ug/L		103	70 - 130
Dichlorobromomethane	4.00	3.90		ug/L		98	70 - 130
Dichlorodifluoromethane	4.00	5.08		ug/L		127	70 - 130
Ethylbenzene	4.00	3.88		ug/L		97	70 - 130
Hexachlorobutadiene	4.00	4.29		ug/L		107	70 - 130
Isopropylbenzene	4.00	3.83		ug/L		96	70 - 130
Methyl tert-butyl ether	4.00	3.91		ug/L		98	70 - 130
Methylene Chloride	4.00	3.39		ug/L		85	70 - 130
Naphthalene	4.00	4.26		ug/L		106	70 - 130
n-Butylbenzene	4.00	3.84		ug/L		96	70 - 130
N-Propylbenzene	4.00	3.98		ug/L		100	70 - 130
sec-Butylbenzene	4.00	3.91		ug/L		98	70 - 130
Styrene	4.00	3.95		ug/L		99	70 - 130
tert-Butylbenzene	4.00	4.03		ug/L		101	70 - 130
Tetrachloroethene	4.00	4.11		ug/L		103	70 - 130
Toluene	4.00	4.09		ug/L		102	70 - 130
trans-1,2-Dichloroethene	4.00	3.73		ug/L		93	70 - 130
trans-1,3-Dichloropropene	4.00	3.95		ug/L		99	70 - 130
Trichloroethene	4.00	4.01		ug/L		100	70 - 130
Trichlorofluoromethane	4.00	4.41		ug/L		110	70 - 130
Vinyl chloride	4.00	4.50		ug/L		112	70 - 130
Xylenes, Total	12.0	11.6		ug/L		97	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichlorobenzene-d4	*97*		*80 - 120*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Lab Sample ID: MB 200-55059/1-A
Matrix: Water
Analysis Batch: 55063

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 55059

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		05/02/13 14:00	05/02/13 16:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*89*		*70 - 130*	*05/02/13 14:00*	*05/02/13 16:13*	*1*

Lab Sample ID: LCS 200-55059/2-A
Matrix: Water
Analysis Batch: 55063

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 55059

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	0.200	0.207		ug/L		103	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,4-Dioxane-d8 (Surr)	*96*		*70 - 130*

Lab Sample ID: MB 200-55093/1-A
Matrix: Water
Analysis Batch: 55112

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 55093

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		05/03/13 08:49	05/03/13 13:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*94*		*70 - 130*	*05/03/13 08:49*	*05/03/13 13:50*	*1*

Lab Sample ID: LCS 200-55093/2-A
Matrix: Water
Analysis Batch: 55112

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 55093

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	2.00	1.92		ug/L		96	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,4-Dioxane-d8 (Surr)	*93*		*70 - 130*

Lab Sample ID: MB 200-55200/1-A
Matrix: Water
Analysis Batch: 55210

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 55200

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		05/07/13 09:33	05/07/13 13:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*93*		*70 - 130*	*05/07/13 09:33*	*05/07/13 13:04*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM) (Continued)

Lab Sample ID: LCS 200-55200/2-A
Matrix: Water
Analysis Batch: 55210

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 55200

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane			0.200	0.196	J	ug/L		98	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,4-Dioxane-d8 (Surr)	*93*		*70 - 130*

GC/MS VOA

Analysis Batch: 116083

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-37261-1	55 Deerfield	Total/NA	Water	524.2	
480-37261-5	4 Fairview	Total/NA	Water	524.2	
480-37261-7	225 Alston	Total/NA	Water	524.2	
480-37261-9	11 Elda	Total/NA	Water	524.2	
480-37261-11	30 Knowles	Total/NA	Water	524.2	
480-37261-15	20 Guerrera 59	Total/NA	Water	524.2	
480-37261-17	20 Guerrera 42	Total/NA	Water	524.2	
480-37261-19	1 Whidah	Total/NA	Water	524.2	
480-37261-21	325 Schoolhouse Int	Total/NA	Water	524.2	
480-37261-23	325 Schoolhouse Eff	Total/NA	Water	524.2	
480-37261-25	Trip Blank	Total/NA	Water	524.2	
LCS 480-116083/6	Lab Control Sample	Total/NA	Water	524.2	
MB 480-116083/5	Method Blank	Total/NA	Water	524.2	

Analysis Batch: 116392

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-37261-3	310 Old Orchard	Total/NA	Water	524.2	
480-37261-13	325 Schoolhouse Inf	Total/NA	Water	524.2	
LCS 480-116392/4	Lab Control Sample	Total/NA	Water	524.2	
MB 480-116392/5	Method Blank	Total/NA	Water	524.2	

GC/MS Semi VOA

Prep Batch: 55059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-37261-3	310 Old Orchard	Total/NA	Water	3535A	
480-37261-5	4 Fairview	Total/NA	Water	3535A	
480-37261-7	225 Alston	Total/NA	Water	3535A	
480-37261-9	11 Elda	Total/NA	Water	3535A	
480-37261-11	30 Knowles	Total/NA	Water	3535A	
480-37261-13	325 Schoolhouse Inf	Total/NA	Water	3535A	
480-37261-15	20 Guerrera 59	Total/NA	Water	3535A	
480-37261-17	20 Guerrera 42	Total/NA	Water	3535A	
480-37261-19	1 Whidah	Total/NA	Water	3535A	
480-37261-21	325 Schoolhouse Int	Total/NA	Water	3535A	
480-37261-23	325 Schoolhouse Eff	Total/NA	Water	3535A	
LCS 200-55059/2-A	Lab Control Sample	Total/NA	Water	3535A	
MB 200-55059/1-A	Method Blank	Total/NA	Water	3535A	

Analysis Batch: 55063

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-37261-3	310 Old Orchard	Total/NA	Water	522 MOD	55059
480-37261-5	4 Fairview	Total/NA	Water	522 MOD	55059
480-37261-7	225 Alston	Total/NA	Water	522 MOD	55059
480-37261-9	11 Elda	Total/NA	Water	522 MOD	55059
480-37261-11	30 Knowles	Total/NA	Water	522 MOD	55059
480-37261-15	20 Guerrera 59	Total/NA	Water	522 MOD	55059
480-37261-17	20 Guerrera 42	Total/NA	Water	522 MOD	55059
480-37261-19	1 Whidah	Total/NA	Water	522 MOD	55059
480-37261-21	325 Schoolhouse Int	Total/NA	Water	522 MOD	55059

GC/MS Semi VOA (Continued)

Analysis Batch: 55063 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-37261-23	325 Schoolhouse Eff	Total/NA	Water	522 MOD	55059
LCS 200-55059/2-A	Lab Control Sample	Total/NA	Water	522 MOD	55059
MB 200-55059/1-A	Method Blank	Total/NA	Water	522 MOD	55059

Analysis Batch: 55089

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-37261-13	325 Schoolhouse Inf	Total/NA	Water	522 MOD	55059

Prep Batch: 55093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-37261-1	55 Deerfield	Total/NA	Water	3535A	
LCS 200-55093/2-A	Lab Control Sample	Total/NA	Water	3535A	
MB 200-55093/1-A	Method Blank	Total/NA	Water	3535A	

Analysis Batch: 55112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-37261-1	55 Deerfield	Total/NA	Water	522 MOD	55093
LCS 200-55093/2-A	Lab Control Sample	Total/NA	Water	522 MOD	55093
MB 200-55093/1-A	Method Blank	Total/NA	Water	522 MOD	55093

Prep Batch: 55200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-37261-25	Trip Blank	Total/NA	Water	3535A	
LCS 200-55200/2-A	Lab Control Sample	Total/NA	Water	3535A	
MB 200-55200/1-A	Method Blank	Total/NA	Water	3535A	

Analysis Batch: 55210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-37261-25	Trip Blank	Total/NA	Water	522 MOD	55200
LCS 200-55200/2-A	Lab Control Sample	Total/NA	Water	522 MOD	55200
MB 200-55200/1-A	Method Blank	Total/NA	Water	522 MOD	55200

Lab Chronicle

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37261-1

Client Sample ID: 55 Deerfield

Lab Sample ID: 480-37261-1

Date Collected: 04/29/13 10:05

Matrix: Water

Date Received: 04/30/13 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	116083	05/01/13 13:46	TRB	TAL BUF
Total/NA	Prep	3535A			55093	05/03/13 08:49	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55112	05/03/13 14:06	RJH	TAL BUR

Client Sample ID: 310 Old Orchard

Lab Sample ID: 480-37261-3

Date Collected: 04/29/13 11:55

Matrix: Water

Date Received: 04/30/13 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	116392	05/02/13 12:47	TRB	TAL BUF
Total/NA	Prep	3535A			55059	05/02/13 14:00	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55063	05/02/13 18:05	RJH	TAL BUR

Client Sample ID: 4 Fairview

Lab Sample ID: 480-37261-5

Date Collected: 04/29/13 11:05

Matrix: Water

Date Received: 04/30/13 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	116083	05/01/13 14:37	TRB	TAL BUF
Total/NA	Prep	3535A			55059	05/02/13 14:00	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55063	05/02/13 18:22	RJH	TAL BUR

Client Sample ID: 225 Alston

Lab Sample ID: 480-37261-7

Date Collected: 04/29/13 12:45

Matrix: Water

Date Received: 04/30/13 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	116083	05/01/13 15:02	TRB	TAL BUF
Total/NA	Prep	3535A			55059	05/02/13 14:00	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55063	05/02/13 18:38	RJH	TAL BUR

Client Sample ID: 11 Elda

Lab Sample ID: 480-37261-9

Date Collected: 04/29/13 14:10

Matrix: Water

Date Received: 04/30/13 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	116083	05/01/13 15:28	TRB	TAL BUF
Total/NA	Prep	3535A			55059	05/02/13 14:00	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55063	05/02/13 18:54	RJH	TAL BUR

Lab Chronicle

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37261-1

Client Sample ID: 30 Knowles

Lab Sample ID: 480-37261-11

Date Collected: 04/29/13 09:30

Matrix: Water

Date Received: 04/30/13 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	116083	05/01/13 15:54	TRB	TAL BUF
Total/NA	Prep	3535A			55059	05/02/13 14:00	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55063	05/02/13 19:10	RJH	TAL BUR

Client Sample ID: 325 Schoolhouse Inf

Lab Sample ID: 480-37261-13

Date Collected: 04/29/13 10:15

Matrix: Water

Date Received: 04/30/13 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	116392	05/02/13 13:11	TRB	TAL BUF
Total/NA	Prep	3535A			55059	05/02/13 14:00	JAB	TAL BUR
Total/NA	Analysis	522 MOD		2	55089	05/03/13 09:30	RJH	TAL BUR

Client Sample ID: 20 Guerrera 59

Lab Sample ID: 480-37261-15

Date Collected: 04/29/13 11:40

Matrix: Water

Date Received: 04/30/13 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	116083	05/01/13 16:45	TRB	TAL BUF
Total/NA	Prep	3535A			55059	05/02/13 14:00	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55063	05/02/13 19:58	RJH	TAL BUR

Client Sample ID: 20 Guerrera 42

Lab Sample ID: 480-37261-17

Date Collected: 04/29/13 12:15

Matrix: Water

Date Received: 04/30/13 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	116083	05/01/13 17:11	TRB	TAL BUF
Total/NA	Prep	3535A			55059	05/02/13 14:00	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55063	05/02/13 20:15	RJH	TAL BUR

Client Sample ID: 1 Whidah

Lab Sample ID: 480-37261-19

Date Collected: 04/29/13 13:45

Matrix: Water

Date Received: 04/30/13 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	116083	05/01/13 17:37	TRB	TAL BUF
Total/NA	Prep	3535A			55059	05/02/13 14:00	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55063	05/02/13 20:31	RJH	TAL BUR

Lab Chronicle

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37261-1

Client Sample ID: 325 Schoolhouse Int

Lab Sample ID: 480-37261-21

Date Collected: 04/29/13 10:35
Matrix: Water
Date Received: 04/30/13 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	116083	05/01/13 18:03	TRB	TAL BUF
Total/NA	Prep	3535A			55059	05/02/13 14:00	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55063	05/02/13 20:47	RJH	TAL BUR

Client Sample ID: 325 Schoolhouse Eff

Lab Sample ID: 480-37261-23

Date Collected: 04/29/13 10:50
Matrix: Water
Date Received: 04/30/13 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	116083	05/01/13 18:28	TRB	TAL BUF
Total/NA	Prep	3535A			55059	05/02/13 14:00	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55063	05/02/13 21:03	RJH	TAL BUR

Client Sample ID: Trip Blank

Lab Sample ID: 480-37261-25

Date Collected: 04/29/13 00:00
Matrix: Water
Date Received: 04/30/13 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	116083	05/01/13 18:54	TRB	TAL BUF
Total/NA	Prep	3535A			55200	05/07/13 09:33	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55210	05/07/13 13:36	RJH	TAL BUR

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Certification Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37261-1

Laboratory: TestAmerica Buffalo

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-13
California	NELAP	9	1169CA	09-30-13
Connecticut	State Program	1	PH-0568	09-30-14
Florida	NELAP	4	E87672	06-30-13
Georgia	State Program	4	N/A	03-31-14
Georgia	State Program	4	956	06-30-13
Georgia	State Program	4	956	03-31-14
Illinois	NELAP	5	200003	09-30-13
Iowa	State Program	7	374	03-15-15
Kansas	NELAP	7	E-10187	01-31-14
Kentucky	State Program	4	90029	12-31-13
Kentucky (UST)	State Program	4	30	04-01-14
Louisiana	NELAP	6	02031	06-30-13
Maine	State Program	1	NY00044	12-04-13
Maryland	State Program	3	294	03-31-14
Massachusetts	State Program	1	M-NY044	06-30-13
Michigan	State Program	5	9937	04-01-13 *
Minnesota	NELAP	5	036-999-337	12-31-13
New Hampshire	NELAP	1	2973	09-11-13
New Hampshire	NELAP	1	2337	11-17-13
New Jersey	NELAP	2	NY455	06-30-13
New York	NELAP	2	10026	04-01-14
North Dakota	State Program	8	R-176	03-31-14
Oklahoma	State Program	6	9421	08-31-13
Oregon	NELAP	10	NY200003	06-09-13
Pennsylvania	NELAP	3	68-00281	07-31-13
Rhode Island	State Program	1	LAO00328	12-31-13
Tennessee	State Program	4	TN02970	04-01-14
Texas	NELAP	6	T104704412-11-2	07-31-13
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAP	3	460185	09-14-13
Washington	State Program	10	C784	02-10-14
West Virginia DEP	State Program	3	252	09-30-13
Wisconsin	State Program	5	998310390	08-31-13

Laboratory: TestAmerica Burlington

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Connecticut	State Program	1	PH-0751	09-30-13
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-13-15
Florida	NELAP	4	E87467	06-30-13
L-A-B	DoD ELAP		L2336	10-26-13
Louisiana	NELAP	6	176292	06-30-13
Maine	State Program	1	VT00008	04-17-13 *
Minnesota	NELAP	5	050-999-436	12-31-13
New Hampshire	NELAP	1	2006	12-18-13
New Jersey	NELAP	2	VT972	06-30-13
New York	NELAP	2	10391	04-01-14
Pennsylvania	NELAP	3	68-00489	04-30-14

* Expired certification is currently pending renewal and is considered valid.

Certification Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37261-1

Laboratory: TestAmerica Burlington (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
USDA	Federal		P330-11-00093	02-17-14
Vermont	State Program	1	VT-4000	12-31-13
Virginia	NELAP	3	460209	12-14-13

Method Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37261-1

Method	Method Description	Protocol	Laboratory
524.2	Volatile Organic Compounds (GC/MS)	EPA-DW	TAL BUF
522 MOD	1,4 Dioxane (GC/MS SIM)	EPA	TAL BUR

Protocol References:

EPA = US Environmental Protection Agency

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37261-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-37261-1	55 Deerfield	Water	04/29/13 10:05	04/30/13 01:15
480-37261-3	310 Old Orchard	Water	04/29/13 11:55	04/30/13 01:15
480-37261-5	4 Fairview	Water	04/29/13 11:05	04/30/13 01:15
480-37261-7	225 Alston	Water	04/29/13 12:45	04/30/13 01:15
480-37261-9	11 Elda	Water	04/29/13 14:10	04/30/13 01:15
480-37261-11	30 Knowles	Water	04/29/13 09:30	04/30/13 01:15
480-37261-13	325 Schoolhouse Inf	Water	04/29/13 10:15	04/30/13 01:15
480-37261-15	20 Guerrera 59	Water	04/29/13 11:40	04/30/13 01:15
480-37261-17	20 Guerrera 42	Water	04/29/13 12:15	04/30/13 01:15
480-37261-19	1 Whidah	Water	04/29/13 13:45	04/30/13 01:15
480-37261-21	325 Schoolhouse Int	Water	04/29/13 10:35	04/30/13 01:15
480-37261-23	325 Schoolhouse Eff	Water	04/29/13 10:50	04/30/13 01:15
480-37261-25	Trip Blank	Water	04/29/13 00:00	04/30/13 01:15

TestAmerica Westfield
Westfield Executive Park 53 Southampton Road
Westfield, MA 01085
Phone (413) 572-4000 Fax (413) 572-3707

Boston Service Center
240 Bear Hill Rd. Suite 104
Waltham, MA 02451
Phone (781) 466-6900 Fax (781) 466-6901

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

COC No: 26198
Page:
Job #:

Client Information
Client Contact: Bennett Environmental Associates, Inc.
Company: David Bennett
Address: 1573 Main Street/P.O. Box 1743
City: Brewster, MA
State, Zip: MA, 02631
Phone: (508) 896-1706
Email: dbennett@bennett-ea.com
Project Name/number: Eastham Landfill BEA 11-10104
Site: Eastham, MA

Sampler: [signature]
Phone: (508) 896-1706
Lab PM:
E-Mail:
Carrier Tracking No(s):
Due Date Requested:
TAT Requested (days): 2 weeks calendar
Quote #: 10104
PO #:
WO #:
SSOW#:

Analysis Requested

Preservation Codes:
A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; H - Ascorbic Acid; I - Ice; J - DI Water; M - Hexane; N - None; P - Na2O4S; Q - Na2SO3; R - Na2S2SO3; S - H2SO4; Z - other (specify)

Regulatory programs: MCP ☐ GW1/S1 ☐ RCP ☐ CT RSR ☐ DEP Form ☐ EDD Required ☐

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wasteoil, BT=Tissue, A=Air)	Sample's Filtered	Field Filtered Sample?	Perform MS/MSD?	VOAs	1,4-Dioxane	Total Number of containers	Special Instructions/Note:
	4/29/13		Preservation Code:		X	X	X	A	A		
30 Knowles	4/29/13	0930	G	W				X	X	5	
30 Knowles Dup		0930						X	X	4	
325 Schoolhouse Inf		1015						X	X	5	
325 Schoolhouse Inf Dup		1015						X	X	4	
20 Guerrera 59		1140						X	X	5	
20 Guerrera 59 Dup		1140						X	X	4	
20 Guerrera 42		1215						X	X	5	
20 Guerrera 42 Dup		1215						X	X	4	
1 Whidah		1345						X	X	5	
1 Whidah Dup		1345						X	X	4	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested: I, II, III, IV, Other (specify)
Special Instructions/QC Requirements:

	Date/Time	Company		Date/Time	Company
Relinquished by: [signature]	4/29/13 1430	USEPA	Received by: [signature]	4/29/13 1430	USEPA
Relinquished by: [signature]	4/29/13 1800	USEPA	Received by: [signature]	4/29/13 1800	
Relinquished by: [signature]	4-29-13 2300		Received by: [signature]	4-30-13 0115	TA Buck

Custody Seals Intact: ☐ Yes ☐ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 2.2 2.9 #1

TAL-8245-360 1111

TestAmerica Westfield
Westfield Executive Park 53 Southampton Road
Westfield, MA 01085
Phone (413) 572-4000 Fax (413) 572-3707

Boston Service Center
240 Bear Hill Rd. Suite 104
Waltham, MA 02451
Phone (781) 466-8900 Fax (781) 466-8901

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information
Client Contact: Dave Bennett
Company: BEA Inc
Address: 1373 Main St./P.O. Box 1743
City: Bristol
State, Zip: MA 02631
Phone: 508-896-1706
Email: dbennett@bennett-ea.com
Project Name/number: Eastham Landfill BEA 11-1004
Site: EASTHAM, MA

Sampler: Jerry Keefe / Lisa Hurst
Phone:
Lab PM:
E-Mail:
Carrier Tracking No(s):
Due Date Requested:
TAT Requested (days): 2 weeks calendar
Quote #:
PO #: 10104
WO #:
SSOW#:

COC No: 26173
Page:
Job #:

Preservation Codes:
A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; H - Ascorbic Acid; I - Ice; J - DI Water; M - Hexane; N - None; P - Na2O4S; Q - Na2SO3; R - Na2S2SO3; S - H2SO4; Z - other (specify)

Regulatory programs: MCP ☐ GW1/S1 ☐ RCP ☐ CT RSR ☐ DEP Form ☐ EDD Required ☐

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Sampler's Initials	Field Filtered Sample?	Perform MS/MSD?	VOA	1,4 Dioxane	Total Number of containers	Special Instructions/Note:
Preservation Code:					X	X	X	A	A		
55 Deerfield	4/29/13	1005	G	W				3	2	5	
~~4 Fairview~~ 55 Deerfield Dup	4/29/13	1005	G	W				3	1	4	
310 old Orchard	4/29/13	1155	G	W				3	2	5	
310 old orchard Dup	4/29/13	1155	G	W				3	1	4	
4 Fairview	4/29/13	1105	G	W				3	2	5	
4 Fairview Dup	4/29/13	1105	G	W				3	1	4	
225 Alston	4/29/13	1245	G	W				3	2	5	
225 Alston Dup	4/29/13	1245	G	W				3	1	4	
11 Elda	4/29/13	1410	G	W				3	2	5	
11 Elda Dup	4/29/13	1410	G	W				3	1	4	

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ___ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

	Date/Time	Company		Date/Time	Company
Relinquished by:	4/29/13 1500	USDOA	Received by:	4-29-13 1500	TA
Relinquished by:	4-29-13 1800		Received by:	4-30-13 0115	TA Bristol
Relinquished by:			Received by:		

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 2.2, 2.9 #1

TAL-8245-360 1111

TestAmerica Westfield
Westfield Executive Park 53 Southampton Road
Westfield, MA 01085
Phone (413) 572-4000 Fax (413) 572-3707

Boston Service Center
240 Bear Hill Rd. Suite 104
Waltham, MA 02451
Phone (781) 466-6900 Fax (781) 466-6901

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information
Client Contact: Bennett Environmental Associates
Company: David Bennett
Address: 1573 Main Street P.O. Box 1743
City: Brewster
State, Zip: MA, 02631
Phone: (508) 896-1706
Email: dbennett@bennett-ea.com
Project Name/Number: Eastham landfill BEA-11-1004
Site: Eastham, MA

Sampler: EJ Bennett
Phone: (508)896-1706
Lab PM:
E-Mail:
Carrier Tracking No(s):
Due Date Requested:
TAT Requested (days): 2 weeks calendar
Quote #:
PO #:
WO #:
SSOW#:

COC No: 26199
Page:
Job #:

Analysis Requested

Preservation Codes:
A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; H - Ascorbic Acid; I - Ice; J - DI Water; M - Hexane; N - None; P - Na2O4S; Q - Na2SO3; R - Na2S2SO3; S - H2SO4; Z - other (specify)

Regulatory programs: MCP ☐ GW1/S1 ☐; RCP ☐ CT RSR ☐; DEP Form ☐ EDD Required ☐

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Sample's Initials	Field Filtered Sample?	Perform MS/MSD?	VOCs	1,4-Dioxane	Total Number of containers	Special Instructions/Note:
			Preservation Code:					A	A		
325 Schoolhouse Int	4/29/13	1035	G	W				X	X	5	
325 Schoolhouse Int dup		1035						X	X	4	
325 Schoolhouse Eff		1050						X	X	5	
325 Schoolhouse Eff dup		1050						X	X	4	
Trip Blank		NA	G	W				X	X	6	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested: I, II, III, IV, Other (specify)
Special Instructions/QC Requirements:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	4/29/13 1430	USEPA		4/29/13 1430	USEPA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	4/29/13 1503	USEPA		4/29/13 1503	EA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	4/29/13 1800			4/30/13 0115	TA Bldg

Custody Seals Intact: ☐ Yes ☐ No Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 2.2, 2.9 #1

TAL-8245-360 1111

Login Sample Receipt Checklist

Client: Bennett Environmental Associates, Inc.

Job Number: 480-37261-1

Login Number: 37261

List Source: TestAmerica Buffalo

List Number: 1

Creator: Wienke, Robert

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	USEPA
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Bennett Environmental Associates, Inc.

Job Number: 480-37261-1

Login Number: 37261
List Number: 1
Creator: Poucher, Stephanie A

List Source: TestAmerica Burlington
List Creation: 05/01/13 12:53 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	708992, 993
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.6ºC, 1.2ºC IR GUN ID 181. CF 0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.

Login Sample Receipt Checklist

Client: Bennett Environmental Associates, Inc.

Job Number: 480-37261-1

Login Number: 37261
List Number: 2
Creator: Poucher, Stephanie A

List Source: TestAmerica Burlington
List Creation: 05/03/13 12:23 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	709096, 097
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.4ºC, 4.6ºC IR GUN ID 181. CF 0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.

						Sample ID	55 Deerfield	310 Old Orchard	4 Fairview	225 Alston	11 Elda	30 Knowles	325 Schoolhouse Inf	20 Guerrera 59	20 Guerrera 42	1 Whidah	325 Schoolhouse Int	325 Schoolhouse Eff	Trip Blank
						Sampled By													
						Sample Collection Date	04/29/2013 10:05	04/29/2013 11:55	04/29/2013 11:05	04/29/2013 12:45	04/29/2013 14:10	04/29/2013 09:30	04/29/2013 10:15	04/29/2013 11:40	04/29/2013 12:15	04/29/2013 13:45	04/29/2013 10:35	04/29/2013 10:50	04/29/2013 00:00
						Laboratory Order Number	480-37261-1	480-37261-3	480-37261-5	480-37261-7	480-37261-9	480-37261-11	480-37261-13	480-37261-15	480-37261-17	480-37261-19	480-37261-21	480-37261-23	480-37261-25
Parameter	**Reporting Units**	**GW1**	**GW2**	**RCGW1**	**RCGW2**	**DW MMCL**													
Volatiles by 524.2																			
1,1,1,2-Tetrachloroethane	ug/l	5	10	5	10	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1,1-Trichloroethane	ug/l	200	4000	200	4000	200	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1,2,2-Tetrachloroethane	ug/l	2	9	2	9	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1,2-Trichloroethane	ug/l	5	900	5	900	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1-Dichloroethane	ug/l	70	1000	70	1000	NA	< 0.50	< 0.50	< 0.50	0.099J	0.20J	0.36J	0.36J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1-Dichloroethene	ug/l	7	80	7	80	7	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1-Dichloropropene	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2,3-Trichlorobenzene	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2,3-Trichloropropane	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2,4-Trichlorobenzene	ug/l	70	2000	70	2000	70	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2,4-Trimethylbenzene	ug/l	NA	NA	10000	100000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dibromo-3-Chloropropane	ug/l	NA	NA	100	1000	0.2	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**
1,2-Dibromoethane	ug/l	0.02	2	0.02	2	0.02	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**
1,2-Dichlorobenzene	ug/l	600	2000	600	2000	600	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichloroethane	ug/l	5	5	5	5	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichloropropane	ug/l	5	3	3	3	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,3,5-Trimethylbenzene	ug/l	NA	NA	100	1000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,3-Dichlorobenzene	ug/l	40	2000	40	2000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,3-Dichloropropane	ug/l	NA	NA	5000	50000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,4-Dichlorobenzene	ug/l	5	200	5	200	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,2-Dichloropropane	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Butanone (MEK)	ug/l	4000	50000	4000	50000	NA	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
2-Chlorotoluene	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Chlorotoluene	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Isopropyltoluene	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Methyl-2-pentanone (MIBK)	ug/l	350	50000	350	50000	NA	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
Acetone	ug/l	6300	50000	6300	50000	NA	< 2.5	< 2.5	< 2.5	< 2.5	0.92J	< 2.5	< 2.5	< 2.5	0.88J	< 2.5	0.67J	< 2.5	1.0J
Benzene	ug/l	5	2000	5	2000	5	< 0.50	< 0.50	< 0.50	< 0.50	0.20J	0.31J	0.57	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromobenzene	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromochloromethane	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromoform	ug/l	4	700	4	700	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromomethane	ug/l	10	7	7	7	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Carbon tetrachloride	ug/l	5	2	2	2	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chlorobenzene	ug/l	100	200	100	200	100	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chlorodibromomethane	ug/l	2	20	2	20	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chloroethane	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.51	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chloroform	ug/l	70	50	50	50	NA	0.39J	0.40J	< 0.50	0.23J	< 0.50	0.20J	< 0.50	< 0.50	0.49J	< 0.50	< 0.50	< 0.50	< 0.50
Chloromethane	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.080J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
cis-1,2-Dichloroethene	ug/l	70	100	70	100	NA	< 0.50	< 0.50	< 0.50	0.23J	0.78	1.8	1.9	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
cis-1,3-Dichloropropene	ug/l	NA	NA	0.5	5	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dibromomethane	ug/l	NA	NA	5000	50000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dichlorobromomethane	ug/l	3	6	3	6	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dichlorodifluoromethane	ug/l	NA	NA	10000	100000	NA	< 0.50	< 0.50	< 0.50	0.11J	< 0.50	0.25J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Ethylbenzene	ug/l	700	20000	700	5000	700	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachlorobutadiene	ug/l	0.6	1	0.6	1	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Isopropylbenzene	ug/l	NA	NA	10000	100000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Methyl tert-butyl ether	ug/l	70	50000	70	5000	NA	< 0.50	0.14J	< 0.50	< 0.50	1.2	0.85	1.6	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Methylene Chloride	ug/l	5	10000	5	10000	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.59
m-Xylene & p-Xylene	ug/l	10000	9000	5000	5000	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene	ug/l	140	1000	140	1000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
n-Butylbenzene	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
N-Propylbenzene	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
o-Xylene	ug/l	10000	9000	5000	5000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Styrene	ug/l	100	100	100	100	100	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
t-Butanol	ug/l	NA	NA	NA	NA	NA	< 10	< 10	< 10	< 10	3.7J	6.1J	9.8J	< 10	< 10	< 10	< 10	< 10	< 10
tert-Butylbenzene	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Tetrachloroethene	ug/l	5	50	5	50	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Toluene	ug/l	1000	50000	1000	40000	1000	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
trans-1,2-Dichloroethene	ug/l	100	90	90	90	100	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
trans-1,3-Dichloropropene	ug/l	NA	NA	0.5	5	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Trichloroethene	ug/l	5	30	5	30	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Trichlorofluoromethane	ug/l	NA	NA	10000	100000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Trihalomethanes, Total	ug/l	NA	NA	NA	NA	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Vinyl chloride	ug/l	2	2	2	2	2	< 0.50	< 0.50	< 0.50	0.075J	0.22J	0.18J	0.23J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Xylenes, Total	ug/l	10000	9000	5000	5000	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Semivolatiles by 522 MOD																			
1,4-Dioxane	ug/l	3	6000	3	6000	NA	0.062J	0.41	< 0.20	1.2	**4.2**	**6.0**	**9.8**	0.15J	< 0.20	< 0.20	< 0.20	< 0.20	0.083J

Notes:
ug/l - micrograms/liter
* - LCS or LCSD exceeds the control limits
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
GW1 - Concentrations based on the use of groundwater as drinking water, either currently or in the foreseeable future.
GW2 - Concentrations based on the potential for volatile material to migrate into indoor air.
GW3 - Concentrations based on the potential environmental effects resulting from contaminated groundwater discharging to surface water.
RC - Risk Characterization approach, Standards may be supplemented or modified with site- and chemical-specific information.
UCL - Upper Concentration Limits in groundwater and soil are promulgated to minimize potential risks associated with uncontrolled environmental contamination, and the costs associated with cumulative anthropogenic contributions to background.

TestAmerica's TotalAccess, is our online data management tool. Features include, a cross-tab view displaying each analyte
as a row across sample columns, an intuitive analyte trending tool, auto-fill search functions and exports data into Excel, while keeping its original format.
Other features include a redesign and simplification in selecting regulatory limits, Work Order and Results page layout redesign, and available data columns in the Results and Budgets pages.
The regulatory comparison tool allows users to compare their analytical data against a number of regulatory compound lists and associated limits.
This feature now encompasses over 786 regulatory lists from 34 States and the U.S. EPA, covering 91,529 individual analyte comparison limits.
The benefits of TotalAccess are offered free of charge to all TestAmerica clients, Clients can sign up for TotalAccess
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More information @ http://www.mass.gov/dep/cleanup/laws/standard.htm

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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TestAmerica Job ID: 480-37261-2
Client Project/Site: Eastham Landfill IRA

For:
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LINKS

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Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37261-2

Qualifiers

GC/MS VOA

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37261-2

Job ID: 480-37261-2

Laboratory: TestAmerica Buffalo

Narrative

Receipt
The samples were received on 4/30/2013 at 1:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.2º C and 2.9º C.

Receipt Exceptions
The container labels for the following samples did not match the information listed on the Chain-of-Custody (COC): 20 Guerrera 42 (480-37261-17) and 20 Guerrera 42 Dup (480-37261-18). The container labels list "20 Guerrara 42" and "20 Guerrara 42 Dup" while the COC lists "20 Guerrara 41" and "20 Guerrara 41 Dup." The samples were logged in as listed on the COC.

The following samples were activated by the client for Methods 522 and 524 analysis on 5/9/2013: 11 Elda Dup (480-37261-10), 30 Knowles Dup (480-37261-12) and 325 Schoolhouse Inf Dup (480-37261-14). These analyses were originally placed on hold at the time of sample receipt by the laboratory.

GC/MS VOA
No analytical or quality issues were noted.

GC/MS Semi VOA
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37261-2

Client Sample ID: 11 Elda Dup — Lab Sample ID: 480-37261-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.19	J	0.50	0.074	ug/L	1		524.2	Total/NA
Benzene	0.18	J	0.50	0.13	ug/L	1		524.2	Total/NA
Chloroethane	0.30	J	0.50	0.070	ug/L	1		524.2	Total/NA
cis-1,2-Dichloroethene	0.89		0.50	0.12	ug/L	1		524.2	Total/NA
Methyl tert-butyl ether	1.2		0.50	0.12	ug/L	1		524.2	Total/NA
t-Butanol	7.9	J	10	2.5	ug/L	1		524.2	Total/NA
Vinyl chloride	0.23	J	0.50	0.059	ug/L	1		524.2	Total/NA
1,4-Dioxane	3.3		0.20	0.041	ug/L	1		522 MOD	Total/NA

Client Sample ID: 30 Knowles Dup — Lab Sample ID: 480-37261-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.36	J	0.50	0.074	ug/L	1		524.2	Total/NA
Benzene	0.28	J	0.50	0.13	ug/L	1		524.2	Total/NA
Chloroethane	0.34	J	0.50	0.070	ug/L	1		524.2	Total/NA
Chloroform	0.18	J	0.50	0.14	ug/L	1		524.2	Total/NA
cis-1,2-Dichloroethene	1.7		0.50	0.12	ug/L	1		524.2	Total/NA
Methyl tert-butyl ether	0.85		0.50	0.12	ug/L	1		524.2	Total/NA
t-Butanol	8.6	J	10	2.5	ug/L	1		524.2	Total/NA
1,4-Dioxane	5.2		0.20	0.041	ug/L	1		522 MOD	Total/NA

Client Sample ID: 325 Schoolhouse Inf Dup — Lab Sample ID: 480-37261-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.37	J	0.50	0.074	ug/L	1		524.2	Total/NA
Benzene	0.54		0.50	0.13	ug/L	1		524.2	Total/NA
Chloroethane	0.50		0.50	0.070	ug/L	1		524.2	Total/NA
cis-1,2-Dichloroethene	2.1		0.50	0.12	ug/L	1		524.2	Total/NA
Methyl tert-butyl ether	1.7		0.50	0.12	ug/L	1		524.2	Total/NA
t-Butanol	16		10	2.5	ug/L	1		524.2	Total/NA
1,4-Dioxane	8.3		0.40	0.082	ug/L	2		522 MOD	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37261-2

Client Sample ID: 11 Elda Dup
Date Collected: 04/29/13 14:10
Date Received: 04/30/13 01:15

Lab Sample ID: 480-37261-10
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/09/13 12:55	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/09/13 12:55	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/09/13 12:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/09/13 12:55	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/09/13 12:55	1
1,1-Dichloroethane	**0.19**	**J**	0.50	0.074	ug/L			05/09/13 12:55	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/09/13 12:55	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/09/13 12:55	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/09/13 12:55	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/09/13 12:55	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/09/13 12:55	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/09/13 12:55	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/09/13 12:55	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/09/13 12:55	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/09/13 12:55	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/09/13 12:55	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/09/13 12:55	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/09/13 12:55	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/09/13 12:55	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/09/13 12:55	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/09/13 12:55	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/09/13 12:55	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/09/13 12:55	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/09/13 12:55	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/09/13 12:55	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/09/13 12:55	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/09/13 12:55	1
Acetone	ND		2.5	0.54	ug/L			05/09/13 12:55	1
Benzene	**0.18**	**J**	0.50	0.13	ug/L			05/09/13 12:55	1
Bromobenzene	ND		0.50	0.13	ug/L			05/09/13 12:55	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/09/13 12:55	1
Bromoform	ND		0.50	0.13	ug/L			05/09/13 12:55	1
Bromomethane	ND		0.50	0.051	ug/L			05/09/13 12:55	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/09/13 12:55	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/09/13 12:55	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/09/13 12:55	1
Chloroethane	**0.30**	**J**	0.50	0.070	ug/L			05/09/13 12:55	1
Chloroform	ND		0.50	0.14	ug/L			05/09/13 12:55	1
Chloromethane	ND		0.50	0.063	ug/L			05/09/13 12:55	1
cis-1,2-Dichloroethene	**0.89**		0.50	0.12	ug/L			05/09/13 12:55	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/09/13 12:55	1
Dibromomethane	ND		0.50	0.17	ug/L			05/09/13 12:55	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/09/13 12:55	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/09/13 12:55	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/09/13 12:55	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/09/13 12:55	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/09/13 12:55	1
Methyl tert-butyl ether	**1.2**		0.50	0.12	ug/L			05/09/13 12:55	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/09/13 12:55	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37261-2

Client Sample ID: 11 Elda Dup

Lab Sample ID: 480-37261-10

Date Collected: 04/29/13 14:10

Matrix: Water

Date Received: 04/30/13 01:15

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/09/13 12:55	1
Naphthalene	ND		0.50	0.060	ug/L			05/09/13 12:55	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/09/13 12:55	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/09/13 12:55	1
o-Xylene	ND		0.50	0.044	ug/L			05/09/13 12:55	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/09/13 12:55	1
Styrene	ND		0.50	0.044	ug/L			05/09/13 12:55	1
t-Butanol	**7.9**	**J**	10	2.5	ug/L			05/09/13 12:55	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/09/13 12:55	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/09/13 12:55	1
Toluene	ND		0.50	0.10	ug/L			05/09/13 12:55	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/09/13 12:55	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/09/13 12:55	1
Trichloroethene	ND		0.50	0.060	ug/L			05/09/13 12:55	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/09/13 12:55	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/09/13 12:55	1
Vinyl chloride	**0.23**	**J**	0.50	0.059	ug/L			05/09/13 12:55	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/09/13 12:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*102*		*80 - 120*		*05/09/13 12:55*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*05/09/13 12:55*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**3.3**		0.20	0.041	ug/L		05/10/13 09:02	05/13/13 12:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*80*		*70 - 130*	*05/10/13 09:02*	*05/13/13 12:19*	*1*

Client Sample ID: 30 Knowles Dup

Lab Sample ID: 480-37261-12

Date Collected: 04/29/13 09:30

Matrix: Water

Date Received: 04/30/13 01:15

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/09/13 13:19	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/09/13 13:19	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/09/13 13:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/09/13 13:19	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/09/13 13:19	1
1,1-Dichloroethane	**0.36**	**J**	0.50	0.074	ug/L			05/09/13 13:19	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/09/13 13:19	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/09/13 13:19	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/09/13 13:19	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/09/13 13:19	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/09/13 13:19	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/09/13 13:19	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/09/13 13:19	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/09/13 13:19	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37261-2

Client Sample ID: 30 Knowles Dup
Date Collected: 04/29/13 09:30
Date Received: 04/30/13 01:15

Lab Sample ID: 480-37261-12
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/09/13 13:19	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/09/13 13:19	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/09/13 13:19	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/09/13 13:19	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/09/13 13:19	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/09/13 13:19	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/09/13 13:19	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/09/13 13:19	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/09/13 13:19	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/09/13 13:19	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/09/13 13:19	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/09/13 13:19	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/09/13 13:19	1
Acetone	ND		2.5	0.54	ug/L			05/09/13 13:19	1
Benzene	**0.28**	**J**	0.50	0.13	ug/L			05/09/13 13:19	1
Bromobenzene	ND		0.50	0.13	ug/L			05/09/13 13:19	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/09/13 13:19	1
Bromoform	ND		0.50	0.13	ug/L			05/09/13 13:19	1
Bromomethane	ND		0.50	0.051	ug/L			05/09/13 13:19	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/09/13 13:19	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/09/13 13:19	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/09/13 13:19	1
Chloroethane	**0.34**	**J**	0.50	0.070	ug/L			05/09/13 13:19	1
Chloroform	**0.18**	**J**	0.50	0.14	ug/L			05/09/13 13:19	1
Chloromethane	ND		0.50	0.063	ug/L			05/09/13 13:19	1
cis-1,2-Dichloroethene	**1.7**		0.50	0.12	ug/L			05/09/13 13:19	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/09/13 13:19	1
Dibromomethane	ND		0.50	0.17	ug/L			05/09/13 13:19	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/09/13 13:19	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/09/13 13:19	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/09/13 13:19	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/09/13 13:19	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/09/13 13:19	1
Methyl tert-butyl ether	**0.85**		0.50	0.12	ug/L			05/09/13 13:19	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/09/13 13:19	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/09/13 13:19	1
Naphthalene	ND		0.50	0.060	ug/L			05/09/13 13:19	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/09/13 13:19	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/09/13 13:19	1
o-Xylene	ND		0.50	0.044	ug/L			05/09/13 13:19	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/09/13 13:19	1
Styrene	ND		0.50	0.044	ug/L			05/09/13 13:19	1
t-Butanol	**8.6**	**J**	10	2.5	ug/L			05/09/13 13:19	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/09/13 13:19	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/09/13 13:19	1
Toluene	ND		0.50	0.10	ug/L			05/09/13 13:19	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/09/13 13:19	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/09/13 13:19	1
Trichloroethene	ND		0.50	0.060	ug/L			05/09/13 13:19	1

Client Sample ID: 30 Knowles Dup

Lab Sample ID: 480-37261-12

Date Collected: 04/29/13 09:30

Matrix: Water

Date Received: 04/30/13 01:15

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/09/13 13:19	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/09/13 13:19	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/09/13 13:19	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/09/13 13:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*103*		*80 - 120*		*05/09/13 13:19*	*1*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*05/09/13 13:19*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**5.2**		0.20	0.041	ug/L		05/10/13 09:02	05/13/13 12:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*86*		*70 - 130*	*05/10/13 09:02*	*05/13/13 12:35*	*1*

Client Sample ID: 325 Schoolhouse Inf Dup

Lab Sample ID: 480-37261-14

Date Collected: 04/29/13 10:15

Matrix: Water

Date Received: 04/30/13 01:15

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/09/13 13:44	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/09/13 13:44	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/09/13 13:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/09/13 13:44	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/09/13 13:44	1
1,1-Dichloroethane	**0.37**	**J**	0.50	0.074	ug/L			05/09/13 13:44	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/09/13 13:44	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/09/13 13:44	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/09/13 13:44	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/09/13 13:44	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/09/13 13:44	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/09/13 13:44	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/09/13 13:44	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/09/13 13:44	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/09/13 13:44	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/09/13 13:44	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/09/13 13:44	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/09/13 13:44	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/09/13 13:44	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/09/13 13:44	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/09/13 13:44	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/09/13 13:44	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/09/13 13:44	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/09/13 13:44	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/09/13 13:44	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/09/13 13:44	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/09/13 13:44	1
Acetone	ND		2.5	0.54	ug/L			05/09/13 13:44	1

Client Sample ID: 325 Schoolhouse Inf Dup
Date Collected: 04/29/13 10:15
Date Received: 04/30/13 01:15

Lab Sample ID: 480-37261-14
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.54**		0.50	0.13	ug/L			05/09/13 13:44	1
Bromobenzene	ND		0.50	0.13	ug/L			05/09/13 13:44	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/09/13 13:44	1
Bromoform	ND		0.50	0.13	ug/L			05/09/13 13:44	1
Bromomethane	ND		0.50	0.051	ug/L			05/09/13 13:44	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/09/13 13:44	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/09/13 13:44	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/09/13 13:44	1
Chloroethane	**0.50**		0.50	0.070	ug/L			05/09/13 13:44	1
Chloroform	ND		0.50	0.14	ug/L			05/09/13 13:44	1
Chloromethane	ND		0.50	0.063	ug/L			05/09/13 13:44	1
cis-1,2-Dichloroethene	**2.1**		0.50	0.12	ug/L			05/09/13 13:44	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/09/13 13:44	1
Dibromomethane	ND		0.50	0.17	ug/L			05/09/13 13:44	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/09/13 13:44	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/09/13 13:44	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/09/13 13:44	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/09/13 13:44	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/09/13 13:44	1
Methyl tert-butyl ether	**1.7**		0.50	0.12	ug/L			05/09/13 13:44	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/09/13 13:44	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/09/13 13:44	1
Naphthalene	ND		0.50	0.060	ug/L			05/09/13 13:44	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/09/13 13:44	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/09/13 13:44	1
o-Xylene	ND		0.50	0.044	ug/L			05/09/13 13:44	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/09/13 13:44	1
Styrene	ND		0.50	0.044	ug/L			05/09/13 13:44	1
t-Butanol	**16**		10	2.5	ug/L			05/09/13 13:44	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/09/13 13:44	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/09/13 13:44	1
Toluene	ND		0.50	0.10	ug/L			05/09/13 13:44	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/09/13 13:44	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/09/13 13:44	1
Trichloroethene	ND		0.50	0.060	ug/L			05/09/13 13:44	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/09/13 13:44	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/09/13 13:44	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/09/13 13:44	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/09/13 13:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*102*		*80 - 120*		*05/09/13 13:44*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*05/09/13 13:44*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**8.3**		0.40	0.082	ug/L		05/10/13 09:02	05/13/13 12:51	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*85*		*70 - 130*	*05/10/13 09:02*	*05/13/13 12:51*	*2*

Surrogate Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37261-2

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		12DCB	BFB								
Lab Sample ID	Client Sample ID	(80-120)	(80-120)								
480-37261-10	11 Elda Dup	102	97								
480-37261-12	30 Knowles Dup	103	91								
480-37261-14	325 Schoolhouse Inf Dup	102	93								
LCS 480-117635/5	Lab Control Sample	100	84								
MB 480-117635/6	Method Blank	103	84								

Surrogate Legend

12DCB = 1,2-Dichlorobenzene-d4

BFB = 4-Bromofluorobenzene (Surr)

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		14DD8									
Lab Sample ID	Client Sample ID	(70-130)									
480-37261-10	11 Elda Dup	80									
480-37261-12	30 Knowles Dup	86									
480-37261-14	325 Schoolhouse Inf Dup	85									
LCS 200-55414/2-A	Lab Control Sample	82									
MB 200-55414/1-A	Method Blank	88									

Surrogate Legend

14DD8 = 1,4-Dioxane-d8 (Surr)

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37261-2

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-117635/6
Matrix: Water
Analysis Batch: 117635

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/09/13 12:04	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/09/13 12:04	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/09/13 12:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/09/13 12:04	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/09/13 12:04	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/09/13 12:04	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/09/13 12:04	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/09/13 12:04	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/09/13 12:04	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/09/13 12:04	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/09/13 12:04	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/09/13 12:04	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/09/13 12:04	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/09/13 12:04	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/09/13 12:04	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/09/13 12:04	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/09/13 12:04	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/09/13 12:04	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/09/13 12:04	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/09/13 12:04	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/09/13 12:04	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/09/13 12:04	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/09/13 12:04	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/09/13 12:04	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/09/13 12:04	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/09/13 12:04	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/09/13 12:04	1
Acetone	ND		2.5	0.54	ug/L			05/09/13 12:04	1
Benzene	ND		0.50	0.13	ug/L			05/09/13 12:04	1
Bromobenzene	ND		0.50	0.13	ug/L			05/09/13 12:04	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/09/13 12:04	1
Bromoform	ND		0.50	0.13	ug/L			05/09/13 12:04	1
Bromomethane	ND		0.50	0.051	ug/L			05/09/13 12:04	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/09/13 12:04	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/09/13 12:04	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/09/13 12:04	1
Chloroethane	ND		0.50	0.070	ug/L			05/09/13 12:04	1
Chloroform	ND		0.50	0.14	ug/L			05/09/13 12:04	1
Chloromethane	ND		0.50	0.063	ug/L			05/09/13 12:04	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/09/13 12:04	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/09/13 12:04	1
Dibromomethane	ND		0.50	0.17	ug/L			05/09/13 12:04	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/09/13 12:04	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/09/13 12:04	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/09/13 12:04	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/09/13 12:04	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/09/13 12:04	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/09/13 12:04	1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-117635/6
Matrix: Water
Analysis Batch: 117635

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		0.50	0.25	ug/L			05/09/13 12:04	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/09/13 12:04	1
Naphthalene	ND		0.50	0.060	ug/L			05/09/13 12:04	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/09/13 12:04	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/09/13 12:04	1
o-Xylene	ND		0.50	0.044	ug/L			05/09/13 12:04	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/09/13 12:04	1
Styrene	ND		0.50	0.044	ug/L			05/09/13 12:04	1
t-Butanol	ND		10	2.5	ug/L			05/09/13 12:04	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/09/13 12:04	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/09/13 12:04	1
Toluene	ND		0.50	0.10	ug/L			05/09/13 12:04	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/09/13 12:04	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/09/13 12:04	1
Trichloroethene	ND		0.50	0.060	ug/L			05/09/13 12:04	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/09/13 12:04	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/09/13 12:04	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/09/13 12:04	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/09/13 12:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*103*		*80 - 120*		*05/09/13 12:04*	*1*
4-Bromofluorobenzene (Surr)	*84*		*80 - 120*		*05/09/13 12:04*	*1*

Lab Sample ID: LCS 480-117635/5
Matrix: Water
Analysis Batch: 117635

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	4.00	3.77		ug/L		94	70 - 130
1,1,1-Trichloroethane	4.00	3.70		ug/L		93	70 - 130
1,1,2,2-Tetrachloroethane	4.00	2.99		ug/L		75	70 - 130
1,1,2-Trichloroethane	4.00	3.41		ug/L		85	70 - 130
1,1-Dichloroethane	4.00	3.53		ug/L		88	70 - 130
1,1-Dichloroethene	4.00	3.34		ug/L		84	70 - 130
1,1-Dichloropropene	4.00	3.89		ug/L		97	70 - 130
1,2,3-Trichlorobenzene	4.00	4.46		ug/L		111	70 - 130
1,2,3-Trichloropropane	4.00	3.46		ug/L		87	70 - 130
1,2,4-Trichlorobenzene	4.00	4.39		ug/L		110	70 - 130
1,2,4-Trimethylbenzene	4.00	3.47		ug/L		87	70 - 130
1,2-Dibromo-3-Chloropropane	4.00	3.37		ug/L		84	70 - 130
1,2-Dibromoethane	4.00	3.65		ug/L		91	70 - 130
1,2-Dichlorobenzene	4.00	3.65		ug/L		91	70 - 130
1,2-Dichloroethane	4.00	4.20		ug/L		105	70 - 130
1,2-Dichloropropane	4.00	3.51		ug/L		88	70 - 130
1,3,5-Trimethylbenzene	4.00	3.44		ug/L		86	70 - 130
1,3-Dichlorobenzene	4.00	3.64		ug/L		91	70 - 130
1,3-Dichloropropane	4.00	3.52		ug/L		88	70 - 130

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-117635/5
Matrix: Water
Analysis Batch: 117635

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	4.00	3.59		ug/L		90	70 - 130
2,2-Dichloropropane	4.00	3.17		ug/L		79	70 - 130
2-Butanone (MEK)	20.0	19.5		ug/L		98	70 - 130
2-Chlorotoluene	4.00	3.36		ug/L		84	70 - 130
4-Chlorotoluene	4.00	3.32		ug/L		83	70 - 130
4-Isopropyltoluene	4.00	3.50		ug/L		87	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	18.7		ug/L		93	70 - 130
Acetone	20.0	21.7		ug/L		109	70 - 130
Benzene	4.00	3.64		ug/L		91	70 - 130
Bromobenzene	4.00	3.74		ug/L		93	70 - 130
Bromochloromethane	4.00	3.64		ug/L		91	70 - 130
Bromoform	4.00	3.52		ug/L		88	70 - 130
Bromomethane	4.00	3.56		ug/L		89	70 - 130
Carbon tetrachloride	4.00	3.82		ug/L		96	70 - 130
Chlorobenzene	4.00	3.63		ug/L		91	70 - 130
Chlorodibromomethane	4.00	3.66		ug/L		91	70 - 130
Chloroethane	4.00	4.16		ug/L		104	70 - 130
Chloroform	4.00	3.39		ug/L		85	70 - 130
Chloromethane	4.00	4.03		ug/L		101	70 - 130
cis-1,2-Dichloroethene	4.00	3.73		ug/L		93	70 - 130
cis-1,3-Dichloropropene	4.00	3.33		ug/L		83	70 - 130
Dibromomethane	4.00	3.58		ug/L		90	70 - 130
Dichlorobromomethane	4.00	3.55		ug/L		89	70 - 130
Dichlorodifluoromethane	4.00	3.81		ug/L		95	70 - 130
Ethylbenzene	4.00	3.56		ug/L		89	70 - 130
Hexachlorobutadiene	4.00	4.59		ug/L		115	70 - 130
Isopropylbenzene	4.00	3.20		ug/L		80	70 - 130
Methyl tert-butyl ether	4.00	3.38		ug/L		85	70 - 130
Methylene Chloride	4.00	3.31		ug/L		83	70 - 130
Naphthalene	4.00	4.55		ug/L		114	70 - 130
n-Butylbenzene	4.00	3.29		ug/L		82	70 - 130
N-Propylbenzene	4.00	3.26		ug/L		81	70 - 130
sec-Butylbenzene	4.00	3.41		ug/L		85	70 - 130
Styrene	4.00	3.52		ug/L		88	70 - 130
tert-Butylbenzene	4.00	3.66		ug/L		92	70 - 130
Tetrachloroethene	4.00	3.81		ug/L		95	70 - 130
Toluene	4.00	3.38		ug/L		85	70 - 130
trans-1,2-Dichloroethene	4.00	3.49		ug/L		87	70 - 130
trans-1,3-Dichloropropene	4.00	3.23		ug/L		81	70 - 130
Trichloroethene	4.00	3.71		ug/L		93	70 - 130
Trichlorofluoromethane	4.00	4.17		ug/L		104	70 - 130
Vinyl chloride	4.00	4.29		ug/L		107	70 - 130
Xylenes, Total	12.0	10.7		ug/L		89	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichlorobenzene-d4	*100*		*80 - 120*
4-Bromofluorobenzene (Surr)	*84*		*80 - 120*

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37261-2

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Lab Sample ID: MB 200-55414/1-A
Matrix: Water
Analysis Batch: 55420

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 55414

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		05/11/13 08:39	05/13/13 09:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*88*		*70 - 130*	*05/11/13 08:39*	*05/13/13 09:20*	*1*

Lab Sample ID: LCS 200-55414/2-A
Matrix: Water
Analysis Batch: 55420

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 55414

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane			8.00	6.61		ug/L		83	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,4-Dioxane-d8 (Surr)	*82*		*70 - 130*

QC Association Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37261-2

GC/MS VOA

Analysis Batch: 117635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-37261-10	11 Elda Dup	Total/NA	Water	524.2	
480-37261-12	30 Knowles Dup	Total/NA	Water	524.2	
480-37261-14	325 Schoolhouse Inf Dup	Total/NA	Water	524.2	
LCS 480-117635/5	Lab Control Sample	Total/NA	Water	524.2	
MB 480-117635/6	Method Blank	Total/NA	Water	524.2	

GC/MS Semi VOA

Prep Batch: 55362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-37261-10	11 Elda Dup	Total/NA	Water	3535A	
480-37261-12	30 Knowles Dup	Total/NA	Water	3535A	
480-37261-14	325 Schoolhouse Inf Dup	Total/NA	Water	3535A	

Prep Batch: 55414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 200-55414/2-A	Lab Control Sample	Total/NA	Water	3535A	
MB 200-55414/1-A	Method Blank	Total/NA	Water	3535A	

Analysis Batch: 55420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-37261-10	11 Elda Dup	Total/NA	Water	522 MOD	55362
480-37261-12	30 Knowles Dup	Total/NA	Water	522 MOD	55362
480-37261-14	325 Schoolhouse Inf Dup	Total/NA	Water	522 MOD	55362
LCS 200-55414/2-A	Lab Control Sample	Total/NA	Water	522 MOD	55414
MB 200-55414/1-A	Method Blank	Total/NA	Water	522 MOD	55414

Lab Chronicle

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37261-2

Client Sample ID: 11 Elda Dup

Lab Sample ID: 480-37261-10

Date Collected: 04/29/13 14:10

Matrix: Water

Date Received: 04/30/13 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	117635	05/09/13 12:55	CDC	TAL BUF
Total/NA	Prep	3535A			55362	05/10/13 09:02	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55420	05/13/13 12:19	RJH	TAL BUR

Client Sample ID: 30 Knowles Dup

Lab Sample ID: 480-37261-12

Date Collected: 04/29/13 09:30

Matrix: Water

Date Received: 04/30/13 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	117635	05/09/13 13:19	CDC	TAL BUF
Total/NA	Prep	3535A			55362	05/10/13 09:02	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55420	05/13/13 12:35	RJH	TAL BUR

Client Sample ID: 325 Schoolhouse Inf Dup

Lab Sample ID: 480-37261-14

Date Collected: 04/29/13 10:15

Matrix: Water

Date Received: 04/30/13 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	117635	05/09/13 13:44	CDC	TAL BUF
Total/NA	Prep	3535A			55362	05/10/13 09:02	JAB	TAL BUR
Total/NA	Analysis	522 MOD		2	55420	05/13/13 12:51	RJH	TAL BUR

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Certification Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37261-2

Laboratory: TestAmerica Buffalo

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-13
California	NELAP	9	1169CA	09-30-13
Connecticut	State Program	1	PH-0568	09-30-14
Florida	NELAP	4	E87672	06-30-13
Georgia	State Program	4	N/A	03-31-14
Georgia	State Program	4	956	06-30-13
Georgia	State Program	4	956	03-31-14
Illinois	NELAP	5	200003	09-30-13
Iowa	State Program	7	374	03-15-15
Kansas	NELAP	7	E-10187	01-31-14
Kentucky	State Program	4	90029	12-31-13
Kentucky (UST)	State Program	4	30	04-01-14
Louisiana	NELAP	6	02031	06-30-13
Maine	State Program	1	NY00044	12-04-13
Maryland	State Program	3	294	03-31-14
Massachusetts	State Program	1	M-NY044	06-30-13
Michigan	State Program	5	9937	04-01-13 *
Minnesota	NELAP	5	036-999-337	12-31-13
New Hampshire	NELAP	1	2973	09-11-13
New Hampshire	NELAP	1	2337	11-17-13
New Jersey	NELAP	2	NY455	06-30-13
New York	NELAP	2	10026	04-01-14
North Dakota	State Program	8	R-176	03-31-14
Oklahoma	State Program	6	9421	08-31-13
Oregon	NELAP	10	NY200003	06-09-13
Pennsylvania	NELAP	3	68-00281	07-31-13
Rhode Island	State Program	1	LAO00328	12-31-13
Tennessee	State Program	4	TN02970	04-01-14
Texas	NELAP	6	T104704412-11-2	07-31-13
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAP	3	460185	09-14-13
Washington	State Program	10	C784	02-10-14
West Virginia DEP	State Program	3	252	09-30-13
Wisconsin	State Program	5	998310390	08-31-13

Laboratory: TestAmerica Burlington

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Connecticut	State Program	1	PH-0751	09-30-13
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-13-15
Florida	NELAP	4	E87467	06-30-13
L-A-B	DoD ELAP		L2336	10-26-13
Louisiana	NELAP	6	176292	06-30-13
Minnesota	NELAP	5	050-999-436	12-31-13
New Hampshire	NELAP	1	2006	12-18-13
New Jersey	NELAP	2	VT972	06-30-13
New York	NELAP	2	10391	04-01-14
Pennsylvania	NELAP	3	68-00489	04-30-14
USDA	Federal		P330-11-00093	02-17-14

* Expired certification is currently pending renewal and is considered valid.

Certification Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37261-2

Laboratory: TestAmerica Burlington (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Vermont	State Program	1	VT-4000	12-31-13
Virginia	NELAP	3	460209	12-14-13

Method Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37261-2

Method	Method Description	Protocol	Laboratory
524.2	Volatile Organic Compounds (GC/MS)	EPA-DW	TAL BUF
522 MOD	1,4 Dioxane (GC/MS SIM)	EPA	TAL BUR

Protocol References:

EPA = US Environmental Protection Agency

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37261-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-37261-10	11 Elda Dup	Water	04/29/13 14:10	04/30/13 01:15
480-37261-12	30 Knowles Dup	Water	04/29/13 09:30	04/30/13 01:15
480-37261-14	325 Schoolhouse Inf Dup	Water	04/29/13 10:15	04/30/13 01:15

Login Sample Receipt Checklist

Client: Bennett Environmental Associates, Inc.

Job Number: 480-37261-2

Login Number: 37261

List Source: TestAmerica Buffalo

List Number: 1

Creator: Wienke, Robert

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	USEPA
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Bennett Environmental Associates, Inc.

Job Number: 480-37261-2

Login Number: 37261
List Number: 1
Creator: Poucher, Stephanie A

List Source: TestAmerica Burlington
List Creation: 05/01/13 12:53 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	708992, 993
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.6ºC, 1.2ºC IR GUN ID 181. CF 0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.

Login Sample Receipt Checklist

Client: Bennett Environmental Associates, Inc.

Job Number: 480-37261-2

Login Number: 37261
List Number: 2
Creator: Poucher, Stephanie A

List Source: TestAmerica Burlington
List Creation: 05/03/13 12:23 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	709096, 097
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.4ºC, 4.6ºC IR GUN ID 181. CF 0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.

						Sample ID	11 Elda Dup	30 Knowles Dup	325 Schoolhouse Inf Dup
						Sampled By			
						Sample Collection Date	04/29/2013 14:10	04/29/2013 09:30	04/29/2013 10:15
						Laboratory Order Number	480-37261-10	480-37261-12	480-37261-14
Parameter	**Reporting Units**	**GW1**	**GW2**	**RCGW1**	**RCGW2**	**DW MMCL**			
Volatiles by 524.2									
1,1,1,2-Tetrachloroethane	ug/l	5	10	5	10	NA	< 0.50	< 0.50	< 0.50
1,1,1-Trichloroethane	ug/l	200	4000	200	4000	200	< 0.50	< 0.50	< 0.50
1,1,2,2-Tetrachloroethane	ug/l	2	9	2	9	NA	< 0.50	< 0.50	< 0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50
1,1,2-Trichloroethane	ug/l	5	900	5	900	5	< 0.50	< 0.50	< 0.50
1,1-Dichloroethane	ug/l	70	1000	70	1000	NA	0.19J	0.36J	0.37J
1,1-Dichloroethene	ug/l	7	80	7	80	7	< 0.50	< 0.50	< 0.50
1,1-Dichloropropene	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50
1,2,3-Trichlorobenzene	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50
1,2,3-Trichloropropane	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50
1,2,4-Trichlorobenzene	ug/l	70	2000	70	2000	70	< 0.50	< 0.50	< 0.50
1,2,4-Trimethylbenzene	ug/l	NA	NA	10000	100000	NA	< 0.50	< 0.50	< 0.50
1,2-Dibromo-3-Chloropropane	ug/l	NA	NA	100	1000	0.2	**< 0.50**	**< 0.50**	**< 0.50**
1,2-Dibromoethane	ug/l	0.02	2	0.02	2	0.02	**< 0.50**	**< 0.50**	**< 0.50**
1,2-Dichlorobenzene	ug/l	600	2000	600	2000	600	< 0.50	< 0.50	< 0.50
1,2-Dichloroethane	ug/l	5	5	5	5	5	< 0.50	< 0.50	< 0.50
1,2-Dichloropropane	ug/l	5	3	3	3	5	< 0.50	< 0.50	< 0.50
1,3,5-Trimethylbenzene	ug/l	NA	NA	100	1000	NA	< 0.50	< 0.50	< 0.50
1,3-Dichlorobenzene	ug/l	40	2000	40	2000	NA	< 0.50	< 0.50	< 0.50
1,3-Dichloropropane	ug/l	NA	NA	5000	50000	NA	< 0.50	< 0.50	< 0.50
1,4-Dichlorobenzene	ug/l	5	200	5	200	5	< 0.50	< 0.50	< 0.50
2,2-Dichloropropane	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50
2-Butanone (MEK)	ug/l	4000	50000	4000	50000	NA	< 2.5	< 2.5	< 2.5
2-Chlorotoluene	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50
4-Chlorotoluene	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50
4-Isopropyltoluene	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50
4-Methyl-2-pentanone (MIBK)	ug/l	350	50000	350	50000	NA	< 2.5	< 2.5	< 2.5
Acetone	ug/l	6300	50000	6300	50000	NA	< 2.5	< 2.5	< 2.5
Benzene	ug/l	5	2000	5	2000	5	0.18J	0.28J	0.54
Bromobenzene	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50
Bromochloromethane	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50
Bromoform	ug/l	4	700	4	700	NA	< 0.50	< 0.50	< 0.50
Bromomethane	ug/l	10	7	7	7	NA	< 0.50	< 0.50	< 0.50
Carbon tetrachloride	ug/l	5	2	2	2	5	< 0.50	< 0.50	< 0.50
Chlorobenzene	ug/l	100	200	100	200	100	< 0.50	< 0.50	< 0.50
Chlorodibromomethane	ug/l	2	20	2	20	NA	< 0.50	< 0.50	< 0.50
Chloroethane	ug/l	NA	NA	1000	10000	NA	0.30J	0.34J	0.50
Chloroform	ug/l	70	50	50	50	NA	< 0.50	0.18J	< 0.50
Chloromethane	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50
cis-1,2-Dichloroethene	ug/l	70	100	70	100	NA	0.89	1.7	2.1
cis-1,3-Dichloropropene	ug/l	NA	NA	0.5	5	NA	< 0.50	< 0.50	< 0.50
Dibromomethane	ug/l	NA	NA	5000	50000	NA	< 0.50	< 0.50	< 0.50
Dichlorobromomethane	ug/l	3	6	3	6	NA	< 0.50	< 0.50	< 0.50
Dichlorodifluoromethane	ug/l	NA	NA	10000	100000	NA	< 0.50	< 0.50	< 0.50
Ethylbenzene	ug/l	700	20000	700	5000	700	< 0.50	< 0.50	< 0.50
Hexachlorobutadiene	ug/l	0.6	1	0.6	1	NA	< 0.50	< 0.50	< 0.50
Isopropylbenzene	ug/l	NA	NA	10000	100000	NA	< 0.50	< 0.50	< 0.50
Methyl tert-butyl ether	ug/l	70	50000	70	5000	NA	1.2	0.85	1.7
Methylene Chloride	ug/l	5	10000	5	10000	5	< 0.50	< 0.50	< 0.50
m-Xylene & p-Xylene	ug/l	10000	9000	5000	5000	NA	< 1.0	< 1.0	< 1.0
Naphthalene	ug/l	140	1000	140	1000	NA	< 0.50	< 0.50	< 0.50
n-Butylbenzene	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50
N-Propylbenzene	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50
o-Xylene	ug/l	10000	9000	5000	5000	NA	< 0.50	< 0.50	< 0.50
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50
Styrene	ug/l	100	100	100	100	100	< 0.50	< 0.50	< 0.50
t-Butanol	ug/l	NA	NA	NA	NA	NA	7.9J	8.6J	16
tert-Butylbenzene	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50
Tetrachloroethene	ug/l	5	50	5	50	5	< 0.50	< 0.50	< 0.50
Toluene	ug/l	1000	50000	1000	40000	1000	< 0.50	< 0.50	< 0.50
trans-1,2-Dichloroethene	ug/l	100	90	90	90	100	< 0.50	< 0.50	< 0.50
trans-1,3-Dichloropropene	ug/l	NA	NA	0.5	5	NA	< 0.50	< 0.50	< 0.50
Trichloroethene	ug/l	5	30	5	30	5	< 0.50	< 0.50	< 0.50
Trichlorofluoromethane	ug/l	NA	NA	10000	100000	NA	< 0.50	< 0.50	< 0.50
Trihalomethanes, Total	ug/l	NA	NA	NA	NA	NA	< 2.0	< 2.0	< 2.0
Vinyl chloride	ug/l	2	2	2	2	2	0.23J	< 0.50	< 0.50
Xylenes, Total	ug/l	10000	9000	5000	5000	NA	< 1.0	< 1.0	< 1.0
Semivolatiles by 522 MOD									
1,4-Dioxane	ug/l	3	6000	3	6000	NA	**3.3**	**5.2**	**8.3**

Notes:
ug/l - micrograms/liter
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
GW1 - Concentrations based on the use of groundwater as drinking water, either currently or in the foreseeable future.
GW2 - Concentrations based on the potential for volatile material to migrate into indoor air.
GW3 - Concentrations based on the potential environmental effects resulting from contaminated groundwater discharging to surface water.
RC - Risk Characterization approach, Standards may be supplemented or modified with site- and chemical-specific information.
UCL - Upper Concentration Limits in groundwater and soil are promulgated to minimize potential risks associated with uncontrolled environmental contamination, and the costs associated with cumulative anthropogenic

TestAmerica's TotalAccess, is our online data management tool. Features include, a cross-tab view displaying each analyte
as a row across sample columns, an intuitive analyte trending tool, auto-fill search functions and exports data into Excel, while keeping its original format.
Other features include a redesign and simplification in selecting regulatory limits, Work Order and Results page layout redesign, and available data columns in the Results and Budgets pages.
The regulatory comparison tool allows users to compare their analytical data against a number of regulatory compound lists and associated limits.
This feature now encompasses over 786 regulatory lists from 34 States and the U.S. EPA, covering 91,529 individual analyte comparison limits.
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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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TestAmerica Job ID: 480-37444-1
Client Project/Site: Eastham Landfill IRA

For:
Bennett Environmental Associates, Inc.
1573 Main St.
Brewster, Massachusetts 02631

Attn: David Bennett

Authorized for release by:
5/9/2013 11:43:31 AM

Steve Hartmann, Lab Director
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Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37444-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-37444-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-37444-1

Comments
No additional comments.

Receipt
The samples were received on 5/2/2013 1:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 3.2º C and 4.1º C.

GC/MS VOA
Method(s) 524.2: The laboratory control sample (LCS) for batch 116540 recovered outside control limits for the following analyte: Dichlorodifluoromethane. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

No other analytical or quality issues were noted.

GC/MS Semi VOA
Method(s) 522MOD: No analytical or quality issues were noted.

Detection Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37444-1

Client Sample ID: 75 Knowles — Lab Sample ID: 480-37444-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.075	J	0.20	0.041	ug/L	1		522 MOD	Total/NA

Client Sample ID: 20 Duckmarsh — Lab Sample ID: 480-37444-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.63		0.50	0.14	ug/L	1		524.2	Total/NA

Client Sample ID: 5 Eldia — Lab Sample ID: 480-37444-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	0.17	J	0.50	0.12	ug/L	1		524.2	Total/NA

Client Sample ID: Trip Blank 041013 — Lab Sample ID: 480-37444-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.50		0.50	0.25	ug/L	1		524.2	Total/NA

Client Sample ID: 310 Candlewood — Lab Sample ID: 480-37444-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.51		0.50	0.14	ug/L	1		524.2	Total/NA
1,4-Dioxane	0.060	J	0.20	0.041	ug/L	1		522 MOD	Total/NA

Client Sample ID: 3460 State Highway — Lab Sample ID: 480-37444-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.10	J	0.20	0.041	ug/L	1		522 MOD	Total/NA

Client Sample ID: 370 Meetinghouse — Lab Sample ID: 480-37444-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.62		0.50	0.14	ug/L	1		524.2	Total/NA
1,4-Dioxane	0.19	J	0.20	0.041	ug/L	1		522 MOD	Total/NA

Client Sample ID: 20 Sharon Circle — Lab Sample ID: 480-37444-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	0.20	J	0.50	0.12	ug/L	1		524.2	Total/NA
1,4-Dioxane	0.10	J	0.20	0.041	ug/L	1		522 MOD	Total/NA

Client Sample ID: 60 Chipman — Lab Sample ID: 480-37444-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.25	J	0.50	0.14	ug/L	1		524.2	Total/NA
cis-1,2-Dichloroethene	0.39	J	0.50	0.12	ug/L	1		524.2	Total/NA
Dichlorodifluoromethane	0.17	J	0.50	0.070	ug/L	1		524.2	Total/NA
1,4-Dioxane	0.29		0.20	0.041	ug/L	1		522 MOD	Total/NA

Client Sample ID: 50 Surrey — Lab Sample ID: 480-37444-18

This Detection Summary does not include radiochemical test results.

Client Sample ID: 50 Surrey (Continued) — Lab Sample ID: 480-37444-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.31	J	0.50	0.14	ug/L	1		524.2	Total/NA
1,4-Dioxane	0.058	J	0.20	0.041	ug/L	1		522 MOD	Total/NA

Client Sample ID: 10 Cestaro — Lab Sample ID: 480-37444-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.56		0.50	0.14	ug/L	1		524.2	Total/NA
1,4-Dioxane	0.11	J	0.20	0.041	ug/L	1		522 MOD	Total/NA

Client Sample ID: 35 Cestaro — Lab Sample ID: 480-37444-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	0.64	J	2.5	0.25	ug/L	1		524.2	Total/NA

Client Sample ID: 3 Selah — Lab Sample ID: 480-37444-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.71		0.50	0.14	ug/L	1		524.2	Total/NA
1,4-Dioxane	0.072	J	0.20	0.041	ug/L	1		522 MOD	Total/NA

Client Sample ID: 4 Preservation — Lab Sample ID: 480-37444-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.22	J	0.50	0.14	ug/L	1		524.2	Total/NA
cis-1,2-Dichloroethene	0.44	J	0.50	0.12	ug/L	1		524.2	Total/NA
1,4-Dioxane	0.21		0.20	0.041	ug/L	1		522 MOD	Total/NA

Client Sample ID: 15 Deerfield — Lab Sample ID: 480-37444-28

No Detections.

Client Sample ID: 185 Meetinghouse — Lab Sample ID: 480-37444-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.46	J	0.50	0.14	ug/L	1		524.2	Total/NA
1,4-Dioxane	0.081	J	0.20	0.041	ug/L	1		522 MOD	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37444-1

Client Sample ID: 75 Knowles
Date Collected: 04/30/13 09:55
Date Received: 05/02/13 01:45

Lab Sample ID: 480-37444-1
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/03/13 08:47	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/03/13 08:47	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/03/13 08:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/03/13 08:47	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/03/13 08:47	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/03/13 08:47	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/03/13 08:47	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/03/13 08:47	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/03/13 08:47	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/03/13 08:47	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/03/13 08:47	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/03/13 08:47	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/03/13 08:47	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/03/13 08:47	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/03/13 08:47	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/03/13 08:47	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/03/13 08:47	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/03/13 08:47	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/03/13 08:47	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/03/13 08:47	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/03/13 08:47	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/03/13 08:47	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/03/13 08:47	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/03/13 08:47	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/03/13 08:47	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/03/13 08:47	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/03/13 08:47	1
Acetone	ND		2.5	0.54	ug/L			05/03/13 08:47	1
Benzene	ND		0.50	0.13	ug/L			05/03/13 08:47	1
Bromobenzene	ND		0.50	0.13	ug/L			05/03/13 08:47	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/03/13 08:47	1
Bromoform	ND		0.50	0.13	ug/L			05/03/13 08:47	1
Bromomethane	ND		0.50	0.051	ug/L			05/03/13 08:47	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/03/13 08:47	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/03/13 08:47	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/03/13 08:47	1
Chloroethane	ND		0.50	0.070	ug/L			05/03/13 08:47	1
Chloroform	ND		0.50	0.14	ug/L			05/03/13 08:47	1
Chloromethane	ND		0.50	0.063	ug/L			05/03/13 08:47	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/03/13 08:47	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/03/13 08:47	1
Dibromomethane	ND		0.50	0.17	ug/L			05/03/13 08:47	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/03/13 08:47	1
Dichlorodifluoromethane	ND	*	0.50	0.070	ug/L			05/03/13 08:47	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/03/13 08:47	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/03/13 08:47	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/03/13 08:47	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/03/13 08:47	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/03/13 08:47	1

Client Sample ID: 75 Knowles

Lab Sample ID: 480-37444-1

Date Collected: 04/30/13 09:55

Matrix: Water

Date Received: 05/02/13 01:45

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/03/13 08:47	1
Naphthalene	ND		0.50	0.060	ug/L			05/03/13 08:47	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/03/13 08:47	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/03/13 08:47	1
o-Xylene	ND		0.50	0.044	ug/L			05/03/13 08:47	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/03/13 08:47	1
Styrene	ND		0.50	0.044	ug/L			05/03/13 08:47	1
t-Butanol	ND		10	2.5	ug/L			05/03/13 08:47	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/03/13 08:47	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/03/13 08:47	1
Toluene	ND		0.50	0.10	ug/L			05/03/13 08:47	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/03/13 08:47	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/03/13 08:47	1
Trichloroethene	ND		0.50	0.060	ug/L			05/03/13 08:47	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/03/13 08:47	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/03/13 08:47	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/03/13 08:47	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/03/13 08:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*98*		*80 - 120*		*05/03/13 08:47*	*1*
4-Bromofluorobenzene (Surr)	*89*		*80 - 120*		*05/03/13 08:47*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**0.075**	**J**	0.20	0.041	ug/L		05/03/13 08:49	05/03/13 19:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*105*		*70 - 130*	*05/03/13 08:49*	*05/03/13 19:11*	*1*

Client Sample ID: 20 Duckmarsh

Lab Sample ID: 480-37444-3

Date Collected: 04/30/13 10:55

Matrix: Water

Date Received: 05/02/13 01:45

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/03/13 09:36	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/03/13 09:36	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/03/13 09:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/03/13 09:36	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/03/13 09:36	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/03/13 09:36	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/03/13 09:36	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/03/13 09:36	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/03/13 09:36	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/03/13 09:36	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/03/13 09:36	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/03/13 09:36	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/03/13 09:36	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/03/13 09:36	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37444-1

Client Sample ID: 20 Duckmarsh
Date Collected: 04/30/13 10:55
Date Received: 05/02/13 01:45

Lab Sample ID: 480-37444-3
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/03/13 09:36	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/03/13 09:36	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/03/13 09:36	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/03/13 09:36	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/03/13 09:36	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/03/13 09:36	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/03/13 09:36	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/03/13 09:36	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/03/13 09:36	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/03/13 09:36	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/03/13 09:36	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/03/13 09:36	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/03/13 09:36	1
Acetone	ND		2.5	0.54	ug/L			05/03/13 09:36	1
Benzene	ND		0.50	0.13	ug/L			05/03/13 09:36	1
Bromobenzene	ND		0.50	0.13	ug/L			05/03/13 09:36	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/03/13 09:36	1
Bromoform	ND		0.50	0.13	ug/L			05/03/13 09:36	1
Bromomethane	ND		0.50	0.051	ug/L			05/03/13 09:36	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/03/13 09:36	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/03/13 09:36	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/03/13 09:36	1
Chloroethane	ND		0.50	0.070	ug/L			05/03/13 09:36	1
Chloroform	**0.63**		0.50	0.14	ug/L			05/03/13 09:36	1
Chloromethane	ND		0.50	0.063	ug/L			05/03/13 09:36	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/03/13 09:36	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/03/13 09:36	1
Dibromomethane	ND		0.50	0.17	ug/L			05/03/13 09:36	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/03/13 09:36	1
Dichlorodifluoromethane	ND	*	0.50	0.070	ug/L			05/03/13 09:36	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/03/13 09:36	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/03/13 09:36	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/03/13 09:36	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/03/13 09:36	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/03/13 09:36	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/03/13 09:36	1
Naphthalene	ND		0.50	0.060	ug/L			05/03/13 09:36	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/03/13 09:36	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/03/13 09:36	1
o-Xylene	ND		0.50	0.044	ug/L			05/03/13 09:36	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/03/13 09:36	1
Styrene	ND		0.50	0.044	ug/L			05/03/13 09:36	1
t-Butanol	ND		10	2.5	ug/L			05/03/13 09:36	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/03/13 09:36	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/03/13 09:36	1
Toluene	ND		0.50	0.10	ug/L			05/03/13 09:36	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/03/13 09:36	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/03/13 09:36	1
Trichloroethene	ND		0.50	0.060	ug/L			05/03/13 09:36	1

Client Sample ID: 20 Duckmarsh

Lab Sample ID: 480-37444-3

Date Collected: 04/30/13 10:55

Matrix: Water

Date Received: 05/02/13 01:45

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/03/13 09:36	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/03/13 09:36	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/03/13 09:36	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/03/13 09:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*98*		*80 - 120*		*05/03/13 09:36*	*1*
4-Bromofluorobenzene (Surr)	*88*		*80 - 120*		*05/03/13 09:36*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		05/03/13 08:49	05/03/13 19:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*97*		*70 - 130*	*05/03/13 08:49*	*05/03/13 19:27*	*1*

Client Sample ID: 5 Eldia

Lab Sample ID: 480-37444-5

Date Collected: 04/30/13 11:45

Matrix: Water

Date Received: 05/02/13 01:45

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/03/13 13:06	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/03/13 13:06	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/03/13 13:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/03/13 13:06	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/03/13 13:06	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/03/13 13:06	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/03/13 13:06	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/03/13 13:06	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/03/13 13:06	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/03/13 13:06	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/03/13 13:06	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/03/13 13:06	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/03/13 13:06	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/03/13 13:06	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/03/13 13:06	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/03/13 13:06	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/03/13 13:06	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/03/13 13:06	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/03/13 13:06	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/03/13 13:06	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/03/13 13:06	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/03/13 13:06	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/03/13 13:06	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/03/13 13:06	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/03/13 13:06	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/03/13 13:06	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/03/13 13:06	1
Acetone	ND		2.5	0.54	ug/L			05/03/13 13:06	1

Client Sample ID: 5 Eldia
Date Collected: 04/30/13 11:45
Date Received: 05/02/13 01:45

Lab Sample ID: 480-37444-5
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.13	ug/L			05/03/13 13:06	1
Bromobenzene	ND		0.50	0.13	ug/L			05/03/13 13:06	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/03/13 13:06	1
Bromoform	ND		0.50	0.13	ug/L			05/03/13 13:06	1
Bromomethane	ND		0.50	0.051	ug/L			05/03/13 13:06	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/03/13 13:06	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/03/13 13:06	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/03/13 13:06	1
Chloroethane	ND		0.50	0.070	ug/L			05/03/13 13:06	1
Chloroform	ND		0.50	0.14	ug/L			05/03/13 13:06	1
Chloromethane	ND		0.50	0.063	ug/L			05/03/13 13:06	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/03/13 13:06	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/03/13 13:06	1
Dibromomethane	ND		0.50	0.17	ug/L			05/03/13 13:06	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/03/13 13:06	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/03/13 13:06	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/03/13 13:06	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/03/13 13:06	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/03/13 13:06	1
Methyl tert-butyl ether	**0.17**	**J**	0.50	0.12	ug/L			05/03/13 13:06	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/03/13 13:06	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/03/13 13:06	1
Naphthalene	ND		0.50	0.060	ug/L			05/03/13 13:06	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/03/13 13:06	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/03/13 13:06	1
o-Xylene	ND		0.50	0.044	ug/L			05/03/13 13:06	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/03/13 13:06	1
Styrene	ND		0.50	0.044	ug/L			05/03/13 13:06	1
t-Butanol	ND		10	2.5	ug/L			05/03/13 13:06	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/03/13 13:06	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/03/13 13:06	1
Toluene	ND		0.50	0.10	ug/L			05/03/13 13:06	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/03/13 13:06	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/03/13 13:06	1
Trichloroethene	ND		0.50	0.060	ug/L			05/03/13 13:06	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/03/13 13:06	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/03/13 13:06	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/03/13 13:06	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/03/13 13:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*96*		*80 - 120*		*05/03/13 13:06*	*1*
4-Bromofluorobenzene (Surr)	*88*		*80 - 120*		*05/03/13 13:06*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		05/03/13 11:02	05/03/13 20:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*86*		*70 - 130*	*05/03/13 11:02*	*05/03/13 20:32*	*1*

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37444-1

Client Sample ID: Trip Blank 041013
Date Collected: 04/30/13 00:00
Date Received: 05/02/13 01:45

Lab Sample ID: 480-37444-7
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/03/13 13:56	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/03/13 13:56	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/03/13 13:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/03/13 13:56	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/03/13 13:56	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/03/13 13:56	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/03/13 13:56	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/03/13 13:56	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/03/13 13:56	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/03/13 13:56	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/03/13 13:56	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/03/13 13:56	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/03/13 13:56	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/03/13 13:56	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/03/13 13:56	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/03/13 13:56	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/03/13 13:56	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/03/13 13:56	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/03/13 13:56	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/03/13 13:56	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/03/13 13:56	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/03/13 13:56	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/03/13 13:56	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/03/13 13:56	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/03/13 13:56	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/03/13 13:56	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/03/13 13:56	1
Acetone	ND		2.5	0.54	ug/L			05/03/13 13:56	1
Benzene	ND		0.50	0.13	ug/L			05/03/13 13:56	1
Bromobenzene	ND		0.50	0.13	ug/L			05/03/13 13:56	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/03/13 13:56	1
Bromoform	ND		0.50	0.13	ug/L			05/03/13 13:56	1
Bromomethane	ND		0.50	0.051	ug/L			05/03/13 13:56	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/03/13 13:56	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/03/13 13:56	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/03/13 13:56	1
Chloroethane	ND		0.50	0.070	ug/L			05/03/13 13:56	1
Chloroform	ND		0.50	0.14	ug/L			05/03/13 13:56	1
Chloromethane	ND		0.50	0.063	ug/L			05/03/13 13:56	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/03/13 13:56	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/03/13 13:56	1
Dibromomethane	ND		0.50	0.17	ug/L			05/03/13 13:56	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/03/13 13:56	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/03/13 13:56	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/03/13 13:56	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/03/13 13:56	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/03/13 13:56	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/03/13 13:56	1
Methylene Chloride	**0.50**		0.50	0.25	ug/L			05/03/13 13:56	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37444-1

Client Sample ID: Trip Blank 041013

Lab Sample ID: 480-37444-7

Date Collected: 04/30/13 00:00

Matrix: Water

Date Received: 05/02/13 01:45

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/03/13 13:56	1
Naphthalene	ND		0.50	0.060	ug/L			05/03/13 13:56	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/03/13 13:56	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/03/13 13:56	1
o-Xylene	ND		0.50	0.044	ug/L			05/03/13 13:56	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/03/13 13:56	1
Styrene	ND		0.50	0.044	ug/L			05/03/13 13:56	1
t-Butanol	ND		10	2.5	ug/L			05/03/13 13:56	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/03/13 13:56	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/03/13 13:56	1
Toluene	ND		0.50	0.10	ug/L			05/03/13 13:56	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/03/13 13:56	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/03/13 13:56	1
Trichloroethene	ND		0.50	0.060	ug/L			05/03/13 13:56	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/03/13 13:56	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/03/13 13:56	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/03/13 13:56	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/03/13 13:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*99*		*80 - 120*		*05/03/13 13:56*	*1*
4-Bromofluorobenzene (Surr)	*89*		*80 - 120*		*05/03/13 13:56*	*1*

Client Sample ID: 310 Candlewood

Lab Sample ID: 480-37444-8

Date Collected: 04/30/13 13:05

Matrix: Water

Date Received: 05/02/13 01:45

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/03/13 14:21	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/03/13 14:21	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/03/13 14:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/03/13 14:21	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/03/13 14:21	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/03/13 14:21	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/03/13 14:21	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/03/13 14:21	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/03/13 14:21	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/03/13 14:21	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/03/13 14:21	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/03/13 14:21	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/03/13 14:21	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/03/13 14:21	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/03/13 14:21	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/03/13 14:21	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/03/13 14:21	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/03/13 14:21	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/03/13 14:21	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/03/13 14:21	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/03/13 14:21	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37444-1

Client Sample ID: 310 Candlewood
Date Collected: 04/30/13 13:05
Date Received: 05/02/13 01:45

Lab Sample ID: 480-37444-8
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/03/13 14:21	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/03/13 14:21	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/03/13 14:21	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/03/13 14:21	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/03/13 14:21	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/03/13 14:21	1
Acetone	ND		2.5	0.54	ug/L			05/03/13 14:21	1
Benzene	ND		0.50	0.13	ug/L			05/03/13 14:21	1
Bromobenzene	ND		0.50	0.13	ug/L			05/03/13 14:21	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/03/13 14:21	1
Bromoform	ND		0.50	0.13	ug/L			05/03/13 14:21	1
Bromomethane	ND		0.50	0.051	ug/L			05/03/13 14:21	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/03/13 14:21	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/03/13 14:21	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/03/13 14:21	1
Chloroethane	ND		0.50	0.070	ug/L			05/03/13 14:21	1
Chloroform	**0.51**		0.50	0.14	ug/L			05/03/13 14:21	1
Chloromethane	ND		0.50	0.063	ug/L			05/03/13 14:21	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/03/13 14:21	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/03/13 14:21	1
Dibromomethane	ND		0.50	0.17	ug/L			05/03/13 14:21	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/03/13 14:21	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/03/13 14:21	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/03/13 14:21	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/03/13 14:21	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/03/13 14:21	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/03/13 14:21	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/03/13 14:21	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/03/13 14:21	1
Naphthalene	ND		0.50	0.060	ug/L			05/03/13 14:21	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/03/13 14:21	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/03/13 14:21	1
o-Xylene	ND		0.50	0.044	ug/L			05/03/13 14:21	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/03/13 14:21	1
Styrene	ND		0.50	0.044	ug/L			05/03/13 14:21	1
t-Butanol	ND		10	2.5	ug/L			05/03/13 14:21	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/03/13 14:21	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/03/13 14:21	1
Toluene	ND		0.50	0.10	ug/L			05/03/13 14:21	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/03/13 14:21	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/03/13 14:21	1
Trichloroethene	ND		0.50	0.060	ug/L			05/03/13 14:21	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/03/13 14:21	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/03/13 14:21	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/03/13 14:21	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/03/13 14:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*96*		*80 - 120*		*05/03/13 14:21*	*1*
4-Bromofluorobenzene (Surr)	*87*		*80 - 120*		*05/03/13 14:21*	*1*

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37444-1

Client Sample ID: 310 Candlewood

Lab Sample ID: 480-37444-8

Date Collected: 04/30/13 13:05

Matrix: Water

Date Received: 05/02/13 01:45

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.060	J	0.20	0.041	ug/L		05/03/13 11:02	05/03/13 20:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*95*		*70 - 130*	*05/03/13 11:02*	*05/03/13 20:48*	*1*

Client Sample ID: 3460 State Highway

Lab Sample ID: 480-37444-10

Date Collected: 04/30/13 14:20

Matrix: Water

Date Received: 05/02/13 01:45

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/03/13 15:10	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/03/13 15:10	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/03/13 15:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/03/13 15:10	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/03/13 15:10	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/03/13 15:10	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/03/13 15:10	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/03/13 15:10	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/03/13 15:10	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/03/13 15:10	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/03/13 15:10	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/03/13 15:10	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/03/13 15:10	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/03/13 15:10	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/03/13 15:10	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/03/13 15:10	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/03/13 15:10	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/03/13 15:10	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/03/13 15:10	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/03/13 15:10	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/03/13 15:10	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/03/13 15:10	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/03/13 15:10	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/03/13 15:10	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/03/13 15:10	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/03/13 15:10	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/03/13 15:10	1
Acetone	ND		2.5	0.54	ug/L			05/03/13 15:10	1
Benzene	ND		0.50	0.13	ug/L			05/03/13 15:10	1
Bromobenzene	ND		0.50	0.13	ug/L			05/03/13 15:10	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/03/13 15:10	1
Bromoform	ND		0.50	0.13	ug/L			05/03/13 15:10	1
Bromomethane	ND		0.50	0.051	ug/L			05/03/13 15:10	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/03/13 15:10	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/03/13 15:10	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/03/13 15:10	1
Chloroethane	ND		0.50	0.070	ug/L			05/03/13 15:10	1
Chloroform	ND		0.50	0.14	ug/L			05/03/13 15:10	1
Chloromethane	ND		0.50	0.063	ug/L			05/03/13 15:10	1

Client Sample ID: 3460 State Highway

Lab Sample ID: 480-37444-10

Date Collected: 04/30/13 14:20

Matrix: Water

Date Received: 05/02/13 01:45

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/03/13 15:10	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/03/13 15:10	1
Dibromomethane	ND		0.50	0.17	ug/L			05/03/13 15:10	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/03/13 15:10	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/03/13 15:10	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/03/13 15:10	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/03/13 15:10	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/03/13 15:10	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/03/13 15:10	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/03/13 15:10	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/03/13 15:10	1
Naphthalene	ND		0.50	0.060	ug/L			05/03/13 15:10	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/03/13 15:10	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/03/13 15:10	1
o-Xylene	ND		0.50	0.044	ug/L			05/03/13 15:10	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/03/13 15:10	1
Styrene	ND		0.50	0.044	ug/L			05/03/13 15:10	1
t-Butanol	ND		10	2.5	ug/L			05/03/13 15:10	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/03/13 15:10	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/03/13 15:10	1
Toluene	ND		0.50	0.10	ug/L			05/03/13 15:10	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/03/13 15:10	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/03/13 15:10	1
Trichloroethene	ND		0.50	0.060	ug/L			05/03/13 15:10	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/03/13 15:10	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/03/13 15:10	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/03/13 15:10	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/03/13 15:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*101*		*80 - 120*		*05/03/13 15:10*	*1*
4-Bromofluorobenzene (Surr)	*88*		*80 - 120*		*05/03/13 15:10*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**0.10**	**J**	0.20	0.041	ug/L		05/03/13 11:02	05/03/13 21:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*93*		*70 - 130*	*05/03/13 11:02*	*05/03/13 21:04*	*1*

Client Sample ID: 370 Meetinghouse

Lab Sample ID: 480-37444-12

Date Collected: 04/30/13 15:05

Matrix: Water

Date Received: 05/02/13 01:45

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/03/13 16:00	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/03/13 16:00	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/03/13 16:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/03/13 16:00	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37444-1

Client Sample ID: 370 Meetinghouse
Date Collected: 04/30/13 15:05
Date Received: 05/02/13 01:45

Lab Sample ID: 480-37444-12
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/03/13 16:00	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/03/13 16:00	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/03/13 16:00	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/03/13 16:00	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/03/13 16:00	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/03/13 16:00	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/03/13 16:00	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/03/13 16:00	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/03/13 16:00	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/03/13 16:00	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/03/13 16:00	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/03/13 16:00	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/03/13 16:00	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/03/13 16:00	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/03/13 16:00	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/03/13 16:00	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/03/13 16:00	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/03/13 16:00	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/03/13 16:00	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/03/13 16:00	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/03/13 16:00	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/03/13 16:00	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/03/13 16:00	1
Acetone	ND		2.5	0.54	ug/L			05/03/13 16:00	1
Benzene	ND		0.50	0.13	ug/L			05/03/13 16:00	1
Bromobenzene	ND		0.50	0.13	ug/L			05/03/13 16:00	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/03/13 16:00	1
Bromoform	ND		0.50	0.13	ug/L			05/03/13 16:00	1
Bromomethane	ND		0.50	0.051	ug/L			05/03/13 16:00	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/03/13 16:00	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/03/13 16:00	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/03/13 16:00	1
Chloroethane	ND		0.50	0.070	ug/L			05/03/13 16:00	1
Chloroform	**0.62**		0.50	0.14	ug/L			05/03/13 16:00	1
Chloromethane	ND		0.50	0.063	ug/L			05/03/13 16:00	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/03/13 16:00	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/03/13 16:00	1
Dibromomethane	ND		0.50	0.17	ug/L			05/03/13 16:00	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/03/13 16:00	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/03/13 16:00	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/03/13 16:00	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/03/13 16:00	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/03/13 16:00	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/03/13 16:00	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/03/13 16:00	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/03/13 16:00	1
Naphthalene	ND		0.50	0.060	ug/L			05/03/13 16:00	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/03/13 16:00	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/03/13 16:00	1

Client Sample ID: 370 Meetinghouse

Lab Sample ID: 480-37444-12

Date Collected: 04/30/13 15:05

Matrix: Water

Date Received: 05/02/13 01:45

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		0.50	0.044	ug/L			05/03/13 16:00	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/03/13 16:00	1
Styrene	ND		0.50	0.044	ug/L			05/03/13 16:00	1
t-Butanol	ND		10	2.5	ug/L			05/03/13 16:00	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/03/13 16:00	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/03/13 16:00	1
Toluene	ND		0.50	0.10	ug/L			05/03/13 16:00	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/03/13 16:00	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/03/13 16:00	1
Trichloroethene	ND		0.50	0.060	ug/L			05/03/13 16:00	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/03/13 16:00	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/03/13 16:00	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/03/13 16:00	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/03/13 16:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*97*		*80 - 120*		*05/03/13 16:00*	*1*
4-Bromofluorobenzene (Surr)	*89*		*80 - 120*		*05/03/13 16:00*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.19	J	0.20	0.041	ug/L		05/03/13 11:02	05/03/13 21:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*91*		*70 - 130*	*05/03/13 11:02*	*05/03/13 21:20*	*1*

Client Sample ID: 20 Sharon Circle

Lab Sample ID: 480-37444-14

Date Collected: 04/30/13 15:45

Matrix: Water

Date Received: 05/02/13 01:45

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/03/13 16:49	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/03/13 16:49	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/03/13 16:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/03/13 16:49	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/03/13 16:49	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/03/13 16:49	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/03/13 16:49	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/03/13 16:49	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/03/13 16:49	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/03/13 16:49	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/03/13 16:49	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/03/13 16:49	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/03/13 16:49	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/03/13 16:49	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/03/13 16:49	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/03/13 16:49	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/03/13 16:49	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/03/13 16:49	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37444-1

Client Sample ID: 20 Sharon Circle
Date Collected: 04/30/13 15:45
Date Received: 05/02/13 01:45

Lab Sample ID: 480-37444-14
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/03/13 16:49	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/03/13 16:49	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/03/13 16:49	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/03/13 16:49	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/03/13 16:49	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/03/13 16:49	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/03/13 16:49	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/03/13 16:49	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/03/13 16:49	1
Acetone	ND		2.5	0.54	ug/L			05/03/13 16:49	1
Benzene	ND		0.50	0.13	ug/L			05/03/13 16:49	1
Bromobenzene	ND		0.50	0.13	ug/L			05/03/13 16:49	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/03/13 16:49	1
Bromoform	ND		0.50	0.13	ug/L			05/03/13 16:49	1
Bromomethane	ND		0.50	0.051	ug/L			05/03/13 16:49	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/03/13 16:49	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/03/13 16:49	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/03/13 16:49	1
Chloroethane	ND		0.50	0.070	ug/L			05/03/13 16:49	1
Chloroform	ND		0.50	0.14	ug/L			05/03/13 16:49	1
Chloromethane	ND		0.50	0.063	ug/L			05/03/13 16:49	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/03/13 16:49	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/03/13 16:49	1
Dibromomethane	ND		0.50	0.17	ug/L			05/03/13 16:49	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/03/13 16:49	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/03/13 16:49	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/03/13 16:49	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/03/13 16:49	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/03/13 16:49	1
Methyl tert-butyl ether	**0.20**	**J**	0.50	0.12	ug/L			05/03/13 16:49	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/03/13 16:49	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/03/13 16:49	1
Naphthalene	ND		0.50	0.060	ug/L			05/03/13 16:49	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/03/13 16:49	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/03/13 16:49	1
o-Xylene	ND		0.50	0.044	ug/L			05/03/13 16:49	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/03/13 16:49	1
Styrene	ND		0.50	0.044	ug/L			05/03/13 16:49	1
t-Butanol	ND		10	2.5	ug/L			05/03/13 16:49	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/03/13 16:49	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/03/13 16:49	1
Toluene	ND		0.50	0.10	ug/L			05/03/13 16:49	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/03/13 16:49	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/03/13 16:49	1
Trichloroethene	ND		0.50	0.060	ug/L			05/03/13 16:49	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/03/13 16:49	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/03/13 16:49	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/03/13 16:49	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/03/13 16:49	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37444-1

Client Sample ID: 20 Sharon Circle

Lab Sample ID: 480-37444-14

Date Collected: 04/30/13 15:45
Matrix: Water
Date Received: 05/02/13 01:45

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	96		80 - 120		05/03/13 16:49	1
4-Bromofluorobenzene (Surr)	89		80 - 120		05/03/13 16:49	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.10	J	0.20	0.041	ug/L		05/03/13 11:02	05/03/13 21:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	88		70 - 130	05/03/13 11:02	05/03/13 21:36	1

Client Sample ID: 60 Chipman

Lab Sample ID: 480-37444-16

Date Collected: 04/30/13 09:15
Matrix: Water
Date Received: 05/02/13 01:45

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/03/13 17:39	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/03/13 17:39	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/03/13 17:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/03/13 17:39	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/03/13 17:39	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/03/13 17:39	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/03/13 17:39	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/03/13 17:39	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/03/13 17:39	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/03/13 17:39	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/03/13 17:39	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/03/13 17:39	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/03/13 17:39	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/03/13 17:39	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/03/13 17:39	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/03/13 17:39	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/03/13 17:39	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/03/13 17:39	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/03/13 17:39	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/03/13 17:39	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/03/13 17:39	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/03/13 17:39	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/03/13 17:39	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/03/13 17:39	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/03/13 17:39	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/03/13 17:39	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/03/13 17:39	1
Acetone	ND		2.5	0.54	ug/L			05/03/13 17:39	1
Benzene	ND		0.50	0.13	ug/L			05/03/13 17:39	1
Bromobenzene	ND		0.50	0.13	ug/L			05/03/13 17:39	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/03/13 17:39	1
Bromoform	ND		0.50	0.13	ug/L			05/03/13 17:39	1
Bromomethane	ND		0.50	0.051	ug/L			05/03/13 17:39	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/03/13 17:39	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/03/13 17:39	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37444-1

Client Sample ID: 60 Chipman
Date Collected: 04/30/13 09:15
Date Received: 05/02/13 01:45

Lab Sample ID: 480-37444-16
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/03/13 17:39	1
Chloroethane	ND		0.50	0.070	ug/L			05/03/13 17:39	1
Chloroform	**0.25**	**J**	0.50	0.14	ug/L			05/03/13 17:39	1
Chloromethane	ND		0.50	0.063	ug/L			05/03/13 17:39	1
cis-1,2-Dichloroethene	**0.39**	**J**	0.50	0.12	ug/L			05/03/13 17:39	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/03/13 17:39	1
Dibromomethane	ND		0.50	0.17	ug/L			05/03/13 17:39	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/03/13 17:39	1
Dichlorodifluoromethane	**0.17**	**J**	0.50	0.070	ug/L			05/03/13 17:39	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/03/13 17:39	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/03/13 17:39	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/03/13 17:39	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/03/13 17:39	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/03/13 17:39	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/03/13 17:39	1
Naphthalene	ND		0.50	0.060	ug/L			05/03/13 17:39	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/03/13 17:39	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/03/13 17:39	1
o-Xylene	ND		0.50	0.044	ug/L			05/03/13 17:39	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/03/13 17:39	1
Styrene	ND		0.50	0.044	ug/L			05/03/13 17:39	1
t-Butanol	ND		10	2.5	ug/L			05/03/13 17:39	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/03/13 17:39	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/03/13 17:39	1
Toluene	ND		0.50	0.10	ug/L			05/03/13 17:39	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/03/13 17:39	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/03/13 17:39	1
Trichloroethene	ND		0.50	0.060	ug/L			05/03/13 17:39	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/03/13 17:39	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/03/13 17:39	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/03/13 17:39	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/03/13 17:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*98*		*80 - 120*		*05/03/13 17:39*	*1*
4-Bromofluorobenzene (Surr)	*89*		*80 - 120*		*05/03/13 17:39*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**0.29**		0.20	0.041	ug/L		05/03/13 11:02	05/03/13 21:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*94*		*70 - 130*	*05/03/13 11:02*	*05/03/13 21:53*	*1*

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37444-1

Client Sample ID: 50 Surrey
Date Collected: 04/30/13 10:00
Date Received: 05/02/13 01:45

Lab Sample ID: 480-37444-18
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/03/13 18:28	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/03/13 18:28	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/03/13 18:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/03/13 18:28	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/03/13 18:28	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/03/13 18:28	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/03/13 18:28	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/03/13 18:28	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/03/13 18:28	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/03/13 18:28	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/03/13 18:28	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/03/13 18:28	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/03/13 18:28	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/03/13 18:28	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/03/13 18:28	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/03/13 18:28	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/03/13 18:28	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/03/13 18:28	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/03/13 18:28	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/03/13 18:28	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/03/13 18:28	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/03/13 18:28	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/03/13 18:28	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/03/13 18:28	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/03/13 18:28	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/03/13 18:28	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/03/13 18:28	1
Acetone	ND		2.5	0.54	ug/L			05/03/13 18:28	1
Benzene	ND		0.50	0.13	ug/L			05/03/13 18:28	1
Bromobenzene	ND		0.50	0.13	ug/L			05/03/13 18:28	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/03/13 18:28	1
Bromoform	ND		0.50	0.13	ug/L			05/03/13 18:28	1
Bromomethane	ND		0.50	0.051	ug/L			05/03/13 18:28	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/03/13 18:28	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/03/13 18:28	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/03/13 18:28	1
Chloroethane	ND		0.50	0.070	ug/L			05/03/13 18:28	1
Chloroform	**0.31**	**J**	0.50	0.14	ug/L			05/03/13 18:28	1
Chloromethane	ND		0.50	0.063	ug/L			05/03/13 18:28	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/03/13 18:28	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/03/13 18:28	1
Dibromomethane	ND		0.50	0.17	ug/L			05/03/13 18:28	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/03/13 18:28	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/03/13 18:28	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/03/13 18:28	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/03/13 18:28	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/03/13 18:28	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/03/13 18:28	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/03/13 18:28	1

Client Sample ID: 50 Surrey
Date Collected: 04/30/13 10:00
Date Received: 05/02/13 01:45

Lab Sample ID: 480-37444-18
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/03/13 18:28	1
Naphthalene	ND		0.50	0.060	ug/L			05/03/13 18:28	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/03/13 18:28	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/03/13 18:28	1
o-Xylene	ND		0.50	0.044	ug/L			05/03/13 18:28	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/03/13 18:28	1
Styrene	ND		0.50	0.044	ug/L			05/03/13 18:28	1
t-Butanol	ND		10	2.5	ug/L			05/03/13 18:28	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/03/13 18:28	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/03/13 18:28	1
Toluene	ND		0.50	0.10	ug/L			05/03/13 18:28	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/03/13 18:28	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/03/13 18:28	1
Trichloroethene	ND		0.50	0.060	ug/L			05/03/13 18:28	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/03/13 18:28	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/03/13 18:28	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/03/13 18:28	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/03/13 18:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*97*		*80 - 120*		*05/03/13 18:28*	*1*
4-Bromofluorobenzene (Surr)	*87*		*80 - 120*		*05/03/13 18:28*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**0.058**	**J**	0.20	0.041	ug/L		05/03/13 11:02	05/03/13 22:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*93*		*70 - 130*	*05/03/13 11:02*	*05/03/13 22:09*	*1*

Client Sample ID: 10 Cestaro
Date Collected: 04/30/13 10:55
Date Received: 05/02/13 01:45

Lab Sample ID: 480-37444-20
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/03/13 19:18	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/03/13 19:18	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/03/13 19:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/03/13 19:18	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/03/13 19:18	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/03/13 19:18	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/03/13 19:18	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/03/13 19:18	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/03/13 19:18	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/03/13 19:18	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/03/13 19:18	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/03/13 19:18	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/03/13 19:18	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/03/13 19:18	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37444-1

Client Sample ID: 10 Cestaro
Date Collected: 04/30/13 10:55
Date Received: 05/02/13 01:45

Lab Sample ID: 480-37444-20
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/03/13 19:18	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/03/13 19:18	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/03/13 19:18	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/03/13 19:18	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/03/13 19:18	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/03/13 19:18	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/03/13 19:18	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/03/13 19:18	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/03/13 19:18	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/03/13 19:18	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/03/13 19:18	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/03/13 19:18	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/03/13 19:18	1
Acetone	ND		2.5	0.54	ug/L			05/03/13 19:18	1
Benzene	ND		0.50	0.13	ug/L			05/03/13 19:18	1
Bromobenzene	ND		0.50	0.13	ug/L			05/03/13 19:18	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/03/13 19:18	1
Bromoform	ND		0.50	0.13	ug/L			05/03/13 19:18	1
Bromomethane	ND		0.50	0.051	ug/L			05/03/13 19:18	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/03/13 19:18	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/03/13 19:18	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/03/13 19:18	1
Chloroethane	ND		0.50	0.070	ug/L			05/03/13 19:18	1
Chloroform	**0.56**		0.50	0.14	ug/L			05/03/13 19:18	1
Chloromethane	ND		0.50	0.063	ug/L			05/03/13 19:18	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/03/13 19:18	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/03/13 19:18	1
Dibromomethane	ND		0.50	0.17	ug/L			05/03/13 19:18	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/03/13 19:18	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/03/13 19:18	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/03/13 19:18	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/03/13 19:18	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/03/13 19:18	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/03/13 19:18	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/03/13 19:18	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/03/13 19:18	1
Naphthalene	ND		0.50	0.060	ug/L			05/03/13 19:18	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/03/13 19:18	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/03/13 19:18	1
o-Xylene	ND		0.50	0.044	ug/L			05/03/13 19:18	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/03/13 19:18	1
Styrene	ND		0.50	0.044	ug/L			05/03/13 19:18	1
t-Butanol	ND		10	2.5	ug/L			05/03/13 19:18	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/03/13 19:18	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/03/13 19:18	1
Toluene	ND		0.50	0.10	ug/L			05/03/13 19:18	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/03/13 19:18	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/03/13 19:18	1
Trichloroethene	ND		0.50	0.060	ug/L			05/03/13 19:18	1

Client Sample ID: 10 Cestaro

Lab Sample ID: 480-37444-20

Date Collected: 04/30/13 10:55

Matrix: Water

Date Received: 05/02/13 01:45

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/03/13 19:18	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/03/13 19:18	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/03/13 19:18	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/03/13 19:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*98*		*80 - 120*		*05/03/13 19:18*	*1*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*		*05/03/13 19:18*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**0.11**	**J**	0.20	0.041	ug/L		05/03/13 11:02	05/03/13 22:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*96*		*70 - 130*	*05/03/13 11:02*	*05/03/13 22:25*	*1*

Client Sample ID: 35 Cestaro

Lab Sample ID: 480-37444-22

Date Collected: 04/30/13 11:35

Matrix: Water

Date Received: 05/02/13 01:45

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/03/13 20:07	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/03/13 20:07	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/03/13 20:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/03/13 20:07	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/03/13 20:07	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/03/13 20:07	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/03/13 20:07	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/03/13 20:07	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/03/13 20:07	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/03/13 20:07	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/03/13 20:07	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/03/13 20:07	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/03/13 20:07	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/03/13 20:07	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/03/13 20:07	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/03/13 20:07	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/03/13 20:07	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/03/13 20:07	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/03/13 20:07	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/03/13 20:07	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/03/13 20:07	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/03/13 20:07	1
2-Butanone (MEK)	**0.64**	**J**	2.5	0.25	ug/L			05/03/13 20:07	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/03/13 20:07	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/03/13 20:07	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/03/13 20:07	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/03/13 20:07	1
Acetone	ND		2.5	0.54	ug/L			05/03/13 20:07	1

Client Sample ID: 35 Cestaro
Date Collected: 04/30/13 11:35
Date Received: 05/02/13 01:45

Lab Sample ID: 480-37444-22
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.13	ug/L			05/03/13 20:07	1
Bromobenzene	ND		0.50	0.13	ug/L			05/03/13 20:07	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/03/13 20:07	1
Bromoform	ND		0.50	0.13	ug/L			05/03/13 20:07	1
Bromomethane	ND		0.50	0.051	ug/L			05/03/13 20:07	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/03/13 20:07	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/03/13 20:07	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/03/13 20:07	1
Chloroethane	ND		0.50	0.070	ug/L			05/03/13 20:07	1
Chloroform	ND		0.50	0.14	ug/L			05/03/13 20:07	1
Chloromethane	ND		0.50	0.063	ug/L			05/03/13 20:07	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/03/13 20:07	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/03/13 20:07	1
Dibromomethane	ND		0.50	0.17	ug/L			05/03/13 20:07	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/03/13 20:07	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/03/13 20:07	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/03/13 20:07	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/03/13 20:07	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/03/13 20:07	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/03/13 20:07	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/03/13 20:07	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/03/13 20:07	1
Naphthalene	ND		0.50	0.060	ug/L			05/03/13 20:07	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/03/13 20:07	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/03/13 20:07	1
o-Xylene	ND		0.50	0.044	ug/L			05/03/13 20:07	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/03/13 20:07	1
Styrene	ND		0.50	0.044	ug/L			05/03/13 20:07	1
t-Butanol	ND		10	2.5	ug/L			05/03/13 20:07	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/03/13 20:07	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/03/13 20:07	1
Toluene	ND		0.50	0.10	ug/L			05/03/13 20:07	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/03/13 20:07	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/03/13 20:07	1
Trichloroethene	ND		0.50	0.060	ug/L			05/03/13 20:07	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/03/13 20:07	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/03/13 20:07	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/03/13 20:07	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/03/13 20:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*96*		*80 - 120*		*05/03/13 20:07*	*1*
4-Bromofluorobenzene (Surr)	*88*		*80 - 120*		*05/03/13 20:07*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		05/03/13 11:02	05/03/13 22:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*93*		*70 - 130*	*05/03/13 11:02*	*05/03/13 22:57*	*1*

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37444-1

Client Sample ID: 3 Selah
Date Collected: 04/30/13 12:20
Date Received: 05/02/13 01:45

Lab Sample ID: 480-37444-24
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/07/13 22:32	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/07/13 22:32	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/07/13 22:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/07/13 22:32	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/07/13 22:32	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/07/13 22:32	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/07/13 22:32	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/07/13 22:32	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/07/13 22:32	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/07/13 22:32	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/07/13 22:32	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/07/13 22:32	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/07/13 22:32	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/07/13 22:32	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/07/13 22:32	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/07/13 22:32	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/07/13 22:32	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/07/13 22:32	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/07/13 22:32	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/07/13 22:32	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/07/13 22:32	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/07/13 22:32	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/07/13 22:32	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/07/13 22:32	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/07/13 22:32	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/07/13 22:32	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/07/13 22:32	1
Acetone	ND		2.5	0.54	ug/L			05/07/13 22:32	1
Benzene	ND		0.50	0.13	ug/L			05/07/13 22:32	1
Bromobenzene	ND		0.50	0.13	ug/L			05/07/13 22:32	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/07/13 22:32	1
Bromoform	ND		0.50	0.13	ug/L			05/07/13 22:32	1
Bromomethane	ND		0.50	0.051	ug/L			05/07/13 22:32	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/07/13 22:32	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/07/13 22:32	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/07/13 22:32	1
Chloroethane	ND		0.50	0.070	ug/L			05/07/13 22:32	1
Chloroform	**0.71**		0.50	0.14	ug/L			05/07/13 22:32	1
Chloromethane	ND		0.50	0.063	ug/L			05/07/13 22:32	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/07/13 22:32	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/07/13 22:32	1
Dibromomethane	ND		0.50	0.17	ug/L			05/07/13 22:32	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/07/13 22:32	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/07/13 22:32	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/07/13 22:32	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/07/13 22:32	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/07/13 22:32	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/07/13 22:32	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/07/13 22:32	1

Client Sample ID: 3 Selah
Date Collected: 04/30/13 12:20
Date Received: 05/02/13 01:45

Lab Sample ID: 480-37444-24
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/07/13 22:32	1
Naphthalene	ND		0.50	0.060	ug/L			05/07/13 22:32	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/07/13 22:32	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/07/13 22:32	1
o-Xylene	ND		0.50	0.044	ug/L			05/07/13 22:32	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/07/13 22:32	1
Styrene	ND		0.50	0.044	ug/L			05/07/13 22:32	1
t-Butanol	ND		10	2.5	ug/L			05/07/13 22:32	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/07/13 22:32	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/07/13 22:32	1
Toluene	ND		0.50	0.10	ug/L			05/07/13 22:32	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/07/13 22:32	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/07/13 22:32	1
Trichloroethene	ND		0.50	0.060	ug/L			05/07/13 22:32	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/07/13 22:32	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/07/13 22:32	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/07/13 22:32	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/07/13 22:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*102*		*80 - 120*		*05/07/13 22:32*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*05/07/13 22:32*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**0.072**	**J**	0.20	0.041	ug/L		05/03/13 11:02	05/03/13 23:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*103*		*70 - 130*	*05/03/13 11:02*	*05/03/13 23:13*	*1*

Client Sample ID: 4 Preservation
Date Collected: 04/30/13 14:25
Date Received: 05/02/13 01:45

Lab Sample ID: 480-37444-26
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/07/13 23:21	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/07/13 23:21	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/07/13 23:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/07/13 23:21	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/07/13 23:21	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/07/13 23:21	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/07/13 23:21	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/07/13 23:21	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/07/13 23:21	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/07/13 23:21	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/07/13 23:21	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/07/13 23:21	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/07/13 23:21	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/07/13 23:21	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37444-1

Client Sample ID: 4 Preservation
Date Collected: 04/30/13 14:25
Date Received: 05/02/13 01:45

Lab Sample ID: 480-37444-26
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/07/13 23:21	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/07/13 23:21	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/07/13 23:21	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/07/13 23:21	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/07/13 23:21	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/07/13 23:21	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/07/13 23:21	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/07/13 23:21	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/07/13 23:21	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/07/13 23:21	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/07/13 23:21	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/07/13 23:21	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/07/13 23:21	1
Acetone	ND		2.5	0.54	ug/L			05/07/13 23:21	1
Benzene	ND		0.50	0.13	ug/L			05/07/13 23:21	1
Bromobenzene	ND		0.50	0.13	ug/L			05/07/13 23:21	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/07/13 23:21	1
Bromoform	ND		0.50	0.13	ug/L			05/07/13 23:21	1
Bromomethane	ND		0.50	0.051	ug/L			05/07/13 23:21	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/07/13 23:21	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/07/13 23:21	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/07/13 23:21	1
Chloroethane	ND		0.50	0.070	ug/L			05/07/13 23:21	1
Chloroform	**0.22**	**J**	0.50	0.14	ug/L			05/07/13 23:21	1
Chloromethane	ND		0.50	0.063	ug/L			05/07/13 23:21	1
cis-1,2-Dichloroethene	**0.44**	**J**	0.50	0.12	ug/L			05/07/13 23:21	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/07/13 23:21	1
Dibromomethane	ND		0.50	0.17	ug/L			05/07/13 23:21	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/07/13 23:21	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/07/13 23:21	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/07/13 23:21	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/07/13 23:21	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/07/13 23:21	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/07/13 23:21	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/07/13 23:21	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/07/13 23:21	1
Naphthalene	ND		0.50	0.060	ug/L			05/07/13 23:21	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/07/13 23:21	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/07/13 23:21	1
o-Xylene	ND		0.50	0.044	ug/L			05/07/13 23:21	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/07/13 23:21	1
Styrene	ND		0.50	0.044	ug/L			05/07/13 23:21	1
t-Butanol	ND		10	2.5	ug/L			05/07/13 23:21	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/07/13 23:21	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/07/13 23:21	1
Toluene	ND		0.50	0.10	ug/L			05/07/13 23:21	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/07/13 23:21	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/07/13 23:21	1
Trichloroethene	ND		0.50	0.060	ug/L			05/07/13 23:21	1

Client Sample ID: 4 Preservation

Lab Sample ID: 480-37444-26

Date Collected: 04/30/13 14:25

Matrix: Water

Date Received: 05/02/13 01:45

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/07/13 23:21	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/07/13 23:21	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/07/13 23:21	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/07/13 23:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*101*		*80 - 120*		*05/07/13 23:21*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*05/07/13 23:21*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**0.21**		0.20	0.041	ug/L		05/03/13 11:02	05/03/13 23:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*104*		*70 - 130*	*05/03/13 11:02*	*05/03/13 23:29*	*1*

Client Sample ID: 15 Deerfield

Lab Sample ID: 480-37444-28

Date Collected: 04/30/13 15:15

Matrix: Water

Date Received: 05/02/13 01:45

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/08/13 00:11	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/08/13 00:11	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/08/13 00:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/08/13 00:11	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/08/13 00:11	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/08/13 00:11	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/08/13 00:11	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/08/13 00:11	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/08/13 00:11	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/08/13 00:11	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/08/13 00:11	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/08/13 00:11	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/08/13 00:11	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/08/13 00:11	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/08/13 00:11	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/08/13 00:11	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/08/13 00:11	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/08/13 00:11	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/08/13 00:11	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/08/13 00:11	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/08/13 00:11	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/08/13 00:11	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/08/13 00:11	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/08/13 00:11	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/08/13 00:11	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/08/13 00:11	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/08/13 00:11	1
Acetone	ND		2.5	0.54	ug/L			05/08/13 00:11	1

Client Sample ID: 15 Deerfield
Date Collected: 04/30/13 15:15
Date Received: 05/02/13 01:45

Lab Sample ID: 480-37444-28
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.13	ug/L			05/08/13 00:11	1
Bromobenzene	ND		0.50	0.13	ug/L			05/08/13 00:11	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/08/13 00:11	1
Bromoform	ND		0.50	0.13	ug/L			05/08/13 00:11	1
Bromomethane	ND		0.50	0.051	ug/L			05/08/13 00:11	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/08/13 00:11	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/08/13 00:11	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/08/13 00:11	1
Chloroethane	ND		0.50	0.070	ug/L			05/08/13 00:11	1
Chloroform	ND		0.50	0.14	ug/L			05/08/13 00:11	1
Chloromethane	ND		0.50	0.063	ug/L			05/08/13 00:11	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/08/13 00:11	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/08/13 00:11	1
Dibromomethane	ND		0.50	0.17	ug/L			05/08/13 00:11	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/08/13 00:11	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/08/13 00:11	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/08/13 00:11	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/08/13 00:11	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/08/13 00:11	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/08/13 00:11	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/08/13 00:11	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/08/13 00:11	1
Naphthalene	ND		0.50	0.060	ug/L			05/08/13 00:11	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/08/13 00:11	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/08/13 00:11	1
o-Xylene	ND		0.50	0.044	ug/L			05/08/13 00:11	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/08/13 00:11	1
Styrene	ND		0.50	0.044	ug/L			05/08/13 00:11	1
t-Butanol	ND		10	2.5	ug/L			05/08/13 00:11	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/08/13 00:11	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/08/13 00:11	1
Toluene	ND		0.50	0.10	ug/L			05/08/13 00:11	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/08/13 00:11	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/08/13 00:11	1
Trichloroethene	ND		0.50	0.060	ug/L			05/08/13 00:11	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/08/13 00:11	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/08/13 00:11	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/08/13 00:11	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/08/13 00:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*102*		*80 - 120*		*05/08/13 00:11*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*05/08/13 00:11*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		05/03/13 11:02	05/03/13 23:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*98*		*70 - 130*	*05/03/13 11:02*	*05/03/13 23:46*	*1*

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37444-1

Client Sample ID: 185 Meetinghouse
Date Collected: 04/30/13 16:15
Date Received: 05/02/13 01:45

Lab Sample ID: 480-37444-30
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/08/13 01:00	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/08/13 01:00	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/08/13 01:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/08/13 01:00	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/08/13 01:00	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/08/13 01:00	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/08/13 01:00	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/08/13 01:00	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/08/13 01:00	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/08/13 01:00	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/08/13 01:00	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/08/13 01:00	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/08/13 01:00	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/08/13 01:00	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/08/13 01:00	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/08/13 01:00	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/08/13 01:00	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/08/13 01:00	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/08/13 01:00	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/08/13 01:00	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/08/13 01:00	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/08/13 01:00	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/08/13 01:00	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/08/13 01:00	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/08/13 01:00	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/08/13 01:00	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/08/13 01:00	1
Acetone	ND		2.5	0.54	ug/L			05/08/13 01:00	1
Benzene	ND		0.50	0.13	ug/L			05/08/13 01:00	1
Bromobenzene	ND		0.50	0.13	ug/L			05/08/13 01:00	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/08/13 01:00	1
Bromoform	ND		0.50	0.13	ug/L			05/08/13 01:00	1
Bromomethane	ND		0.50	0.051	ug/L			05/08/13 01:00	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/08/13 01:00	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/08/13 01:00	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/08/13 01:00	1
Chloroethane	ND		0.50	0.070	ug/L			05/08/13 01:00	1
Chloroform	**0.46**	**J**	0.50	0.14	ug/L			05/08/13 01:00	1
Chloromethane	ND		0.50	0.063	ug/L			05/08/13 01:00	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/08/13 01:00	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/08/13 01:00	1
Dibromomethane	ND		0.50	0.17	ug/L			05/08/13 01:00	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/08/13 01:00	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/08/13 01:00	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/08/13 01:00	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/08/13 01:00	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/08/13 01:00	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/08/13 01:00	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/08/13 01:00	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37444-1

Client Sample ID: 185 Meetinghouse
Date Collected: 04/30/13 16:15
Date Received: 05/02/13 01:45

Lab Sample ID: 480-37444-30
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/08/13 01:00	1
Naphthalene	ND		0.50	0.060	ug/L			05/08/13 01:00	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/08/13 01:00	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/08/13 01:00	1
o-Xylene	ND		0.50	0.044	ug/L			05/08/13 01:00	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/08/13 01:00	1
Styrene	ND		0.50	0.044	ug/L			05/08/13 01:00	1
t-Butanol	ND		10	2.5	ug/L			05/08/13 01:00	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/08/13 01:00	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/08/13 01:00	1
Toluene	ND		0.50	0.10	ug/L			05/08/13 01:00	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/08/13 01:00	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/08/13 01:00	1
Trichloroethene	ND		0.50	0.060	ug/L			05/08/13 01:00	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/08/13 01:00	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/08/13 01:00	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/08/13 01:00	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/08/13 01:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*102*		*80 - 120*		*05/08/13 01:00*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*05/08/13 01:00*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**0.081**	**J**	0.20	0.041	ug/L		05/03/13 11:02	05/04/13 00:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*107*		*70 - 130*	*05/03/13 11:02*	*05/04/13 00:02*	*1*

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
		12DCB	BFB						
Lab Sample ID	Client Sample ID	(80-120)	(80-120)						
480-37444-1	75 Knowles	98	89						
480-37444-3	20 Duckmarsh	98	88						
480-37444-5	5 Eldia	96	88						
480-37444-7	Trip Blank 041013	99	89						
480-37444-8	310 Candlewood	96	87						
480-37444-10	3460 State Highway	101	88						
480-37444-12	370 Meetinghouse	97	89						
480-37444-14	20 Sharon Circle	96	89						
480-37444-16	60 Chipman	98	89						
480-37444-18	50 Surrey	97	87						
480-37444-20	10 Cestaro	98	90						
480-37444-22	35 Cestaro	96	88						
480-37444-24	3 Selah	102	99						
480-37444-26	4 Preservation	101	95						
480-37444-28	15 Deerfield	102	97						
480-37444-30	185 Meetinghouse	102	96						
LCS 480-116540/5	Lab Control Sample	97	90						
LCS 480-116645/5	Lab Control Sample	100	90						
LCS 480-117270/5	Lab Control Sample	101	98						
MB 480-116540/6	Method Blank	97	91						
MB 480-116645/6	Method Blank	98	87						
MB 480-117270/6	Method Blank	101	98						

Surrogate Legend

12DCB = 1,2-Dichlorobenzene-d4

BFB = 4-Bromofluorobenzene (Surr)

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
		14DD8							
Lab Sample ID	Client Sample ID	(70-130)							
480-37444-1	75 Knowles	105							
480-37444-3	20 Duckmarsh	97							
480-37444-5	5 Eldia	86							
480-37444-8	310 Candlewood	95							
480-37444-10	3460 State Highway	93							
480-37444-12	370 Meetinghouse	91							
480-37444-14	20 Sharon Circle	88							
480-37444-16	60 Chipman	94							
480-37444-18	50 Surrey	93							
480-37444-20	10 Cestaro	96							
480-37444-22	35 Cestaro	93							
480-37444-24	3 Selah	103							
480-37444-26	4 Preservation	104							
480-37444-28	15 Deerfield	98							
480-37444-30	185 Meetinghouse	107							
LCS 200-55093/2-A	Lab Control Sample	93							

Surrogate Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37444-1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM) (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)								
Lab Sample ID	Client Sample ID	14DD8 (70-130)								
LCS 200-55107/2-A	Lab Control Sample	94								
MB 200-55093/1-A	Method Blank	94								
MB 200-55107/1-A	Method Blank	91								

Surrogate Legend

14DD8 = 1,4-Dioxane-d8 (Surr)

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-116540/6
Matrix: Water
Analysis Batch: 116540

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/03/13 01:15	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/03/13 01:15	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/03/13 01:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/03/13 01:15	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/03/13 01:15	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/03/13 01:15	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/03/13 01:15	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/03/13 01:15	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/03/13 01:15	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/03/13 01:15	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/03/13 01:15	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/03/13 01:15	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/03/13 01:15	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/03/13 01:15	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/03/13 01:15	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/03/13 01:15	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/03/13 01:15	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/03/13 01:15	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/03/13 01:15	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/03/13 01:15	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/03/13 01:15	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/03/13 01:15	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/03/13 01:15	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/03/13 01:15	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/03/13 01:15	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/03/13 01:15	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/03/13 01:15	1
Acetone	ND		2.5	0.54	ug/L			05/03/13 01:15	1
Benzene	ND		0.50	0.13	ug/L			05/03/13 01:15	1
Bromobenzene	ND		0.50	0.13	ug/L			05/03/13 01:15	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/03/13 01:15	1
Bromoform	ND		0.50	0.13	ug/L			05/03/13 01:15	1
Bromomethane	ND		0.50	0.051	ug/L			05/03/13 01:15	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/03/13 01:15	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/03/13 01:15	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/03/13 01:15	1
Chloroethane	ND		0.50	0.070	ug/L			05/03/13 01:15	1
Chloroform	ND		0.50	0.14	ug/L			05/03/13 01:15	1
Chloromethane	ND		0.50	0.063	ug/L			05/03/13 01:15	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/03/13 01:15	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/03/13 01:15	1
Dibromomethane	ND		0.50	0.17	ug/L			05/03/13 01:15	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/03/13 01:15	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/03/13 01:15	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/03/13 01:15	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/03/13 01:15	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/03/13 01:15	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/03/13 01:15	1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-116540/6
Matrix: Water
Analysis Batch: 116540

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		0.50	0.25	ug/L			05/03/13 01:15	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/03/13 01:15	1
Naphthalene	ND		0.50	0.060	ug/L			05/03/13 01:15	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/03/13 01:15	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/03/13 01:15	1
o-Xylene	ND		0.50	0.044	ug/L			05/03/13 01:15	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/03/13 01:15	1
Styrene	ND		0.50	0.044	ug/L			05/03/13 01:15	1
t-Butanol	ND		10	2.5	ug/L			05/03/13 01:15	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/03/13 01:15	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/03/13 01:15	1
Toluene	ND		0.50	0.10	ug/L			05/03/13 01:15	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/03/13 01:15	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/03/13 01:15	1
Trichloroethene	ND		0.50	0.060	ug/L			05/03/13 01:15	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/03/13 01:15	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/03/13 01:15	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/03/13 01:15	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/03/13 01:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*97*		*80 - 120*		*05/03/13 01:15*	*1*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*05/03/13 01:15*	*1*

Lab Sample ID: LCS 480-116540/5
Matrix: Water
Analysis Batch: 116540

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	4.00	4.25		ug/L		106	70 - 130
1,1,1-Trichloroethane	4.00	4.15		ug/L		104	70 - 130
1,1,2,2-Tetrachloroethane	4.00	3.88		ug/L		97	70 - 130
1,1,2-Trichloroethane	4.00	4.21		ug/L		105	70 - 130
1,1-Dichloroethane	4.00	3.85		ug/L		96	70 - 130
1,1-Dichloroethene	4.00	3.95		ug/L		99	70 - 130
1,1-Dichloropropene	4.00	4.56		ug/L		114	70 - 130
1,2,3-Trichlorobenzene	4.00	4.26		ug/L		107	70 - 130
1,2,3-Trichloropropane	4.00	4.36		ug/L		109	70 - 130
1,2,4-Trichlorobenzene	4.00	4.09		ug/L		102	70 - 130
1,2,4-Trimethylbenzene	4.00	4.31		ug/L		108	70 - 130
1,2-Dibromo-3-Chloropropane	4.00	3.41		ug/L		85	70 - 130
1,2-Dibromoethane	4.00	4.44		ug/L		111	70 - 130
1,2-Dichlorobenzene	4.00	4.16		ug/L		104	70 - 130
1,2-Dichloroethane	4.00	4.22		ug/L		105	70 - 130
1,2-Dichloropropane	4.00	4.34		ug/L		109	70 - 130
1,3,5-Trimethylbenzene	4.00	4.27		ug/L		107	70 - 130
1,3-Dichlorobenzene	4.00	4.31		ug/L		108	70 - 130
1,3-Dichloropropane	4.00	4.39		ug/L		110	70 - 130

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-116540/5
Matrix: Water
Analysis Batch: 116540

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	4.00	4.32		ug/L		108	70 - 130
2,2-Dichloropropane	4.00	3.71		ug/L		93	70 - 130
2-Butanone (MEK)	20.0	20.0		ug/L		100	70 - 130
2-Chlorotoluene	4.00	4.25		ug/L		106	70 - 130
4-Chlorotoluene	4.00	4.24		ug/L		106	70 - 130
4-Isopropyltoluene	4.00	4.35		ug/L		109	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	19.9		ug/L		100	70 - 130
Acetone	20.0	16.4		ug/L		82	70 - 130
Benzene	4.00	4.33		ug/L		108	70 - 130
Bromobenzene	4.00	4.68		ug/L		117	70 - 130
Bromochloromethane	4.00	4.35		ug/L		109	70 - 130
Bromoform	4.00	4.22		ug/L		105	70 - 130
Bromomethane	4.00	4.49		ug/L		112	70 - 130
Carbon tetrachloride	4.00	4.64		ug/L		116	70 - 130
Chlorobenzene	4.00	4.32		ug/L		108	70 - 130
Chlorodibromomethane	4.00	4.34		ug/L		108	70 - 130
Chloroethane	4.00	4.39		ug/L		110	70 - 130
Chloroform	4.00	3.91		ug/L		98	70 - 130
Chloromethane	4.00	4.43		ug/L		111	70 - 130
cis-1,2-Dichloroethene	4.00	3.94		ug/L		98	70 - 130
cis-1,3-Dichloropropene	4.00	4.16		ug/L		104	70 - 130
Dibromomethane	4.00	4.11		ug/L		103	70 - 130
Dichlorobromomethane	4.00	4.14		ug/L		103	70 - 130
Dichlorodifluoromethane	4.00	5.33	*	ug/L		133	70 - 130
Ethylbenzene	4.00	4.35		ug/L		109	70 - 130
Hexachlorobutadiene	4.00	4.40		ug/L		110	70 - 130
Isopropylbenzene	4.00	4.17		ug/L		104	70 - 130
Methyl tert-butyl ether	4.00	3.93		ug/L		98	70 - 130
Methylene Chloride	4.00	3.45		ug/L		86	70 - 130
Naphthalene	4.00	3.98		ug/L		100	70 - 130
n-Butylbenzene	4.00	4.30		ug/L		107	70 - 130
N-Propylbenzene	4.00	4.39		ug/L		110	70 - 130
sec-Butylbenzene	4.00	4.41		ug/L		110	70 - 130
Styrene	4.00	4.20		ug/L		105	70 - 130
tert-Butylbenzene	4.00	4.46		ug/L		112	70 - 130
Tetrachloroethene	4.00	4.65		ug/L		116	70 - 130
Toluene	4.00	4.41		ug/L		110	70 - 130
trans-1,2-Dichloroethene	4.00	4.10		ug/L		102	70 - 130
trans-1,3-Dichloropropene	4.00	4.07		ug/L		102	70 - 130
Trichloroethene	4.00	4.40		ug/L		110	70 - 130
Trichlorofluoromethane	4.00	4.68		ug/L		117	70 - 130
Vinyl chloride	4.00	4.66		ug/L		117	70 - 130
Xylenes, Total	12.0	12.6		ug/L		105	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichlorobenzene-d4	*97*		*80 - 120*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-116645/6
Matrix: Water
Analysis Batch: 116645

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/03/13 12:14	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/03/13 12:14	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/03/13 12:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/03/13 12:14	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/03/13 12:14	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/03/13 12:14	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/03/13 12:14	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/03/13 12:14	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/03/13 12:14	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/03/13 12:14	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/03/13 12:14	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/03/13 12:14	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/03/13 12:14	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/03/13 12:14	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/03/13 12:14	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/03/13 12:14	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/03/13 12:14	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/03/13 12:14	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/03/13 12:14	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/03/13 12:14	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/03/13 12:14	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/03/13 12:14	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/03/13 12:14	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/03/13 12:14	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/03/13 12:14	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/03/13 12:14	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/03/13 12:14	1
Acetone	ND		2.5	0.54	ug/L			05/03/13 12:14	1
Benzene	ND		0.50	0.13	ug/L			05/03/13 12:14	1
Bromobenzene	ND		0.50	0.13	ug/L			05/03/13 12:14	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/03/13 12:14	1
Bromoform	ND		0.50	0.13	ug/L			05/03/13 12:14	1
Bromomethane	ND		0.50	0.051	ug/L			05/03/13 12:14	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/03/13 12:14	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/03/13 12:14	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/03/13 12:14	1
Chloroethane	ND		0.50	0.070	ug/L			05/03/13 12:14	1
Chloroform	ND		0.50	0.14	ug/L			05/03/13 12:14	1
Chloromethane	ND		0.50	0.063	ug/L			05/03/13 12:14	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/03/13 12:14	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/03/13 12:14	1
Dibromomethane	ND		0.50	0.17	ug/L			05/03/13 12:14	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/03/13 12:14	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/03/13 12:14	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/03/13 12:14	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/03/13 12:14	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/03/13 12:14	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/03/13 12:14	1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-116645/6
Matrix: Water
Analysis Batch: 116645

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		0.50	0.25	ug/L			05/03/13 12:14	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/03/13 12:14	1
Naphthalene	ND		0.50	0.060	ug/L			05/03/13 12:14	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/03/13 12:14	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/03/13 12:14	1
o-Xylene	ND		0.50	0.044	ug/L			05/03/13 12:14	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/03/13 12:14	1
Styrene	ND		0.50	0.044	ug/L			05/03/13 12:14	1
t-Butanol	ND		10	2.5	ug/L			05/03/13 12:14	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/03/13 12:14	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/03/13 12:14	1
Toluene	ND		0.50	0.10	ug/L			05/03/13 12:14	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/03/13 12:14	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/03/13 12:14	1
Trichloroethene	ND		0.50	0.060	ug/L			05/03/13 12:14	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/03/13 12:14	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/03/13 12:14	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/03/13 12:14	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/03/13 12:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*98*		*80 - 120*		*05/03/13 12:14*	*1*
4-Bromofluorobenzene (Surr)	*87*		*80 - 120*		*05/03/13 12:14*	*1*

Lab Sample ID: LCS 480-116645/5
Matrix: Water
Analysis Batch: 116645

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	4.00	3.91		ug/L		98	70 - 130
1,1,1-Trichloroethane	4.00	3.53		ug/L		88	70 - 130
1,1,2,2-Tetrachloroethane	4.00	3.72		ug/L		93	70 - 130
1,1,2-Trichloroethane	4.00	3.84		ug/L		96	70 - 130
1,1-Dichloroethane	4.00	3.37		ug/L		84	70 - 130
1,1-Dichloroethene	4.00	3.50		ug/L		87	70 - 130
1,1-Dichloropropene	4.00	3.89		ug/L		97	70 - 130
1,2,3-Trichlorobenzene	4.00	4.47		ug/L		112	70 - 130
1,2,3-Trichloropropane	4.00	3.94		ug/L		99	70 - 130
1,2,4-Trichlorobenzene	4.00	4.11		ug/L		103	70 - 130
1,2,4-Trimethylbenzene	4.00	4.02		ug/L		100	70 - 130
1,2-Dibromo-3-Chloropropane	4.00	3.23		ug/L		81	70 - 130
1,2-Dibromoethane	4.00	4.14		ug/L		104	70 - 130
1,2-Dichlorobenzene	4.00	3.87		ug/L		97	70 - 130
1,2-Dichloroethane	4.00	3.61		ug/L		90	70 - 130
1,2-Dichloropropane	4.00	3.61		ug/L		90	70 - 130
1,3,5-Trimethylbenzene	4.00	4.04		ug/L		101	70 - 130
1,3-Dichlorobenzene	4.00	4.08		ug/L		102	70 - 130
1,3-Dichloropropane	4.00	3.98		ug/L		99	70 - 130

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-116645/5
Matrix: Water
Analysis Batch: 116645

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	4.00	4.07		ug/L		102	70 - 130
2,2-Dichloropropane	4.00	2.89		ug/L		72	70 - 130
2-Butanone (MEK)	20.0	17.5		ug/L		87	70 - 130
2-Chlorotoluene	4.00	3.91		ug/L		98	70 - 130
4-Chlorotoluene	4.00	3.95		ug/L		99	70 - 130
4-Isopropyltoluene	4.00	4.02		ug/L		101	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	17.2		ug/L		86	70 - 130
Acetone	20.0	14.9		ug/L		74	70 - 130
Benzene	4.00	3.89		ug/L		97	70 - 130
Bromobenzene	4.00	4.46		ug/L		111	70 - 130
Bromochloromethane	4.00	4.04		ug/L		101	70 - 130
Bromoform	4.00	3.93		ug/L		98	70 - 130
Bromomethane	4.00	4.38		ug/L		110	70 - 130
Carbon tetrachloride	4.00	4.03		ug/L		101	70 - 130
Chlorobenzene	4.00	3.99		ug/L		100	70 - 130
Chlorodibromomethane	4.00	4.05		ug/L		101	70 - 130
Chloroethane	4.00	4.11		ug/L		103	70 - 130
Chloroform	4.00	3.60		ug/L		90	70 - 130
Chloromethane	4.00	3.68		ug/L		92	70 - 130
cis-1,2-Dichloroethene	4.00	3.32		ug/L		83	70 - 130
cis-1,3-Dichloropropene	4.00	3.66		ug/L		92	70 - 130
Dibromomethane	4.00	3.73		ug/L		93	70 - 130
Dichlorobromomethane	4.00	3.62		ug/L		91	70 - 130
Dichlorodifluoromethane	4.00	5.01		ug/L		125	70 - 130
Ethylbenzene	4.00	3.90		ug/L		98	70 - 130
Hexachlorobutadiene	4.00	4.34		ug/L		109	70 - 130
Isopropylbenzene	4.00	3.75		ug/L		94	70 - 130
Methyl tert-butyl ether	4.00	3.58		ug/L		89	70 - 130
Methylene Chloride	4.00	3.20		ug/L		80	70 - 130
Naphthalene	4.00	4.07		ug/L		102	70 - 130
n-Butylbenzene	4.00	3.85		ug/L		96	70 - 130
N-Propylbenzene	4.00	4.09		ug/L		102	70 - 130
sec-Butylbenzene	4.00	4.02		ug/L		100	70 - 130
Styrene	4.00	3.84		ug/L		96	70 - 130
tert-Butylbenzene	4.00	4.15		ug/L		104	70 - 130
Tetrachloroethene	4.00	4.22		ug/L		105	70 - 130
Toluene	4.00	3.91		ug/L		98	70 - 130
trans-1,2-Dichloroethene	4.00	3.73		ug/L		93	70 - 130
trans-1,3-Dichloropropene	4.00	3.63		ug/L		91	70 - 130
Trichloroethene	4.00	3.89		ug/L		97	70 - 130
Trichlorofluoromethane	4.00	4.33		ug/L		108	70 - 130
Vinyl chloride	4.00	4.26		ug/L		107	70 - 130
Xylenes, Total	12.0	11.4		ug/L		95	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichlorobenzene-d4	*100*		*80 - 120*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-117270/6
Matrix: Water
Analysis Batch: 117270

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/07/13 21:52	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/07/13 21:52	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/07/13 21:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/07/13 21:52	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/07/13 21:52	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/07/13 21:52	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/07/13 21:52	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/07/13 21:52	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/07/13 21:52	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/07/13 21:52	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/07/13 21:52	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/07/13 21:52	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/07/13 21:52	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/07/13 21:52	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/07/13 21:52	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/07/13 21:52	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/07/13 21:52	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/07/13 21:52	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/07/13 21:52	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/07/13 21:52	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/07/13 21:52	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/07/13 21:52	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/07/13 21:52	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/07/13 21:52	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/07/13 21:52	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/07/13 21:52	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/07/13 21:52	1
Acetone	ND		2.5	0.54	ug/L			05/07/13 21:52	1
Benzene	ND		0.50	0.13	ug/L			05/07/13 21:52	1
Bromobenzene	ND		0.50	0.13	ug/L			05/07/13 21:52	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/07/13 21:52	1
Bromoform	ND		0.50	0.13	ug/L			05/07/13 21:52	1
Bromomethane	ND		0.50	0.051	ug/L			05/07/13 21:52	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/07/13 21:52	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/07/13 21:52	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/07/13 21:52	1
Chloroethane	ND		0.50	0.070	ug/L			05/07/13 21:52	1
Chloroform	ND		0.50	0.14	ug/L			05/07/13 21:52	1
Chloromethane	ND		0.50	0.063	ug/L			05/07/13 21:52	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/07/13 21:52	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/07/13 21:52	1
Dibromomethane	ND		0.50	0.17	ug/L			05/07/13 21:52	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/07/13 21:52	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/07/13 21:52	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/07/13 21:52	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/07/13 21:52	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/07/13 21:52	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/07/13 21:52	1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-117270/6
Matrix: Water
Analysis Batch: 117270

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		0.50	0.25	ug/L			05/07/13 21:52	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/07/13 21:52	1
Naphthalene	ND		0.50	0.060	ug/L			05/07/13 21:52	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/07/13 21:52	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/07/13 21:52	1
o-Xylene	ND		0.50	0.044	ug/L			05/07/13 21:52	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/07/13 21:52	1
Styrene	ND		0.50	0.044	ug/L			05/07/13 21:52	1
t-Butanol	ND		10	2.5	ug/L			05/07/13 21:52	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/07/13 21:52	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/07/13 21:52	1
Toluene	ND		0.50	0.10	ug/L			05/07/13 21:52	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/07/13 21:52	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/07/13 21:52	1
Trichloroethene	ND		0.50	0.060	ug/L			05/07/13 21:52	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/07/13 21:52	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/07/13 21:52	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/07/13 21:52	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/07/13 21:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*101*		*80 - 120*		*05/07/13 21:52*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*05/07/13 21:52*	*1*

Lab Sample ID: LCS 480-117270/5
Matrix: Water
Analysis Batch: 117270

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	4.00	4.25		ug/L		106	70 - 130
1,1,1-Trichloroethane	4.00	4.40		ug/L		110	70 - 130
1,1,2,2-Tetrachloroethane	4.00	3.49		ug/L		87	70 - 130
1,1,2-Trichloroethane	4.00	3.85		ug/L		96	70 - 130
1,1-Dichloroethane	4.00	3.71		ug/L		93	70 - 130
1,1-Dichloroethene	4.00	3.75		ug/L		94	70 - 130
1,1-Dichloropropene	4.00	4.26		ug/L		106	70 - 130
1,2,3-Trichlorobenzene	4.00	3.94		ug/L		99	70 - 130
1,2,3-Trichloropropane	4.00	3.97		ug/L		99	70 - 130
1,2,4-Trichlorobenzene	4.00	4.06		ug/L		102	70 - 130
1,2,4-Trimethylbenzene	4.00	4.03		ug/L		101	70 - 130
1,2-Dibromo-3-Chloropropane	4.00	3.82		ug/L		96	70 - 130
1,2-Dibromoethane	4.00	4.10		ug/L		103	70 - 130
1,2-Dichlorobenzene	4.00	4.17		ug/L		104	70 - 130
1,2-Dichloroethane	4.00	3.91		ug/L		98	70 - 130
1,2-Dichloropropane	4.00	3.61		ug/L		90	70 - 130
1,3,5-Trimethylbenzene	4.00	3.99		ug/L		100	70 - 130
1,3-Dichlorobenzene	4.00	4.13		ug/L		103	70 - 130
1,3-Dichloropropane	4.00	3.72		ug/L		93	70 - 130

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-117270/5
Matrix: Water
Analysis Batch: 117270

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	4.00	4.06		ug/L		102	70 - 130
2,2-Dichloropropane	4.00	3.97		ug/L		99	70 - 130
2-Butanone (MEK)	20.0	20.9		ug/L		105	70 - 130
2-Chlorotoluene	4.00	3.80		ug/L		95	70 - 130
4-Chlorotoluene	4.00	3.77		ug/L		94	70 - 130
4-Isopropyltoluene	4.00	4.09		ug/L		102	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	19.3		ug/L		96	70 - 130
Acetone	20.0	20.9		ug/L		105	70 - 130
Benzene	4.00	4.02		ug/L		101	70 - 130
Bromobenzene	4.00	4.09		ug/L		102	70 - 130
Bromochloromethane	4.00	4.39		ug/L		110	70 - 130
Bromoform	4.00	4.46		ug/L		112	70 - 130
Bromomethane	4.00	4.05		ug/L		101	70 - 130
Carbon tetrachloride	4.00	4.37		ug/L		109	70 - 130
Chlorobenzene	4.00	4.07		ug/L		102	70 - 130
Chlorodibromomethane	4.00	4.11		ug/L		103	70 - 130
Chloroethane	4.00	4.12		ug/L		103	70 - 130
Chloroform	4.00	3.99		ug/L		100	70 - 130
Chloromethane	4.00	3.25		ug/L		81	70 - 130
cis-1,2-Dichloroethene	4.00	3.84		ug/L		96	70 - 130
cis-1,3-Dichloropropene	4.00	3.72		ug/L		93	70 - 130
Dibromomethane	4.00	4.05		ug/L		101	70 - 130
Dichlorobromomethane	4.00	3.95		ug/L		99	70 - 130
Dichlorodifluoromethane	4.00	3.60		ug/L		90	70 - 130
Ethylbenzene	4.00	3.97		ug/L		99	70 - 130
Hexachlorobutadiene	4.00	4.42		ug/L		111	70 - 130
Isopropylbenzene	4.00	4.19		ug/L		105	70 - 130
Methyl tert-butyl ether	4.00	4.27		ug/L		107	70 - 130
Methylene Chloride	4.00	3.70		ug/L		93	70 - 130
Naphthalene	4.00	3.85		ug/L		96	70 - 130
n-Butylbenzene	4.00	3.90		ug/L		97	70 - 130
N-Propylbenzene	4.00	3.85		ug/L		96	70 - 130
sec-Butylbenzene	4.00	4.00		ug/L		100	70 - 130
Styrene	4.00	4.18		ug/L		105	70 - 130
tert-Butylbenzene	4.00	4.20		ug/L		105	70 - 130
Tetrachloroethene	4.00	4.30		ug/L		107	70 - 130
Toluene	4.00	4.06		ug/L		102	70 - 130
trans-1,2-Dichloroethene	4.00	3.94		ug/L		98	70 - 130
trans-1,3-Dichloropropene	4.00	3.68		ug/L		92	70 - 130
Trichloroethene	4.00	4.16		ug/L		104	70 - 130
Trichlorofluoromethane	4.00	4.87		ug/L		122	70 - 130
Vinyl chloride	4.00	4.05		ug/L		101	70 - 130
Xylenes, Total	12.0	12.2		ug/L		102	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichlorobenzene-d4	*101*		*80 - 120*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Lab Sample ID: MB 200-55093/1-A
Matrix: Water
Analysis Batch: 55112

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 55093

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		05/03/13 08:49	05/03/13 13:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*94*		*70 - 130*	*05/03/13 08:49*	*05/03/13 13:50*	*1*

Lab Sample ID: LCS 200-55093/2-A
Matrix: Water
Analysis Batch: 55112

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 55093

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane			2.00	1.92		ug/L		96	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,4-Dioxane-d8 (Surr)	*93*		*70 - 130*

Lab Sample ID: MB 200-55107/1-A
Matrix: Water
Analysis Batch: 55112

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 55107

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		05/03/13 11:02	05/03/13 20:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*91*		*70 - 130*	*05/03/13 11:02*	*05/03/13 20:16*	*1*

Lab Sample ID: LCS 200-55107/2-A
Matrix: Water
Analysis Batch: 55112

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 55107

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane			8.00	7.76		ug/L		97	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,4-Dioxane-d8 (Surr)	*94*		*70 - 130*

GC/MS VOA

Analysis Batch: 116540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-37444-1	75 Knowles	Total/NA	Water	524.2	
480-37444-3	20 Duckmarsh	Total/NA	Water	524.2	
LCS 480-116540/5	Lab Control Sample	Total/NA	Water	524.2	
MB 480-116540/6	Method Blank	Total/NA	Water	524.2	

Analysis Batch: 116645

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-37444-5	5 Eldia	Total/NA	Water	524.2	
480-37444-7	Trip Blank 041013	Total/NA	Water	524.2	
480-37444-8	310 Candlewood	Total/NA	Water	524.2	
480-37444-10	3460 State Highway	Total/NA	Water	524.2	
480-37444-12	370 Meetinghouse	Total/NA	Water	524.2	
480-37444-14	20 Sharon Circle	Total/NA	Water	524.2	
480-37444-16	60 Chipman	Total/NA	Water	524.2	
480-37444-18	50 Surrey	Total/NA	Water	524.2	
480-37444-20	10 Cestaro	Total/NA	Water	524.2	
480-37444-22	35 Cestaro	Total/NA	Water	524.2	
LCS 480-116645/5	Lab Control Sample	Total/NA	Water	524.2	
MB 480-116645/6	Method Blank	Total/NA	Water	524.2	

Analysis Batch: 117270

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-37444-24	3 Selah	Total/NA	Water	524.2	
480-37444-26	4 Preservation	Total/NA	Water	524.2	
480-37444-28	15 Deerfield	Total/NA	Water	524.2	
480-37444-30	185 Meetinghouse	Total/NA	Water	524.2	
LCS 480-117270/5	Lab Control Sample	Total/NA	Water	524.2	
MB 480-117270/6	Method Blank	Total/NA	Water	524.2	

GC/MS Semi VOA

Prep Batch: 55093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-37444-1	75 Knowles	Total/NA	Water	3535A	
480-37444-3	20 Duckmarsh	Total/NA	Water	3535A	
LCS 200-55093/2-A	Lab Control Sample	Total/NA	Water	3535A	
MB 200-55093/1-A	Method Blank	Total/NA	Water	3535A	

Prep Batch: 55107

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-37444-5	5 Eldia	Total/NA	Water	3535A	
480-37444-8	310 Candlewood	Total/NA	Water	3535A	
480-37444-10	3460 State Highway	Total/NA	Water	3535A	
480-37444-12	370 Meetinghouse	Total/NA	Water	3535A	
480-37444-14	20 Sharon Circle	Total/NA	Water	3535A	
480-37444-16	60 Chipman	Total/NA	Water	3535A	
480-37444-18	50 Surrey	Total/NA	Water	3535A	
480-37444-20	10 Cestaro	Total/NA	Water	3535A	
480-37444-22	35 Cestaro	Total/NA	Water	3535A	
480-37444-24	3 Selah	Total/NA	Water	3535A	

GC/MS Semi VOA (Continued)

Prep Batch: 55107 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-37444-26	4 Preservation	Total/NA	Water	3535A	
480-37444-28	15 Deerfield	Total/NA	Water	3535A	
480-37444-30	185 Meetinghouse	Total/NA	Water	3535A	
LCS 200-55107/2-A	Lab Control Sample	Total/NA	Water	3535A	
MB 200-55107/1-A	Method Blank	Total/NA	Water	3535A	

Analysis Batch: 55112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-37444-1	75 Knowles	Total/NA	Water	522 MOD	55093
480-37444-3	20 Duckmarsh	Total/NA	Water	522 MOD	55093
480-37444-5	5 Eldia	Total/NA	Water	522 MOD	55107
480-37444-8	310 Candlewood	Total/NA	Water	522 MOD	55107
480-37444-10	3460 State Highway	Total/NA	Water	522 MOD	55107
480-37444-12	370 Meetinghouse	Total/NA	Water	522 MOD	55107
480-37444-14	20 Sharon Circle	Total/NA	Water	522 MOD	55107
480-37444-16	60 Chipman	Total/NA	Water	522 MOD	55107
480-37444-18	50 Surrey	Total/NA	Water	522 MOD	55107
480-37444-20	10 Cestaro	Total/NA	Water	522 MOD	55107
480-37444-22	35 Cestaro	Total/NA	Water	522 MOD	55107
480-37444-24	3 Selah	Total/NA	Water	522 MOD	55107
480-37444-26	4 Preservation	Total/NA	Water	522 MOD	55107
480-37444-28	15 Deerfield	Total/NA	Water	522 MOD	55107
480-37444-30	185 Meetinghouse	Total/NA	Water	522 MOD	55107
LCS 200-55093/2-A	Lab Control Sample	Total/NA	Water	522 MOD	55093
LCS 200-55107/2-A	Lab Control Sample	Total/NA	Water	522 MOD	55107
MB 200-55093/1-A	Method Blank	Total/NA	Water	522 MOD	55093
MB 200-55107/1-A	Method Blank	Total/NA	Water	522 MOD	55107

Lab Chronicle

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37444-1

Client Sample ID: 75 Knowles

Lab Sample ID: 480-37444-1

Date Collected: 04/30/13 09:55

Matrix: Water

Date Received: 05/02/13 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	116540	05/03/13 08:47	TRB	TAL BUF
Total/NA	Prep	3535A			55093	05/03/13 08:49	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55112	05/03/13 19:11	RJH	TAL BUR

Client Sample ID: 20 Duckmarsh

Lab Sample ID: 480-37444-3

Date Collected: 04/30/13 10:55

Matrix: Water

Date Received: 05/02/13 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	116540	05/03/13 09:36	TRB	TAL BUF
Total/NA	Prep	3535A			55093	05/03/13 08:49	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55112	05/03/13 19:27	RJH	TAL BUR

Client Sample ID: 5 Eldia

Lab Sample ID: 480-37444-5

Date Collected: 04/30/13 11:45

Matrix: Water

Date Received: 05/02/13 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	116645	05/03/13 13:06	CDC	TAL BUF
Total/NA	Prep	3535A			55107	05/03/13 11:02	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55112	05/03/13 20:32	RJH	TAL BUR

Client Sample ID: Trip Blank 041013

Lab Sample ID: 480-37444-7

Date Collected: 04/30/13 00:00

Matrix: Water

Date Received: 05/02/13 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	116645	05/03/13 13:56	CDC	TAL BUF

Client Sample ID: 310 Candlewood

Lab Sample ID: 480-37444-8

Date Collected: 04/30/13 13:05

Matrix: Water

Date Received: 05/02/13 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	116645	05/03/13 14:21	CDC	TAL BUF
Total/NA	Prep	3535A			55107	05/03/13 11:02	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55112	05/03/13 20:48	RJH	TAL BUR

Lab Chronicle

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37444-1

Client Sample ID: 3460 State Highway

Lab Sample ID: 480-37444-10

Date Collected: 04/30/13 14:20

Matrix: Water

Date Received: 05/02/13 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	116645	05/03/13 15:10	CDC	TAL BUF
Total/NA	Prep	3535A			55107	05/03/13 11:02	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55112	05/03/13 21:04	RJH	TAL BUR

Client Sample ID: 370 Meetinghouse

Lab Sample ID: 480-37444-12

Date Collected: 04/30/13 15:05

Matrix: Water

Date Received: 05/02/13 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	116645	05/03/13 16:00	CDC	TAL BUF
Total/NA	Prep	3535A			55107	05/03/13 11:02	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55112	05/03/13 21:20	RJH	TAL BUR

Client Sample ID: 20 Sharon Circle

Lab Sample ID: 480-37444-14

Date Collected: 04/30/13 15:45

Matrix: Water

Date Received: 05/02/13 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	116645	05/03/13 16:49	CDC	TAL BUF
Total/NA	Prep	3535A			55107	05/03/13 11:02	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55112	05/03/13 21:36	RJH	TAL BUR

Client Sample ID: 60 Chipman

Lab Sample ID: 480-37444-16

Date Collected: 04/30/13 09:15

Matrix: Water

Date Received: 05/02/13 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	116645	05/03/13 17:39	CDC	TAL BUF
Total/NA	Prep	3535A			55107	05/03/13 11:02	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55112	05/03/13 21:53	RJH	TAL BUR

Client Sample ID: 50 Surrey

Lab Sample ID: 480-37444-18

Date Collected: 04/30/13 10:00

Matrix: Water

Date Received: 05/02/13 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	116645	05/03/13 18:28	CDC	TAL BUF
Total/NA	Prep	3535A			55107	05/03/13 11:02	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55112	05/03/13 22:09	RJH	TAL BUR

Lab Chronicle

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37444-1

Client Sample ID: 10 Cestaro

Lab Sample ID: 480-37444-20

Date Collected: 04/30/13 10:55
Date Received: 05/02/13 01:45

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	116645	05/03/13 19:18	CDC	TAL BUF
Total/NA	Prep	3535A			55107	05/03/13 11:02	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55112	05/03/13 22:25	RJH	TAL BUR

Client Sample ID: 35 Cestaro

Lab Sample ID: 480-37444-22

Date Collected: 04/30/13 11:35
Date Received: 05/02/13 01:45

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	116645	05/03/13 20:07	CDC	TAL BUF
Total/NA	Prep	3535A			55107	05/03/13 11:02	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55112	05/03/13 22:57	RJH	TAL BUR

Client Sample ID: 3 Selah

Lab Sample ID: 480-37444-24

Date Collected: 04/30/13 12:20
Date Received: 05/02/13 01:45

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	117270	05/07/13 22:32	TRB	TAL BUF
Total/NA	Prep	3535A			55107	05/03/13 11:02	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55112	05/03/13 23:13	RJH	TAL BUR

Client Sample ID: 4 Preservation

Lab Sample ID: 480-37444-26

Date Collected: 04/30/13 14:25
Date Received: 05/02/13 01:45

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	117270	05/07/13 23:21	TRB	TAL BUF
Total/NA	Prep	3535A			55107	05/03/13 11:02	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55112	05/03/13 23:29	RJH	TAL BUR

Client Sample ID: 15 Deerfield

Lab Sample ID: 480-37444-28

Date Collected: 04/30/13 15:15
Date Received: 05/02/13 01:45

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	117270	05/08/13 00:11	TRB	TAL BUF
Total/NA	Prep	3535A			55107	05/03/13 11:02	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55112	05/03/13 23:46	RJH	TAL BUR

Lab Chronicle

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37444-1

Client Sample ID: 185 Meetinghouse
Date Collected: 04/30/13 16:15
Date Received: 05/02/13 01:45

Lab Sample ID: 480-37444-30
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	117270	05/08/13 01:00	TRB	TAL BUF
Total/NA	Prep	3535A			55107	05/03/13 11:02	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55112	05/04/13 00:02	RJH	TAL BUR

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Certification Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37444-1

Laboratory: TestAmerica Buffalo

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-13
California	NELAP	9	1169CA	09-30-13
Connecticut	State Program	1	PH-0568	09-30-14
Florida	NELAP	4	E87672	06-30-13
Georgia	State Program	4	N/A	03-31-14
Georgia	State Program	4	956	06-30-13
Georgia	State Program	4	956	03-31-14
Illinois	NELAP	5	200003	09-30-13
Iowa	State Program	7	374	03-15-15
Kansas	NELAP	7	E-10187	01-31-14
Kentucky	State Program	4	90029	12-31-13
Kentucky (UST)	State Program	4	30	04-01-14
Louisiana	NELAP	6	02031	06-30-13
Maine	State Program	1	NY00044	12-04-13
Maryland	State Program	3	294	03-31-14
Massachusetts	State Program	1	M-NY044	06-30-13
Michigan	State Program	5	9937	04-01-13 *
Minnesota	NELAP	5	036-999-337	12-31-13
New Hampshire	NELAP	1	2973	09-11-13
New Hampshire	NELAP	1	2337	11-17-13
New Jersey	NELAP	2	NY455	06-30-13
New York	NELAP	2	10026	04-01-14
North Dakota	State Program	8	R-176	03-31-14
Oklahoma	State Program	6	9421	08-31-13
Oregon	NELAP	10	NY200003	06-09-13
Pennsylvania	NELAP	3	68-00281	07-31-13
Rhode Island	State Program	1	LAO00328	12-31-13
Tennessee	State Program	4	TN02970	04-01-14
Texas	NELAP	6	T104704412-11-2	07-31-13
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAP	3	460185	09-14-13
Washington	State Program	10	C784	02-10-14
West Virginia DEP	State Program	3	252	09-30-13
Wisconsin	State Program	5	998310390	08-31-13

Laboratory: TestAmerica Burlington

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Connecticut	State Program	1	PH-0751	09-30-13
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-13-15
Florida	NELAP	4	E87467	06-30-13
L-A-B	DoD ELAP		L2336	10-26-13
Louisiana	NELAP	6	176292	06-30-13
Maine	State Program	1	VT00008	04-17-13 *
Minnesota	NELAP	5	050-999-436	12-31-13
New Hampshire	NELAP	1	2006	12-18-13
New Jersey	NELAP	2	VT972	06-30-13
New York	NELAP	2	10391	04-01-14
Pennsylvania	NELAP	3	68-00489	04-30-14

* Expired certification is currently pending renewal and is considered valid.

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37444-1

Laboratory: TestAmerica Burlington (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
USDA	Federal		P330-11-00093	02-17-14
Vermont	State Program	1	VT-4000	12-31-13
Virginia	NELAP	3	460209	12-14-13

Method Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37444-1

Method	Method Description	Protocol	Laboratory
524.2	Volatile Organic Compounds (GC/MS)	EPA-DW	TAL BUF
522 MOD	1,4 Dioxane (GC/MS SIM)	EPA	TAL BUR

Protocol References:

EPA = US Environmental Protection Agency

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37444-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-37444-1	75 Knowles	Water	04/30/13 09:55	05/02/13 01:45
480-37444-3	20 Duckmarsh	Water	04/30/13 10:55	05/02/13 01:45
480-37444-5	5 Eldia	Water	04/30/13 11:45	05/02/13 01:45
480-37444-7	Trip Blank 041013	Water	04/30/13 00:00	05/02/13 01:45
480-37444-8	310 Candlewood	Water	04/30/13 13:05	05/02/13 01:45
480-37444-10	3460 State Highway	Water	04/30/13 14:20	05/02/13 01:45
480-37444-12	370 Meetinghouse	Water	04/30/13 15:05	05/02/13 01:45
480-37444-14	20 Sharon Circle	Water	04/30/13 15:45	05/02/13 01:45
480-37444-16	60 Chipman	Water	04/30/13 09:15	05/02/13 01:45
480-37444-18	50 Surrey	Water	04/30/13 10:00	05/02/13 01:45
480-37444-20	10 Cestaro	Water	04/30/13 10:55	05/02/13 01:45
480-37444-22	35 Cestaro	Water	04/30/13 11:35	05/02/13 01:45
480-37444-24	3 Selah	Water	04/30/13 12:20	05/02/13 01:45
480-37444-26	4 Preservation	Water	04/30/13 14:25	05/02/13 01:45
480-37444-28	15 Deerfield	Water	04/30/13 15:15	05/02/13 01:45
480-37444-30	185 Meetinghouse	Water	04/30/13 16:15	05/02/13 01:45

TestAmerica Westfield
Westfield Executive Park 53 Southampton Road
Westfield, MA 01085
Phone (413) 572-4000 Fax (413) 572-3707

Boston Service Center
240 Bear Hill Rd. Suite 104
Waltham, MA 02451
Phone (781) 466-8900 Fax (781) 466-6901

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information
Client Contact: Bennett Environmental Assoc. / Town of Eastham
Company: Dave Bennett
Address: 1573 Main St, P.O. BOX 1743
City: Brewster
State, Zip: MA 02631
Phone: (508) 896-1706
Email: dBennett@bennett-ea.com
Project Name/number: Eastham Landfill BEA011-10104
Site: Eastham, MA

Sampler: Lisa Thurston
Phone: (508) 896-1706
Lab PM:
E-Mail: dBennett@bennett-ea.com
Carrier Tracking No(s):

COC No: 26200
Page: 1 of 4
Job #:

Due Date Requested:
TAT Requested (days): 2 weeks calendar
Quote #: 10104
PO #:
WO #:
SSOW#:

Analysis Requested

Preservation Codes:
A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; H - Ascorbic Acid; I - Ice; J - DI Water; M - Hexane; N - None; P - Na2O4S; Q - Na2SO3; R - Na2S2SO3; S - H2SO4; Z - other (specify)

Regulatory programs: MCP ☐ GW1/S1 ☐ RCP ☐ CT RSR ☐ DEP Form ☐ EDD Required ☐

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Sample Filtered?	Perform MS/MSD?	VOA	1,4 Dioxane	Total Number of containers	Special Instructions/Note:
Preservation Code:							A	A		
75 Knowles	4/30/13	0955	G	W	N	N	3	2	5	
75 Knowles DUP	4/30/13	0955	G	W	N	N	3	1	4	Duplicate sample (field)
20 Duck Marsh	4/30/13	1055	G	W	N	N	3	2	5	
20 Duck Marsh DUP	4/30/13	1055	G	W	N	N	3	1	4	Duplicate sample (field)
5 ELDIA	4/30/13	1145	G	W	N	N	3	2	5	
5 ELDIADUP	4/30/13	1145	G	W	N	N	3	1	4	Duplicate sample (field)
Trip Blank 041013							3		3	Trip From Laboratory
310 Candlewood	4/30/13	1305	G	W	N	N	3	2	5	
310 Candlewood dup	4/30/13	1305	G	W	N	N	3	1	4	
3460 State Highway	4/30/13	1420	G	W	N	N	3	2	5	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
	4/30/13 1700	USEPA		4/30/13 1700	TAL
	5/1/13 0700	TA		5.2.13 0145	TA BXT

Custody Seals Intact: ☐ Yes ☐ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 3.2 4.1 #1

TAL-8245-360 1111

TestAmerica Westfield
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Waltham, MA 02451
Phone (781) 466-6900 Fax (781) 466-6901

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler:	Lab PM:	Carrier Tracking No(s):	COC No: 26174
Client Contact: Town of Eastham, MA / Dave Bennett	Phone: (508) 896-1706	E-Mail: dbennett@bennett-ea.com		Page: 2 of 4
Company: Bennett Environmental Associates		Analysis Requested		Job #:
Address: 1573 Main St., P.O. Box 1743	Due Date Requested:			Preservation Codes: A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, H - Ascorbic Acid, I - Ice, J - DI Water, M - Hexane, N - None, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, Z - other (specify)
City: Brewster	TAT Requested (days): 2 weeks calendar			
State, Zip: MA, 02631	Quote #: 10104			
Phone: (508) 896-1706	PO #:			Regulatory programs: MCP ☐ GW1/S1 ☐, RCP ☐ CT RSR ☐, DEP Form ☐ EDD Required ☐
Email: dbennett@bennett-ea.com	WO #:			
Project Name/number: Eastham landfill BEA011-10104	SSOW#:			
Site: Eastham, MA				

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Sampler's initials	Field Filtered Sample?	Perform MS/MSD?	VOA	1,4-Dioxane	Total Number of containers	Special Instructions/Note:
Preservation Code:								A	A		
346 State Highway DUP	4/30/13	1420	G	W	EJ	N		3	1	4	field duplicate sample
370 Meetinghouse	4/30/13	1505	G	W	EJ	N		3	2	5	
370 MEETINGHOUSE DUP	4/30/13	1505	G	W	EJ	N		3	1	4	field duplicate sample
20 SHARON CIRCLE	4/30/13	1545	G	W	EJ	N		3	2	5	
20 SHARON CIRCLE DUP	4/30/13	1545	G	W	EJ	N		3	1	4	field duplicate sample

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Relinquished by:	Date/Time: 4/30/13 1700	Company: USEPA	Received by:	Date/Time: 4/30/13 1700	Company
Relinquished by:	Date/Time: 5/1/13 1700	Company: TAL	Received by:	Date/Time: 5-2-13 0145	Company: TA BLUE
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 3.2, 4.1 #1

TAL-8245-360 1111

TestAmerica Westfield
Westfield Executive Park 53 Southampton Road
Westfield, MA 01085
Phone (413) 572-4000 Fax (413) 572-3707

Boston Service Center
240 Bear Hill Rd. Suite 104
Waltham, MA 02451
Phone (781) 466-8900 Fax (781) 466-8901

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Eric Olsen - Dstaff	Lab PM:	Carrier Tracking No(s):	COC No: 26170
Client Contact: David Bennett / Town of Eastham	Phone: (508) 896-1706	E-Mail: dbennett@bennett-ea.com		Page: 3 of 4
Company: Bennett Environmental Associates, Inc.				Job #:
Address: 1573 Main Street, P.O. BOX 1743	Due Date Requested:			
City: Brewster	TAT Requested (days): 2 weeks calendar			
State, Zip: MA, 02631	Quote #: 10104			
Phone: (508) 896-1706	PO #:			
Email: dbennett@bennett-ea.com	WO #:			
Project Name/number: Eastham landfill BEA011-1010	SSOW#:			
Site: Eastham, MA				

Analysis Requested

Preservation Codes:
A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; H - Ascorbic Acid; I - Ice; J - DI Water; M - Hexane; N - None; P - Na2O4S; Q - Na2SO3; R - Na2S2SO3; S - H2SO4; Z - other (specify)

Regulatory programs: MCP ☐ GW1/S1 ☐ RCP ☐ CT RSR ☐ DEP Form ☐ EDD Required ☐

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Sampler's Initials	Field Filtered Sample?	Perform MS/MSD?	VOCs	1,4-Dioxane	Total Number of containers	Special Instructions/Note:
			Preservation Code:					A	A		
60 Chipman	4/30/13	9:15	G	W				X	X	5	
60 Chipman Dup	4/30/13	9:15	G	W				X	X	4	field duplicate sample
50 Surrey Drive	4/30/13	10:00	G	W				X	X	5	
50 Surrey Dup	4/30/13	10:00	G	W				X	X	4	field duplicate sample
10 Cestaro	4/30/13	10:55	G	W				X	X	5	
10 Cestaro Dup	4/30/13	10:55	G	W				X	X	4	field duplicate sample
35 Cestaro	4/30/13	11:35	G	W				X	X	5	
35 Cestaro Dup	4/30/13	11:35	G	W				X	X	4	field duplicate sample
3 Selah	4/30/13	1220	G	W				X	X	5	
3 Selah Dup	4/30/13	1220	G	W				X	X	4	field duplicate sample

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Relinquished by:	Date/Time: 4/30/13 1625	Company: USEPA	Received by:	Date/Time: 4/30/13 1625	Company: USEPA
Relinquished by:	Date/Time: 4/30/13 1700	Company: USEPA	Received by:	Date/Time: 4/30/13 1700	Company: TAL
Relinquished by:	Date/Time: 5/1/13 1700	Company: TAL	Received by:	Date/Time: 5-2-13 0145	Company: TA BOX

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 3.2, 4.1 #1

TAL-8245-360 1111

TestAmerica Westfield
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Waltham, MA 02451
Phone (781) 466-6900 Fax (781) 466-6901

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information
Client Contact: David Bennett / Town of Eastham
Company: Bennett Environmental Associates, Inc.
Address: 1873 Main Street; P.O. Box 1743
City: Brewster
State, Zip: MA 02631
Phone: (508) 896-1706
Email: dbennett@bennett-ea.com
Project Name/number: Eastham Landfill BEA011-10104
Site: Eastham, MA

Sampler: [signature] Lab PM: Carrier Tracking No(s):
Phone: (508) 896-1706 E-Mail: dbennett@bennett-ea.com

COC No: 26171
Page: 4 of 4
Job #:

Due Date Requested:
TAT Requested (days): 2 weeks calendar
Quote #: 10104
PO #:
WO #:
SSOW#:

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wastoil, BT=Tissue, A=Air)	Sampler's Initials	Field Filtered Sample?	Perform MS/MSD?	VOCs 1, 4 Dioxane	Total Number of containers	Special Instructions/Note:
Preservation Code:								A M		
4 Preservation	4/30/13	1425	G	W				X X	5	
4 Preservation Dup	4/30/13	1425	G	W				X X	4	field duplicate sample
15 Deerfield	4/29/13	1515	G	W				X X	5	
15 Deerfield Dup	4/29/13	1515	G	W				X X	4	field duplicate sample
185 Meetinghouse	4/30/13	1615	G	W				X X	5	
185 Meetinghouse DUP	4/30/13	1615	G	W				X X	4	field duplicate sample

Preservation Codes:
A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; H - Ascorbic Acid; I - Ice; J - DI Water; M - Hexane; N - None; P - Na2O4S; Q - Na2SO3; R - Na2S2SO3; S - H2SO4; Z - other (specify)

Regulatory programs: MCP ☐ GW1/S1 ☐ RCP ☐ CT RSR ☐ DEP Form ☐ EDD Required ☐

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested: I, II, III, IV, Other (specify)
Special Instructions/QC Requirements:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
[signature]	4/30/13 1625	USEPA	[signature]	4/30/13 1625	USEPA
[signature]	4/30/13 1700	USEPA	[signature]	4/30/13 1700	
[signature]	5/1/13 0700	TAL	[signature]	5.2.13 0445	TA BUFF

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 3.2, 4.1 #1

TAL-8245-360 1111

Login Sample Receipt Checklist

Client: Bennett Environmental Associates, Inc.

Job Number: 480-37444-1

Login Number: 37444

List Source: TestAmerica Buffalo

List Number: 1

Creator: Wienke, Robert

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	USEPA
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	True	LAB TO CHECK

Login Sample Receipt Checklist

Client: Bennett Environmental Associates, Inc.

Job Number: 480-37444-1

Login Number: 37444
List Number: 1
Creator: Callahan, Christopher G

List Source: TestAmerica Burlington
List Creation: 05/02/13 01:38 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	No numbers
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.4 & 3.6 ºC
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

						Sample ID	75 Knowles	20 Duckmarsh	5 Eldia	Trip Blank 041013	310 Candlewood	3460 State Highway	370 Meetinghouse	20 Sharon Circle	60 Chipman	50 Surrey	10 Cestaro	35 Cestaro	3 Selah	4 Preservation	15 Deerfield	185 Meetinghouse
						Sampled By																
						Sample Collection Date	04/30/2013 09:55	04/30/2013 10:55	04/30/2013 11:45	04/30/2013 00:00	04/30/2013 13:05	04/30/2013 14:20	04/30/2013 15:05	04/30/2013 15:45	04/30/2013 09:15	04/30/2013 10:00	04/30/2013 10:55	04/30/2013 11:35	04/30/2013 12:20	04/30/2013 14:25	04/30/2013 15:15	04/30/2013 16:15
						Laboratory Order Number	480-37444-1	480-37444-3	480-37444-5	480-37444-7	480-37444-8	480-37444-10	480-37444-12	480-37444-14	480-37444-16	480-37444-18	480-37444-20	480-37444-22	480-37444-24	480-37444-26	480-37444-28	480-37444-30
Parameter	Reporting Units	GW1	GW2	RCGW1	RCGW2	DW MMCL																
Volatiles by 524.2																						
1,1,1,2-Tetrachloroethane	ug/l	5	10	5	10	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1,1-Trichloroethane	ug/l	200	4000	200	4000	200	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1,2,2-Tetrachloroethane	ug/l	2	9	2	9	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1,2-Trichloroethane	ug/l	5	900	5	900	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1-Dichloroethane	ug/l	70	1000	70	1000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1-Dichloroethene	ug/l	7	80	7	80	7	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1-Dichloropropene	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2,3-Trichlorobenzene	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2,3-Trichloropropane	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2,4-Trichlorobenzene	ug/l	70	2000	70	2000	70	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2,4-Trimethylbenzene	ug/l	NA	NA	10000	100000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dibromo-3-Chloropropane	ug/l	NA	NA	100	1000	0.2	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**
1,2-Dibromoethane	ug/l	0.02	2	0.02	2	0.02	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**
1,2-Dichlorobenzene	ug/l	600	2000	600	2000	600	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichloroethane	ug/l	5	5	5	5	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichloropropane	ug/l	5	3	3	3	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,3,5-Trimethylbenzene	ug/l	NA	NA	100	1000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,3-Dichlorobenzene	ug/l	40	2000	40	2000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,3-Dichloropropane	ug/l	NA	NA	5000	50000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,4-Dichlorobenzene	ug/l	5	200	5	200	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,2-Dichloropropane	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Butanone (MEK)	ug/l	4000	50000	4000	50000	NA	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	0.64J	< 2.5	< 2.5	< 2.5	< 2.5
2-Chlorotoluene	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Chlorotoluene	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Isopropyltoluene	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Methyl-2-pentanone (MIBK	ug/l	350	50000	350	50000	NA	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
Acetone	ug/l	6300	50000	6300	50000	NA	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
Benzene	ug/l	5	2000	5	2000	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromobenzene	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromochloromethane	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromoform	ug/l	4	700	4	700	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromomethane	ug/l	10	7	7	7	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Carbon tetrachloride	ug/l	5	2	2	2	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chlorobenzene	ug/l	100	200	100	200	100	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chlorodibromomethane	ug/l	2	20	2	20	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chloroethane	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chloroform	ug/l	70	50	50	50	NA	< 0.50	0.63	< 0.50	< 0.50	0.51	< 0.50	0.62	< 0.50	0.25J	0.31J	0.56	< 0.50	0.71	0.22J	< 0.50	0.46J
Chloromethane	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
cis-1,2-Dichloroethene	ug/l	70	100	70	100	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.39J	< 0.50	< 0.50	< 0.50	< 0.50	0.44J	< 0.50	< 0.50
cis-1,3-Dichloropropene	ug/l	NA	NA	0.5	5	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dibromomethane	ug/l	NA	NA	5000	50000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dichlorobromomethane	ug/l	3	6	3	6	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dichlorodifluoromethane	ug/l	NA	NA	10000	100000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.17J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Ethylbenzene	ug/l	700	20000	700	5000	700	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachlorobutadiene	ug/l	0.6	1	0.6	1	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Isopropylbenzene	ug/l	NA	NA	10000	100000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Methyl tert-butyl ethe	ug/l	70	50000	70	5000	NA	< 0.50	< 0.50	0.17J	< 0.50	< 0.50	< 0.50	< 0.50	0.20J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Methylene Chloride	ug/l	5	10000	5	10000	5	< 0.50	< 0.50	< 0.50	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
m-Xylene & p-Xylene	ug/l	10000	9000	5000	5000	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene	ug/l	140	1000	140	1000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
n-Butylbenzene	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
N-Propylbenzene	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
o-Xylene	ug/l	10000	9000	5000	5000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Styrene	ug/l	100	100	100	100	100	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
t-Butanol	ug/l	NA	NA	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
tert-Butylbenzene	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Tetrachloroethene	ug/l	5	50	5	50	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Toluene	ug/l	1000	50000	1000	40000	1000	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
trans-1,2-Dichloroethene	ug/l	100	90	90	90	100	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
trans-1,3-Dichloropropene	ug/l	NA	NA	0.5	5	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Trichloroethene	ug/l	5	30	5	30	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Trichlorofluoromethane	ug/l	NA	NA	10000	100000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Trihalomethanes, Tota	ug/l	NA	NA	NA	NA	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Vinyl chloride	ug/l	2	2	2	2	2	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Xylenes, Tota	ug/l	10000	9000	5000	5000	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Semivolatiles by 522 MOD																						
1,4-Dioxane	ug/l	3	6000	3	6000	NA	0.075J	< 0.20	< 0.20		0.060J	0.10J	0.19J	0.10J	0.29	0.058J	0.11J	< 0.20	0.072J	0.21	< 0.20	0.081J

Notes:
ug/l - micrograms/liter
* - LCS or LCSD exceeds the control limits
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate valu
GW1 - Concentrations based on the use of groundwater as drinking water, either currently or in the foreseeable futu
GW2 - Concentrations based on the potential for volatile material to migrate into indoor a
GW3 - Concentrations based on the potential environmental effects resulting from contaminated groundwater discharging to surface wat
RC - Risk Characterization approach, Standards may be supplemented or modified with site- and chemical-specific informatic
UCL - Upper Concentration Limits in groundwater and soil are promulgated to minimize potential risks associated with uncontrolled environmental contamination, and the costs associated with cumulative anthropogenic contributions to backgr

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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TestAmerica Job ID: 480-37443-1
Client Project/Site: Eastham Landfill IRA

For:
Bennett Environmental Associates, Inc.
1573 Main St.
Brewster, Massachusetts 02631

Attn: David Bennett

Authorized for release by:
5/9/2013 9:54:46 AM

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37443-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD exceeds the control limits

GC/MS Semi VOA

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37443-1

Job ID: 480-37443-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-37443-1

Comments
No additional comments.

Receipt
The samples were received on 5/2/2013 1:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 3.2º C and 4.1º C.

GC/MS VOA
Method(s) 524.2: The laboratory control sample (LCS) for batch 116540 recovered outside control limits for the following analyte: Dichlorodifluoromethane. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

No other analytical or quality issues were noted.

GC/MS Semi VOA
Method(s) 522MOD: No analytical or quality issues were noted.

Detection Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37443-1

Client Sample ID: Trip #041013 — Lab Sample ID: 480-37443-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.51		0.50	0.25	ug/L	1		524.2	Total/NA

Client Sample ID: 171B Meetinghouse — Lab Sample ID: 480-37443-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.32	J	0.50	0.14	ug/L	1		524.2	Total/NA
Methyl tert-butyl ether	0.19	J	0.50	0.12	ug/L	1		524.2	Total/NA
1,4-Dioxane	0.58		0.20	0.041	ug/L	1		522 MOD	Total/NA

Client Sample ID: 45 Knowles — Lab Sample ID: 480-37443-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.23	J	0.50	0.074	ug/L	1		524.2	Total/NA
Benzene	0.23	J	0.50	0.13	ug/L	1		524.2	Total/NA
cis-1,2-Dichloroethene	1.0		0.50	0.12	ug/L	1		524.2	Total/NA
Dichlorodifluoromethane	0.22	J	0.50	0.070	ug/L	1		524.2	Total/NA
Methyl tert-butyl ether	0.45	J	0.50	0.12	ug/L	1		524.2	Total/NA
t-Butanol	3.5	J	10	2.5	ug/L	1		524.2	Total/NA
Vinyl chloride	0.19	J	0.50	0.059	ug/L	1		524.2	Total/NA
1,4-Dioxane	2.3		0.20	0.041	ug/L	1		522 MOD	Total/NA

Client Sample ID: 55 Surry — Lab Sample ID: 480-37443-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.28	J	0.50	0.14	ug/L	1		524.2	Total/NA
Methyl tert-butyl ether	0.26	J	0.50	0.12	ug/L	1		524.2	Total/NA

Client Sample ID: 80 Kettle Hole — Lab Sample ID: 480-37443-8

No Detections.

Client Sample ID: 180 Meetinghouse — Lab Sample ID: 480-37443-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.35	J	0.50	0.14	ug/L	1		524.2	Total/NA

Client Sample ID: 35 Sharon Circle — Lab Sample ID: 480-37443-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.39	J	0.50	0.14	ug/L	1		524.2	Total/NA
1,4-Dioxane	0.34		0.20	0.041	ug/L	1		522 MOD	Total/NA

Client Sample ID: 60 Briggs Field — Lab Sample ID: 480-37443-14

No Detections.

Client Sample ID: 80 Deerfield — Lab Sample ID: 480-37443-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.88		0.50	0.14	ug/L	1		524.2	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37443-1

Client Sample ID: 40 Deerfield — Lab Sample ID: 480-37443-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.39	J	0.50	0.14	ug/L	1		524.2	Total/NA

Client Sample ID: 200 Alston — Lab Sample ID: 480-37443-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.15	J	0.50	0.14	ug/L	1		524.2	Total/NA
1,4-Dioxane	0.21		0.20	0.041	ug/L	1		522 MOD	Total/NA

Client Sample ID: 10 Deerfield — Lab Sample ID: 480-37443-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloromethane	0.080	J	0.50	0.063	ug/L	1		524.2	Total/NA
1,4-Dioxane	0.052	J	0.20	0.041	ug/L	1		522 MOD	Total/NA

Client Sample ID: 60 Fairview — Lab Sample ID: 480-37443-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.61		0.50	0.14	ug/L	1		524.2	Total/NA
1,4-Dioxane	0.041	J	0.20	0.041	ug/L	1		522 MOD	Total/NA

Client Sample ID: Trip Blank 041013 — Lab Sample ID: 480-37443-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.41	J	0.50	0.25	ug/L	1		524.2	Total/NA

Client Sample ID: 50 Alston — Lab Sample ID: 480-37443-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.28	J	0.50	0.074	ug/L	1		524.2	Total/NA
Toluene	0.14	J	0.50	0.10	ug/L	1		524.2	Total/NA
1,4-Dioxane	0.18	J	0.20	0.041	ug/L	1		522 MOD	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37443-1

Client Sample ID: Trip #041013
Date Collected: 05/01/13 00:00
Date Received: 05/02/13 01:45

Lab Sample ID: 480-37443-1
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/02/13 16:04	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/02/13 16:04	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/02/13 16:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/02/13 16:04	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/02/13 16:04	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/02/13 16:04	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/02/13 16:04	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/02/13 16:04	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/02/13 16:04	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/02/13 16:04	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/02/13 16:04	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/02/13 16:04	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/02/13 16:04	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/02/13 16:04	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/02/13 16:04	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/02/13 16:04	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/02/13 16:04	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/02/13 16:04	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/02/13 16:04	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/02/13 16:04	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/02/13 16:04	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/02/13 16:04	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/02/13 16:04	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/02/13 16:04	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/02/13 16:04	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/02/13 16:04	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/02/13 16:04	1
Acetone	ND		2.5	0.54	ug/L			05/02/13 16:04	1
Benzene	ND		0.50	0.13	ug/L			05/02/13 16:04	1
Bromobenzene	ND		0.50	0.13	ug/L			05/02/13 16:04	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/02/13 16:04	1
Bromoform	ND		0.50	0.13	ug/L			05/02/13 16:04	1
Bromomethane	ND		0.50	0.051	ug/L			05/02/13 16:04	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/02/13 16:04	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/02/13 16:04	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/02/13 16:04	1
Chloroethane	ND		0.50	0.070	ug/L			05/02/13 16:04	1
Chloroform	ND		0.50	0.14	ug/L			05/02/13 16:04	1
Chloromethane	ND		0.50	0.063	ug/L			05/02/13 16:04	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/02/13 16:04	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/02/13 16:04	1
Dibromomethane	ND		0.50	0.17	ug/L			05/02/13 16:04	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/02/13 16:04	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/02/13 16:04	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/02/13 16:04	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/02/13 16:04	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/02/13 16:04	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/02/13 16:04	1
Methylene Chloride	**0.51**		0.50	0.25	ug/L			05/02/13 16:04	1

Client Sample ID: Trip #041013
Date Collected: 05/01/13 00:00
Date Received: 05/02/13 01:45

Lab Sample ID: 480-37443-1
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/02/13 16:04	1
Naphthalene	ND		0.50	0.060	ug/L			05/02/13 16:04	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/02/13 16:04	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/02/13 16:04	1
o-Xylene	ND		0.50	0.044	ug/L			05/02/13 16:04	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/02/13 16:04	1
Styrene	ND		0.50	0.044	ug/L			05/02/13 16:04	1
t-Butanol	ND		10	2.5	ug/L			05/02/13 16:04	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/02/13 16:04	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/02/13 16:04	1
Toluene	ND		0.50	0.10	ug/L			05/02/13 16:04	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/02/13 16:04	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/02/13 16:04	1
Trichloroethene	ND		0.50	0.060	ug/L			05/02/13 16:04	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/02/13 16:04	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/02/13 16:04	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/02/13 16:04	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/02/13 16:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*98*		*80 - 120*		*05/02/13 16:04*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*05/02/13 16:04*	*1*

Client Sample ID: 171B Meetinghouse
Date Collected: 05/01/13 09:25
Date Received: 05/02/13 01:45

Lab Sample ID: 480-37443-2
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/02/13 16:28	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/02/13 16:28	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/02/13 16:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/02/13 16:28	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/02/13 16:28	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/02/13 16:28	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/02/13 16:28	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/02/13 16:28	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/02/13 16:28	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/02/13 16:28	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/02/13 16:28	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/02/13 16:28	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/02/13 16:28	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/02/13 16:28	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/02/13 16:28	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/02/13 16:28	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/02/13 16:28	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/02/13 16:28	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/02/13 16:28	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/02/13 16:28	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/02/13 16:28	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37443-1

Client Sample ID: 171B Meetinghouse
Date Collected: 05/01/13 09:25
Date Received: 05/02/13 01:45

Lab Sample ID: 480-37443-2
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/02/13 16:28	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/02/13 16:28	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/02/13 16:28	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/02/13 16:28	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/02/13 16:28	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/02/13 16:28	1
Acetone	ND		2.5	0.54	ug/L			05/02/13 16:28	1
Benzene	ND		0.50	0.13	ug/L			05/02/13 16:28	1
Bromobenzene	ND		0.50	0.13	ug/L			05/02/13 16:28	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/02/13 16:28	1
Bromoform	ND		0.50	0.13	ug/L			05/02/13 16:28	1
Bromomethane	ND		0.50	0.051	ug/L			05/02/13 16:28	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/02/13 16:28	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/02/13 16:28	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/02/13 16:28	1
Chloroethane	ND		0.50	0.070	ug/L			05/02/13 16:28	1
Chloroform	**0.32**	**J**	0.50	0.14	ug/L			05/02/13 16:28	1
Chloromethane	ND		0.50	0.063	ug/L			05/02/13 16:28	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/02/13 16:28	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/02/13 16:28	1
Dibromomethane	ND		0.50	0.17	ug/L			05/02/13 16:28	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/02/13 16:28	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/02/13 16:28	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/02/13 16:28	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/02/13 16:28	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/02/13 16:28	1
Methyl tert-butyl ether	**0.19**	**J**	0.50	0.12	ug/L			05/02/13 16:28	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/02/13 16:28	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/02/13 16:28	1
Naphthalene	ND		0.50	0.060	ug/L			05/02/13 16:28	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/02/13 16:28	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/02/13 16:28	1
o-Xylene	ND		0.50	0.044	ug/L			05/02/13 16:28	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/02/13 16:28	1
Styrene	ND		0.50	0.044	ug/L			05/02/13 16:28	1
t-Butanol	ND		10	2.5	ug/L			05/02/13 16:28	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/02/13 16:28	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/02/13 16:28	1
Toluene	ND		0.50	0.10	ug/L			05/02/13 16:28	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/02/13 16:28	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/02/13 16:28	1
Trichloroethene	ND		0.50	0.060	ug/L			05/02/13 16:28	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/02/13 16:28	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/02/13 16:28	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/02/13 16:28	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/02/13 16:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*100*		*80 - 120*		*05/02/13 16:28*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*05/02/13 16:28*	*1*

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37443-1

Client Sample ID: 171B Meetinghouse

Lab Sample ID: 480-37443-2

Date Collected: 05/01/13 09:25

Matrix: Water

Date Received: 05/02/13 01:45

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**0.58**		0.20	0.041	ug/L		05/07/13 09:33	05/07/13 13:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*92*		*70 - 130*	*05/07/13 09:33*	*05/07/13 13:52*	*1*

Client Sample ID: 45 Knowles

Lab Sample ID: 480-37443-4

Date Collected: 05/01/13 10:15

Matrix: Water

Date Received: 05/02/13 01:45

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/02/13 17:18	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/02/13 17:18	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/02/13 17:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/02/13 17:18	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/02/13 17:18	1
1,1-Dichloroethane	**0.23**	**J**	0.50	0.074	ug/L			05/02/13 17:18	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/02/13 17:18	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/02/13 17:18	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/02/13 17:18	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/02/13 17:18	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/02/13 17:18	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/02/13 17:18	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/02/13 17:18	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/02/13 17:18	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/02/13 17:18	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/02/13 17:18	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/02/13 17:18	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/02/13 17:18	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/02/13 17:18	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/02/13 17:18	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/02/13 17:18	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/02/13 17:18	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/02/13 17:18	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/02/13 17:18	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/02/13 17:18	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/02/13 17:18	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/02/13 17:18	1
Acetone	ND		2.5	0.54	ug/L			05/02/13 17:18	1
Benzene	**0.23**	**J**	0.50	0.13	ug/L			05/02/13 17:18	1
Bromobenzene	ND		0.50	0.13	ug/L			05/02/13 17:18	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/02/13 17:18	1
Bromoform	ND		0.50	0.13	ug/L			05/02/13 17:18	1
Bromomethane	ND		0.50	0.051	ug/L			05/02/13 17:18	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/02/13 17:18	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/02/13 17:18	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/02/13 17:18	1
Chloroethane	ND		0.50	0.070	ug/L			05/02/13 17:18	1
Chloroform	ND		0.50	0.14	ug/L			05/02/13 17:18	1
Chloromethane	ND		0.50	0.063	ug/L			05/02/13 17:18	1

Client Sample ID: 45 Knowles

Lab Sample ID: 480-37443-4

Date Collected: 05/01/13 10:15

Matrix: Water

Date Received: 05/02/13 01:45

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**1.0**		0.50	0.12	ug/L			05/02/13 17:18	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/02/13 17:18	1
Dibromomethane	ND		0.50	0.17	ug/L			05/02/13 17:18	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/02/13 17:18	1
Dichlorodifluoromethane	**0.22**	**J**	0.50	0.070	ug/L			05/02/13 17:18	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/02/13 17:18	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/02/13 17:18	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/02/13 17:18	1
Methyl tert-butyl ether	**0.45**	**J**	0.50	0.12	ug/L			05/02/13 17:18	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/02/13 17:18	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/02/13 17:18	1
Naphthalene	ND		0.50	0.060	ug/L			05/02/13 17:18	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/02/13 17:18	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/02/13 17:18	1
o-Xylene	ND		0.50	0.044	ug/L			05/02/13 17:18	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/02/13 17:18	1
Styrene	ND		0.50	0.044	ug/L			05/02/13 17:18	1
t-Butanol	**3.5**	**J**	10	2.5	ug/L			05/02/13 17:18	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/02/13 17:18	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/02/13 17:18	1
Toluene	ND		0.50	0.10	ug/L			05/02/13 17:18	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/02/13 17:18	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/02/13 17:18	1
Trichloroethene	ND		0.50	0.060	ug/L			05/02/13 17:18	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/02/13 17:18	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/02/13 17:18	1
Vinyl chloride	**0.19**	**J**	0.50	0.059	ug/L			05/02/13 17:18	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/02/13 17:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*101*		*80 - 120*		*05/02/13 17:18*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*05/02/13 17:18*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**2.3**		0.20	0.041	ug/L		05/07/13 09:33	05/07/13 14:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*87*		*70 - 130*	*05/07/13 09:33*	*05/07/13 14:09*	*1*

Client Sample ID: 55 Surry

Lab Sample ID: 480-37443-6

Date Collected: 05/01/13 11:05

Matrix: Water

Date Received: 05/02/13 01:45

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/02/13 18:07	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/02/13 18:07	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/02/13 18:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/02/13 18:07	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37443-1

Client Sample ID: 55 Surry
Date Collected: 05/01/13 11:05
Date Received: 05/02/13 01:45

Lab Sample ID: 480-37443-6
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/02/13 18:07	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/02/13 18:07	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/02/13 18:07	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/02/13 18:07	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/02/13 18:07	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/02/13 18:07	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/02/13 18:07	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/02/13 18:07	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/02/13 18:07	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/02/13 18:07	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/02/13 18:07	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/02/13 18:07	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/02/13 18:07	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/02/13 18:07	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/02/13 18:07	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/02/13 18:07	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/02/13 18:07	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/02/13 18:07	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/02/13 18:07	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/02/13 18:07	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/02/13 18:07	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/02/13 18:07	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/02/13 18:07	1
Acetone	ND		2.5	0.54	ug/L			05/02/13 18:07	1
Benzene	ND		0.50	0.13	ug/L			05/02/13 18:07	1
Bromobenzene	ND		0.50	0.13	ug/L			05/02/13 18:07	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/02/13 18:07	1
Bromoform	ND		0.50	0.13	ug/L			05/02/13 18:07	1
Bromomethane	ND		0.50	0.051	ug/L			05/02/13 18:07	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/02/13 18:07	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/02/13 18:07	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/02/13 18:07	1
Chloroethane	ND		0.50	0.070	ug/L			05/02/13 18:07	1
Chloroform	**0.28**	**J**	0.50	0.14	ug/L			05/02/13 18:07	1
Chloromethane	ND		0.50	0.063	ug/L			05/02/13 18:07	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/02/13 18:07	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/02/13 18:07	1
Dibromomethane	ND		0.50	0.17	ug/L			05/02/13 18:07	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/02/13 18:07	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/02/13 18:07	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/02/13 18:07	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/02/13 18:07	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/02/13 18:07	1
Methyl tert-butyl ether	**0.26**	**J**	0.50	0.12	ug/L			05/02/13 18:07	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/02/13 18:07	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/02/13 18:07	1
Naphthalene	ND		0.50	0.060	ug/L			05/02/13 18:07	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/02/13 18:07	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/02/13 18:07	1

Client Sample ID: 55 Surry

Lab Sample ID: 480-37443-6

Date Collected: 05/01/13 11:05

Matrix: Water

Date Received: 05/02/13 01:45

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		0.50	0.044	ug/L			05/02/13 18:07	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/02/13 18:07	1
Styrene	ND		0.50	0.044	ug/L			05/02/13 18:07	1
t-Butanol	ND		10	2.5	ug/L			05/02/13 18:07	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/02/13 18:07	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/02/13 18:07	1
Toluene	ND		0.50	0.10	ug/L			05/02/13 18:07	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/02/13 18:07	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/02/13 18:07	1
Trichloroethene	ND		0.50	0.060	ug/L			05/02/13 18:07	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/02/13 18:07	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/02/13 18:07	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/02/13 18:07	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/02/13 18:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*99*		*80 - 120*		*05/02/13 18:07*	*1*
4-Bromofluorobenzene (Surr)	*89*		*80 - 120*		*05/02/13 18:07*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		05/07/13 09:33	05/07/13 14:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*70*		*70 - 130*	*05/07/13 09:33*	*05/07/13 14:25*	*1*

Client Sample ID: 80 Kettle Hole

Lab Sample ID: 480-37443-8

Date Collected: 05/01/13 11:55

Matrix: Water

Date Received: 05/02/13 01:45

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/02/13 18:56	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/02/13 18:56	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/02/13 18:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/02/13 18:56	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/02/13 18:56	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/02/13 18:56	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/02/13 18:56	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/02/13 18:56	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/02/13 18:56	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/02/13 18:56	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/02/13 18:56	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/02/13 18:56	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/02/13 18:56	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/02/13 18:56	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/02/13 18:56	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/02/13 18:56	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/02/13 18:56	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/02/13 18:56	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37443-1

Client Sample ID: 80 Kettle Hole
Date Collected: 05/01/13 11:55
Date Received: 05/02/13 01:45

Lab Sample ID: 480-37443-8
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/02/13 18:56	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/02/13 18:56	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/02/13 18:56	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/02/13 18:56	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/02/13 18:56	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/02/13 18:56	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/02/13 18:56	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/02/13 18:56	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/02/13 18:56	1
Acetone	ND		2.5	0.54	ug/L			05/02/13 18:56	1
Benzene	ND		0.50	0.13	ug/L			05/02/13 18:56	1
Bromobenzene	ND		0.50	0.13	ug/L			05/02/13 18:56	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/02/13 18:56	1
Bromoform	ND		0.50	0.13	ug/L			05/02/13 18:56	1
Bromomethane	ND		0.50	0.051	ug/L			05/02/13 18:56	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/02/13 18:56	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/02/13 18:56	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/02/13 18:56	1
Chloroethane	ND		0.50	0.070	ug/L			05/02/13 18:56	1
Chloroform	ND		0.50	0.14	ug/L			05/02/13 18:56	1
Chloromethane	ND		0.50	0.063	ug/L			05/02/13 18:56	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/02/13 18:56	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/02/13 18:56	1
Dibromomethane	ND		0.50	0.17	ug/L			05/02/13 18:56	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/02/13 18:56	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/02/13 18:56	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/02/13 18:56	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/02/13 18:56	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/02/13 18:56	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/02/13 18:56	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/02/13 18:56	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/02/13 18:56	1
Naphthalene	ND		0.50	0.060	ug/L			05/02/13 18:56	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/02/13 18:56	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/02/13 18:56	1
o-Xylene	ND		0.50	0.044	ug/L			05/02/13 18:56	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/02/13 18:56	1
Styrene	ND		0.50	0.044	ug/L			05/02/13 18:56	1
t-Butanol	ND		10	2.5	ug/L			05/02/13 18:56	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/02/13 18:56	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/02/13 18:56	1
Toluene	ND		0.50	0.10	ug/L			05/02/13 18:56	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/02/13 18:56	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/02/13 18:56	1
Trichloroethene	ND		0.50	0.060	ug/L			05/02/13 18:56	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/02/13 18:56	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/02/13 18:56	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/02/13 18:56	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/02/13 18:56	1

Client Sample ID: 80 Kettle Hole

Lab Sample ID: 480-37443-8

Date Collected: 05/01/13 11:55

Matrix: Water

Date Received: 05/02/13 01:45

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	*98*		*80 - 120*		*05/02/13 18:56*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*05/02/13 18:56*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		05/07/13 09:33	05/07/13 14:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	*96*		*70 - 130*	*05/07/13 09:33*	*05/07/13 14:42*	*1*

Client Sample ID: 180 Meetinghouse

Lab Sample ID: 480-37443-10

Date Collected: 05/01/13 13:55

Matrix: Water

Date Received: 05/02/13 01:45

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/02/13 19:46	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/02/13 19:46	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/02/13 19:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/02/13 19:46	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/02/13 19:46	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/02/13 19:46	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/02/13 19:46	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/02/13 19:46	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/02/13 19:46	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/02/13 19:46	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/02/13 19:46	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/02/13 19:46	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/02/13 19:46	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/02/13 19:46	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/02/13 19:46	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/02/13 19:46	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/02/13 19:46	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/02/13 19:46	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/02/13 19:46	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/02/13 19:46	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/02/13 19:46	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/02/13 19:46	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/02/13 19:46	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/02/13 19:46	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/02/13 19:46	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/02/13 19:46	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/02/13 19:46	1
Acetone	ND		2.5	0.54	ug/L			05/02/13 19:46	1
Benzene	ND		0.50	0.13	ug/L			05/02/13 19:46	1
Bromobenzene	ND		0.50	0.13	ug/L			05/02/13 19:46	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/02/13 19:46	1
Bromoform	ND		0.50	0.13	ug/L			05/02/13 19:46	1
Bromomethane	ND		0.50	0.051	ug/L			05/02/13 19:46	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/02/13 19:46	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/02/13 19:46	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37443-1

Client Sample ID: 180 Meetinghouse
Date Collected: 05/01/13 13:55
Date Received: 05/02/13 01:45

Lab Sample ID: 480-37443-10
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/02/13 19:46	1
Chloroethane	ND		0.50	0.070	ug/L			05/02/13 19:46	1
Chloroform	**0.35**	**J**	0.50	0.14	ug/L			05/02/13 19:46	1
Chloromethane	ND		0.50	0.063	ug/L			05/02/13 19:46	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/02/13 19:46	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/02/13 19:46	1
Dibromomethane	ND		0.50	0.17	ug/L			05/02/13 19:46	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/02/13 19:46	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/02/13 19:46	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/02/13 19:46	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/02/13 19:46	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/02/13 19:46	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/02/13 19:46	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/02/13 19:46	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/02/13 19:46	1
Naphthalene	ND		0.50	0.060	ug/L			05/02/13 19:46	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/02/13 19:46	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/02/13 19:46	1
o-Xylene	ND		0.50	0.044	ug/L			05/02/13 19:46	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/02/13 19:46	1
Styrene	ND		0.50	0.044	ug/L			05/02/13 19:46	1
t-Butanol	ND		10	2.5	ug/L			05/02/13 19:46	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/02/13 19:46	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/02/13 19:46	1
Toluene	ND		0.50	0.10	ug/L			05/02/13 19:46	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/02/13 19:46	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/02/13 19:46	1
Trichloroethene	ND		0.50	0.060	ug/L			05/02/13 19:46	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/02/13 19:46	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/02/13 19:46	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/02/13 19:46	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/02/13 19:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*99*		*80 - 120*		*05/02/13 19:46*	*1*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*		*05/02/13 19:46*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		05/07/13 09:33	05/07/13 14:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*97*		*70 - 130*	*05/07/13 09:33*	*05/07/13 14:58*	*1*

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37443-1

Client Sample ID: 35 Sharon Circle
Date Collected: 05/01/13 14:55
Date Received: 05/02/13 01:45

Lab Sample ID: 480-37443-12
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/03/13 01:50	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/03/13 01:50	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/03/13 01:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/03/13 01:50	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/03/13 01:50	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/03/13 01:50	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/03/13 01:50	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/03/13 01:50	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/03/13 01:50	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/03/13 01:50	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/03/13 01:50	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/03/13 01:50	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/03/13 01:50	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/03/13 01:50	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/03/13 01:50	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/03/13 01:50	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/03/13 01:50	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/03/13 01:50	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/03/13 01:50	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/03/13 01:50	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/03/13 01:50	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/03/13 01:50	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/03/13 01:50	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/03/13 01:50	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/03/13 01:50	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/03/13 01:50	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/03/13 01:50	1
Acetone	ND		2.5	0.54	ug/L			05/03/13 01:50	1
Benzene	ND		0.50	0.13	ug/L			05/03/13 01:50	1
Bromobenzene	ND		0.50	0.13	ug/L			05/03/13 01:50	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/03/13 01:50	1
Bromoform	ND		0.50	0.13	ug/L			05/03/13 01:50	1
Bromomethane	ND		0.50	0.051	ug/L			05/03/13 01:50	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/03/13 01:50	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/03/13 01:50	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/03/13 01:50	1
Chloroethane	ND		0.50	0.070	ug/L			05/03/13 01:50	1
Chloroform	**0.39**	**J**	0.50	0.14	ug/L			05/03/13 01:50	1
Chloromethane	ND		0.50	0.063	ug/L			05/03/13 01:50	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/03/13 01:50	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/03/13 01:50	1
Dibromomethane	ND		0.50	0.17	ug/L			05/03/13 01:50	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/03/13 01:50	1
Dichlorodifluoromethane	ND	*	0.50	0.070	ug/L			05/03/13 01:50	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/03/13 01:50	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/03/13 01:50	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/03/13 01:50	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/03/13 01:50	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/03/13 01:50	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37443-1

Client Sample ID: 35 Sharon Circle

Lab Sample ID: 480-37443-12

Date Collected: 05/01/13 14:55

Matrix: Water

Date Received: 05/02/13 01:45

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/03/13 01:50	1
Naphthalene	ND		0.50	0.060	ug/L			05/03/13 01:50	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/03/13 01:50	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/03/13 01:50	1
o-Xylene	ND		0.50	0.044	ug/L			05/03/13 01:50	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/03/13 01:50	1
Styrene	ND		0.50	0.044	ug/L			05/03/13 01:50	1
t-Butanol	ND		10	2.5	ug/L			05/03/13 01:50	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/03/13 01:50	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/03/13 01:50	1
Toluene	ND		0.50	0.10	ug/L			05/03/13 01:50	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/03/13 01:50	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/03/13 01:50	1
Trichloroethene	ND		0.50	0.060	ug/L			05/03/13 01:50	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/03/13 01:50	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/03/13 01:50	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/03/13 01:50	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/03/13 01:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*100*		*80 - 120*		*05/03/13 01:50*	*1*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*05/03/13 01:50*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**0.34**		0.20	0.041	ug/L		05/07/13 09:33	05/07/13 15:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*100*		*70 - 130*	*05/07/13 09:33*	*05/07/13 15:14*	*1*

Client Sample ID: 60 Briggs Field

Lab Sample ID: 480-37443-14

Date Collected: 05/01/13 15:35

Matrix: Water

Date Received: 05/02/13 01:45

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/03/13 02:39	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/03/13 02:39	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/03/13 02:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/03/13 02:39	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/03/13 02:39	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/03/13 02:39	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/03/13 02:39	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/03/13 02:39	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/03/13 02:39	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/03/13 02:39	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/03/13 02:39	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/03/13 02:39	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/03/13 02:39	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/03/13 02:39	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37443-1

Client Sample ID: 60 Briggs Field
Date Collected: 05/01/13 15:35
Date Received: 05/02/13 01:45

Lab Sample ID: 480-37443-14
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/03/13 02:39	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/03/13 02:39	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/03/13 02:39	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/03/13 02:39	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/03/13 02:39	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/03/13 02:39	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/03/13 02:39	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/03/13 02:39	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/03/13 02:39	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/03/13 02:39	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/03/13 02:39	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/03/13 02:39	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/03/13 02:39	1
Acetone	ND		2.5	0.54	ug/L			05/03/13 02:39	1
Benzene	ND		0.50	0.13	ug/L			05/03/13 02:39	1
Bromobenzene	ND		0.50	0.13	ug/L			05/03/13 02:39	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/03/13 02:39	1
Bromoform	ND		0.50	0.13	ug/L			05/03/13 02:39	1
Bromomethane	ND		0.50	0.051	ug/L			05/03/13 02:39	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/03/13 02:39	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/03/13 02:39	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/03/13 02:39	1
Chloroethane	ND		0.50	0.070	ug/L			05/03/13 02:39	1
Chloroform	ND		0.50	0.14	ug/L			05/03/13 02:39	1
Chloromethane	ND		0.50	0.063	ug/L			05/03/13 02:39	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/03/13 02:39	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/03/13 02:39	1
Dibromomethane	ND		0.50	0.17	ug/L			05/03/13 02:39	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/03/13 02:39	1
Dichlorodifluoromethane	ND	*	0.50	0.070	ug/L			05/03/13 02:39	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/03/13 02:39	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/03/13 02:39	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/03/13 02:39	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/03/13 02:39	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/03/13 02:39	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/03/13 02:39	1
Naphthalene	ND		0.50	0.060	ug/L			05/03/13 02:39	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/03/13 02:39	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/03/13 02:39	1
o-Xylene	ND		0.50	0.044	ug/L			05/03/13 02:39	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/03/13 02:39	1
Styrene	ND		0.50	0.044	ug/L			05/03/13 02:39	1
t-Butanol	ND		10	2.5	ug/L			05/03/13 02:39	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/03/13 02:39	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/03/13 02:39	1
Toluene	ND		0.50	0.10	ug/L			05/03/13 02:39	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/03/13 02:39	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/03/13 02:39	1
Trichloroethene	ND		0.50	0.060	ug/L			05/03/13 02:39	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37443-1

Client Sample ID: 60 Briggs Field

Lab Sample ID: 480-37443-14

Date Collected: 05/01/13 15:35
Matrix: Water
Date Received: 05/02/13 01:45

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/03/13 02:39	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/03/13 02:39	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/03/13 02:39	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/03/13 02:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*99*		*80 - 120*		*05/03/13 02:39*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*05/03/13 02:39*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		05/07/13 09:33	05/07/13 15:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*92*		*70 - 130*	*05/07/13 09:33*	*05/07/13 15:31*	*1*

Client Sample ID: 80 Deerfield

Lab Sample ID: 480-37443-16

Date Collected: 05/01/13 09:10
Matrix: Water
Date Received: 05/02/13 01:45

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/03/13 03:28	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/03/13 03:28	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/03/13 03:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/03/13 03:28	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/03/13 03:28	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/03/13 03:28	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/03/13 03:28	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/03/13 03:28	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/03/13 03:28	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/03/13 03:28	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/03/13 03:28	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/03/13 03:28	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/03/13 03:28	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/03/13 03:28	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/03/13 03:28	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/03/13 03:28	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/03/13 03:28	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/03/13 03:28	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/03/13 03:28	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/03/13 03:28	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/03/13 03:28	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/03/13 03:28	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/03/13 03:28	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/03/13 03:28	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/03/13 03:28	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/03/13 03:28	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/03/13 03:28	1
Acetone	ND		2.5	0.54	ug/L			05/03/13 03:28	1

Client Sample ID: 80 Deerfield
Date Collected: 05/01/13 09:10
Date Received: 05/02/13 01:45

Lab Sample ID: 480-37443-16
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.13	ug/L			05/03/13 03:28	1
Bromobenzene	ND		0.50	0.13	ug/L			05/03/13 03:28	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/03/13 03:28	1
Bromoform	ND		0.50	0.13	ug/L			05/03/13 03:28	1
Bromomethane	ND		0.50	0.051	ug/L			05/03/13 03:28	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/03/13 03:28	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/03/13 03:28	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/03/13 03:28	1
Chloroethane	ND		0.50	0.070	ug/L			05/03/13 03:28	1
Chloroform	**0.88**		0.50	0.14	ug/L			05/03/13 03:28	1
Chloromethane	ND		0.50	0.063	ug/L			05/03/13 03:28	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/03/13 03:28	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/03/13 03:28	1
Dibromomethane	ND		0.50	0.17	ug/L			05/03/13 03:28	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/03/13 03:28	1
Dichlorodifluoromethane	ND	*	0.50	0.070	ug/L			05/03/13 03:28	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/03/13 03:28	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/03/13 03:28	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/03/13 03:28	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/03/13 03:28	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/03/13 03:28	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/03/13 03:28	1
Naphthalene	ND		0.50	0.060	ug/L			05/03/13 03:28	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/03/13 03:28	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/03/13 03:28	1
o-Xylene	ND		0.50	0.044	ug/L			05/03/13 03:28	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/03/13 03:28	1
Styrene	ND		0.50	0.044	ug/L			05/03/13 03:28	1
t-Butanol	ND		10	2.5	ug/L			05/03/13 03:28	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/03/13 03:28	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/03/13 03:28	1
Toluene	ND		0.50	0.10	ug/L			05/03/13 03:28	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/03/13 03:28	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/03/13 03:28	1
Trichloroethene	ND		0.50	0.060	ug/L			05/03/13 03:28	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/03/13 03:28	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/03/13 03:28	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/03/13 03:28	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/03/13 03:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*99*		*80 - 120*		*05/03/13 03:28*	*1*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*		*05/03/13 03:28*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		05/07/13 09:33	05/07/13 15:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*96*		*70 - 130*	*05/07/13 09:33*	*05/07/13 15:47*	*1*

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37443-1

Client Sample ID: 40 Deerfield
Date Collected: 05/01/13 10:00
Date Received: 05/02/13 01:45

Lab Sample ID: 480-37443-18
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/03/13 04:17	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/03/13 04:17	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/03/13 04:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/03/13 04:17	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/03/13 04:17	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/03/13 04:17	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/03/13 04:17	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/03/13 04:17	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/03/13 04:17	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/03/13 04:17	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/03/13 04:17	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/03/13 04:17	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/03/13 04:17	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/03/13 04:17	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/03/13 04:17	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/03/13 04:17	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/03/13 04:17	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/03/13 04:17	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/03/13 04:17	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/03/13 04:17	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/03/13 04:17	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/03/13 04:17	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/03/13 04:17	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/03/13 04:17	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/03/13 04:17	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/03/13 04:17	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/03/13 04:17	1
Acetone	ND		2.5	0.54	ug/L			05/03/13 04:17	1
Benzene	ND		0.50	0.13	ug/L			05/03/13 04:17	1
Bromobenzene	ND		0.50	0.13	ug/L			05/03/13 04:17	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/03/13 04:17	1
Bromoform	ND		0.50	0.13	ug/L			05/03/13 04:17	1
Bromomethane	ND		0.50	0.051	ug/L			05/03/13 04:17	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/03/13 04:17	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/03/13 04:17	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/03/13 04:17	1
Chloroethane	ND		0.50	0.070	ug/L			05/03/13 04:17	1
Chloroform	**0.39**	**J**	0.50	0.14	ug/L			05/03/13 04:17	1
Chloromethane	ND		0.50	0.063	ug/L			05/03/13 04:17	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/03/13 04:17	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/03/13 04:17	1
Dibromomethane	ND		0.50	0.17	ug/L			05/03/13 04:17	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/03/13 04:17	1
Dichlorodifluoromethane	ND	*	0.50	0.070	ug/L			05/03/13 04:17	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/03/13 04:17	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/03/13 04:17	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/03/13 04:17	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/03/13 04:17	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/03/13 04:17	1

Client Sample ID: 40 Deerfield

Lab Sample ID: 480-37443-18

Date Collected: 05/01/13 10:00

Matrix: Water

Date Received: 05/02/13 01:45

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/03/13 04:17	1
Naphthalene	ND		0.50	0.060	ug/L			05/03/13 04:17	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/03/13 04:17	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/03/13 04:17	1
o-Xylene	ND		0.50	0.044	ug/L			05/03/13 04:17	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/03/13 04:17	1
Styrene	ND		0.50	0.044	ug/L			05/03/13 04:17	1
t-Butanol	ND		10	2.5	ug/L			05/03/13 04:17	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/03/13 04:17	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/03/13 04:17	1
Toluene	ND		0.50	0.10	ug/L			05/03/13 04:17	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/03/13 04:17	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/03/13 04:17	1
Trichloroethene	ND		0.50	0.060	ug/L			05/03/13 04:17	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/03/13 04:17	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/03/13 04:17	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/03/13 04:17	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/03/13 04:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*98*		*80 - 120*		*05/03/13 04:17*	*1*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*05/03/13 04:17*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		05/07/13 09:33	05/07/13 16:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*93*		*70 - 130*	*05/07/13 09:33*	*05/07/13 16:19*	*1*

Client Sample ID: 200 Alston

Lab Sample ID: 480-37443-20

Date Collected: 05/01/13 10:55

Matrix: Water

Date Received: 05/02/13 01:45

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/03/13 05:06	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/03/13 05:06	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/03/13 05:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/03/13 05:06	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/03/13 05:06	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/03/13 05:06	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/03/13 05:06	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/03/13 05:06	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/03/13 05:06	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/03/13 05:06	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/03/13 05:06	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/03/13 05:06	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/03/13 05:06	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/03/13 05:06	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37443-1

Client Sample ID: 200 Alston
Date Collected: 05/01/13 10:55
Date Received: 05/02/13 01:45

Lab Sample ID: 480-37443-20
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/03/13 05:06	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/03/13 05:06	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/03/13 05:06	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/03/13 05:06	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/03/13 05:06	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/03/13 05:06	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/03/13 05:06	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/03/13 05:06	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/03/13 05:06	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/03/13 05:06	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/03/13 05:06	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/03/13 05:06	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/03/13 05:06	1
Acetone	ND		2.5	0.54	ug/L			05/03/13 05:06	1
Benzene	ND		0.50	0.13	ug/L			05/03/13 05:06	1
Bromobenzene	ND		0.50	0.13	ug/L			05/03/13 05:06	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/03/13 05:06	1
Bromoform	ND		0.50	0.13	ug/L			05/03/13 05:06	1
Bromomethane	ND		0.50	0.051	ug/L			05/03/13 05:06	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/03/13 05:06	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/03/13 05:06	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/03/13 05:06	1
Chloroethane	ND		0.50	0.070	ug/L			05/03/13 05:06	1
Chloroform	**0.15**	**J**	0.50	0.14	ug/L			05/03/13 05:06	1
Chloromethane	ND		0.50	0.063	ug/L			05/03/13 05:06	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/03/13 05:06	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/03/13 05:06	1
Dibromomethane	ND		0.50	0.17	ug/L			05/03/13 05:06	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/03/13 05:06	1
Dichlorodifluoromethane	ND	*	0.50	0.070	ug/L			05/03/13 05:06	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/03/13 05:06	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/03/13 05:06	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/03/13 05:06	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/03/13 05:06	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/03/13 05:06	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/03/13 05:06	1
Naphthalene	ND		0.50	0.060	ug/L			05/03/13 05:06	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/03/13 05:06	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/03/13 05:06	1
o-Xylene	ND		0.50	0.044	ug/L			05/03/13 05:06	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/03/13 05:06	1
Styrene	ND		0.50	0.044	ug/L			05/03/13 05:06	1
t-Butanol	ND		10	2.5	ug/L			05/03/13 05:06	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/03/13 05:06	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/03/13 05:06	1
Toluene	ND		0.50	0.10	ug/L			05/03/13 05:06	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/03/13 05:06	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/03/13 05:06	1
Trichloroethene	ND		0.50	0.060	ug/L			05/03/13 05:06	1

Client Sample ID: 200 Alston

Lab Sample ID: 480-37443-20

Date Collected: 05/01/13 10:55

Matrix: Water

Date Received: 05/02/13 01:45

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/03/13 05:06	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/03/13 05:06	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/03/13 05:06	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/03/13 05:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*99*		*80 - 120*		*05/03/13 05:06*	*1*
4-Bromofluorobenzene (Surr)	*87*		*80 - 120*		*05/03/13 05:06*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**0.21**		0.20	0.041	ug/L		05/07/13 09:33	05/07/13 16:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*105*		*70 - 130*	*05/07/13 09:33*	*05/07/13 16:36*	*1*

Client Sample ID: 10 Deerfield

Lab Sample ID: 480-37443-22

Date Collected: 05/01/13 11:40

Matrix: Water

Date Received: 05/02/13 01:45

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/03/13 05:55	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/03/13 05:55	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/03/13 05:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/03/13 05:55	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/03/13 05:55	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/03/13 05:55	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/03/13 05:55	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/03/13 05:55	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/03/13 05:55	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/03/13 05:55	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/03/13 05:55	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/03/13 05:55	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/03/13 05:55	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/03/13 05:55	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/03/13 05:55	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/03/13 05:55	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/03/13 05:55	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/03/13 05:55	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/03/13 05:55	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/03/13 05:55	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/03/13 05:55	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/03/13 05:55	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/03/13 05:55	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/03/13 05:55	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/03/13 05:55	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/03/13 05:55	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/03/13 05:55	1
Acetone	ND		2.5	0.54	ug/L			05/03/13 05:55	1

Client Sample ID: 10 Deerfield
Date Collected: 05/01/13 11:40
Date Received: 05/02/13 01:45

Lab Sample ID: 480-37443-22
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.13	ug/L			05/03/13 05:55	1
Bromobenzene	ND		0.50	0.13	ug/L			05/03/13 05:55	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/03/13 05:55	1
Bromoform	ND		0.50	0.13	ug/L			05/03/13 05:55	1
Bromomethane	ND		0.50	0.051	ug/L			05/03/13 05:55	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/03/13 05:55	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/03/13 05:55	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/03/13 05:55	1
Chloroethane	ND		0.50	0.070	ug/L			05/03/13 05:55	1
Chloroform	ND		0.50	0.14	ug/L			05/03/13 05:55	1
Chloromethane	**0.080**	**J**	0.50	0.063	ug/L			05/03/13 05:55	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/03/13 05:55	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/03/13 05:55	1
Dibromomethane	ND		0.50	0.17	ug/L			05/03/13 05:55	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/03/13 05:55	1
Dichlorodifluoromethane	ND	*	0.50	0.070	ug/L			05/03/13 05:55	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/03/13 05:55	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/03/13 05:55	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/03/13 05:55	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/03/13 05:55	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/03/13 05:55	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/03/13 05:55	1
Naphthalene	ND		0.50	0.060	ug/L			05/03/13 05:55	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/03/13 05:55	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/03/13 05:55	1
o-Xylene	ND		0.50	0.044	ug/L			05/03/13 05:55	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/03/13 05:55	1
Styrene	ND		0.50	0.044	ug/L			05/03/13 05:55	1
t-Butanol	ND		10	2.5	ug/L			05/03/13 05:55	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/03/13 05:55	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/03/13 05:55	1
Toluene	ND		0.50	0.10	ug/L			05/03/13 05:55	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/03/13 05:55	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/03/13 05:55	1
Trichloroethene	ND		0.50	0.060	ug/L			05/03/13 05:55	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/03/13 05:55	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/03/13 05:55	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/03/13 05:55	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/03/13 05:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*97*		*80 - 120*		*05/03/13 05:55*	*1*
4-Bromofluorobenzene (Surr)	*89*		*80 - 120*		*05/03/13 05:55*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**0.052**	**J**	0.20	0.041	ug/L		05/07/13 09:33	05/07/13 16:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*97*		*70 - 130*	*05/07/13 09:33*	*05/07/13 16:52*	*1*

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37443-1

Client Sample ID: 60 Fairview
Date Collected: 05/01/13 13:55
Date Received: 05/02/13 01:45

Lab Sample ID: 480-37443-24
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/03/13 06:44	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/03/13 06:44	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/03/13 06:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/03/13 06:44	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/03/13 06:44	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/03/13 06:44	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/03/13 06:44	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/03/13 06:44	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/03/13 06:44	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/03/13 06:44	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/03/13 06:44	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/03/13 06:44	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/03/13 06:44	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/03/13 06:44	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/03/13 06:44	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/03/13 06:44	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/03/13 06:44	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/03/13 06:44	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/03/13 06:44	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/03/13 06:44	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/03/13 06:44	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/03/13 06:44	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/03/13 06:44	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/03/13 06:44	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/03/13 06:44	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/03/13 06:44	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/03/13 06:44	1
Acetone	ND		2.5	0.54	ug/L			05/03/13 06:44	1
Benzene	ND		0.50	0.13	ug/L			05/03/13 06:44	1
Bromobenzene	ND		0.50	0.13	ug/L			05/03/13 06:44	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/03/13 06:44	1
Bromoform	ND		0.50	0.13	ug/L			05/03/13 06:44	1
Bromomethane	ND		0.50	0.051	ug/L			05/03/13 06:44	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/03/13 06:44	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/03/13 06:44	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/03/13 06:44	1
Chloroethane	ND		0.50	0.070	ug/L			05/03/13 06:44	1
Chloroform	**0.61**		0.50	0.14	ug/L			05/03/13 06:44	1
Chloromethane	ND		0.50	0.063	ug/L			05/03/13 06:44	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/03/13 06:44	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/03/13 06:44	1
Dibromomethane	ND		0.50	0.17	ug/L			05/03/13 06:44	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/03/13 06:44	1
Dichlorodifluoromethane	ND	*	0.50	0.070	ug/L			05/03/13 06:44	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/03/13 06:44	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/03/13 06:44	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/03/13 06:44	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/03/13 06:44	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/03/13 06:44	1

Client Sample ID: 60 Fairview

Lab Sample ID: 480-37443-24

Date Collected: 05/01/13 13:55

Matrix: Water

Date Received: 05/02/13 01:45

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/03/13 06:44	1
Naphthalene	ND		0.50	0.060	ug/L			05/03/13 06:44	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/03/13 06:44	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/03/13 06:44	1
o-Xylene	ND		0.50	0.044	ug/L			05/03/13 06:44	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/03/13 06:44	1
Styrene	ND		0.50	0.044	ug/L			05/03/13 06:44	1
t-Butanol	ND		10	2.5	ug/L			05/03/13 06:44	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/03/13 06:44	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/03/13 06:44	1
Toluene	ND		0.50	0.10	ug/L			05/03/13 06:44	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/03/13 06:44	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/03/13 06:44	1
Trichloroethene	ND		0.50	0.060	ug/L			05/03/13 06:44	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/03/13 06:44	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/03/13 06:44	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/03/13 06:44	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/03/13 06:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*96*		*80 - 120*		*05/03/13 06:44*	*1*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*		*05/03/13 06:44*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**0.041**	**J**	0.20	0.041	ug/L		05/07/13 09:33	05/07/13 17:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*93*		*70 - 130*	*05/07/13 09:33*	*05/07/13 17:09*	*1*

Client Sample ID: Trip Blank 041013

Lab Sample ID: 480-37443-26

Date Collected: 05/01/13 00:00

Matrix: Water

Date Received: 05/02/13 01:45

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/03/13 07:33	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/03/13 07:33	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/03/13 07:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/03/13 07:33	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/03/13 07:33	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/03/13 07:33	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/03/13 07:33	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/03/13 07:33	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/03/13 07:33	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/03/13 07:33	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/03/13 07:33	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/03/13 07:33	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/03/13 07:33	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/03/13 07:33	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37443-1

Client Sample ID: Trip Blank 041013
Date Collected: 05/01/13 00:00
Date Received: 05/02/13 01:45

Lab Sample ID: 480-37443-26
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/03/13 07:33	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/03/13 07:33	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/03/13 07:33	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/03/13 07:33	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/03/13 07:33	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/03/13 07:33	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/03/13 07:33	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/03/13 07:33	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/03/13 07:33	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/03/13 07:33	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/03/13 07:33	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/03/13 07:33	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/03/13 07:33	1
Acetone	ND		2.5	0.54	ug/L			05/03/13 07:33	1
Benzene	ND		0.50	0.13	ug/L			05/03/13 07:33	1
Bromobenzene	ND		0.50	0.13	ug/L			05/03/13 07:33	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/03/13 07:33	1
Bromoform	ND		0.50	0.13	ug/L			05/03/13 07:33	1
Bromomethane	ND		0.50	0.051	ug/L			05/03/13 07:33	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/03/13 07:33	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/03/13 07:33	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/03/13 07:33	1
Chloroethane	ND		0.50	0.070	ug/L			05/03/13 07:33	1
Chloroform	ND		0.50	0.14	ug/L			05/03/13 07:33	1
Chloromethane	ND		0.50	0.063	ug/L			05/03/13 07:33	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/03/13 07:33	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/03/13 07:33	1
Dibromomethane	ND		0.50	0.17	ug/L			05/03/13 07:33	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/03/13 07:33	1
Dichlorodifluoromethane	ND	*	0.50	0.070	ug/L			05/03/13 07:33	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/03/13 07:33	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/03/13 07:33	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/03/13 07:33	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/03/13 07:33	1
Methylene Chloride	**0.41**	**J**	0.50	0.25	ug/L			05/03/13 07:33	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/03/13 07:33	1
Naphthalene	ND		0.50	0.060	ug/L			05/03/13 07:33	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/03/13 07:33	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/03/13 07:33	1
o-Xylene	ND		0.50	0.044	ug/L			05/03/13 07:33	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/03/13 07:33	1
Styrene	ND		0.50	0.044	ug/L			05/03/13 07:33	1
t-Butanol	ND		10	2.5	ug/L			05/03/13 07:33	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/03/13 07:33	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/03/13 07:33	1
Toluene	ND		0.50	0.10	ug/L			05/03/13 07:33	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/03/13 07:33	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/03/13 07:33	1
Trichloroethene	ND		0.50	0.060	ug/L			05/03/13 07:33	1

Client Sample ID: Trip Blank 041013

Lab Sample ID: 480-37443-26

Date Collected: 05/01/13 00:00

Matrix: Water

Date Received: 05/02/13 01:45

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/03/13 07:33	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/03/13 07:33	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/03/13 07:33	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/03/13 07:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*98*		*80 - 120*		*05/03/13 07:33*	*1*
4-Bromofluorobenzene (Surr)	*89*		*80 - 120*		*05/03/13 07:33*	*1*

Client Sample ID: 50 Alston

Lab Sample ID: 480-37443-27

Date Collected: 05/01/13 14:50

Matrix: Water

Date Received: 05/02/13 01:45

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/03/13 07:57	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/03/13 07:57	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/03/13 07:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/03/13 07:57	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/03/13 07:57	1
1,1-Dichloroethane	**0.28**	**J**	0.50	0.074	ug/L			05/03/13 07:57	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/03/13 07:57	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/03/13 07:57	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/03/13 07:57	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/03/13 07:57	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/03/13 07:57	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/03/13 07:57	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/03/13 07:57	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/03/13 07:57	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/03/13 07:57	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/03/13 07:57	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/03/13 07:57	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/03/13 07:57	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/03/13 07:57	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/03/13 07:57	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/03/13 07:57	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/03/13 07:57	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/03/13 07:57	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/03/13 07:57	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/03/13 07:57	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/03/13 07:57	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/03/13 07:57	1
Acetone	ND		2.5	0.54	ug/L			05/03/13 07:57	1
Benzene	ND		0.50	0.13	ug/L			05/03/13 07:57	1
Bromobenzene	ND		0.50	0.13	ug/L			05/03/13 07:57	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/03/13 07:57	1
Bromoform	ND		0.50	0.13	ug/L			05/03/13 07:57	1
Bromomethane	ND		0.50	0.051	ug/L			05/03/13 07:57	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/03/13 07:57	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/03/13 07:57	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37443-1

Client Sample ID: 50 Alston
Date Collected: 05/01/13 14:50
Date Received: 05/02/13 01:45

Lab Sample ID: 480-37443-27
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/03/13 07:57	1
Chloroethane	ND		0.50	0.070	ug/L			05/03/13 07:57	1
Chloroform	ND		0.50	0.14	ug/L			05/03/13 07:57	1
Chloromethane	ND		0.50	0.063	ug/L			05/03/13 07:57	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/03/13 07:57	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/03/13 07:57	1
Dibromomethane	ND		0.50	0.17	ug/L			05/03/13 07:57	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/03/13 07:57	1
Dichlorodifluoromethane	ND	*	0.50	0.070	ug/L			05/03/13 07:57	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/03/13 07:57	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/03/13 07:57	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/03/13 07:57	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/03/13 07:57	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/03/13 07:57	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/03/13 07:57	1
Naphthalene	ND		0.50	0.060	ug/L			05/03/13 07:57	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/03/13 07:57	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/03/13 07:57	1
o-Xylene	ND		0.50	0.044	ug/L			05/03/13 07:57	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/03/13 07:57	1
Styrene	ND		0.50	0.044	ug/L			05/03/13 07:57	1
t-Butanol	ND		10	2.5	ug/L			05/03/13 07:57	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/03/13 07:57	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/03/13 07:57	1
Toluene	**0.14**	**J**	0.50	0.10	ug/L			05/03/13 07:57	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/03/13 07:57	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/03/13 07:57	1
Trichloroethene	ND		0.50	0.060	ug/L			05/03/13 07:57	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/03/13 07:57	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/03/13 07:57	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/03/13 07:57	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/03/13 07:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*97*		*80 - 120*		*05/03/13 07:57*	*1*
4-Bromofluorobenzene (Surr)	*88*		*80 - 120*		*05/03/13 07:57*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**0.18**	**J**	0.20	0.041	ug/L		05/07/13 09:33	05/07/13 17:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*94*		*70 - 130*	*05/07/13 09:33*	*05/07/13 17:25*	*1*

Surrogate Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37443-1

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	12DCB (80-120)	BFB (80-120)						
480-37443-1	Trip #041013	98	95						
480-37443-2	171B Meetinghouse	100	93						
480-37443-4	45 Knowles	101	92						
480-37443-6	55 Surry	99	89						
480-37443-8	80 Kettle Hole	98	92						
480-37443-10	180 Meetinghouse	99	90						
480-37443-12	35 Sharon Circle	100	91						
480-37443-14	60 Briggs Field	99	92						
480-37443-16	80 Deerfield	99	90						
480-37443-18	40 Deerfield	98	91						
480-37443-20	200 Alston	99	87						
480-37443-22	10 Deerfield	97	89						
480-37443-24	60 Fairview	96	90						
480-37443-26	Trip Blank 041013	98	89						
480-37443-27	50 Alston	97	88						
LCS 480-116392/4	Lab Control Sample	97	92						
LCS 480-116540/5	Lab Control Sample	97	90						
MB 480-116392/5	Method Blank	97	90						
MB 480-116540/6	Method Blank	97	91						

Surrogate Legend

12DCB = 1,2-Dichlorobenzene-d4

BFB = 4-Bromofluorobenzene (Surr)

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	14DD8 (70-130)							
480-37443-2	171B Meetinghouse	92							
480-37443-4	45 Knowles	87							
480-37443-6	55 Surry	70							
480-37443-8	80 Kettle Hole	96							
480-37443-10	180 Meetinghouse	97							
480-37443-12	35 Sharon Circle	100							
480-37443-14	60 Briggs Field	92							
480-37443-16	80 Deerfield	96							
480-37443-18	40 Deerfield	93							
480-37443-20	200 Alston	105							
480-37443-22	10 Deerfield	97							
480-37443-24	60 Fairview	93							
480-37443-27	50 Alston	94							
LCS 200-55200/2-A	Lab Control Sample	93							
MB 200-55200/1-A	Method Blank	93							

Surrogate Legend

14DD8 = 1,4-Dioxane-d8 (Surr)

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-116392/5
Matrix: Water
Analysis Batch: 116392

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/02/13 11:47	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/02/13 11:47	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/02/13 11:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/02/13 11:47	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/02/13 11:47	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/02/13 11:47	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/02/13 11:47	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/02/13 11:47	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/02/13 11:47	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/02/13 11:47	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/02/13 11:47	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/02/13 11:47	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/02/13 11:47	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/02/13 11:47	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/02/13 11:47	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/02/13 11:47	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/02/13 11:47	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/02/13 11:47	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/02/13 11:47	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/02/13 11:47	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/02/13 11:47	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/02/13 11:47	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/02/13 11:47	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/02/13 11:47	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/02/13 11:47	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/02/13 11:47	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/02/13 11:47	1
Acetone	ND		2.5	0.54	ug/L			05/02/13 11:47	1
Benzene	ND		0.50	0.13	ug/L			05/02/13 11:47	1
Bromobenzene	ND		0.50	0.13	ug/L			05/02/13 11:47	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/02/13 11:47	1
Bromoform	ND		0.50	0.13	ug/L			05/02/13 11:47	1
Bromomethane	ND		0.50	0.051	ug/L			05/02/13 11:47	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/02/13 11:47	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/02/13 11:47	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/02/13 11:47	1
Chloroethane	ND		0.50	0.070	ug/L			05/02/13 11:47	1
Chloroform	ND		0.50	0.14	ug/L			05/02/13 11:47	1
Chloromethane	ND		0.50	0.063	ug/L			05/02/13 11:47	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/02/13 11:47	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/02/13 11:47	1
Dibromomethane	ND		0.50	0.17	ug/L			05/02/13 11:47	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/02/13 11:47	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/02/13 11:47	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/02/13 11:47	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/02/13 11:47	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/02/13 11:47	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/02/13 11:47	1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-116392/5
Matrix: Water
Analysis Batch: 116392

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		0.50	0.25	ug/L			05/02/13 11:47	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/02/13 11:47	1
Naphthalene	ND		0.50	0.060	ug/L			05/02/13 11:47	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/02/13 11:47	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/02/13 11:47	1
o-Xylene	ND		0.50	0.044	ug/L			05/02/13 11:47	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/02/13 11:47	1
Styrene	ND		0.50	0.044	ug/L			05/02/13 11:47	1
t-Butanol	ND		10	2.5	ug/L			05/02/13 11:47	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/02/13 11:47	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/02/13 11:47	1
Toluene	ND		0.50	0.10	ug/L			05/02/13 11:47	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/02/13 11:47	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/02/13 11:47	1
Trichloroethene	ND		0.50	0.060	ug/L			05/02/13 11:47	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/02/13 11:47	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/02/13 11:47	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/02/13 11:47	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/02/13 11:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*97*		*80 - 120*		*05/02/13 11:47*	*1*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*		*05/02/13 11:47*	*1*

Lab Sample ID: LCS 480-116392/4
Matrix: Water
Analysis Batch: 116392

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	4.00	4.07		ug/L		102	70 - 130
1,1,1-Trichloroethane	4.00	3.66		ug/L		91	70 - 130
1,1,2,2-Tetrachloroethane	4.00	3.84		ug/L		96	70 - 130
1,1,2-Trichloroethane	4.00	4.12		ug/L		103	70 - 130
1,1-Dichloroethane	4.00	3.61		ug/L		90	70 - 130
1,1-Dichloroethene	4.00	3.40		ug/L		85	70 - 130
1,1-Dichloropropene	4.00	4.08		ug/L		102	70 - 130
1,2,3-Trichlorobenzene	4.00	4.57		ug/L		114	70 - 130
1,2,3-Trichloropropane	4.00	4.18		ug/L		104	70 - 130
1,2,4-Trichlorobenzene	4.00	4.14		ug/L		104	70 - 130
1,2,4-Trimethylbenzene	4.00	3.97		ug/L		99	70 - 130
1,2-Dibromo-3-Chloropropane	4.00	3.33		ug/L		83	70 - 130
1,2-Dibromoethane	4.00	4.25		ug/L		106	70 - 130
1,2-Dichlorobenzene	4.00	3.91		ug/L		98	70 - 130
1,2-Dichloroethane	4.00	3.96		ug/L		99	70 - 130
1,2-Dichloropropane	4.00	3.90		ug/L		97	70 - 130
1,3,5-Trimethylbenzene	4.00	3.94		ug/L		98	70 - 130
1,3-Dichlorobenzene	4.00	4.07		ug/L		102	70 - 130
1,3-Dichloropropane	4.00	4.27		ug/L		107	70 - 130

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-116392/4
Matrix: Water
Analysis Batch: 116392

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	4.00	4.01		ug/L		100	70 - 130
2,2-Dichloropropane	4.00	3.32		ug/L		83	70 - 130
2-Butanone (MEK)	20.0	20.1		ug/L		100	70 - 130
2-Chlorotoluene	4.00	3.94		ug/L		99	70 - 130
4-Chlorotoluene	4.00	3.87		ug/L		97	70 - 130
4-Isopropyltoluene	4.00	3.94		ug/L		99	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	20.3		ug/L		102	70 - 130
Acetone	20.0	15.5		ug/L		78	70 - 130
Benzene	4.00	4.02		ug/L		100	70 - 130
Bromobenzene	4.00	4.35		ug/L		109	70 - 130
Bromochloromethane	4.00	4.16		ug/L		104	70 - 130
Bromoform	4.00	4.15		ug/L		104	70 - 130
Bromomethane	4.00	3.99		ug/L		100	70 - 130
Carbon tetrachloride	4.00	4.04		ug/L		101	70 - 130
Chlorobenzene	4.00	4.09		ug/L		102	70 - 130
Chlorodibromomethane	4.00	4.20		ug/L		105	70 - 130
Chloroethane	4.00	4.13		ug/L		103	70 - 130
Chloroform	4.00	3.77		ug/L		94	70 - 130
Chloromethane	4.00	4.26		ug/L		106	70 - 130
cis-1,2-Dichloroethene	4.00	3.61		ug/L		90	70 - 130
cis-1,3-Dichloropropene	4.00	3.97		ug/L		99	70 - 130
Dibromomethane	4.00	4.10		ug/L		103	70 - 130
Dichlorobromomethane	4.00	3.90		ug/L		98	70 - 130
Dichlorodifluoromethane	4.00	5.08		ug/L		127	70 - 130
Ethylbenzene	4.00	3.88		ug/L		97	70 - 130
Hexachlorobutadiene	4.00	4.29		ug/L		107	70 - 130
Isopropylbenzene	4.00	3.83		ug/L		96	70 - 130
Methyl tert-butyl ether	4.00	3.91		ug/L		98	70 - 130
Methylene Chloride	4.00	3.39		ug/L		85	70 - 130
Naphthalene	4.00	4.26		ug/L		106	70 - 130
n-Butylbenzene	4.00	3.84		ug/L		96	70 - 130
N-Propylbenzene	4.00	3.98		ug/L		100	70 - 130
sec-Butylbenzene	4.00	3.91		ug/L		98	70 - 130
Styrene	4.00	3.95		ug/L		99	70 - 130
tert-Butylbenzene	4.00	4.03		ug/L		101	70 - 130
Tetrachloroethene	4.00	4.11		ug/L		103	70 - 130
Toluene	4.00	4.09		ug/L		102	70 - 130
trans-1,2-Dichloroethene	4.00	3.73		ug/L		93	70 - 130
trans-1,3-Dichloropropene	4.00	3.95		ug/L		99	70 - 130
Trichloroethene	4.00	4.01		ug/L		100	70 - 130
Trichlorofluoromethane	4.00	4.41		ug/L		110	70 - 130
Vinyl chloride	4.00	4.50		ug/L		112	70 - 130
Xylenes, Total	12.0	11.6		ug/L		97	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichlorobenzene-d4	*97*		*80 - 120*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-116540/6
Matrix: Water
Analysis Batch: 116540

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/03/13 01:15	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/03/13 01:15	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/03/13 01:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/03/13 01:15	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/03/13 01:15	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/03/13 01:15	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/03/13 01:15	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/03/13 01:15	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/03/13 01:15	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/03/13 01:15	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/03/13 01:15	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/03/13 01:15	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/03/13 01:15	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/03/13 01:15	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/03/13 01:15	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/03/13 01:15	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/03/13 01:15	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/03/13 01:15	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/03/13 01:15	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/03/13 01:15	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/03/13 01:15	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/03/13 01:15	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/03/13 01:15	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/03/13 01:15	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/03/13 01:15	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/03/13 01:15	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/03/13 01:15	1
Acetone	ND		2.5	0.54	ug/L			05/03/13 01:15	1
Benzene	ND		0.50	0.13	ug/L			05/03/13 01:15	1
Bromobenzene	ND		0.50	0.13	ug/L			05/03/13 01:15	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/03/13 01:15	1
Bromoform	ND		0.50	0.13	ug/L			05/03/13 01:15	1
Bromomethane	ND		0.50	0.051	ug/L			05/03/13 01:15	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/03/13 01:15	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/03/13 01:15	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/03/13 01:15	1
Chloroethane	ND		0.50	0.070	ug/L			05/03/13 01:15	1
Chloroform	ND		0.50	0.14	ug/L			05/03/13 01:15	1
Chloromethane	ND		0.50	0.063	ug/L			05/03/13 01:15	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/03/13 01:15	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/03/13 01:15	1
Dibromomethane	ND		0.50	0.17	ug/L			05/03/13 01:15	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/03/13 01:15	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/03/13 01:15	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/03/13 01:15	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/03/13 01:15	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/03/13 01:15	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/03/13 01:15	1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-116540/6
Matrix: Water
Analysis Batch: 116540

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		0.50	0.25	ug/L			05/03/13 01:15	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/03/13 01:15	1
Naphthalene	ND		0.50	0.060	ug/L			05/03/13 01:15	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/03/13 01:15	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/03/13 01:15	1
o-Xylene	ND		0.50	0.044	ug/L			05/03/13 01:15	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/03/13 01:15	1
Styrene	ND		0.50	0.044	ug/L			05/03/13 01:15	1
t-Butanol	ND		10	2.5	ug/L			05/03/13 01:15	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/03/13 01:15	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/03/13 01:15	1
Toluene	ND		0.50	0.10	ug/L			05/03/13 01:15	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/03/13 01:15	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/03/13 01:15	1
Trichloroethene	ND		0.50	0.060	ug/L			05/03/13 01:15	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/03/13 01:15	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/03/13 01:15	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/03/13 01:15	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/03/13 01:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*97*		*80 - 120*		*05/03/13 01:15*	*1*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*05/03/13 01:15*	*1*

Lab Sample ID: LCS 480-116540/5
Matrix: Water
Analysis Batch: 116540

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	4.00	4.25		ug/L		106	70 - 130
1,1,1-Trichloroethane	4.00	4.15		ug/L		104	70 - 130
1,1,2,2-Tetrachloroethane	4.00	3.88		ug/L		97	70 - 130
1,1,2-Trichloroethane	4.00	4.21		ug/L		105	70 - 130
1,1-Dichloroethane	4.00	3.85		ug/L		96	70 - 130
1,1-Dichloroethene	4.00	3.95		ug/L		99	70 - 130
1,1-Dichloropropene	4.00	4.56		ug/L		114	70 - 130
1,2,3-Trichlorobenzene	4.00	4.26		ug/L		107	70 - 130
1,2,3-Trichloropropane	4.00	4.36		ug/L		109	70 - 130
1,2,4-Trichlorobenzene	4.00	4.09		ug/L		102	70 - 130
1,2,4-Trimethylbenzene	4.00	4.31		ug/L		108	70 - 130
1,2-Dibromo-3-Chloropropane	4.00	3.41		ug/L		85	70 - 130
1,2-Dibromoethane	4.00	4.44		ug/L		111	70 - 130
1,2-Dichlorobenzene	4.00	4.16		ug/L		104	70 - 130
1,2-Dichloroethane	4.00	4.22		ug/L		105	70 - 130
1,2-Dichloropropane	4.00	4.34		ug/L		109	70 - 130
1,3,5-Trimethylbenzene	4.00	4.27		ug/L		107	70 - 130
1,3-Dichlorobenzene	4.00	4.31		ug/L		108	70 - 130
1,3-Dichloropropane	4.00	4.39		ug/L		110	70 - 130

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-116540/5
Matrix: Water
Analysis Batch: 116540

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	4.00	4.32		ug/L		108	70 - 130
2,2-Dichloropropane	4.00	3.71		ug/L		93	70 - 130
2-Butanone (MEK)	20.0	20.0		ug/L		100	70 - 130
2-Chlorotoluene	4.00	4.25		ug/L		106	70 - 130
4-Chlorotoluene	4.00	4.24		ug/L		106	70 - 130
4-Isopropyltoluene	4.00	4.35		ug/L		109	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	19.9		ug/L		100	70 - 130
Acetone	20.0	16.4		ug/L		82	70 - 130
Benzene	4.00	4.33		ug/L		108	70 - 130
Bromobenzene	4.00	4.68		ug/L		117	70 - 130
Bromochloromethane	4.00	4.35		ug/L		109	70 - 130
Bromoform	4.00	4.22		ug/L		105	70 - 130
Bromomethane	4.00	4.49		ug/L		112	70 - 130
Carbon tetrachloride	4.00	4.64		ug/L		116	70 - 130
Chlorobenzene	4.00	4.32		ug/L		108	70 - 130
Chlorodibromomethane	4.00	4.34		ug/L		108	70 - 130
Chloroethane	4.00	4.39		ug/L		110	70 - 130
Chloroform	4.00	3.91		ug/L		98	70 - 130
Chloromethane	4.00	4.43		ug/L		111	70 - 130
cis-1,2-Dichloroethene	4.00	3.94		ug/L		98	70 - 130
cis-1,3-Dichloropropene	4.00	4.16		ug/L		104	70 - 130
Dibromomethane	4.00	4.11		ug/L		103	70 - 130
Dichlorobromomethane	4.00	4.14		ug/L		103	70 - 130
Dichlorodifluoromethane	4.00	5.33	*	ug/L		133	70 - 130
Ethylbenzene	4.00	4.35		ug/L		109	70 - 130
Hexachlorobutadiene	4.00	4.40		ug/L		110	70 - 130
Isopropylbenzene	4.00	4.17		ug/L		104	70 - 130
Methyl tert-butyl ether	4.00	3.93		ug/L		98	70 - 130
Methylene Chloride	4.00	3.45		ug/L		86	70 - 130
Naphthalene	4.00	3.98		ug/L		100	70 - 130
n-Butylbenzene	4.00	4.30		ug/L		107	70 - 130
N-Propylbenzene	4.00	4.39		ug/L		110	70 - 130
sec-Butylbenzene	4.00	4.41		ug/L		110	70 - 130
Styrene	4.00	4.20		ug/L		105	70 - 130
tert-Butylbenzene	4.00	4.46		ug/L		112	70 - 130
Tetrachloroethene	4.00	4.65		ug/L		116	70 - 130
Toluene	4.00	4.41		ug/L		110	70 - 130
trans-1,2-Dichloroethene	4.00	4.10		ug/L		102	70 - 130
trans-1,3-Dichloropropene	4.00	4.07		ug/L		102	70 - 130
Trichloroethene	4.00	4.40		ug/L		110	70 - 130
Trichlorofluoromethane	4.00	4.68		ug/L		117	70 - 130
Vinyl chloride	4.00	4.66		ug/L		117	70 - 130
Xylenes, Total	12.0	12.6		ug/L		105	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichlorobenzene-d4	*97*		*80 - 120*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37443-1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Lab Sample ID: MB 200-55200/1-A
Matrix: Water
Analysis Batch: 55210

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 55200

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		05/07/13 09:33	05/07/13 13:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*93*		*70 - 130*	*05/07/13 09:33*	*05/07/13 13:04*	*1*

Lab Sample ID: LCS 200-55200/2-A
Matrix: Water
Analysis Batch: 55210

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 55200

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane			0.200	0.196	J	ug/L		98	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,4-Dioxane-d8 (Surr)	*93*		*70 - 130*

GC/MS VOA

Analysis Batch: 116392

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-37443-1	Trip #041013	Total/NA	Water	524.2	
480-37443-2	171B Meetinghouse	Total/NA	Water	524.2	
480-37443-4	45 Knowles	Total/NA	Water	524.2	
480-37443-6	55 Surry	Total/NA	Water	524.2	
480-37443-8	80 Kettle Hole	Total/NA	Water	524.2	
480-37443-10	180 Meetinghouse	Total/NA	Water	524.2	
LCS 480-116392/4	Lab Control Sample	Total/NA	Water	524.2	
MB 480-116392/5	Method Blank	Total/NA	Water	524.2	

Analysis Batch: 116540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-37443-12	35 Sharon Circle	Total/NA	Water	524.2	
480-37443-14	60 Briggs Field	Total/NA	Water	524.2	
480-37443-16	80 Deerfield	Total/NA	Water	524.2	
480-37443-18	40 Deerfield	Total/NA	Water	524.2	
480-37443-20	200 Alston	Total/NA	Water	524.2	
480-37443-22	10 Deerfield	Total/NA	Water	524.2	
480-37443-24	60 Fairview	Total/NA	Water	524.2	
480-37443-26	Trip Blank 041013	Total/NA	Water	524.2	
480-37443-27	50 Alston	Total/NA	Water	524.2	
LCS 480-116540/5	Lab Control Sample	Total/NA	Water	524.2	
MB 480-116540/6	Method Blank	Total/NA	Water	524.2	

GC/MS Semi VOA

Prep Batch: 55200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-37443-2	171B Meetinghouse	Total/NA	Water	3535A	
480-37443-4	45 Knowles	Total/NA	Water	3535A	
480-37443-6	55 Surry	Total/NA	Water	3535A	
480-37443-8	80 Kettle Hole	Total/NA	Water	3535A	
480-37443-10	180 Meetinghouse	Total/NA	Water	3535A	
480-37443-12	35 Sharon Circle	Total/NA	Water	3535A	
480-37443-14	60 Briggs Field	Total/NA	Water	3535A	
480-37443-16	80 Deerfield	Total/NA	Water	3535A	
480-37443-18	40 Deerfield	Total/NA	Water	3535A	
480-37443-20	200 Alston	Total/NA	Water	3535A	
480-37443-22	10 Deerfield	Total/NA	Water	3535A	
480-37443-24	60 Fairview	Total/NA	Water	3535A	
480-37443-27	50 Alston	Total/NA	Water	3535A	
LCS 200-55200/2-A	Lab Control Sample	Total/NA	Water	3535A	
MB 200-55200/1-A	Method Blank	Total/NA	Water	3535A	

Analysis Batch: 55210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-37443-2	171B Meetinghouse	Total/NA	Water	522 MOD	55200
480-37443-4	45 Knowles	Total/NA	Water	522 MOD	55200
480-37443-6	55 Surry	Total/NA	Water	522 MOD	55200
480-37443-8	80 Kettle Hole	Total/NA	Water	522 MOD	55200
480-37443-10	180 Meetinghouse	Total/NA	Water	522 MOD	55200

GC/MS Semi VOA (Continued)

Analysis Batch: 55210 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-37443-12	35 Sharon Circle	Total/NA	Water	522 MOD	55200
480-37443-14	60 Briggs Field	Total/NA	Water	522 MOD	55200
480-37443-16	80 Deerfield	Total/NA	Water	522 MOD	55200
480-37443-18	40 Deerfield	Total/NA	Water	522 MOD	55200
480-37443-20	200 Alston	Total/NA	Water	522 MOD	55200
480-37443-22	10 Deerfield	Total/NA	Water	522 MOD	55200
480-37443-24	60 Fairview	Total/NA	Water	522 MOD	55200
480-37443-27	50 Alston	Total/NA	Water	522 MOD	55200
LCS 200-55200/2-A	Lab Control Sample	Total/NA	Water	522 MOD	55200
MB 200-55200/1-A	Method Blank	Total/NA	Water	522 MOD	55200

Lab Chronicle

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37443-1

Client Sample ID: Trip #041013

Lab Sample ID: 480-37443-1

Date Collected: 05/01/13 00:00

Matrix: Water

Date Received: 05/02/13 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	116392	05/02/13 16:04	TRB	TAL BUF

Client Sample ID: 171B Meetinghouse

Lab Sample ID: 480-37443-2

Date Collected: 05/01/13 09:25

Matrix: Water

Date Received: 05/02/13 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	116392	05/02/13 16:28	TRB	TAL BUF
Total/NA	Prep	3535A			55200	05/07/13 09:33	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55210	05/07/13 13:52	RJH	TAL BUR

Client Sample ID: 45 Knowles

Lab Sample ID: 480-37443-4

Date Collected: 05/01/13 10:15

Matrix: Water

Date Received: 05/02/13 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	116392	05/02/13 17:18	TRB	TAL BUF
Total/NA	Prep	3535A			55200	05/07/13 09:33	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55210	05/07/13 14:09	RJH	TAL BUR

Client Sample ID: 55 Surry

Lab Sample ID: 480-37443-6

Date Collected: 05/01/13 11:05

Matrix: Water

Date Received: 05/02/13 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	116392	05/02/13 18:07	TRB	TAL BUF
Total/NA	Prep	3535A			55200	05/07/13 09:33	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55210	05/07/13 14:25	RJH	TAL BUR

Client Sample ID: 80 Kettle Hole

Lab Sample ID: 480-37443-8

Date Collected: 05/01/13 11:55

Matrix: Water

Date Received: 05/02/13 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	116392	05/02/13 18:56	TRB	TAL BUF
Total/NA	Prep	3535A			55200	05/07/13 09:33	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55210	05/07/13 14:42	RJH	TAL BUR

Lab Chronicle

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37443-1

Client Sample ID: 180 Meetinghouse

Lab Sample ID: 480-37443-10

Date Collected: 05/01/13 13:55

Matrix: Water

Date Received: 05/02/13 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	116392	05/02/13 19:46	TRB	TAL BUF
Total/NA	Prep	3535A			55200	05/07/13 09:33	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55210	05/07/13 14:58	RJH	TAL BUR

Client Sample ID: 35 Sharon Circle

Lab Sample ID: 480-37443-12

Date Collected: 05/01/13 14:55

Matrix: Water

Date Received: 05/02/13 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	116540	05/03/13 01:50	TRB	TAL BUF
Total/NA	Prep	3535A			55200	05/07/13 09:33	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55210	05/07/13 15:14	RJH	TAL BUR

Client Sample ID: 60 Briggs Field

Lab Sample ID: 480-37443-14

Date Collected: 05/01/13 15:35

Matrix: Water

Date Received: 05/02/13 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	116540	05/03/13 02:39	TRB	TAL BUF
Total/NA	Prep	3535A			55200	05/07/13 09:33	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55210	05/07/13 15:31	RJH	TAL BUR

Client Sample ID: 80 Deerfield

Lab Sample ID: 480-37443-16

Date Collected: 05/01/13 09:10

Matrix: Water

Date Received: 05/02/13 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	116540	05/03/13 03:28	TRB	TAL BUF
Total/NA	Prep	3535A			55200	05/07/13 09:33	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55210	05/07/13 15:47	RJH	TAL BUR

Client Sample ID: 40 Deerfield

Lab Sample ID: 480-37443-18

Date Collected: 05/01/13 10:00

Matrix: Water

Date Received: 05/02/13 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	116540	05/03/13 04:17	TRB	TAL BUF
Total/NA	Prep	3535A			55200	05/07/13 09:33	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55210	05/07/13 16:19	RJH	TAL BUR

Lab Chronicle

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37443-1

Client Sample ID: 200 Alston

Lab Sample ID: 480-37443-20

Date Collected: 05/01/13 10:55

Matrix: Water

Date Received: 05/02/13 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	116540	05/03/13 05:06	TRB	TAL BUF
Total/NA	Prep	3535A			55200	05/07/13 09:33	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55210	05/07/13 16:36	RJH	TAL BUR

Client Sample ID: 10 Deerfield

Lab Sample ID: 480-37443-22

Date Collected: 05/01/13 11:40

Matrix: Water

Date Received: 05/02/13 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	116540	05/03/13 05:55	TRB	TAL BUF
Total/NA	Prep	3535A			55200	05/07/13 09:33	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55210	05/07/13 16:52	RJH	TAL BUR

Client Sample ID: 60 Fairview

Lab Sample ID: 480-37443-24

Date Collected: 05/01/13 13:55

Matrix: Water

Date Received: 05/02/13 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	116540	05/03/13 06:44	TRB	TAL BUF
Total/NA	Prep	3535A			55200	05/07/13 09:33	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55210	05/07/13 17:09	RJH	TAL BUR

Client Sample ID: Trip Blank 041013

Lab Sample ID: 480-37443-26

Date Collected: 05/01/13 00:00

Matrix: Water

Date Received: 05/02/13 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	116540	05/03/13 07:33	TRB	TAL BUF

Client Sample ID: 50 Alston

Lab Sample ID: 480-37443-27

Date Collected: 05/01/13 14:50

Matrix: Water

Date Received: 05/02/13 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	116540	05/03/13 07:57	TRB	TAL BUF
Total/NA	Prep	3535A			55200	05/07/13 09:33	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55210	05/07/13 17:25	RJH	TAL BUR

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Certification Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37443-1

Laboratory: TestAmerica Buffalo

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-13
California	NELAP	9	1169CA	09-30-13
Connecticut	State Program	1	PH-0568	09-30-14
Florida	NELAP	4	E87672	06-30-13
Georgia	State Program	4	N/A	03-31-14
Georgia	State Program	4	956	06-30-13
Georgia	State Program	4	956	03-31-14
Illinois	NELAP	5	200003	09-30-13
Iowa	State Program	7	374	03-15-15
Kansas	NELAP	7	E-10187	01-31-14
Kentucky	State Program	4	90029	12-31-13
Kentucky (UST)	State Program	4	30	04-01-14
Louisiana	NELAP	6	02031	06-30-13
Maine	State Program	1	NY00044	12-04-13
Maryland	State Program	3	294	03-31-14
Massachusetts	State Program	1	M-NY044	06-30-13
Michigan	State Program	5	9937	04-01-13 *
Minnesota	NELAP	5	036-999-337	12-31-13
New Hampshire	NELAP	1	2973	09-11-13
New Hampshire	NELAP	1	2337	11-17-13
New Jersey	NELAP	2	NY455	06-30-13
New York	NELAP	2	10026	04-01-14
North Dakota	State Program	8	R-176	03-31-14
Oklahoma	State Program	6	9421	08-31-13
Oregon	NELAP	10	NY200003	06-09-13
Pennsylvania	NELAP	3	68-00281	07-31-13
Rhode Island	State Program	1	LAO00328	12-31-13
Tennessee	State Program	4	TN02970	04-01-14
Texas	NELAP	6	T104704412-11-2	07-31-13
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAP	3	460185	09-14-13
Washington	State Program	10	C784	02-10-14
West Virginia DEP	State Program	3	252	09-30-13
Wisconsin	State Program	5	998310390	08-31-13

Laboratory: TestAmerica Burlington

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Connecticut	State Program	1	PH-0751	09-30-13
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-13-15
Florida	NELAP	4	E87467	06-30-13
L-A-B	DoD ELAP		L2336	10-26-13
Louisiana	NELAP	6	176292	06-30-13
Maine	State Program	1	VT00008	04-17-13 *
Minnesota	NELAP	5	050-999-436	12-31-13
New Hampshire	NELAP	1	2006	12-18-13
New Jersey	NELAP	2	VT972	06-30-13
New York	NELAP	2	10391	04-01-14
Pennsylvania	NELAP	3	68-00489	04-30-14

* Expired certification is currently pending renewal and is considered valid.

Certification Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37443-1

Laboratory: TestAmerica Burlington (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
USDA	Federal		P330-11-00093	02-17-14
Vermont	State Program	1	VT-4000	12-31-13
Virginia	NELAP	3	460209	12-14-13

Method Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37443-1

Method	Method Description	Protocol	Laboratory
524.2	Volatile Organic Compounds (GC/MS)	EPA-DW	TAL BUF
522 MOD	1,4 Dioxane (GC/MS SIM)	EPA	TAL BUR

Protocol References:

EPA = US Environmental Protection Agency

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37443-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-37443-1	Trip #041013	Water	05/01/13 00:00	05/02/13 01:45
480-37443-2	171B Meetinghouse	Water	05/01/13 09:25	05/02/13 01:45
480-37443-4	45 Knowles	Water	05/01/13 10:15	05/02/13 01:45
480-37443-6	55 Surry	Water	05/01/13 11:05	05/02/13 01:45
480-37443-8	80 Kettle Hole	Water	05/01/13 11:55	05/02/13 01:45
480-37443-10	180 Meetinghouse	Water	05/01/13 13:55	05/02/13 01:45
480-37443-12	35 Sharon Circle	Water	05/01/13 14:55	05/02/13 01:45
480-37443-14	60 Briggs Field	Water	05/01/13 15:35	05/02/13 01:45
480-37443-16	80 Deerfield	Water	05/01/13 09:10	05/02/13 01:45
480-37443-18	40 Deerfield	Water	05/01/13 10:00	05/02/13 01:45
480-37443-20	200 Alston	Water	05/01/13 10:55	05/02/13 01:45
480-37443-22	10 Deerfield	Water	05/01/13 11:40	05/02/13 01:45
480-37443-24	60 Fairview	Water	05/01/13 13:55	05/02/13 01:45
480-37443-26	Trip Blank 041013	Water	05/01/13 00:00	05/02/13 01:45
480-37443-27	50 Alston	Water	05/01/13 14:50	05/02/13 01:45

TestAmerica Westfield
Westfield Executive Park 53 Southampton Road
Westfield, MA 01085
Phone (413) 572-4000 Fax (413) 572-3707

Boston Service Center
240 Bear Hill Rd. Suite 104
Waltham, MA 02451
Phone (781) 466-6900 Fax (781) 466-6901

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information
Client Contact: Town of Eastham MA / Dave Bennett
Company: Bennett Environmental Associates
Address: 1573 Main St, P.O. Box 1743
City: Brewster
State, Zip: MA 02631
Phone: 508-896-1706
Email: dbennett@bennett-ea.com
Project Name/number: Eastham Landfill - BEA 011-10104
Site: Eastham, MA

Sampler: J. Rufe, L. Thuot EPA MS
Phone:
Lab PM:
E-Mail: dbennett@bennett-ea.com
Carrier Tracking No(s):
Due Date Requested:
TAT Requested (days): 2 week calendar
Quote #: 10104
PO #:
WO #:
SSOW#:

COC No: 26175
Page: 10f 4
Job #:

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, H - Ascorbic Acid, I - Ice, J - DI Water, M - Hexane, N - None, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, Z - other (specify)

Regulatory programs: MCP ☐ GW1/S1 ☐ RCP ☐ CT RSR ☐ DEP Form ☐ EDD Required ☐

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wastefoil, BT=Tissue, etc.)	Sampler's Initials	Field Filtered Sample?	Perform MS/MSD?	VOA 1,4 Dioxane	Total Number of containers	Special Instructions/Note:
			Preservation Code:					A A		
Trip #041013										Trip From Test America
1718 Meetinghouse	5/1/13	0925	G	W		N		3 2	5	
1718 Meetinghouse DUP	5/1/13	0925	G	W		N		3 1	4	Field Dup
45 Knowles	5/1/13	1015	G	W		N		3 2	5	
45 Knowles Dup	5/1/13	1015	G	W		N		3 1	4	Field Dup
55 Surrey	5/1/13	1105	G	W		N		3 2	5	
55 Surrey Dup	5/1/13	1105	G	W		N		3 1	4	Field Dup
80 Kettle Hole	5/1/13	1155	G	W		N		3 2	5	
80 Kettle Hole Dup	5/1/13	1155	G	W		N		3 1	4	Field Dup
180 Meetinghouse Iced 5/1/13 Meetinghouse	5/1/13	1355	G	W		N		3 2	5	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	5/1/13 / 1548	US EPA		5/1/13 1548	US EPA
	5/1/13 / 1620	US EPA		5-1-13 1620	
	5-1-13 1915			5-2-13 0145	TA Buffalo

Custody Seals Intact: ☐ Yes ☐ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 4.1, 3.2 #1

TAL-8245-360 1111

TestAmerica Westfield
Westfield Executive Park 53 Southampton Road
Westfield, MA 01085
Phone (413) 572-4000 Fax (413) 572-3707

Boston Service Center
240 Bear Hill Rd. Suite 104
Waltham, MA 02451
Phone (781) 466-6900 Fax (781) 466-6901

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information Town of Eastham	Sampler: J. Kelly / L. Thrift	Lab PM:	Carrier Tracking No(s):
Client Contact: Dave Bennett - BEA	Phone:	E-Mail: dbennett@bennett-ea.com	
Company: BEA			
Address: 1573 Main St P.O. Box 1743	Due Date Requested:		
City: Brewster	TAT Requested (days): 2 Week Calendar		
State, Zip: MA 02631	Quote #: 10164		
Phone: 508-896-1706	PO #:		
Email: dbennett@bennett-ea.com	WO #:		
Project Name/number: Eastham Landfill - BEA-011-10104	SSOW#:		
Site: Eastham, MA			

COC No: 26177
Page: 2 of 4
Job #:

Preservation Codes:
A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; H - Ascorbic Acid; I - Ice; J - DI Water; M - Hexane; N - None; P - Na2O4S; Q - Na2SO3; R - Na2S2SO3; S - H2SO4; Z - other (specify)

Regulatory programs: MCP ☐ GW1/S1 ☐ RCP ☐ CT RSR ☐ DEP Form ☐ EDD Required ☐

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wastefoil, BT=Tissue, A=Air)	Sample's Initials	Field Filtered Sample?	Perform MS/MSD?	VOA	1,4 Dioxane	Total Number of containers	Special Instructions/Note:
Preservation Code:								A	A		
180 Meetinghouse DUP	5/1/13	1355	G	W		N		3	2	4	Field Dup
35 Sharon Circle	5/1/13	1455	G	W		N		3	2	5	
35 Sharon Circle DUP	5/1/13	1455	G	W		N		3	1	4	Field Dup
60 Briggs Field	5/1/13	1535	G	W		N		3	2	5	
60 Briggs Field DUP	5/1/13	1535	G	W		N		3	1	4	Field Dup

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		5/1/13 1540	USEPA		5/1/13 1548	USEPA
2		5/1/13 1620	USEPA		5/2/13 1620	
3		5/2/13 0145			5.2.13 0145	TA DUK

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 4.1, 3.2 #1

TAL-8245-360 1111

TestAmerica Westfield
Westfield Executive Park 53 Southampton Road
Westfield, MA 01085
Phone (413) 572-4000 Fax (413) 572-3707

Boston Service Center
240 Bear Hill Rd. Suite 104
Waltham, MA 02451
Phone (781) 466-6900 Fax (781) 466-6901

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Cliff Cunningham / Dick Sullivan	Lab PM:	Carrier Tracking No(s):
Client Contact: David Bennett / Town of Eastham	Phone: (508) 896-1706	E-Mail: dbennett@bennett-ea.com	COC No: 26172
Company: Bennett Environmental Associates, Inc.			Page: 3 of 4
Address: 1573 Main Street, PO Box 1743	Due Date Requested:	Analysis Requested	Job #:
City: Brewster	TAT Requested (days): 2 weeks calendar		Preservation Codes: A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, H - Ascorbic Acid, I - Ice, J - DI Water, M - Hexane, N - None, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, Z - other (specify)
State, Zip: MA, 02631	Quote #: 10104		
Phone: (508) 896-1706	PO #:		Regulatory programs: MCP ☐ GW1/S1 ☐, RCP ☐ CT RSR ☐, DEP Form ☐ EDD Required ☐
Email: dbennett@bennett-ea.com	WO #:		
Project Name/number: Eastham Landfill BEA011-10104	SSOW#:		
Site: Eastham, MA			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Sampler's Initials	Field Filtered Sample?	Perform MS/MSD?	VOAs	1,4-Dioxane	Total Number of containers	Special Instructions/Note:
			Preservation Code:					A	A		
80 Deerfield	5/1/13	0910	G	W				X	X	5	
80 Deerfield dup	5/1/13	0910	G	W				X	X	4	field duplicate sample
40 Deerfield	5/1/13	1000	G	W				X	X	5	
40 Deerfield dup	5/1/13	1000	G	W				X	X	4	field duplicate sample
200 Alston	5/1/13	1055	G	W				X	X	5	
200 Alston dup	5/1/13	1055	G	W				X	X	4	field duplicate sample
10 Deerfield	5/1/13	1140	G	W				X	X	5	
10 Deerfield dup	5/1/13	1140	G	W				X	X	4	field duplicate sample
60 Fairview	5/1/13	1355	G	W				X	X	5	
60 Fairview dup	5/1/13	1355	G	W				X	X	4	field duplicate sample

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

	Date/Time	Company		Date/Time	Company
Relinquished by:	5/1/1620	URSA	Received by:	5-2-13 1620	
Relinquished by:	5-2-13 1915		Received by:	5-2-13 0145	TA Buff
Relinquished by:			Received by:		

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 4.1, 3.2 #1

TAL-8245-360 1111

TestAmerica Westfield
Westfield Executive Park 53 Southampton Road
Westfield, MA 01085
Phone (413) 572-4000 Fax (413) 572-3707

Boston Service Center
240 Bear Hill Rd. Suite 104
Waltham, MA 02451
Phone (781) 466-6900 Fax (781) 466-6901

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information

Client Contact: David Bennett / Town of Eastham	Sampler: [illegible]	Lab PM:	Carrier Tracking No(s):
Company: Bennett Environmental Associates, Inc.	Phone: (508) 896-1706	E-Mail: dbennett@bennett-ea.com	COC No: 26176
Address: 1673 Main Street, PO Box 1743	Due Date Requested:		Page: 4 of 4
City: Brewster	TAT Requested (days): 2 weeks Calendar		Job #:
State, Zip: MA, 02631	Quote #: 10104		
Phone: (508) 896-1706	PO #:		
Email: dbennett@bennett-ea.com	WO #:		
Project Name/number: Eastham Landfill REA011-10104	SSOW#:		
Site: Eastham, MA			

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastetoil, BT=Tissue, A=Air)	Sampler's Initials	Field Filtered Sample?	Perform MS/MSD?	VOHs	1,4-Dioxane	Total Number of containers	Special Instructions/Note:
			Preservation Code:					A	A		
Trip Blank 041013				W				X	X	3	
50 Alston	5/1/13	1450	G	W				X	X	5	
50 Alston dup	5/1/13	1450	G	W				X	X	4	field duplicate sample

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	5/1/13 1620	USEPA	[signature]	5/1/13 1620	
2	[signature]	5-2-13 0945		[signature]	5-2.13 0945	TA Dunk
3						

Custody Seals Intact: ☐ Yes ☐ No
Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 4.1, 3.2 #1

TAL-8245-360 1111

Login Sample Receipt Checklist

Client: Bennett Environmental Associates, Inc.

Job Number: 480-37443-1

Login Number: 37443

List Source: TestAmerica Buffalo

List Number: 1

Creator: Wienke, Robert

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	USEPA
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	True	LAB TO CHECK

Login Sample Receipt Checklist

Client: Bennett Environmental Associates, Inc.

Job Number: 480-37443-1

Login Number: 37443
List Number: 1
Creator: Poucher, Stephanie A

List Source: TestAmerica Burlington
List Creation: 05/03/13 12:25 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	709096, 097
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.4ºC, 4.6ºC IR GUN ID 181. CF 0
COC is present.	True	
COC is filled out in ink and legible.	True	COC does, however, contains non-validated text corrections.
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.

						Sample ID	Trip #041013	171B Meetinghouse	45 Knowles	55 Surry	80 Kettle Hole	180 Meetinghouse	35 Sharon Circle	60 Briggs Field	80 Deerfield	40 Deerfield	200 Alston	10 Deerfield	60 Fairview	Trip Blank 041013	50 Alston
						Sampled By															
						Sample Collection Date	05/01/2013 00:00	05/01/2013 09:25	05/01/2013 10:15	05/01/2013 11:05	05/01/2013 11:55	05/01/2013 13:55	05/01/2013 14:55	05/01/2013 15:35	05/01/2013 09:10	05/01/2013 10:00	05/01/2013 10:55	05/01/2013 11:40	05/01/2013 13:55	05/01/2013 00:00	05/01/2013 14:50
						Laboratory Order Number	480-37443-1	480-37443-2	480-37443-4	480-37443-6	480-37443-8	480-37443-10	480-37443-12	480-37443-14	480-37443-16	480-37443-18	480-37443-20	480-37443-22	480-37443-24	480-37443-26	480-37443-27
Parameter	**Reporting Units**	**GW1**	**GW2**	**RCGW1**	**RCGW2**	**DW MMCL**															
Volatiles by 524.2																					
1,1,1,2-Tetrachloroethane	ug/l	5	10	5	10	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1,1-Trichloroethane	ug/l	200	4000	200	4000	200	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1,2,2-Tetrachloroethane	ug/l	2	9	2	9	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1,2-Trichloroethane	ug/l	5	900	5	900	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1-Dichloroethane	ug/l	70	1000	70	1000	NA	< 0.50	< 0.50	0.23J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.28J
1,1-Dichloroethene	ug/l	7	80	7	80	7	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1-Dichloropropene	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2,3-Trichlorobenzene	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2,3-Trichloropropane	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2,4-Trichlorobenzene	ug/l	70	2000	70	2000	70	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2,4-Trimethylbenzene	ug/l	NA	NA	10000	100000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dibromo-3-Chloropropane	ug/l	NA	NA	100	1000	0.2	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**
1,2-Dibromoethane	ug/l	0.02	2	0.02	2	0.02	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**
1,2-Dichlorobenzene	ug/l	600	2000	600	2000	600	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichloroethane	ug/l	5	5	5	5	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichloropropane	ug/l	5	3	3	3	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,3,5-Trimethylbenzene	ug/l	NA	NA	100	1000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,3-Dichlorobenzene	ug/l	40	2000	40	2000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,3-Dichloropropane	ug/l	NA	NA	5000	50000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,4-Dichlorobenzene	ug/l	5	200	5	200	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,2-Dichloropropane	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Butanone (MEK)	ug/l	4000	50000	4000	50000	NA	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
2-Chlorotoluene	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Chlorotoluene	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Isopropyltoluene	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Methyl-2-pentanone (MIBK)	ug/l	350	50000	350	50000	NA	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
Acetone	ug/l	6300	50000	6300	50000	NA	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
Benzene	ug/l	5	2000	5	2000	5	< 0.50	< 0.50	0.23J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromobenzene	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromochloromethane	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromoform	ug/l	4	700	4	700	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromomethane	ug/l	10	7	7	7	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Carbon tetrachloride	ug/l	5	2	2	2	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chlorobenzene	ug/l	100	200	100	200	100	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chlorodibromomethane	ug/l	2	20	2	20	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chloroethane	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chloroform	ug/l	70	50	50	50	NA	< 0.50	0.32J	< 0.50	0.28J	< 0.50	0.35J	0.39J	< 0.50	0.88	0.39J	0.15J	< 0.50	0.61	< 0.50	< 0.50
Chloromethane	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.080J	< 0.50	< 0.50	< 0.50
cis-1,2-Dichloroethene	ug/l	70	100	70	100	NA	< 0.50	< 0.50	1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
cis-1,3-Dichloropropene	ug/l	NA	NA	0.5	5	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dibromomethane	ug/l	NA	NA	5000	50000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dichlorobromomethane	ug/l	3	6	3	6	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dichlorodifluoromethane	ug/l	NA	NA	10000	100000	NA	< 0.50	< 0.50	0.22J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Ethylbenzene	ug/l	700	20000	700	5000	700	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachlorobutadiene	ug/l	0.6	1	0.6	1	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Isopropylbenzene	ug/l	NA	NA	10000	100000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Methyl tert-butyl ether	ug/l	70	50000	70	5000	NA	< 0.50	0.19J	0.45J	0.26J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Methylene Chloride	ug/l	5	10000	5	10000	5	0.51	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.41J	< 0.50
m-Xylene & p-Xylene	ug/l	10000	9000	5000	5000	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene	ug/l	140	1000	140	1000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
n-Butylbenzene	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
N-Propylbenzene	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
o-Xylene	ug/l	10000	9000	5000	5000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Styrene	ug/l	100	100	100	100	100	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
t-Butanol	ug/l	NA	NA	NA	NA	NA	< 10	< 10	3.5J	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
tert-Butylbenzene	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Tetrachloroethene	ug/l	5	50	5	50	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Toluene	ug/l	1000	50000	1000	40000	1000	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.14J
trans-1,2-Dichloroethene	ug/l	100	90	90	90	100	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
trans-1,3-Dichloropropene	ug/l	NA	NA	0.5	5	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Trichloroethene	ug/l	5	30	5	30	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Trichlorofluoromethane	ug/l	NA	NA	10000	100000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Trihalomethanes, Total	ug/l	NA	NA	NA	NA	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Vinyl chloride	ug/l	2	2	2	2	2	< 0.50	< 0.50	0.19J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Xylenes, Total	ug/l	10000	9000	5000	5000	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Semivolatiles by 522 MOD																					
1,4-Dioxane	ug/l	3	6000	3	6000	NA		0.58	2.3	< 0.20	< 0.20	< 0.20	0.34	< 0.20	< 0.20	< 0.20	0.21	0.052J	0.041J		0.18J

Notes:
ug/l - micrograms/liter
* - LCS or LCSD exceeds the control limits
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
GW1 - Concentrations based on the use of groundwater as drinking water, either currently or in the foreseeable future.
GW2 - Concentrations based on the potential for volatile material to migrate into indoor air.
GW3 - Concentrations based on the potential environmental effects resulting from contaminated groundwater discharging to surface water.
RC - Risk Characterization approach, Standards may be supplemented or modified with site- and chemical-specific information.
UCL - Upper Concentration Limits in groundwater and soil are promulgated to minimize potential risks associated with uncontrolled environmental contamination, and the costs associated with cumulative anthropogenic contributions to background.

TestAmerica's TotalAccess, is our online data management tool. Features include, a cross-tab view displaying each analyte
as a row across sample columns, an intuitive analyte trending tool, auto-fill search functions and exports data into Excel, while keeping its original format.
Other features include a redesign and simplification in selecting regulatory limits, Work Order and Results page layout redesign, and available data columns in the Results and Budgets pages.
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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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TestAmerica Buffalo
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Amherst, NY 14228-2298
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TestAmerica Job ID: 480-37443-2
Client Project/Site: Eastham Landfill IRA

For:
Bennett Environmental Associates, Inc.
1573 Main St.
Brewster, Massachusetts 02631

Attn: David Bennett

Authorized for release by:
5/15/2013 2:40:13 PM
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LINKS

Review your project results through TotalAccess

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37443-2

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-37443-2

Laboratory: TestAmerica Buffalo

Narrative

Receipt

The samples were received on 5/2/2013 at 1:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 3.2º C and 4.1º C.

Receipt Exceptions

The following sample was activated by the client for Method 522 analysis on 5/9/2013: 45 Knowles DUP (480-37443-5). This analysis was originally placed on hold at the time of sample receipt by the laboratory.

GC/MS Semi VOA

No analytical or quality issues were noted.

General Chemistry

No analytical or quality issues were noted.

Organic Prep

No analytical or quality issues were noted.

Detection Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37443-2

Client Sample ID: 45 Knowles DUP — **Lab Sample ID: 480-37443-5**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	2.4		0.20	0.041	ug/L	1		522 MOD	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37443-2

Client Sample ID: 45 Knowles DUP
Date Collected: 05/01/13 10:15
Date Received: 05/02/13 01:45

Lab Sample ID: 480-37443-5
Matrix: Water

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.4		0.20	0.041	ug/L		05/10/13 09:02	05/13/13 13:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*83*		*70 - 130*	*05/10/13 09:02*	*05/13/13 13:56*	*1*

Surrogate Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37443-2

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)								
		14DD8								
Lab Sample ID	Client Sample ID	(70-130)								
480-37443-5	45 Knowles DUP	83								
LCS 200-55414/2-A	Lab Control Sample	82								
MB 200-55414/1-A	Method Blank	88								

Surrogate Legend

14DD8 = 1,4-Dioxane-d8 (Surr)

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37443-2

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Lab Sample ID: MB 200-55414/1-A
Matrix: Water
Analysis Batch: 55420

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 55414

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		05/11/13 08:39	05/13/13 09:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*88*		*70 - 130*	*05/11/13 08:39*	*05/13/13 09:20*	*1*

Lab Sample ID: LCS 200-55414/2-A
Matrix: Water
Analysis Batch: 55420

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 55414

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane			8.00	6.61		ug/L		83	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,4-Dioxane-d8 (Surr)	*82*		*70 - 130*

QC Association Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37443-2

GC/MS Semi VOA

Prep Batch: 55362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-37443-5	45 Knowles DUP	Total/NA	Water	3535A	

Prep Batch: 55414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 200-55414/2-A	Lab Control Sample	Total/NA	Water	3535A	
MB 200-55414/1-A	Method Blank	Total/NA	Water	3535A	

Analysis Batch: 55420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-37443-5	45 Knowles DUP	Total/NA	Water	522 MOD	55362
LCS 200-55414/2-A	Lab Control Sample	Total/NA	Water	522 MOD	55414
MB 200-55414/1-A	Method Blank	Total/NA	Water	522 MOD	55414

Lab Chronicle

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37443-2

Client Sample ID: 45 Knowles DUP
Date Collected: 05/01/13 10:15
Date Received: 05/02/13 01:45

Lab Sample ID: 480-37443-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535A			55362	05/10/13 09:02	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55420	05/13/13 13:56	RJH	TAL BUR

Laboratory References:

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Certification Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37443-2

Laboratory: TestAmerica Buffalo

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-13
California	NELAP	9	1169CA	09-30-13
Connecticut	State Program	1	PH-0568	09-30-14
Florida	NELAP	4	E87672	06-30-13
Georgia	State Program	4	N/A	03-31-14
Georgia	State Program	4	956	06-30-13
Georgia	State Program	4	956	03-31-14
Illinois	NELAP	5	200003	09-30-13
Iowa	State Program	7	374	03-15-15
Kansas	NELAP	7	E-10187	01-31-14
Kentucky	State Program	4	90029	12-31-13
Kentucky (UST)	State Program	4	30	04-01-14
Louisiana	NELAP	6	02031	06-30-13
Maine	State Program	1	NY00044	12-04-13
Maryland	State Program	3	294	03-31-14
Massachusetts	State Program	1	M-NY044	06-30-13
Michigan	State Program	5	9937	04-01-13 *
Minnesota	NELAP	5	036-999-337	12-31-13
New Hampshire	NELAP	1	2973	09-11-13
New Hampshire	NELAP	1	2337	11-17-13
New Jersey	NELAP	2	NY455	06-30-13
New York	NELAP	2	10026	04-01-14
North Dakota	State Program	8	R-176	03-31-14
Oklahoma	State Program	6	9421	08-31-13
Oregon	NELAP	10	NY200003	06-09-13
Pennsylvania	NELAP	3	68-00281	07-31-13
Rhode Island	State Program	1	LAO00328	12-31-13
Tennessee	State Program	4	TN02970	04-01-14
Texas	NELAP	6	T104704412-11-2	07-31-13
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAP	3	460185	09-14-13
Washington	State Program	10	C784	02-10-14
West Virginia DEP	State Program	3	252	09-30-13
Wisconsin	State Program	5	998310390	08-31-13

Laboratory: TestAmerica Burlington

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Connecticut	State Program	1	PH-0751	09-30-13
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-13-15
Florida	NELAP	4	E87467	06-30-13
L-A-B	DoD ELAP		L2336	10-26-13
Louisiana	NELAP	6	176292	06-30-13
Minnesota	NELAP	5	050-999-436	12-31-13
New Hampshire	NELAP	1	2006	12-18-13
New Jersey	NELAP	2	VT972	06-30-13
New York	NELAP	2	10391	04-01-14
Pennsylvania	NELAP	3	68-00489	04-30-14
USDA	Federal		P330-11-00093	02-17-14

* Expired certification is currently pending renewal and is considered valid.

Certification Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37443-2

Laboratory: TestAmerica Burlington (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Vermont	State Program	1	VT-4000	12-31-13
Virginia	NELAP	3	460209	12-14-13

Method Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37443-2

Method	Method Description	Protocol	Laboratory
522 MOD	1,4 Dioxane (GC/MS SIM)	EPA	TAL BUR

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37443-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-37443-5	45 Knowles DUP	Water	05/01/13 10:15	05/02/13 01:45

Login Sample Receipt Checklist

Client: Bennett Environmental Associates, Inc.

Job Number: 480-37443-2

Login Number: 37443

List Source: TestAmerica Buffalo

List Number: 1

Creator: Wienke, Robert

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	USEPA
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	True	LAB TO CHECK

Login Sample Receipt Checklist

Client: Bennett Environmental Associates, Inc.

Job Number: 480-37443-2

Login Number: 37443
List Number: 1
Creator: Poucher, Stephanie A

List Source: TestAmerica Burlington
List Creation: 05/03/13 12:25 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	709096, 097
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.4ºC, 4.6ºC IR GUN ID 181. CF 0
COC is present.	True	
COC is filled out in ink and legible.	True	COC does, however, contains non-validated text corrections.
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.

						Sample ID	**45 Knowles DUP**
						Sampled By	
						Sample Collection Date	**05/01/2013 10:15**
						Laboratory Order Number	**480-37443-5**
Parameter	**Reporting Units**	**GW1**	**GW2**	**RCGW1**	**RCGW2**	**DW MMCL**	
Semivolatiles by 522 MOD							
1,4-Dioxane	ug/l	3	6000	3	6000	NA	2.4

Notes:
ug/l - micrograms/liter
GW1 - Concentrations based on the use of groundwater as drinking water, either currently or in the foreseeable future.
GW2 - Concentrations based on the potential for volatile material to migrate into indoor air.
GW3 - Concentrations based on the potential environmental effects resulting from contaminated groundwater discharging to surface water.
RC - Risk Characterization approach, Standards may be supplemented or modified with site- and chemical-specific information.
UCL - Upper Concentration Limits in groundwater and soil are promulgated to minimize potential risks associated with uncontrolled environmental contamination, and the costs associated with

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as a row across sample columns, an intuitive analyte trending tool, auto-fill search functions and exports data into Excel, while keeping its original format.
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More information @ http://www.mass.gov/dep/cleanup/laws/standard.htm

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-37649-1
Client Project/Site: Eastham Landfill IRA

For:
Bennett Environmental Associates, Inc.
1573 Main St.
Brewster, Massachusetts 02631

Attn: David Bennett

Authorized for release by:
5/14/2013 12:05:14 PM

Steve Hartmann, Lab Director
steve.hartmann@testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-37649-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-37649-1

Receipt
The samples were received on 5/4/2013 6:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 2.9º C, 3.1º C and 4.2º C.

GC/MS VOA (524.2)
Method(s) 524.2: The continuing calibration verification (CCV) for Acetone and 2-Methyl-2-propanol associated with batch 117388 and 117534 recovered above the upper control limit. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method(s) 524.2: The laboratory control sample (LCS) for batch 117534 recovered outside control limits for the following analyte: Vinyl chloride. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

No other analytical or quality issues were noted.

GC/MS Semi VOA (522MOD)
No analytical or quality issues were noted.

Detection Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37649-1

Client Sample ID: Trip Blank — Lab Sample ID: 480-37649-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.3	J *	2.5	0.54	ug/L	1		524.2	Total/NA
Methylene Chloride	0.53		0.50	0.25	ug/L	1		524.2	Total/NA

Client Sample ID: 55 Cestaro — Lab Sample ID: 480-37649-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.46	J	0.50	0.14	ug/L	1		524.2	Total/NA

Client Sample ID: 50 Fairview — Lab Sample ID: 480-37649-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.38	J	0.50	0.14	ug/L	1		524.2	Total/NA

Client Sample ID: 418 Schoolhouse — Lab Sample ID: 480-37649-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.22	J	0.50	0.14	ug/L	1		524.2	Total/NA

Client Sample ID: 40 Chokeberry — Lab Sample ID: 480-37649-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.38	J	0.50	0.14	ug/L	1		524.2	Total/NA
1,4-Dioxane	0.069	J	0.20	0.041	ug/L	1		522 MOD	Total/NA

Client Sample ID: 9 Eldia — Lab Sample ID: 480-37649-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.88	J *	2.5	0.54	ug/L	1		524.2	Total/NA
Chloroform	0.19	J	0.50	0.14	ug/L	1		524.2	Total/NA
1,4-Dioxane	0.25		0.20	0.041	ug/L	1		522 MOD	Total/NA

Client Sample ID: 35 Fairview — Lab Sample ID: 480-37649-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.79	J *	2.5	0.54	ug/L	1		524.2	Total/NA

Client Sample ID: 150 Candlewood — Lab Sample ID: 480-37649-14

No Detections.

Client Sample ID: 90 Cestaro — Lab Sample ID: 480-37649-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.0	J *	2.5	0.54	ug/L	1		524.2	Total/NA
Chloroform	0.66		0.50	0.14	ug/L	1		524.2	Total/NA

Client Sample ID: 175 Meetinghouse — Lab Sample ID: 480-37649-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.5	J *	2.5	0.54	ug/L	1		524.2	Total/NA
Chloroform	0.56		0.50	0.14	ug/L	1		524.2	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37649-1

Client Sample ID: 25 Duck Marsh — Lab Sample ID: 480-37649-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.18	J	0.50	0.14	ug/L	1		524.2	Total/NA

Client Sample ID: 370 Old Orchard — Lab Sample ID: 480-37649-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.1	J	2.5	0.54	ug/L	1		524.2	Total/NA

Client Sample ID: 45 Cestaro — Lab Sample ID: 480-37649-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.79		0.50	0.14	ug/L	1		524.2	Total/NA

Client Sample ID: 20 Cestaro — Lab Sample ID: 480-37649-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.53		0.50	0.14	ug/L	1		524.2	Total/NA

Client Sample ID: 45 Deerfield — Lab Sample ID: 480-37649-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.42	J	0.50	0.14	ug/L	1		524.2	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 480-37649-30

No Detections.

Client Sample ID: 145 Candlewood — Lab Sample ID: 480-37649-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.89		0.50	0.14	ug/L	1		524.2	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 480-37649-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	5.4		2.5	0.54	ug/L	1		524.2	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 480-37649-34

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37649-1

Client Sample ID: Trip Blank
Date Collected: 05/02/13 00:00
Date Received: 05/04/13 06:30

Lab Sample ID: 480-37649-1
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/08/13 12:53	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/08/13 12:53	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/08/13 12:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/08/13 12:53	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/08/13 12:53	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/08/13 12:53	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/08/13 12:53	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/08/13 12:53	1
1,2,3-Trichlorobenzene	ND	*	0.50	0.057	ug/L			05/08/13 12:53	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/08/13 12:53	1
1,2,4-Trichlorobenzene	ND	*	0.50	0.13	ug/L			05/08/13 12:53	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/08/13 12:53	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/08/13 12:53	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/08/13 12:53	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/08/13 12:53	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/08/13 12:53	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/08/13 12:53	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/08/13 12:53	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/08/13 12:53	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/08/13 12:53	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/08/13 12:53	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/08/13 12:53	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/08/13 12:53	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/08/13 12:53	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/08/13 12:53	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/08/13 12:53	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/08/13 12:53	1
Acetone	**1.3**	**J ***	2.5	0.54	ug/L			05/08/13 12:53	1
Benzene	ND		0.50	0.13	ug/L			05/08/13 12:53	1
Bromobenzene	ND		0.50	0.13	ug/L			05/08/13 12:53	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/08/13 12:53	1
Bromoform	ND		0.50	0.13	ug/L			05/08/13 12:53	1
Bromomethane	ND		0.50	0.051	ug/L			05/08/13 12:53	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/08/13 12:53	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/08/13 12:53	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/08/13 12:53	1
Chloroethane	ND		0.50	0.070	ug/L			05/08/13 12:53	1
Chloroform	ND		0.50	0.14	ug/L			05/08/13 12:53	1
Chloromethane	ND		0.50	0.063	ug/L			05/08/13 12:53	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/08/13 12:53	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/08/13 12:53	1
Dibromomethane	ND		0.50	0.17	ug/L			05/08/13 12:53	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/08/13 12:53	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/08/13 12:53	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/08/13 12:53	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/08/13 12:53	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/08/13 12:53	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/08/13 12:53	1
Methylene Chloride	**0.53**		0.50	0.25	ug/L			05/08/13 12:53	1

Client Sample ID: Trip Blank

Lab Sample ID: 480-37649-1

Date Collected: 05/02/13 00:00

Matrix: Water

Date Received: 05/04/13 06:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/08/13 12:53	1
Naphthalene	ND	*	0.50	0.060	ug/L			05/08/13 12:53	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/08/13 12:53	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/08/13 12:53	1
o-Xylene	ND		0.50	0.044	ug/L			05/08/13 12:53	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/08/13 12:53	1
Styrene	ND		0.50	0.044	ug/L			05/08/13 12:53	1
t-Butanol	ND		10	2.5	ug/L			05/08/13 12:53	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/08/13 12:53	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/08/13 12:53	1
Toluene	ND		0.50	0.10	ug/L			05/08/13 12:53	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/08/13 12:53	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/08/13 12:53	1
Trichloroethene	ND		0.50	0.060	ug/L			05/08/13 12:53	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/08/13 12:53	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/08/13 12:53	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/08/13 12:53	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/08/13 12:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*104*		*80 - 120*		*05/08/13 12:53*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*05/08/13 12:53*	*1*

Client Sample ID: 55 Cestaro

Lab Sample ID: 480-37649-2

Date Collected: 05/02/13 09:35

Matrix: Water

Date Received: 05/04/13 06:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/08/13 13:18	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/08/13 13:18	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/08/13 13:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/08/13 13:18	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/08/13 13:18	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/08/13 13:18	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/08/13 13:18	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/08/13 13:18	1
1,2,3-Trichlorobenzene	ND	*	0.50	0.057	ug/L			05/08/13 13:18	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/08/13 13:18	1
1,2,4-Trichlorobenzene	ND	*	0.50	0.13	ug/L			05/08/13 13:18	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/08/13 13:18	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/08/13 13:18	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/08/13 13:18	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/08/13 13:18	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/08/13 13:18	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/08/13 13:18	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/08/13 13:18	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/08/13 13:18	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/08/13 13:18	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/08/13 13:18	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37649-1

Client Sample ID: 55 Cestaro
Date Collected: 05/02/13 09:35
Date Received: 05/04/13 06:30

Lab Sample ID: 480-37649-2
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/08/13 13:18	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/08/13 13:18	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/08/13 13:18	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/08/13 13:18	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/08/13 13:18	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/08/13 13:18	1
Acetone	ND	*	2.5	0.54	ug/L			05/08/13 13:18	1
Benzene	ND		0.50	0.13	ug/L			05/08/13 13:18	1
Bromobenzene	ND		0.50	0.13	ug/L			05/08/13 13:18	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/08/13 13:18	1
Bromoform	ND		0.50	0.13	ug/L			05/08/13 13:18	1
Bromomethane	ND		0.50	0.051	ug/L			05/08/13 13:18	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/08/13 13:18	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/08/13 13:18	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/08/13 13:18	1
Chloroethane	ND		0.50	0.070	ug/L			05/08/13 13:18	1
Chloroform	**0.46**	**J**	0.50	0.14	ug/L			05/08/13 13:18	1
Chloromethane	ND		0.50	0.063	ug/L			05/08/13 13:18	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/08/13 13:18	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/08/13 13:18	1
Dibromomethane	ND		0.50	0.17	ug/L			05/08/13 13:18	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/08/13 13:18	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/08/13 13:18	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/08/13 13:18	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/08/13 13:18	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/08/13 13:18	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/08/13 13:18	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/08/13 13:18	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/08/13 13:18	1
Naphthalene	ND	*	0.50	0.060	ug/L			05/08/13 13:18	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/08/13 13:18	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/08/13 13:18	1
o-Xylene	ND		0.50	0.044	ug/L			05/08/13 13:18	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/08/13 13:18	1
Styrene	ND		0.50	0.044	ug/L			05/08/13 13:18	1
t-Butanol	ND		10	2.5	ug/L			05/08/13 13:18	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/08/13 13:18	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/08/13 13:18	1
Toluene	ND		0.50	0.10	ug/L			05/08/13 13:18	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/08/13 13:18	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/08/13 13:18	1
Trichloroethene	ND		0.50	0.060	ug/L			05/08/13 13:18	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/08/13 13:18	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/08/13 13:18	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/08/13 13:18	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/08/13 13:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*97*		*80 - 120*		*05/08/13 13:18*	*1*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*05/08/13 13:18*	*1*

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37649-1

Client Sample ID: 55 Cestaro

Lab Sample ID: 480-37649-2

Date Collected: 05/02/13 09:35

Matrix: Water

Date Received: 05/04/13 06:30

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		05/07/13 11:57	05/07/13 18:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*90*		*70 - 130*	*05/07/13 11:57*	*05/07/13 18:31*	*1*

Client Sample ID: 50 Fairview

Lab Sample ID: 480-37649-4

Date Collected: 05/02/13 10:25

Matrix: Water

Date Received: 05/04/13 06:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/08/13 14:07	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/08/13 14:07	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/08/13 14:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/08/13 14:07	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/08/13 14:07	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/08/13 14:07	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/08/13 14:07	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/08/13 14:07	1
1,2,3-Trichlorobenzene	ND	*	0.50	0.057	ug/L			05/08/13 14:07	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/08/13 14:07	1
1,2,4-Trichlorobenzene	ND	*	0.50	0.13	ug/L			05/08/13 14:07	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/08/13 14:07	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/08/13 14:07	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/08/13 14:07	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/08/13 14:07	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/08/13 14:07	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/08/13 14:07	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/08/13 14:07	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/08/13 14:07	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/08/13 14:07	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/08/13 14:07	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/08/13 14:07	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/08/13 14:07	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/08/13 14:07	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/08/13 14:07	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/08/13 14:07	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/08/13 14:07	1
Acetone	ND	*	2.5	0.54	ug/L			05/08/13 14:07	1
Benzene	ND		0.50	0.13	ug/L			05/08/13 14:07	1
Bromobenzene	ND		0.50	0.13	ug/L			05/08/13 14:07	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/08/13 14:07	1
Bromoform	ND		0.50	0.13	ug/L			05/08/13 14:07	1
Bromomethane	ND		0.50	0.051	ug/L			05/08/13 14:07	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/08/13 14:07	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/08/13 14:07	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/08/13 14:07	1
Chloroethane	ND		0.50	0.070	ug/L			05/08/13 14:07	1
Chloroform	**0.38**	**J**	0.50	0.14	ug/L			05/08/13 14:07	1
Chloromethane	ND		0.50	0.063	ug/L			05/08/13 14:07	1

Client Sample ID: 50 Fairview

Lab Sample ID: 480-37649-4

Date Collected: 05/02/13 10:25

Matrix: Water

Date Received: 05/04/13 06:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/08/13 14:07	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/08/13 14:07	1
Dibromomethane	ND		0.50	0.17	ug/L			05/08/13 14:07	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/08/13 14:07	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/08/13 14:07	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/08/13 14:07	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/08/13 14:07	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/08/13 14:07	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/08/13 14:07	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/08/13 14:07	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/08/13 14:07	1
Naphthalene	ND	*	0.50	0.060	ug/L			05/08/13 14:07	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/08/13 14:07	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/08/13 14:07	1
o-Xylene	ND		0.50	0.044	ug/L			05/08/13 14:07	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/08/13 14:07	1
Styrene	ND		0.50	0.044	ug/L			05/08/13 14:07	1
t-Butanol	ND		10	2.5	ug/L			05/08/13 14:07	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/08/13 14:07	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/08/13 14:07	1
Toluene	ND		0.50	0.10	ug/L			05/08/13 14:07	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/08/13 14:07	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/08/13 14:07	1
Trichloroethene	ND		0.50	0.060	ug/L			05/08/13 14:07	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/08/13 14:07	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/08/13 14:07	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/08/13 14:07	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/08/13 14:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*106*		*80 - 120*		*05/08/13 14:07*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*05/08/13 14:07*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		05/07/13 11:57	05/07/13 18:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*95*		*70 - 130*	*05/07/13 11:57*	*05/07/13 18:48*	*1*

Client Sample ID: 418 Schoolhouse

Lab Sample ID: 480-37649-6

Date Collected: 05/02/13 11:05

Matrix: Water

Date Received: 05/04/13 06:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/08/13 14:57	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/08/13 14:57	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/08/13 14:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/08/13 14:57	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37649-1

Client Sample ID: 418 Schoolhouse
Date Collected: 05/02/13 11:05
Date Received: 05/04/13 06:30

Lab Sample ID: 480-37649-6
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/08/13 14:57	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/08/13 14:57	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/08/13 14:57	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/08/13 14:57	1
1,2,3-Trichlorobenzene	ND	*	0.50	0.057	ug/L			05/08/13 14:57	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/08/13 14:57	1
1,2,4-Trichlorobenzene	ND	*	0.50	0.13	ug/L			05/08/13 14:57	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/08/13 14:57	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/08/13 14:57	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/08/13 14:57	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/08/13 14:57	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/08/13 14:57	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/08/13 14:57	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/08/13 14:57	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/08/13 14:57	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/08/13 14:57	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/08/13 14:57	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/08/13 14:57	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/08/13 14:57	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/08/13 14:57	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/08/13 14:57	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/08/13 14:57	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/08/13 14:57	1
Acetone	ND	*	2.5	0.54	ug/L			05/08/13 14:57	1
Benzene	ND		0.50	0.13	ug/L			05/08/13 14:57	1
Bromobenzene	ND		0.50	0.13	ug/L			05/08/13 14:57	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/08/13 14:57	1
Bromoform	ND		0.50	0.13	ug/L			05/08/13 14:57	1
Bromomethane	ND		0.50	0.051	ug/L			05/08/13 14:57	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/08/13 14:57	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/08/13 14:57	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/08/13 14:57	1
Chloroethane	ND		0.50	0.070	ug/L			05/08/13 14:57	1
Chloroform	**0.22**	**J**	0.50	0.14	ug/L			05/08/13 14:57	1
Chloromethane	ND		0.50	0.063	ug/L			05/08/13 14:57	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/08/13 14:57	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/08/13 14:57	1
Dibromomethane	ND		0.50	0.17	ug/L			05/08/13 14:57	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/08/13 14:57	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/08/13 14:57	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/08/13 14:57	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/08/13 14:57	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/08/13 14:57	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/08/13 14:57	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/08/13 14:57	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/08/13 14:57	1
Naphthalene	ND	*	0.50	0.060	ug/L			05/08/13 14:57	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/08/13 14:57	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/08/13 14:57	1

Client Sample ID: 418 Schoolhouse

Lab Sample ID: 480-37649-6

Date Collected: 05/02/13 11:05

Matrix: Water

Date Received: 05/04/13 06:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		0.50	0.044	ug/L			05/08/13 14:57	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/08/13 14:57	1
Styrene	ND		0.50	0.044	ug/L			05/08/13 14:57	1
t-Butanol	ND		10	2.5	ug/L			05/08/13 14:57	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/08/13 14:57	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/08/13 14:57	1
Toluene	ND		0.50	0.10	ug/L			05/08/13 14:57	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/08/13 14:57	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/08/13 14:57	1
Trichloroethene	ND		0.50	0.060	ug/L			05/08/13 14:57	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/08/13 14:57	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/08/13 14:57	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/08/13 14:57	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/08/13 14:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*104*		*80 - 120*		*05/08/13 14:57*	*1*
4-Bromofluorobenzene (Surr)	*108*		*80 - 120*		*05/08/13 14:57*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		05/07/13 11:57	05/07/13 19:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*96*		*70 - 130*	*05/07/13 11:57*	*05/07/13 19:04*	*1*

Client Sample ID: 40 Chokeberry

Lab Sample ID: 480-37649-8

Date Collected: 05/02/13 11:55

Matrix: Water

Date Received: 05/04/13 06:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/08/13 15:46	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/08/13 15:46	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/08/13 15:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/08/13 15:46	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/08/13 15:46	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/08/13 15:46	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/08/13 15:46	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/08/13 15:46	1
1,2,3-Trichlorobenzene	ND	*	0.50	0.057	ug/L			05/08/13 15:46	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/08/13 15:46	1
1,2,4-Trichlorobenzene	ND	*	0.50	0.13	ug/L			05/08/13 15:46	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/08/13 15:46	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/08/13 15:46	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/08/13 15:46	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/08/13 15:46	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/08/13 15:46	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/08/13 15:46	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/08/13 15:46	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37649-1

Client Sample ID: 40 Chokeberry
Date Collected: 05/02/13 11:55
Date Received: 05/04/13 06:30

Lab Sample ID: 480-37649-8
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/08/13 15:46	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/08/13 15:46	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/08/13 15:46	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/08/13 15:46	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/08/13 15:46	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/08/13 15:46	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/08/13 15:46	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/08/13 15:46	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/08/13 15:46	1
Acetone	ND	*	2.5	0.54	ug/L			05/08/13 15:46	1
Benzene	ND		0.50	0.13	ug/L			05/08/13 15:46	1
Bromobenzene	ND		0.50	0.13	ug/L			05/08/13 15:46	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/08/13 15:46	1
Bromoform	ND		0.50	0.13	ug/L			05/08/13 15:46	1
Bromomethane	ND		0.50	0.051	ug/L			05/08/13 15:46	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/08/13 15:46	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/08/13 15:46	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/08/13 15:46	1
Chloroethane	ND		0.50	0.070	ug/L			05/08/13 15:46	1
Chloroform	**0.38**	**J**	0.50	0.14	ug/L			05/08/13 15:46	1
Chloromethane	ND		0.50	0.063	ug/L			05/08/13 15:46	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/08/13 15:46	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/08/13 15:46	1
Dibromomethane	ND		0.50	0.17	ug/L			05/08/13 15:46	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/08/13 15:46	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/08/13 15:46	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/08/13 15:46	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/08/13 15:46	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/08/13 15:46	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/08/13 15:46	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/08/13 15:46	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/08/13 15:46	1
Naphthalene	ND	*	0.50	0.060	ug/L			05/08/13 15:46	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/08/13 15:46	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/08/13 15:46	1
o-Xylene	ND		0.50	0.044	ug/L			05/08/13 15:46	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/08/13 15:46	1
Styrene	ND		0.50	0.044	ug/L			05/08/13 15:46	1
t-Butanol	ND		10	2.5	ug/L			05/08/13 15:46	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/08/13 15:46	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/08/13 15:46	1
Toluene	ND		0.50	0.10	ug/L			05/08/13 15:46	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/08/13 15:46	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/08/13 15:46	1
Trichloroethene	ND		0.50	0.060	ug/L			05/08/13 15:46	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/08/13 15:46	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/08/13 15:46	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/08/13 15:46	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/08/13 15:46	1

Client Sample ID: 40 Chokeberry

Lab Sample ID: 480-37649-8

Date Collected: 05/02/13 11:55

Matrix: Water

Date Received: 05/04/13 06:30

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	*100*		*80 - 120*		*05/08/13 15:46*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*05/08/13 15:46*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.069	J	0.20	0.041	ug/L		05/07/13 11:57	05/07/13 19:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	*89*		*70 - 130*	*05/07/13 11:57*	*05/07/13 19:21*	*1*

Client Sample ID: 9 Eldia

Lab Sample ID: 480-37649-10

Date Collected: 05/02/13 12:40

Matrix: Water

Date Received: 05/04/13 06:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/08/13 16:35	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/08/13 16:35	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/08/13 16:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/08/13 16:35	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/08/13 16:35	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/08/13 16:35	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/08/13 16:35	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/08/13 16:35	1
1,2,3-Trichlorobenzene	ND	*	0.50	0.057	ug/L			05/08/13 16:35	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/08/13 16:35	1
1,2,4-Trichlorobenzene	ND	*	0.50	0.13	ug/L			05/08/13 16:35	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/08/13 16:35	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/08/13 16:35	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/08/13 16:35	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/08/13 16:35	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/08/13 16:35	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/08/13 16:35	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/08/13 16:35	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/08/13 16:35	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/08/13 16:35	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/08/13 16:35	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/08/13 16:35	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/08/13 16:35	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/08/13 16:35	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/08/13 16:35	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/08/13 16:35	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/08/13 16:35	1
Acetone	0.88	J *	2.5	0.54	ug/L			05/08/13 16:35	1
Benzene	ND		0.50	0.13	ug/L			05/08/13 16:35	1
Bromobenzene	ND		0.50	0.13	ug/L			05/08/13 16:35	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/08/13 16:35	1
Bromoform	ND		0.50	0.13	ug/L			05/08/13 16:35	1
Bromomethane	ND		0.50	0.051	ug/L			05/08/13 16:35	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/08/13 16:35	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/08/13 16:35	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37649-1

Client Sample ID: 9 Eldia
Date Collected: 05/02/13 12:40
Date Received: 05/04/13 06:30

Lab Sample ID: 480-37649-10
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/08/13 16:35	1
Chloroethane	ND		0.50	0.070	ug/L			05/08/13 16:35	1
Chloroform	**0.19**	**J**	0.50	0.14	ug/L			05/08/13 16:35	1
Chloromethane	ND		0.50	0.063	ug/L			05/08/13 16:35	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/08/13 16:35	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/08/13 16:35	1
Dibromomethane	ND		0.50	0.17	ug/L			05/08/13 16:35	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/08/13 16:35	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/08/13 16:35	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/08/13 16:35	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/08/13 16:35	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/08/13 16:35	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/08/13 16:35	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/08/13 16:35	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/08/13 16:35	1
Naphthalene	ND	*	0.50	0.060	ug/L			05/08/13 16:35	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/08/13 16:35	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/08/13 16:35	1
o-Xylene	ND		0.50	0.044	ug/L			05/08/13 16:35	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/08/13 16:35	1
Styrene	ND		0.50	0.044	ug/L			05/08/13 16:35	1
t-Butanol	ND		10	2.5	ug/L			05/08/13 16:35	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/08/13 16:35	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/08/13 16:35	1
Toluene	ND		0.50	0.10	ug/L			05/08/13 16:35	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/08/13 16:35	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/08/13 16:35	1
Trichloroethene	ND		0.50	0.060	ug/L			05/08/13 16:35	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/08/13 16:35	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/08/13 16:35	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/08/13 16:35	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/08/13 16:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*101*		*80 - 120*		*05/08/13 16:35*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*05/08/13 16:35*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**0.25**		0.20	0.041	ug/L		05/07/13 11:57	05/07/13 19:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*91*		*70 - 130*	*05/07/13 11:57*	*05/07/13 19:37*	*1*

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37649-1

Client Sample ID: 35 Fairview
Date Collected: 05/02/13 09:00
Date Received: 05/04/13 06:30

Lab Sample ID: 480-37649-12
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/08/13 17:28	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/08/13 17:28	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/08/13 17:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/08/13 17:28	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/08/13 17:28	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/08/13 17:28	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/08/13 17:28	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/08/13 17:28	1
1,2,3-Trichlorobenzene	ND	*	0.50	0.057	ug/L			05/08/13 17:28	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/08/13 17:28	1
1,2,4-Trichlorobenzene	ND	*	0.50	0.13	ug/L			05/08/13 17:28	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/08/13 17:28	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/08/13 17:28	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/08/13 17:28	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/08/13 17:28	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/08/13 17:28	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/08/13 17:28	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/08/13 17:28	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/08/13 17:28	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/08/13 17:28	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/08/13 17:28	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/08/13 17:28	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/08/13 17:28	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/08/13 17:28	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/08/13 17:28	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/08/13 17:28	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/08/13 17:28	1
Acetone	**0.79**	**J ***	2.5	0.54	ug/L			05/08/13 17:28	1
Benzene	ND		0.50	0.13	ug/L			05/08/13 17:28	1
Bromobenzene	ND		0.50	0.13	ug/L			05/08/13 17:28	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/08/13 17:28	1
Bromoform	ND		0.50	0.13	ug/L			05/08/13 17:28	1
Bromomethane	ND		0.50	0.051	ug/L			05/08/13 17:28	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/08/13 17:28	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/08/13 17:28	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/08/13 17:28	1
Chloroethane	ND		0.50	0.070	ug/L			05/08/13 17:28	1
Chloroform	ND		0.50	0.14	ug/L			05/08/13 17:28	1
Chloromethane	ND		0.50	0.063	ug/L			05/08/13 17:28	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/08/13 17:28	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/08/13 17:28	1
Dibromomethane	ND		0.50	0.17	ug/L			05/08/13 17:28	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/08/13 17:28	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/08/13 17:28	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/08/13 17:28	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/08/13 17:28	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/08/13 17:28	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/08/13 17:28	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/08/13 17:28	1

Client Sample ID: 35 Fairview

Lab Sample ID: 480-37649-12

Date Collected: 05/02/13 09:00

Matrix: Water

Date Received: 05/04/13 06:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/08/13 17:28	1
Naphthalene	ND	*	0.50	0.060	ug/L			05/08/13 17:28	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/08/13 17:28	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/08/13 17:28	1
o-Xylene	ND		0.50	0.044	ug/L			05/08/13 17:28	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/08/13 17:28	1
Styrene	ND		0.50	0.044	ug/L			05/08/13 17:28	1
t-Butanol	ND		10	2.5	ug/L			05/08/13 17:28	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/08/13 17:28	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/08/13 17:28	1
Toluene	ND		0.50	0.10	ug/L			05/08/13 17:28	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/08/13 17:28	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/08/13 17:28	1
Trichloroethene	ND		0.50	0.060	ug/L			05/08/13 17:28	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/08/13 17:28	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/08/13 17:28	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/08/13 17:28	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/08/13 17:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*116*		*80 - 120*		*05/08/13 17:28*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*05/08/13 17:28*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		05/07/13 11:57	05/07/13 19:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*94*		*70 - 130*	*05/07/13 11:57*	*05/07/13 19:53*	*1*

Client Sample ID: 150 Candlewood

Lab Sample ID: 480-37649-14

Date Collected: 05/02/13 10:02

Matrix: Water

Date Received: 05/04/13 06:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/08/13 18:18	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/08/13 18:18	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/08/13 18:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/08/13 18:18	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/08/13 18:18	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/08/13 18:18	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/08/13 18:18	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/08/13 18:18	1
1,2,3-Trichlorobenzene	ND	*	0.50	0.057	ug/L			05/08/13 18:18	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/08/13 18:18	1
1,2,4-Trichlorobenzene	ND	*	0.50	0.13	ug/L			05/08/13 18:18	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/08/13 18:18	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/08/13 18:18	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/08/13 18:18	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37649-1

Client Sample ID: 150 Candlewood
Date Collected: 05/02/13 10:02
Date Received: 05/04/13 06:30

Lab Sample ID: 480-37649-14
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/08/13 18:18	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/08/13 18:18	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/08/13 18:18	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/08/13 18:18	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/08/13 18:18	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/08/13 18:18	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/08/13 18:18	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/08/13 18:18	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/08/13 18:18	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/08/13 18:18	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/08/13 18:18	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/08/13 18:18	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/08/13 18:18	1
Acetone	ND	*	2.5	0.54	ug/L			05/08/13 18:18	1
Benzene	ND		0.50	0.13	ug/L			05/08/13 18:18	1
Bromobenzene	ND		0.50	0.13	ug/L			05/08/13 18:18	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/08/13 18:18	1
Bromoform	ND		0.50	0.13	ug/L			05/08/13 18:18	1
Bromomethane	ND		0.50	0.051	ug/L			05/08/13 18:18	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/08/13 18:18	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/08/13 18:18	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/08/13 18:18	1
Chloroethane	ND		0.50	0.070	ug/L			05/08/13 18:18	1
Chloroform	ND		0.50	0.14	ug/L			05/08/13 18:18	1
Chloromethane	ND		0.50	0.063	ug/L			05/08/13 18:18	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/08/13 18:18	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/08/13 18:18	1
Dibromomethane	ND		0.50	0.17	ug/L			05/08/13 18:18	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/08/13 18:18	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/08/13 18:18	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/08/13 18:18	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/08/13 18:18	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/08/13 18:18	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/08/13 18:18	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/08/13 18:18	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/08/13 18:18	1
Naphthalene	ND	*	0.50	0.060	ug/L			05/08/13 18:18	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/08/13 18:18	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/08/13 18:18	1
o-Xylene	ND		0.50	0.044	ug/L			05/08/13 18:18	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/08/13 18:18	1
Styrene	ND		0.50	0.044	ug/L			05/08/13 18:18	1
t-Butanol	ND		10	2.5	ug/L			05/08/13 18:18	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/08/13 18:18	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/08/13 18:18	1
Toluene	ND		0.50	0.10	ug/L			05/08/13 18:18	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/08/13 18:18	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/08/13 18:18	1
Trichloroethene	ND		0.50	0.060	ug/L			05/08/13 18:18	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37649-1

Client Sample ID: 150 Candlewood

Lab Sample ID: 480-37649-14

Date Collected: 05/02/13 10:02

Matrix: Water

Date Received: 05/04/13 06:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/08/13 18:18	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/08/13 18:18	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/08/13 18:18	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/08/13 18:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*107*		*80 - 120*		*05/08/13 18:18*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*05/08/13 18:18*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		05/07/13 11:57	05/07/13 20:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*89*		*70 - 130*	*05/07/13 11:57*	*05/07/13 20:09*	*1*

Client Sample ID: 90 Cestaro

Lab Sample ID: 480-37649-16

Date Collected: 05/02/13 10:55

Matrix: Water

Date Received: 05/04/13 06:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/08/13 19:07	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/08/13 19:07	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/08/13 19:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/08/13 19:07	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/08/13 19:07	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/08/13 19:07	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/08/13 19:07	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/08/13 19:07	1
1,2,3-Trichlorobenzene	ND	*	0.50	0.057	ug/L			05/08/13 19:07	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/08/13 19:07	1
1,2,4-Trichlorobenzene	ND	*	0.50	0.13	ug/L			05/08/13 19:07	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/08/13 19:07	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/08/13 19:07	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/08/13 19:07	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/08/13 19:07	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/08/13 19:07	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/08/13 19:07	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/08/13 19:07	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/08/13 19:07	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/08/13 19:07	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/08/13 19:07	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/08/13 19:07	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/08/13 19:07	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/08/13 19:07	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/08/13 19:07	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/08/13 19:07	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/08/13 19:07	1
Acetone	**1.0**	**J ***	2.5	0.54	ug/L			05/08/13 19:07	1

Client Sample ID: 90 Cestaro
Date Collected: 05/02/13 10:55
Date Received: 05/04/13 06:30

Lab Sample ID: 480-37649-16
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.13	ug/L			05/08/13 19:07	1
Bromobenzene	ND		0.50	0.13	ug/L			05/08/13 19:07	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/08/13 19:07	1
Bromoform	ND		0.50	0.13	ug/L			05/08/13 19:07	1
Bromomethane	ND		0.50	0.051	ug/L			05/08/13 19:07	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/08/13 19:07	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/08/13 19:07	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/08/13 19:07	1
Chloroethane	ND		0.50	0.070	ug/L			05/08/13 19:07	1
Chloroform	**0.66**		0.50	0.14	ug/L			05/08/13 19:07	1
Chloromethane	ND		0.50	0.063	ug/L			05/08/13 19:07	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/08/13 19:07	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/08/13 19:07	1
Dibromomethane	ND		0.50	0.17	ug/L			05/08/13 19:07	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/08/13 19:07	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/08/13 19:07	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/08/13 19:07	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/08/13 19:07	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/08/13 19:07	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/08/13 19:07	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/08/13 19:07	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/08/13 19:07	1
Naphthalene	ND	*	0.50	0.060	ug/L			05/08/13 19:07	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/08/13 19:07	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/08/13 19:07	1
o-Xylene	ND		0.50	0.044	ug/L			05/08/13 19:07	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/08/13 19:07	1
Styrene	ND		0.50	0.044	ug/L			05/08/13 19:07	1
t-Butanol	ND		10	2.5	ug/L			05/08/13 19:07	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/08/13 19:07	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/08/13 19:07	1
Toluene	ND		0.50	0.10	ug/L			05/08/13 19:07	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/08/13 19:07	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/08/13 19:07	1
Trichloroethene	ND		0.50	0.060	ug/L			05/08/13 19:07	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/08/13 19:07	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/08/13 19:07	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/08/13 19:07	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/08/13 19:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*100*		*80 - 120*		*05/08/13 19:07*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*05/08/13 19:07*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		05/07/13 11:57	05/07/13 20:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*97*		*70 - 130*	*05/07/13 11:57*	*05/07/13 20:26*	*1*

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37649-1

Client Sample ID: 175 Meetinghouse
Date Collected: 05/02/13 11:40
Date Received: 05/04/13 06:30

Lab Sample ID: 480-37649-18
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/08/13 19:56	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/08/13 19:56	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/08/13 19:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/08/13 19:56	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/08/13 19:56	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/08/13 19:56	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/08/13 19:56	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/08/13 19:56	1
1,2,3-Trichlorobenzene	ND	*	0.50	0.057	ug/L			05/08/13 19:56	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/08/13 19:56	1
1,2,4-Trichlorobenzene	ND	*	0.50	0.13	ug/L			05/08/13 19:56	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/08/13 19:56	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/08/13 19:56	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/08/13 19:56	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/08/13 19:56	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/08/13 19:56	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/08/13 19:56	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/08/13 19:56	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/08/13 19:56	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/08/13 19:56	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/08/13 19:56	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/08/13 19:56	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/08/13 19:56	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/08/13 19:56	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/08/13 19:56	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/08/13 19:56	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/08/13 19:56	1
Acetone	**1.5**	**J ***	2.5	0.54	ug/L			05/08/13 19:56	1
Benzene	ND		0.50	0.13	ug/L			05/08/13 19:56	1
Bromobenzene	ND		0.50	0.13	ug/L			05/08/13 19:56	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/08/13 19:56	1
Bromoform	ND		0.50	0.13	ug/L			05/08/13 19:56	1
Bromomethane	ND		0.50	0.051	ug/L			05/08/13 19:56	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/08/13 19:56	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/08/13 19:56	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/08/13 19:56	1
Chloroethane	ND		0.50	0.070	ug/L			05/08/13 19:56	1
Chloroform	**0.56**		0.50	0.14	ug/L			05/08/13 19:56	1
Chloromethane	ND		0.50	0.063	ug/L			05/08/13 19:56	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/08/13 19:56	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/08/13 19:56	1
Dibromomethane	ND		0.50	0.17	ug/L			05/08/13 19:56	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/08/13 19:56	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/08/13 19:56	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/08/13 19:56	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/08/13 19:56	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/08/13 19:56	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/08/13 19:56	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/08/13 19:56	1

Client Sample ID: 175 Meetinghouse
Date Collected: 05/02/13 11:40
Date Received: 05/04/13 06:30

Lab Sample ID: 480-37649-18
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/08/13 19:56	1
Naphthalene	ND	*	0.50	0.060	ug/L			05/08/13 19:56	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/08/13 19:56	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/08/13 19:56	1
o-Xylene	ND		0.50	0.044	ug/L			05/08/13 19:56	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/08/13 19:56	1
Styrene	ND		0.50	0.044	ug/L			05/08/13 19:56	1
t-Butanol	ND		10	2.5	ug/L			05/08/13 19:56	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/08/13 19:56	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/08/13 19:56	1
Toluene	ND		0.50	0.10	ug/L			05/08/13 19:56	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/08/13 19:56	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/08/13 19:56	1
Trichloroethene	ND		0.50	0.060	ug/L			05/08/13 19:56	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/08/13 19:56	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/08/13 19:56	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/08/13 19:56	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/08/13 19:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*103*		*80 - 120*		*05/08/13 19:56*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*05/08/13 19:56*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		05/07/13 11:57	05/07/13 20:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*101*		*70 - 130*	*05/07/13 11:57*	*05/07/13 20:58*	*1*

Client Sample ID: 25 Duck Marsh
Date Collected: 05/02/13 12:50
Date Received: 05/04/13 06:30

Lab Sample ID: 480-37649-20
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/08/13 20:45	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/08/13 20:45	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/08/13 20:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/08/13 20:45	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/08/13 20:45	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/08/13 20:45	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/08/13 20:45	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/08/13 20:45	1
1,2,3-Trichlorobenzene	ND	*	0.50	0.057	ug/L			05/08/13 20:45	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/08/13 20:45	1
1,2,4-Trichlorobenzene	ND	*	0.50	0.13	ug/L			05/08/13 20:45	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/08/13 20:45	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/08/13 20:45	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/08/13 20:45	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37649-1

Client Sample ID: 25 Duck Marsh
Date Collected: 05/02/13 12:50
Date Received: 05/04/13 06:30

Lab Sample ID: 480-37649-20
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/08/13 20:45	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/08/13 20:45	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/08/13 20:45	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/08/13 20:45	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/08/13 20:45	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/08/13 20:45	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/08/13 20:45	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/08/13 20:45	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/08/13 20:45	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/08/13 20:45	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/08/13 20:45	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/08/13 20:45	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/08/13 20:45	1
Acetone	ND	*	2.5	0.54	ug/L			05/08/13 20:45	1
Benzene	ND		0.50	0.13	ug/L			05/08/13 20:45	1
Bromobenzene	ND		0.50	0.13	ug/L			05/08/13 20:45	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/08/13 20:45	1
Bromoform	ND		0.50	0.13	ug/L			05/08/13 20:45	1
Bromomethane	ND		0.50	0.051	ug/L			05/08/13 20:45	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/08/13 20:45	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/08/13 20:45	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/08/13 20:45	1
Chloroethane	ND		0.50	0.070	ug/L			05/08/13 20:45	1
Chloroform	**0.18**	**J**	0.50	0.14	ug/L			05/08/13 20:45	1
Chloromethane	ND		0.50	0.063	ug/L			05/08/13 20:45	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/08/13 20:45	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/08/13 20:45	1
Dibromomethane	ND		0.50	0.17	ug/L			05/08/13 20:45	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/08/13 20:45	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/08/13 20:45	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/08/13 20:45	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/08/13 20:45	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/08/13 20:45	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/08/13 20:45	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/08/13 20:45	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/08/13 20:45	1
Naphthalene	ND	*	0.50	0.060	ug/L			05/08/13 20:45	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/08/13 20:45	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/08/13 20:45	1
o-Xylene	ND		0.50	0.044	ug/L			05/08/13 20:45	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/08/13 20:45	1
Styrene	ND		0.50	0.044	ug/L			05/08/13 20:45	1
t-Butanol	ND		10	2.5	ug/L			05/08/13 20:45	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/08/13 20:45	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/08/13 20:45	1
Toluene	ND		0.50	0.10	ug/L			05/08/13 20:45	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/08/13 20:45	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/08/13 20:45	1
Trichloroethene	ND		0.50	0.060	ug/L			05/08/13 20:45	1

Client Sample ID: 25 Duck Marsh

Lab Sample ID: 480-37649-20

Date Collected: 05/02/13 12:50

Matrix: Water

Date Received: 05/04/13 06:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/08/13 20:45	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/08/13 20:45	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/08/13 20:45	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/08/13 20:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*101*		*80 - 120*		*05/08/13 20:45*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*05/08/13 20:45*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		05/07/13 11:57	05/07/13 21:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*98*		*70 - 130*	*05/07/13 11:57*	*05/07/13 21:15*	*1*

Client Sample ID: 370 Old Orchard

Lab Sample ID: 480-37649-22

Date Collected: 05/02/13 15:00

Matrix: Water

Date Received: 05/04/13 06:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/09/13 03:04	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/09/13 03:04	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/09/13 03:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/09/13 03:04	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/09/13 03:04	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/09/13 03:04	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/09/13 03:04	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/09/13 03:04	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/09/13 03:04	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/09/13 03:04	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/09/13 03:04	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/09/13 03:04	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/09/13 03:04	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/09/13 03:04	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/09/13 03:04	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/09/13 03:04	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/09/13 03:04	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/09/13 03:04	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/09/13 03:04	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/09/13 03:04	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/09/13 03:04	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/09/13 03:04	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/09/13 03:04	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/09/13 03:04	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/09/13 03:04	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/09/13 03:04	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/09/13 03:04	1
Acetone	**1.1**	**J**	2.5	0.54	ug/L			05/09/13 03:04	1

Client Sample ID: 370 Old Orchard
Date Collected: 05/02/13 15:00
Date Received: 05/04/13 06:30

Lab Sample ID: 480-37649-22
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.13	ug/L			05/09/13 03:04	1
Bromobenzene	ND		0.50	0.13	ug/L			05/09/13 03:04	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/09/13 03:04	1
Bromoform	ND		0.50	0.13	ug/L			05/09/13 03:04	1
Bromomethane	ND		0.50	0.051	ug/L			05/09/13 03:04	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/09/13 03:04	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/09/13 03:04	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/09/13 03:04	1
Chloroethane	ND		0.50	0.070	ug/L			05/09/13 03:04	1
Chloroform	ND		0.50	0.14	ug/L			05/09/13 03:04	1
Chloromethane	ND		0.50	0.063	ug/L			05/09/13 03:04	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/09/13 03:04	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/09/13 03:04	1
Dibromomethane	ND		0.50	0.17	ug/L			05/09/13 03:04	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/09/13 03:04	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/09/13 03:04	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/09/13 03:04	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/09/13 03:04	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/09/13 03:04	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/09/13 03:04	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/09/13 03:04	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/09/13 03:04	1
Naphthalene	ND		0.50	0.060	ug/L			05/09/13 03:04	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/09/13 03:04	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/09/13 03:04	1
o-Xylene	ND		0.50	0.044	ug/L			05/09/13 03:04	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/09/13 03:04	1
Styrene	ND		0.50	0.044	ug/L			05/09/13 03:04	1
t-Butanol	ND		10	2.5	ug/L			05/09/13 03:04	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/09/13 03:04	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/09/13 03:04	1
Toluene	ND		0.50	0.10	ug/L			05/09/13 03:04	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/09/13 03:04	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/09/13 03:04	1
Trichloroethene	ND		0.50	0.060	ug/L			05/09/13 03:04	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/09/13 03:04	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/09/13 03:04	1
Vinyl chloride	ND	*	0.50	0.059	ug/L			05/09/13 03:04	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/09/13 03:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*105*		*80 - 120*		*05/09/13 03:04*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*05/09/13 03:04*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		05/07/13 11:57	05/07/13 21:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*83*		*70 - 130*	*05/07/13 11:57*	*05/07/13 21:31*	*1*

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37649-1

Client Sample ID: 45 Cestaro
Date Collected: 05/02/13 14:15
Date Received: 05/04/13 06:30

Lab Sample ID: 480-37649-24
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/09/13 03:52	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/09/13 03:52	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/09/13 03:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/09/13 03:52	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/09/13 03:52	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/09/13 03:52	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/09/13 03:52	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/09/13 03:52	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/09/13 03:52	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/09/13 03:52	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/09/13 03:52	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/09/13 03:52	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/09/13 03:52	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/09/13 03:52	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/09/13 03:52	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/09/13 03:52	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/09/13 03:52	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/09/13 03:52	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/09/13 03:52	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/09/13 03:52	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/09/13 03:52	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/09/13 03:52	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/09/13 03:52	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/09/13 03:52	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/09/13 03:52	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/09/13 03:52	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/09/13 03:52	1
Acetone	ND		2.5	0.54	ug/L			05/09/13 03:52	1
Benzene	ND		0.50	0.13	ug/L			05/09/13 03:52	1
Bromobenzene	ND		0.50	0.13	ug/L			05/09/13 03:52	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/09/13 03:52	1
Bromoform	ND		0.50	0.13	ug/L			05/09/13 03:52	1
Bromomethane	ND		0.50	0.051	ug/L			05/09/13 03:52	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/09/13 03:52	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/09/13 03:52	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/09/13 03:52	1
Chloroethane	ND		0.50	0.070	ug/L			05/09/13 03:52	1
Chloroform	**0.79**		0.50	0.14	ug/L			05/09/13 03:52	1
Chloromethane	ND		0.50	0.063	ug/L			05/09/13 03:52	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/09/13 03:52	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/09/13 03:52	1
Dibromomethane	ND		0.50	0.17	ug/L			05/09/13 03:52	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/09/13 03:52	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/09/13 03:52	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/09/13 03:52	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/09/13 03:52	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/09/13 03:52	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/09/13 03:52	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/09/13 03:52	1

Client Sample ID: 45 Cestaro

Lab Sample ID: 480-37649-24

Date Collected: 05/02/13 14:15

Matrix: Water

Date Received: 05/04/13 06:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/09/13 03:52	1
Naphthalene	ND		0.50	0.060	ug/L			05/09/13 03:52	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/09/13 03:52	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/09/13 03:52	1
o-Xylene	ND		0.50	0.044	ug/L			05/09/13 03:52	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/09/13 03:52	1
Styrene	ND		0.50	0.044	ug/L			05/09/13 03:52	1
t-Butanol	ND		10	2.5	ug/L			05/09/13 03:52	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/09/13 03:52	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/09/13 03:52	1
Toluene	ND		0.50	0.10	ug/L			05/09/13 03:52	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/09/13 03:52	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/09/13 03:52	1
Trichloroethene	ND		0.50	0.060	ug/L			05/09/13 03:52	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/09/13 03:52	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/09/13 03:52	1
Vinyl chloride	ND	*	0.50	0.059	ug/L			05/09/13 03:52	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/09/13 03:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*105*		*80 - 120*		*05/09/13 03:52*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*05/09/13 03:52*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		05/07/13 11:57	05/07/13 21:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*91*		*70 - 130*	*05/07/13 11:57*	*05/07/13 21:47*	*1*

Client Sample ID: 20 Cestaro

Lab Sample ID: 480-37649-26

Date Collected: 05/02/13 15:05

Matrix: Water

Date Received: 05/04/13 06:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/09/13 04:41	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/09/13 04:41	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/09/13 04:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/09/13 04:41	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/09/13 04:41	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/09/13 04:41	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/09/13 04:41	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/09/13 04:41	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/09/13 04:41	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/09/13 04:41	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/09/13 04:41	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/09/13 04:41	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/09/13 04:41	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/09/13 04:41	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37649-1

Client Sample ID: 20 Cestaro
Date Collected: 05/02/13 15:05
Date Received: 05/04/13 06:30

Lab Sample ID: 480-37649-26
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/09/13 04:41	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/09/13 04:41	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/09/13 04:41	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/09/13 04:41	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/09/13 04:41	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/09/13 04:41	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/09/13 04:41	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/09/13 04:41	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/09/13 04:41	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/09/13 04:41	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/09/13 04:41	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/09/13 04:41	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/09/13 04:41	1
Acetone	ND		2.5	0.54	ug/L			05/09/13 04:41	1
Benzene	ND		0.50	0.13	ug/L			05/09/13 04:41	1
Bromobenzene	ND		0.50	0.13	ug/L			05/09/13 04:41	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/09/13 04:41	1
Bromoform	ND		0.50	0.13	ug/L			05/09/13 04:41	1
Bromomethane	ND		0.50	0.051	ug/L			05/09/13 04:41	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/09/13 04:41	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/09/13 04:41	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/09/13 04:41	1
Chloroethane	ND		0.50	0.070	ug/L			05/09/13 04:41	1
Chloroform	**0.53**		0.50	0.14	ug/L			05/09/13 04:41	1
Chloromethane	ND		0.50	0.063	ug/L			05/09/13 04:41	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/09/13 04:41	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/09/13 04:41	1
Dibromomethane	ND		0.50	0.17	ug/L			05/09/13 04:41	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/09/13 04:41	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/09/13 04:41	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/09/13 04:41	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/09/13 04:41	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/09/13 04:41	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/09/13 04:41	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/09/13 04:41	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/09/13 04:41	1
Naphthalene	ND		0.50	0.060	ug/L			05/09/13 04:41	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/09/13 04:41	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/09/13 04:41	1
o-Xylene	ND		0.50	0.044	ug/L			05/09/13 04:41	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/09/13 04:41	1
Styrene	ND		0.50	0.044	ug/L			05/09/13 04:41	1
t-Butanol	ND		10	2.5	ug/L			05/09/13 04:41	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/09/13 04:41	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/09/13 04:41	1
Toluene	ND		0.50	0.10	ug/L			05/09/13 04:41	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/09/13 04:41	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/09/13 04:41	1
Trichloroethene	ND		0.50	0.060	ug/L			05/09/13 04:41	1

Client Sample ID: 20 Cestaro

Lab Sample ID: 480-37649-26

Date Collected: 05/02/13 15:05

Matrix: Water

Date Received: 05/04/13 06:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/09/13 04:41	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/09/13 04:41	1
Vinyl chloride	ND	*	0.50	0.059	ug/L			05/09/13 04:41	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/09/13 04:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*115*		*80 - 120*		*05/09/13 04:41*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*05/09/13 04:41*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		05/07/13 11:57	05/07/13 22:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*79*		*70 - 130*	*05/07/13 11:57*	*05/07/13 22:03*	*1*

Client Sample ID: 45 Deerfield

Lab Sample ID: 480-37649-28

Date Collected: 05/02/13 15:50

Matrix: Water

Date Received: 05/04/13 06:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/09/13 05:30	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/09/13 05:30	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/09/13 05:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/09/13 05:30	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/09/13 05:30	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/09/13 05:30	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/09/13 05:30	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/09/13 05:30	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/09/13 05:30	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/09/13 05:30	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/09/13 05:30	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/09/13 05:30	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/09/13 05:30	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/09/13 05:30	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/09/13 05:30	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/09/13 05:30	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/09/13 05:30	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/09/13 05:30	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/09/13 05:30	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/09/13 05:30	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/09/13 05:30	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/09/13 05:30	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/09/13 05:30	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/09/13 05:30	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/09/13 05:30	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/09/13 05:30	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/09/13 05:30	1
Acetone	ND		2.5	0.54	ug/L			05/09/13 05:30	1

Client Sample ID: 45 Deerfield
Date Collected: 05/02/13 15:50
Date Received: 05/04/13 06:30

Lab Sample ID: 480-37649-28
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.13	ug/L			05/09/13 05:30	1
Bromobenzene	ND		0.50	0.13	ug/L			05/09/13 05:30	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/09/13 05:30	1
Bromoform	ND		0.50	0.13	ug/L			05/09/13 05:30	1
Bromomethane	ND		0.50	0.051	ug/L			05/09/13 05:30	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/09/13 05:30	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/09/13 05:30	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/09/13 05:30	1
Chloroethane	ND		0.50	0.070	ug/L			05/09/13 05:30	1
Chloroform	**0.42**	**J**	0.50	0.14	ug/L			05/09/13 05:30	1
Chloromethane	ND		0.50	0.063	ug/L			05/09/13 05:30	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/09/13 05:30	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/09/13 05:30	1
Dibromomethane	ND		0.50	0.17	ug/L			05/09/13 05:30	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/09/13 05:30	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/09/13 05:30	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/09/13 05:30	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/09/13 05:30	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/09/13 05:30	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/09/13 05:30	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/09/13 05:30	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/09/13 05:30	1
Naphthalene	ND		0.50	0.060	ug/L			05/09/13 05:30	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/09/13 05:30	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/09/13 05:30	1
o-Xylene	ND		0.50	0.044	ug/L			05/09/13 05:30	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/09/13 05:30	1
Styrene	ND		0.50	0.044	ug/L			05/09/13 05:30	1
t-Butanol	ND		10	2.5	ug/L			05/09/13 05:30	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/09/13 05:30	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/09/13 05:30	1
Toluene	ND		0.50	0.10	ug/L			05/09/13 05:30	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/09/13 05:30	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/09/13 05:30	1
Trichloroethene	ND		0.50	0.060	ug/L			05/09/13 05:30	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/09/13 05:30	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/09/13 05:30	1
Vinyl chloride	ND	*	0.50	0.059	ug/L			05/09/13 05:30	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/09/13 05:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*98*		*80 - 120*		*05/09/13 05:30*	*1*
4-Bromofluorobenzene (Surr)	*113*		*80 - 120*		*05/09/13 05:30*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		05/07/13 11:57	05/07/13 22:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*97*		*70 - 130*	*05/07/13 11:57*	*05/07/13 22:19*	*1*

Client Sample ID: Trip Blank

Lab Sample ID: 480-37649-30

Date Collected: 05/02/13 00:00

Matrix: Water

Date Received: 05/04/13 06:30

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		05/07/13 11:57	05/07/13 22:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*92*		*70 - 130*	*05/07/13 11:57*	*05/07/13 22:35*	*1*

Client Sample ID: 145 Candlewood

Lab Sample ID: 480-37649-31

Date Collected: 05/02/13 15:50

Matrix: Water

Date Received: 05/04/13 06:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/09/13 06:20	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/09/13 06:20	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/09/13 06:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/09/13 06:20	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/09/13 06:20	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/09/13 06:20	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/09/13 06:20	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/09/13 06:20	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/09/13 06:20	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/09/13 06:20	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/09/13 06:20	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/09/13 06:20	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/09/13 06:20	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/09/13 06:20	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/09/13 06:20	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/09/13 06:20	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/09/13 06:20	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/09/13 06:20	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/09/13 06:20	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/09/13 06:20	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/09/13 06:20	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/09/13 06:20	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/09/13 06:20	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/09/13 06:20	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/09/13 06:20	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/09/13 06:20	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/09/13 06:20	1
Acetone	ND		2.5	0.54	ug/L			05/09/13 06:20	1
Benzene	ND		0.50	0.13	ug/L			05/09/13 06:20	1
Bromobenzene	ND		0.50	0.13	ug/L			05/09/13 06:20	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/09/13 06:20	1
Bromoform	ND		0.50	0.13	ug/L			05/09/13 06:20	1
Bromomethane	ND		0.50	0.051	ug/L			05/09/13 06:20	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/09/13 06:20	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/09/13 06:20	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/09/13 06:20	1
Chloroethane	ND		0.50	0.070	ug/L			05/09/13 06:20	1
Chloroform	**0.89**		0.50	0.14	ug/L			05/09/13 06:20	1
Chloromethane	ND		0.50	0.063	ug/L			05/09/13 06:20	1

Client Sample ID: 145 Candlewood

Lab Sample ID: 480-37649-31

Date Collected: 05/02/13 15:50

Matrix: Water

Date Received: 05/04/13 06:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/09/13 06:20	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/09/13 06:20	1
Dibromomethane	ND		0.50	0.17	ug/L			05/09/13 06:20	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/09/13 06:20	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/09/13 06:20	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/09/13 06:20	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/09/13 06:20	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/09/13 06:20	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/09/13 06:20	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/09/13 06:20	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/09/13 06:20	1
Naphthalene	ND		0.50	0.060	ug/L			05/09/13 06:20	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/09/13 06:20	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/09/13 06:20	1
o-Xylene	ND		0.50	0.044	ug/L			05/09/13 06:20	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/09/13 06:20	1
Styrene	ND		0.50	0.044	ug/L			05/09/13 06:20	1
t-Butanol	ND		10	2.5	ug/L			05/09/13 06:20	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/09/13 06:20	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/09/13 06:20	1
Toluene	ND		0.50	0.10	ug/L			05/09/13 06:20	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/09/13 06:20	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/09/13 06:20	1
Trichloroethene	ND		0.50	0.060	ug/L			05/09/13 06:20	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/09/13 06:20	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/09/13 06:20	1
Vinyl chloride	ND	*	0.50	0.059	ug/L			05/09/13 06:20	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/09/13 06:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*113*		*80 - 120*		*05/09/13 06:20*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*05/09/13 06:20*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		05/07/13 11:57	05/07/13 22:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*92*		*70 - 130*	*05/07/13 11:57*	*05/07/13 22:51*	*1*

Client Sample ID: Trip Blank

Lab Sample ID: 480-37649-33

Date Collected: 05/02/13 08:48

Matrix: Water

Date Received: 05/04/13 06:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/09/13 14:09	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/09/13 14:09	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/09/13 14:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/09/13 14:09	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37649-1

Client Sample ID: Trip Blank
Date Collected: 05/02/13 08:48
Date Received: 05/04/13 06:30

Lab Sample ID: 480-37649-33
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/09/13 14:09	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/09/13 14:09	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/09/13 14:09	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/09/13 14:09	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/09/13 14:09	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/09/13 14:09	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/09/13 14:09	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/09/13 14:09	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/09/13 14:09	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/09/13 14:09	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/09/13 14:09	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/09/13 14:09	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/09/13 14:09	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/09/13 14:09	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/09/13 14:09	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/09/13 14:09	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/09/13 14:09	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/09/13 14:09	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/09/13 14:09	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/09/13 14:09	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/09/13 14:09	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/09/13 14:09	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/09/13 14:09	1
Acetone	**5.4**		2.5	0.54	ug/L			05/09/13 14:09	1
Benzene	ND		0.50	0.13	ug/L			05/09/13 14:09	1
Bromobenzene	ND		0.50	0.13	ug/L			05/09/13 14:09	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/09/13 14:09	1
Bromoform	ND		0.50	0.13	ug/L			05/09/13 14:09	1
Bromomethane	ND		0.50	0.051	ug/L			05/09/13 14:09	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/09/13 14:09	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/09/13 14:09	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/09/13 14:09	1
Chloroethane	ND		0.50	0.070	ug/L			05/09/13 14:09	1
Chloroform	ND		0.50	0.14	ug/L			05/09/13 14:09	1
Chloromethane	ND		0.50	0.063	ug/L			05/09/13 14:09	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/09/13 14:09	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/09/13 14:09	1
Dibromomethane	ND		0.50	0.17	ug/L			05/09/13 14:09	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/09/13 14:09	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/09/13 14:09	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/09/13 14:09	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/09/13 14:09	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/09/13 14:09	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/09/13 14:09	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/09/13 14:09	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/09/13 14:09	1
Naphthalene	ND		0.50	0.060	ug/L			05/09/13 14:09	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/09/13 14:09	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/09/13 14:09	1

Client Sample ID: Trip Blank
Lab Sample ID: 480-37649-33
Date Collected: 05/02/13 08:48
Matrix: Water
Date Received: 05/04/13 06:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		0.50	0.044	ug/L			05/09/13 14:09	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/09/13 14:09	1
Styrene	ND		0.50	0.044	ug/L			05/09/13 14:09	1
t-Butanol	ND		10	2.5	ug/L			05/09/13 14:09	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/09/13 14:09	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/09/13 14:09	1
Toluene	ND		0.50	0.10	ug/L			05/09/13 14:09	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/09/13 14:09	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/09/13 14:09	1
Trichloroethene	ND		0.50	0.060	ug/L			05/09/13 14:09	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/09/13 14:09	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/09/13 14:09	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/09/13 14:09	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/09/13 14:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*107*		*80 - 120*		*05/09/13 14:09*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*05/09/13 14:09*	*1*

Client Sample ID: Trip Blank
Lab Sample ID: 480-37649-34
Date Collected: 05/02/13 00:00
Matrix: Water
Date Received: 05/04/13 06:30

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		05/07/13 11:57	05/07/13 23:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*91*		*70 - 130*	*05/07/13 11:57*	*05/07/13 23:07*	*1*

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		12DCB	BFB								
Lab Sample ID	Client Sample ID	(80-120)	(80-120)								
480-37649-1	Trip Blank	104	99								
480-37649-2	55 Cestaro	97	107								
480-37649-4	50 Fairview	106	100								
480-37649-6	418 Schoolhouse	104	108								
480-37649-8	40 Chokeberry	100	95								
480-37649-10	9 Eldia	101	97								
480-37649-12	35 Fairview	116	93								
480-37649-14	150 Candlewood	107	96								
480-37649-16	90 Cestaro	100	94								
480-37649-18	175 Meetinghouse	103	96								
480-37649-20	25 Duck Marsh	101	94								
480-37649-22	370 Old Orchard	105	99								
480-37649-24	45 Cestaro	105	106								
480-37649-26	20 Cestaro	115	96								
480-37649-28	45 Deerfield	98	113								
480-37649-31	145 Candlewood	113	96								
480-37649-33	Trip Blank	107	100								
LCS 480-117388/4	Lab Control Sample	107	101								
LCS 480-117534/28	Lab Control Sample	100	97								
LCS 480-117635/5	Lab Control Sample	100	84								
MB 480-117388/5	Method Blank	104	90								
MB 480-117534/5	Method Blank	102	83								
MB 480-117635/6	Method Blank	103	84								

Surrogate Legend

12DCB = 1,2-Dichlorobenzene-d4

BFB = 4-Bromofluorobenzene (Surr)

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		14DD8									
Lab Sample ID	Client Sample ID	(70-130)									
480-37649-2	55 Cestaro	90									
480-37649-4	50 Fairview	95									
480-37649-6	418 Schoolhouse	96									
480-37649-8	40 Chokeberry	89									
480-37649-10	9 Eldia	91									
480-37649-12	35 Fairview	94									
480-37649-14	150 Candlewood	89									
480-37649-16	90 Cestaro	97									
480-37649-18	175 Meetinghouse	101									
480-37649-20	25 Duck Marsh	98									
480-37649-22	370 Old Orchard	83									
480-37649-24	45 Cestaro	91									
480-37649-26	20 Cestaro	79									
480-37649-28	45 Deerfield	97									
480-37649-30	Trip Blank	92									

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37649-1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM) (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)								
Lab Sample ID	Client Sample ID	14DD8 (70-130)								
480-37649-31	145 Candlewood	92								
480-37649-34	Trip Blank	91								
LCS 200-55209/2-A	Lab Control Sample	95								
MB 200-55209/1-A	Method Blank	85								

Surrogate Legend

14DD8 = 1,4-Dioxane-d8 (Surr)

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-117388/5
Matrix: Water
Analysis Batch: 117388

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/08/13 12:14	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/08/13 12:14	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/08/13 12:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/08/13 12:14	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/08/13 12:14	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/08/13 12:14	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/08/13 12:14	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/08/13 12:14	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/08/13 12:14	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/08/13 12:14	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/08/13 12:14	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/08/13 12:14	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/08/13 12:14	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/08/13 12:14	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/08/13 12:14	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/08/13 12:14	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/08/13 12:14	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/08/13 12:14	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/08/13 12:14	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/08/13 12:14	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/08/13 12:14	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/08/13 12:14	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/08/13 12:14	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/08/13 12:14	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/08/13 12:14	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/08/13 12:14	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/08/13 12:14	1
Acetone	ND		2.5	0.54	ug/L			05/08/13 12:14	1
Benzene	ND		0.50	0.13	ug/L			05/08/13 12:14	1
Bromobenzene	ND		0.50	0.13	ug/L			05/08/13 12:14	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/08/13 12:14	1
Bromoform	ND		0.50	0.13	ug/L			05/08/13 12:14	1
Bromomethane	ND		0.50	0.051	ug/L			05/08/13 12:14	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/08/13 12:14	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/08/13 12:14	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/08/13 12:14	1
Chloroethane	ND		0.50	0.070	ug/L			05/08/13 12:14	1
Chloroform	ND		0.50	0.14	ug/L			05/08/13 12:14	1
Chloromethane	ND		0.50	0.063	ug/L			05/08/13 12:14	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/08/13 12:14	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/08/13 12:14	1
Dibromomethane	ND		0.50	0.17	ug/L			05/08/13 12:14	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/08/13 12:14	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/08/13 12:14	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/08/13 12:14	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/08/13 12:14	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/08/13 12:14	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/08/13 12:14	1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-117388/5
Matrix: Water
Analysis Batch: 117388

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		0.50	0.25	ug/L			05/08/13 12:14	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/08/13 12:14	1
Naphthalene	ND		0.50	0.060	ug/L			05/08/13 12:14	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/08/13 12:14	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/08/13 12:14	1
o-Xylene	ND		0.50	0.044	ug/L			05/08/13 12:14	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/08/13 12:14	1
Styrene	ND		0.50	0.044	ug/L			05/08/13 12:14	1
t-Butanol	ND		10	2.5	ug/L			05/08/13 12:14	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/08/13 12:14	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/08/13 12:14	1
Toluene	ND		0.50	0.10	ug/L			05/08/13 12:14	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/08/13 12:14	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/08/13 12:14	1
Trichloroethene	ND		0.50	0.060	ug/L			05/08/13 12:14	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/08/13 12:14	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/08/13 12:14	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/08/13 12:14	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/08/13 12:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*104*		*80 - 120*		*05/08/13 12:14*	*1*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*		*05/08/13 12:14*	*1*

Lab Sample ID: LCS 480-117388/4
Matrix: Water
Analysis Batch: 117388

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	4.00	3.95		ug/L		99	70 - 130
1,1,1-Trichloroethane	4.00	3.90		ug/L		98	70 - 130
1,1,2,2-Tetrachloroethane	4.00	2.97		ug/L		74	70 - 130
1,1,2-Trichloroethane	4.00	3.49		ug/L		87	70 - 130
1,1-Dichloroethane	4.00	3.59		ug/L		90	70 - 130
1,1-Dichloroethene	4.00	3.24		ug/L		81	70 - 130
1,1-Dichloropropene	4.00	3.76		ug/L		94	70 - 130
1,2,3-Trichlorobenzene	4.00	6.44	*	ug/L		161	70 - 130
1,2,3-Trichloropropane	4.00	3.24		ug/L		81	70 - 130
1,2,4-Trichlorobenzene	4.00	5.47	*	ug/L		137	70 - 130
1,2,4-Trimethylbenzene	4.00	3.51		ug/L		88	70 - 130
1,2-Dibromo-3-Chloropropane	4.00	3.93		ug/L		98	70 - 130
1,2-Dibromoethane	4.00	3.67		ug/L		92	70 - 130
1,2-Dichlorobenzene	4.00	3.88		ug/L		97	70 - 130
1,2-Dichloroethane	4.00	4.09		ug/L		102	70 - 130
1,2-Dichloropropane	4.00	3.44		ug/L		86	70 - 130
1,3,5-Trimethylbenzene	4.00	3.38		ug/L		85	70 - 130
1,3-Dichlorobenzene	4.00	3.61		ug/L		90	70 - 130
1,3-Dichloropropane	4.00	3.30		ug/L		83	70 - 130

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-117388/4
Matrix: Water
Analysis Batch: 117388

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	4.00	3.63		ug/L		91	70 - 130
2,2-Dichloropropane	4.00	3.55		ug/L		89	70 - 130
2-Butanone (MEK)	20.0	23.3		ug/L		116	70 - 130
2-Chlorotoluene	4.00	3.22		ug/L		80	70 - 130
4-Chlorotoluene	4.00	3.11		ug/L		78	70 - 130
4-Isopropyltoluene	4.00	3.63		ug/L		91	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	20.0		ug/L		100	70 - 130
Acetone	20.0	27.9	*	ug/L		139	70 - 130
Benzene	4.00	3.62		ug/L		90	70 - 130
Bromobenzene	4.00	3.46		ug/L		87	70 - 130
Bromochloromethane	4.00	4.07		ug/L		102	70 - 130
Bromoform	4.00	4.19		ug/L		105	70 - 130
Bromomethane	4.00	3.60		ug/L		90	70 - 130
Carbon tetrachloride	4.00	3.77		ug/L		94	70 - 130
Chlorobenzene	4.00	3.67		ug/L		92	70 - 130
Chlorodibromomethane	4.00	3.72		ug/L		93	70 - 130
Chloroethane	4.00	3.85		ug/L		96	70 - 130
Chloroform	4.00	3.58		ug/L		90	70 - 130
Chloromethane	4.00	3.51		ug/L		88	70 - 130
cis-1,2-Dichloroethene	4.00	3.90		ug/L		98	70 - 130
cis-1,3-Dichloropropene	4.00	3.28		ug/L		82	70 - 130
Dibromomethane	4.00	3.65		ug/L		91	70 - 130
Dichlorobromomethane	4.00	3.58		ug/L		89	70 - 130
Dichlorodifluoromethane	4.00	3.11		ug/L		78	70 - 130
Ethylbenzene	4.00	3.57		ug/L		89	70 - 130
Hexachlorobutadiene	4.00	4.97		ug/L		124	70 - 130
Isopropylbenzene	4.00	3.89		ug/L		97	70 - 130
Methyl tert-butyl ether	4.00	3.74		ug/L		94	70 - 130
Methylene Chloride	4.00	3.47		ug/L		87	70 - 130
Naphthalene	4.00	5.72	*	ug/L		143	70 - 130
n-Butylbenzene	4.00	3.52		ug/L		88	70 - 130
N-Propylbenzene	4.00	3.13		ug/L		78	70 - 130
sec-Butylbenzene	4.00	3.41		ug/L		85	70 - 130
Styrene	4.00	3.81		ug/L		95	70 - 130
tert-Butylbenzene	4.00	3.51		ug/L		88	70 - 130
Tetrachloroethene	4.00	3.82		ug/L		96	70 - 130
Toluene	4.00	3.62		ug/L		91	70 - 130
trans-1,2-Dichloroethene	4.00	3.57		ug/L		89	70 - 130
trans-1,3-Dichloropropene	4.00	3.33		ug/L		83	70 - 130
Trichloroethene	4.00	3.79		ug/L		95	70 - 130
Trichlorofluoromethane	4.00	4.07		ug/L		102	70 - 130
Vinyl chloride	4.00	4.05		ug/L		101	70 - 130
Xylenes, Total	12.0	11.0		ug/L		92	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichlorobenzene-d4	*107*		*80 - 120*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-117534/5
Matrix: Water
Analysis Batch: 117534

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/08/13 23:16	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/08/13 23:16	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/08/13 23:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/08/13 23:16	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/08/13 23:16	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/08/13 23:16	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/08/13 23:16	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/08/13 23:16	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/08/13 23:16	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/08/13 23:16	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/08/13 23:16	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/08/13 23:16	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/08/13 23:16	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/08/13 23:16	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/08/13 23:16	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/08/13 23:16	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/08/13 23:16	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/08/13 23:16	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/08/13 23:16	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/08/13 23:16	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/08/13 23:16	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/08/13 23:16	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/08/13 23:16	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/08/13 23:16	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/08/13 23:16	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/08/13 23:16	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/08/13 23:16	1
Acetone	ND		2.5	0.54	ug/L			05/08/13 23:16	1
Benzene	ND		0.50	0.13	ug/L			05/08/13 23:16	1
Bromobenzene	ND		0.50	0.13	ug/L			05/08/13 23:16	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/08/13 23:16	1
Bromoform	ND		0.50	0.13	ug/L			05/08/13 23:16	1
Bromomethane	ND		0.50	0.051	ug/L			05/08/13 23:16	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/08/13 23:16	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/08/13 23:16	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/08/13 23:16	1
Chloroethane	ND		0.50	0.070	ug/L			05/08/13 23:16	1
Chloroform	ND		0.50	0.14	ug/L			05/08/13 23:16	1
Chloromethane	ND		0.50	0.063	ug/L			05/08/13 23:16	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/08/13 23:16	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/08/13 23:16	1
Dibromomethane	ND		0.50	0.17	ug/L			05/08/13 23:16	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/08/13 23:16	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/08/13 23:16	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/08/13 23:16	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/08/13 23:16	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/08/13 23:16	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/08/13 23:16	1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-117534/5
Matrix: Water
Analysis Batch: 117534

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		0.50	0.25	ug/L			05/08/13 23:16	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/08/13 23:16	1
Naphthalene	ND		0.50	0.060	ug/L			05/08/13 23:16	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/08/13 23:16	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/08/13 23:16	1
o-Xylene	ND		0.50	0.044	ug/L			05/08/13 23:16	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/08/13 23:16	1
Styrene	ND		0.50	0.044	ug/L			05/08/13 23:16	1
t-Butanol	ND		10	2.5	ug/L			05/08/13 23:16	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/08/13 23:16	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/08/13 23:16	1
Toluene	ND		0.50	0.10	ug/L			05/08/13 23:16	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/08/13 23:16	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/08/13 23:16	1
Trichloroethene	ND		0.50	0.060	ug/L			05/08/13 23:16	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/08/13 23:16	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/08/13 23:16	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/08/13 23:16	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/08/13 23:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*102*		*80 - 120*		*05/08/13 23:16*	*1*
4-Bromofluorobenzene (Surr)	*83*		*80 - 120*		*05/08/13 23:16*	*1*

Lab Sample ID: LCS 480-117534/28
Matrix: Water
Analysis Batch: 117534

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	4.00	4.14		ug/L		103	70 - 130
1,1,1-Trichloroethane	4.00	4.18		ug/L		105	70 - 130
1,1,2,2-Tetrachloroethane	4.00	3.29		ug/L		82	70 - 130
1,1,2-Trichloroethane	4.00	3.20		ug/L		80	70 - 130
1,1-Dichloroethane	4.00	4.01		ug/L		100	70 - 130
1,1-Dichloroethene	4.00	3.76		ug/L		94	70 - 130
1,1-Dichloropropene	4.00	4.26		ug/L		107	70 - 130
1,2,3-Trichlorobenzene	4.00	4.20		ug/L		105	70 - 130
1,2,3-Trichloropropane	4.00	3.73		ug/L		93	70 - 130
1,2,4-Trichlorobenzene	4.00	4.16		ug/L		104	70 - 130
1,2,4-Trimethylbenzene	4.00	4.18		ug/L		105	70 - 130
1,2-Dibromo-3-Chloropropane	4.00	4.20		ug/L		105	70 - 130
1,2-Dibromoethane	4.00	4.01		ug/L		100	70 - 130
1,2-Dichlorobenzene	4.00	4.10		ug/L		103	70 - 130
1,2-Dichloroethane	4.00	4.11		ug/L		103	70 - 130
1,2-Dichloropropane	4.00	3.31		ug/L		83	70 - 130
1,3,5-Trimethylbenzene	4.00	4.08		ug/L		102	70 - 130
1,3-Dichlorobenzene	4.00	4.10		ug/L		103	70 - 130
1,3-Dichloropropane	4.00	3.16		ug/L		79	70 - 130

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-117534/28
Matrix: Water
Analysis Batch: 117534

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	4.00	4.03		ug/L		101	70 - 130
2,2-Dichloropropane	4.00	4.11		ug/L		103	70 - 130
2-Butanone (MEK)	20.0	24.8		ug/L		124	70 - 130
2-Chlorotoluene	4.00	3.67		ug/L		92	70 - 130
4-Chlorotoluene	4.00	4.06		ug/L		102	70 - 130
4-Isopropyltoluene	4.00	4.27		ug/L		107	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	16.5		ug/L		83	70 - 130
Acetone	20.0	25.5		ug/L		127	70 - 130
Benzene	4.00	3.78		ug/L		94	70 - 130
Bromobenzene	4.00	3.92		ug/L		98	70 - 130
Bromochloromethane	4.00	4.23		ug/L		106	70 - 130
Bromoform	4.00	4.18		ug/L		105	70 - 130
Bromomethane	4.00	4.29		ug/L		107	70 - 130
Carbon tetrachloride	4.00	4.21		ug/L		105	70 - 130
Chlorobenzene	4.00	4.10		ug/L		102	70 - 130
Chlorodibromomethane	4.00	4.04		ug/L		101	70 - 130
Chloroethane	4.00	4.78		ug/L		119	70 - 130
Chloroform	4.00	3.94		ug/L		99	70 - 130
Chloromethane	4.00	3.07		ug/L		77	70 - 130
cis-1,2-Dichloroethene	4.00	4.62		ug/L		116	70 - 130
cis-1,3-Dichloropropene	4.00	3.05		ug/L		76	70 - 130
Dibromomethane	4.00	3.30		ug/L		82	70 - 130
Dichlorobromomethane	4.00	3.27		ug/L		82	70 - 130
Dichlorodifluoromethane	4.00	3.48		ug/L		87	70 - 130
Ethylbenzene	4.00	4.01		ug/L		100	70 - 130
Hexachlorobutadiene	4.00	4.39		ug/L		110	70 - 130
Isopropylbenzene	4.00	4.18		ug/L		104	70 - 130
Methyl tert-butyl ether	4.00	3.82		ug/L		96	70 - 130
Methylene Chloride	4.00	3.85		ug/L		96	70 - 130
Naphthalene	4.00	4.18		ug/L		105	70 - 130
n-Butylbenzene	4.00	4.32		ug/L		108	70 - 130
N-Propylbenzene	4.00	3.77		ug/L		94	70 - 130
sec-Butylbenzene	4.00	4.23		ug/L		106	70 - 130
Styrene	4.00	4.07		ug/L		102	70 - 130
tert-Butylbenzene	4.00	4.30		ug/L		107	70 - 130
Tetrachloroethene	4.00	3.88		ug/L		97	70 - 130
Toluene	4.00	3.42		ug/L		85	70 - 130
trans-1,2-Dichloroethene	4.00	3.84		ug/L		96	70 - 130
trans-1,3-Dichloropropene	4.00	3.02		ug/L		75	70 - 130
Trichloroethene	4.00	4.10		ug/L		103	70 - 130
Trichlorofluoromethane	4.00	4.71		ug/L		118	70 - 130
Vinyl chloride	4.00	5.33	*	ug/L		133	70 - 130
Xylenes, Total	12.0	12.2		ug/L		102	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichlorobenzene-d4	*100*		*80 - 120*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-117635/6
Matrix: Water
Analysis Batch: 117635

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/09/13 12:04	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/09/13 12:04	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/09/13 12:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/09/13 12:04	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/09/13 12:04	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/09/13 12:04	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/09/13 12:04	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/09/13 12:04	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/09/13 12:04	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/09/13 12:04	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/09/13 12:04	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/09/13 12:04	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/09/13 12:04	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/09/13 12:04	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/09/13 12:04	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/09/13 12:04	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/09/13 12:04	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/09/13 12:04	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/09/13 12:04	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/09/13 12:04	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/09/13 12:04	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/09/13 12:04	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/09/13 12:04	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/09/13 12:04	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/09/13 12:04	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/09/13 12:04	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/09/13 12:04	1
Acetone	ND		2.5	0.54	ug/L			05/09/13 12:04	1
Benzene	ND		0.50	0.13	ug/L			05/09/13 12:04	1
Bromobenzene	ND		0.50	0.13	ug/L			05/09/13 12:04	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/09/13 12:04	1
Bromoform	ND		0.50	0.13	ug/L			05/09/13 12:04	1
Bromomethane	ND		0.50	0.051	ug/L			05/09/13 12:04	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/09/13 12:04	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/09/13 12:04	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/09/13 12:04	1
Chloroethane	ND		0.50	0.070	ug/L			05/09/13 12:04	1
Chloroform	ND		0.50	0.14	ug/L			05/09/13 12:04	1
Chloromethane	ND		0.50	0.063	ug/L			05/09/13 12:04	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/09/13 12:04	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/09/13 12:04	1
Dibromomethane	ND		0.50	0.17	ug/L			05/09/13 12:04	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/09/13 12:04	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/09/13 12:04	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/09/13 12:04	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/09/13 12:04	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/09/13 12:04	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/09/13 12:04	1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-117635/6
Matrix: Water
Analysis Batch: 117635

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		0.50	0.25	ug/L			05/09/13 12:04	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/09/13 12:04	1
Naphthalene	ND		0.50	0.060	ug/L			05/09/13 12:04	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/09/13 12:04	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/09/13 12:04	1
o-Xylene	ND		0.50	0.044	ug/L			05/09/13 12:04	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/09/13 12:04	1
Styrene	ND		0.50	0.044	ug/L			05/09/13 12:04	1
t-Butanol	ND		10	2.5	ug/L			05/09/13 12:04	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/09/13 12:04	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/09/13 12:04	1
Toluene	ND		0.50	0.10	ug/L			05/09/13 12:04	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/09/13 12:04	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/09/13 12:04	1
Trichloroethene	ND		0.50	0.060	ug/L			05/09/13 12:04	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/09/13 12:04	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/09/13 12:04	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/09/13 12:04	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/09/13 12:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*103*		*80 - 120*		*05/09/13 12:04*	*1*
4-Bromofluorobenzene (Surr)	*84*		*80 - 120*		*05/09/13 12:04*	*1*

Lab Sample ID: LCS 480-117635/5
Matrix: Water
Analysis Batch: 117635

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	4.00	3.77		ug/L		94	70 - 130
1,1,1-Trichloroethane	4.00	3.70		ug/L		93	70 - 130
1,1,2,2-Tetrachloroethane	4.00	2.99		ug/L		75	70 - 130
1,1,2-Trichloroethane	4.00	3.41		ug/L		85	70 - 130
1,1-Dichloroethane	4.00	3.53		ug/L		88	70 - 130
1,1-Dichloroethene	4.00	3.34		ug/L		84	70 - 130
1,1-Dichloropropene	4.00	3.89		ug/L		97	70 - 130
1,2,3-Trichlorobenzene	4.00	4.46		ug/L		111	70 - 130
1,2,3-Trichloropropane	4.00	3.46		ug/L		87	70 - 130
1,2,4-Trichlorobenzene	4.00	4.39		ug/L		110	70 - 130
1,2,4-Trimethylbenzene	4.00	3.47		ug/L		87	70 - 130
1,2-Dibromo-3-Chloropropane	4.00	3.37		ug/L		84	70 - 130
1,2-Dibromoethane	4.00	3.65		ug/L		91	70 - 130
1,2-Dichlorobenzene	4.00	3.65		ug/L		91	70 - 130
1,2-Dichloroethane	4.00	4.20		ug/L		105	70 - 130
1,2-Dichloropropane	4.00	3.51		ug/L		88	70 - 130
1,3,5-Trimethylbenzene	4.00	3.44		ug/L		86	70 - 130
1,3-Dichlorobenzene	4.00	3.64		ug/L		91	70 - 130
1,3-Dichloropropane	4.00	3.52		ug/L		88	70 - 130

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-117635/5
Matrix: Water
Analysis Batch: 117635

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	4.00	3.59		ug/L		90	70 - 130
2,2-Dichloropropane	4.00	3.17		ug/L		79	70 - 130
2-Butanone (MEK)	20.0	19.5		ug/L		98	70 - 130
2-Chlorotoluene	4.00	3.36		ug/L		84	70 - 130
4-Chlorotoluene	4.00	3.32		ug/L		83	70 - 130
4-Isopropyltoluene	4.00	3.50		ug/L		87	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	18.7		ug/L		93	70 - 130
Acetone	20.0	21.7		ug/L		109	70 - 130
Benzene	4.00	3.64		ug/L		91	70 - 130
Bromobenzene	4.00	3.74		ug/L		93	70 - 130
Bromochloromethane	4.00	3.64		ug/L		91	70 - 130
Bromoform	4.00	3.52		ug/L		88	70 - 130
Bromomethane	4.00	3.56		ug/L		89	70 - 130
Carbon tetrachloride	4.00	3.82		ug/L		96	70 - 130
Chlorobenzene	4.00	3.63		ug/L		91	70 - 130
Chlorodibromomethane	4.00	3.66		ug/L		91	70 - 130
Chloroethane	4.00	4.16		ug/L		104	70 - 130
Chloroform	4.00	3.39		ug/L		85	70 - 130
Chloromethane	4.00	4.03		ug/L		101	70 - 130
cis-1,2-Dichloroethene	4.00	3.73		ug/L		93	70 - 130
cis-1,3-Dichloropropene	4.00	3.33		ug/L		83	70 - 130
Dibromomethane	4.00	3.58		ug/L		90	70 - 130
Dichlorobromomethane	4.00	3.55		ug/L		89	70 - 130
Dichlorodifluoromethane	4.00	3.81		ug/L		95	70 - 130
Ethylbenzene	4.00	3.56		ug/L		89	70 - 130
Hexachlorobutadiene	4.00	4.59		ug/L		115	70 - 130
Isopropylbenzene	4.00	3.20		ug/L		80	70 - 130
Methyl tert-butyl ether	4.00	3.38		ug/L		85	70 - 130
Methylene Chloride	4.00	3.31		ug/L		83	70 - 130
Naphthalene	4.00	4.55		ug/L		114	70 - 130
n-Butylbenzene	4.00	3.29		ug/L		82	70 - 130
N-Propylbenzene	4.00	3.26		ug/L		81	70 - 130
sec-Butylbenzene	4.00	3.41		ug/L		85	70 - 130
Styrene	4.00	3.52		ug/L		88	70 - 130
tert-Butylbenzene	4.00	3.66		ug/L		92	70 - 130
Tetrachloroethene	4.00	3.81		ug/L		95	70 - 130
Toluene	4.00	3.38		ug/L		85	70 - 130
trans-1,2-Dichloroethene	4.00	3.49		ug/L		87	70 - 130
trans-1,3-Dichloropropene	4.00	3.23		ug/L		81	70 - 130
Trichloroethene	4.00	3.71		ug/L		93	70 - 130
Trichlorofluoromethane	4.00	4.17		ug/L		104	70 - 130
Vinyl chloride	4.00	4.29		ug/L		107	70 - 130
Xylenes, Total	12.0	10.7		ug/L		89	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichlorobenzene-d4	*100*		*80 - 120*
4-Bromofluorobenzene (Surr)	*84*		*80 - 120*

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37649-1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Lab Sample ID: MB 200-55209/1-A
Matrix: Water
Analysis Batch: 55210

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 55209

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		05/07/13 11:57	05/07/13 18:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*85*		*70 - 130*	*05/07/13 11:57*	*05/07/13 18:15*	*1*

Lab Sample ID: LCS 200-55209/2-A
Matrix: Water
Analysis Batch: 55210

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 55209

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane			2.00	1.95		ug/L		98	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,4-Dioxane-d8 (Surr)	*95*		*70 - 130*

GC/MS VOA

Analysis Batch: 117388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-37649-1	Trip Blank	Total/NA	Water	524.2	
480-37649-2	55 Cestaro	Total/NA	Water	524.2	
480-37649-4	50 Fairview	Total/NA	Water	524.2	
480-37649-6	418 Schoolhouse	Total/NA	Water	524.2	
480-37649-8	40 Chokeberry	Total/NA	Water	524.2	
480-37649-10	9 Eldia	Total/NA	Water	524.2	
480-37649-12	35 Fairview	Total/NA	Water	524.2	
480-37649-14	150 Candlewood	Total/NA	Water	524.2	
480-37649-16	90 Cestaro	Total/NA	Water	524.2	
480-37649-18	175 Meetinghouse	Total/NA	Water	524.2	
480-37649-20	25 Duck Marsh	Total/NA	Water	524.2	
LCS 480-117388/4	Lab Control Sample	Total/NA	Water	524.2	
MB 480-117388/5	Method Blank	Total/NA	Water	524.2	

Analysis Batch: 117534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-37649-22	370 Old Orchard	Total/NA	Water	524.2	
480-37649-24	45 Cestaro	Total/NA	Water	524.2	
480-37649-26	20 Cestaro	Total/NA	Water	524.2	
480-37649-28	45 Deerfield	Total/NA	Water	524.2	
480-37649-31	145 Candlewood	Total/NA	Water	524.2	
LCS 480-117534/28	Lab Control Sample	Total/NA	Water	524.2	
MB 480-117534/5	Method Blank	Total/NA	Water	524.2	

Analysis Batch: 117635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-37649-33	Trip Blank	Total/NA	Water	524.2	
LCS 480-117635/5	Lab Control Sample	Total/NA	Water	524.2	
MB 480-117635/6	Method Blank	Total/NA	Water	524.2	

GC/MS Semi VOA

Prep Batch: 55209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-37649-2	55 Cestaro	Total/NA	Water	3535A	
480-37649-4	50 Fairview	Total/NA	Water	3535A	
480-37649-6	418 Schoolhouse	Total/NA	Water	3535A	
480-37649-8	40 Chokeberry	Total/NA	Water	3535A	
480-37649-10	9 Eldia	Total/NA	Water	3535A	
480-37649-12	35 Fairview	Total/NA	Water	3535A	
480-37649-14	150 Candlewood	Total/NA	Water	3535A	
480-37649-16	90 Cestaro	Total/NA	Water	3535A	
480-37649-18	175 Meetinghouse	Total/NA	Water	3535A	
480-37649-20	25 Duck Marsh	Total/NA	Water	3535A	
480-37649-22	370 Old Orchard	Total/NA	Water	3535A	
480-37649-24	45 Cestaro	Total/NA	Water	3535A	
480-37649-26	20 Cestaro	Total/NA	Water	3535A	
480-37649-28	45 Deerfield	Total/NA	Water	3535A	
480-37649-30	Trip Blank	Total/NA	Water	3535A	
480-37649-31	145 Candlewood	Total/NA	Water	3535A	

GC/MS Semi VOA (Continued)

Prep Batch: 55209 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-37649-34	Trip Blank	Total/NA	Water	3535A	
LCS 200-55209/2-A	Lab Control Sample	Total/NA	Water	3535A	
MB 200-55209/1-A	Method Blank	Total/NA	Water	3535A	

Analysis Batch: 55210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-37649-2	55 Cestaro	Total/NA	Water	522 MOD	55209
480-37649-4	50 Fairview	Total/NA	Water	522 MOD	55209
480-37649-6	418 Schoolhouse	Total/NA	Water	522 MOD	55209
480-37649-8	40 Chokeberry	Total/NA	Water	522 MOD	55209
480-37649-10	9 Eldia	Total/NA	Water	522 MOD	55209
480-37649-12	35 Fairview	Total/NA	Water	522 MOD	55209
480-37649-14	150 Candlewood	Total/NA	Water	522 MOD	55209
480-37649-16	90 Cestaro	Total/NA	Water	522 MOD	55209
480-37649-18	175 Meetinghouse	Total/NA	Water	522 MOD	55209
480-37649-20	25 Duck Marsh	Total/NA	Water	522 MOD	55209
480-37649-22	370 Old Orchard	Total/NA	Water	522 MOD	55209
480-37649-24	45 Cestaro	Total/NA	Water	522 MOD	55209
480-37649-26	20 Cestaro	Total/NA	Water	522 MOD	55209
480-37649-28	45 Deerfield	Total/NA	Water	522 MOD	55209
480-37649-30	Trip Blank	Total/NA	Water	522 MOD	55209
480-37649-31	145 Candlewood	Total/NA	Water	522 MOD	55209
480-37649-34	Trip Blank	Total/NA	Water	522 MOD	55209
LCS 200-55209/2-A	Lab Control Sample	Total/NA	Water	522 MOD	55209
MB 200-55209/1-A	Method Blank	Total/NA	Water	522 MOD	55209

Lab Chronicle

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37649-1

Client Sample ID: Trip Blank — Lab Sample ID: 480-37649-1

Date Collected: 05/02/13 00:00 — **Matrix: Water**
Date Received: 05/04/13 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	117388	05/08/13 12:53	CDC	TAL BUF

Client Sample ID: 55 Cestaro — Lab Sample ID: 480-37649-2

Date Collected: 05/02/13 09:35 — **Matrix: Water**
Date Received: 05/04/13 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	117388	05/08/13 13:18	CDC	TAL BUF
Total/NA	Prep	3535A			55209	05/07/13 11:57	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55210	05/07/13 18:31	RJH	TAL BUR

Client Sample ID: 50 Fairview — Lab Sample ID: 480-37649-4

Date Collected: 05/02/13 10:25 — **Matrix: Water**
Date Received: 05/04/13 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	117388	05/08/13 14:07	CDC	TAL BUF
Total/NA	Prep	3535A			55209	05/07/13 11:57	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55210	05/07/13 18:48	RJH	TAL BUR

Client Sample ID: 418 Schoolhouse — Lab Sample ID: 480-37649-6

Date Collected: 05/02/13 11:05 — **Matrix: Water**
Date Received: 05/04/13 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	117388	05/08/13 14:57	CDC	TAL BUF
Total/NA	Prep	3535A			55209	05/07/13 11:57	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55210	05/07/13 19:04	RJH	TAL BUR

Client Sample ID: 40 Chokeberry — Lab Sample ID: 480-37649-8

Date Collected: 05/02/13 11:55 — **Matrix: Water**
Date Received: 05/04/13 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	117388	05/08/13 15:46	CDC	TAL BUF
Total/NA	Prep	3535A			55209	05/07/13 11:57	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55210	05/07/13 19:21	RJH	TAL BUR

Lab Chronicle

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37649-1

Client Sample ID: 9 Eldia

Lab Sample ID: 480-37649-10

Date Collected: 05/02/13 12:40

Matrix: Water

Date Received: 05/04/13 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	117388	05/08/13 16:35	CDC	TAL BUF
Total/NA	Prep	3535A			55209	05/07/13 11:57	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55210	05/07/13 19:37	RJH	TAL BUR

Client Sample ID: 35 Fairview

Lab Sample ID: 480-37649-12

Date Collected: 05/02/13 09:00

Matrix: Water

Date Received: 05/04/13 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	117388	05/08/13 17:28	CDC	TAL BUF
Total/NA	Prep	3535A			55209	05/07/13 11:57	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55210	05/07/13 19:53	RJH	TAL BUR

Client Sample ID: 150 Candlewood

Lab Sample ID: 480-37649-14

Date Collected: 05/02/13 10:02

Matrix: Water

Date Received: 05/04/13 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	117388	05/08/13 18:18	CDC	TAL BUF
Total/NA	Prep	3535A			55209	05/07/13 11:57	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55210	05/07/13 20:09	RJH	TAL BUR

Client Sample ID: 90 Cestaro

Lab Sample ID: 480-37649-16

Date Collected: 05/02/13 10:55

Matrix: Water

Date Received: 05/04/13 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	117388	05/08/13 19:07	CDC	TAL BUF
Total/NA	Prep	3535A			55209	05/07/13 11:57	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55210	05/07/13 20:26	RJH	TAL BUR

Client Sample ID: 175 Meetinghouse

Lab Sample ID: 480-37649-18

Date Collected: 05/02/13 11:40

Matrix: Water

Date Received: 05/04/13 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	117388	05/08/13 19:56	CDC	TAL BUF
Total/NA	Prep	3535A			55209	05/07/13 11:57	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55210	05/07/13 20:58	RJH	TAL BUR

Lab Chronicle

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37649-1

Client Sample ID: 25 Duck Marsh

Lab Sample ID: 480-37649-20

Date Collected: 05/02/13 12:50
Matrix: Water
Date Received: 05/04/13 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	117388	05/08/13 20:45	CDC	TAL BUF
Total/NA	Prep	3535A			55209	05/07/13 11:57	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55210	05/07/13 21:15	RJH	TAL BUR

Client Sample ID: 370 Old Orchard

Lab Sample ID: 480-37649-22

Date Collected: 05/02/13 15:00
Matrix: Water
Date Received: 05/04/13 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	117534	05/09/13 03:04	TRB	TAL BUF
Total/NA	Prep	3535A			55209	05/07/13 11:57	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55210	05/07/13 21:31	RJH	TAL BUR

Client Sample ID: 45 Cestaro

Lab Sample ID: 480-37649-24

Date Collected: 05/02/13 14:15
Matrix: Water
Date Received: 05/04/13 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	117534	05/09/13 03:52	TRB	TAL BUF
Total/NA	Prep	3535A			55209	05/07/13 11:57	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55210	05/07/13 21:47	RJH	TAL BUR

Client Sample ID: 20 Cestaro

Lab Sample ID: 480-37649-26

Date Collected: 05/02/13 15:05
Matrix: Water
Date Received: 05/04/13 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	117534	05/09/13 04:41	TRB	TAL BUF
Total/NA	Prep	3535A			55209	05/07/13 11:57	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55210	05/07/13 22:03	RJH	TAL BUR

Client Sample ID: 45 Deerfield

Lab Sample ID: 480-37649-28

Date Collected: 05/02/13 15:50
Matrix: Water
Date Received: 05/04/13 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	117534	05/09/13 05:30	TRB	TAL BUF
Total/NA	Prep	3535A			55209	05/07/13 11:57	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55210	05/07/13 22:19	RJH	TAL BUR

Lab Chronicle

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37649-1

Client Sample ID: Trip Blank

Lab Sample ID: 480-37649-30

Date Collected: 05/02/13 00:00
Matrix: Water
Date Received: 05/04/13 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535A			55209	05/07/13 11:57	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55210	05/07/13 22:35	RJH	TAL BUR

Client Sample ID: 145 Candlewood

Lab Sample ID: 480-37649-31

Date Collected: 05/02/13 15:50
Matrix: Water
Date Received: 05/04/13 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	117534	05/09/13 06:20	TRB	TAL BUF
Total/NA	Prep	3535A			55209	05/07/13 11:57	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55210	05/07/13 22:51	RJH	TAL BUR

Client Sample ID: Trip Blank

Lab Sample ID: 480-37649-33

Date Collected: 05/02/13 08:48
Matrix: Water
Date Received: 05/04/13 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	117635	05/09/13 14:09	CDC	TAL BUF

Client Sample ID: Trip Blank

Lab Sample ID: 480-37649-34

Date Collected: 05/02/13 00:00
Matrix: Water
Date Received: 05/04/13 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535A			55209	05/07/13 11:57	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55210	05/07/13 23:07	RJH	TAL BUR

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Certification Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37649-1

Laboratory: TestAmerica Buffalo

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-13
California	NELAP	9	1169CA	09-30-13
Connecticut	State Program	1	PH-0568	09-30-14
Florida	NELAP	4	E87672	06-30-13
Georgia	State Program	4	N/A	03-31-14
Georgia	State Program	4	956	06-30-13
Georgia	State Program	4	956	03-31-14
Illinois	NELAP	5	200003	09-30-13
Iowa	State Program	7	374	03-15-15
Kansas	NELAP	7	E-10187	01-31-14
Kentucky	State Program	4	90029	12-31-13
Kentucky (UST)	State Program	4	30	04-01-14
Louisiana	NELAP	6	02031	06-30-13
Maine	State Program	1	NY00044	12-04-13
Maryland	State Program	3	294	03-31-14
Massachusetts	State Program	1	M-NY044	06-30-13
Michigan	State Program	5	9937	04-01-13 *
Minnesota	NELAP	5	036-999-337	12-31-13
New Hampshire	NELAP	1	2973	09-11-13
New Hampshire	NELAP	1	2337	11-17-13
New Jersey	NELAP	2	NY455	06-30-13
New York	NELAP	2	10026	04-01-14
North Dakota	State Program	8	R-176	03-31-14
Oklahoma	State Program	6	9421	08-31-13
Oregon	NELAP	10	NY200003	06-09-13
Pennsylvania	NELAP	3	68-00281	07-31-13
Rhode Island	State Program	1	LAO00328	12-31-13
Tennessee	State Program	4	TN02970	04-01-14
Texas	NELAP	6	T104704412-11-2	07-31-13
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAP	3	460185	09-14-13
Washington	State Program	10	C784	02-10-14
West Virginia DEP	State Program	3	252	09-30-13
Wisconsin	State Program	5	998310390	08-31-13

Laboratory: TestAmerica Burlington

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Connecticut	State Program	1	PH-0751	09-30-13
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-13-15
Florida	NELAP	4	E87467	06-30-13
L-A-B	DoD ELAP		L2336	10-26-13
Louisiana	NELAP	6	176292	06-30-13
Maine	State Program	1	VT00008	04-17-13 *
Minnesota	NELAP	5	050-999-436	12-31-13
New Hampshire	NELAP	1	2006	12-18-13
New Jersey	NELAP	2	VT972	06-30-13
New York	NELAP	2	10391	04-01-14
Pennsylvania	NELAP	3	68-00489	04-30-14

* Expired certification is currently pending renewal and is considered valid.

Certification Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37649-1

Laboratory: TestAmerica Burlington (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
USDA	Federal		P330-11-00093	02-17-14
Vermont	State Program	1	VT-4000	12-31-13
Virginia	NELAP	3	460209	12-14-13

Method Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37649-1

Method	Method Description	Protocol	Laboratory
524.2	Volatile Organic Compounds (GC/MS)	EPA-DW	TAL BUF
522 MOD	1,4 Dioxane (GC/MS SIM)	EPA	TAL BUR

Protocol References:

EPA = US Environmental Protection Agency

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37649-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-37649-1	Trip Blank	Water	05/02/13 00:00	05/04/13 06:30
480-37649-2	55 Cestaro	Water	05/02/13 09:35	05/04/13 06:30
480-37649-4	50 Fairview	Water	05/02/13 10:25	05/04/13 06:30
480-37649-6	418 Schoolhouse	Water	05/02/13 11:05	05/04/13 06:30
480-37649-8	40 Chokeberry	Water	05/02/13 11:55	05/04/13 06:30
480-37649-10	9 Eldia	Water	05/02/13 12:40	05/04/13 06:30
480-37649-12	35 Fairview	Water	05/02/13 09:00	05/04/13 06:30
480-37649-14	150 Candlewood	Water	05/02/13 10:02	05/04/13 06:30
480-37649-16	90 Cestaro	Water	05/02/13 10:55	05/04/13 06:30
480-37649-18	175 Meetinghouse	Water	05/02/13 11:40	05/04/13 06:30
480-37649-20	25 Duck Marsh	Water	05/02/13 12:50	05/04/13 06:30
480-37649-22	370 Old Orchard	Water	05/02/13 15:00	05/04/13 06:30
480-37649-24	45 Cestaro	Water	05/02/13 14:15	05/04/13 06:30
480-37649-26	20 Cestaro	Water	05/02/13 15:05	05/04/13 06:30
480-37649-28	45 Deerfield	Water	05/02/13 15:50	05/04/13 06:30
480-37649-30	Trip Blank	Water	05/02/13 00:00	05/04/13 06:30
480-37649-31	145 Candlewood	Water	05/02/13 15:50	05/04/13 06:30
480-37649-33	Trip Blank	Water	05/02/13 08:48	05/04/13 06:30
480-37649-34	Trip Blank	Water	05/02/13 00:00	05/04/13 06:30

TestAmerica Westfield
Westfield Executive Park 53 Southampton Road
Westfield, MA 01085
Phone (413) 572-4000 Fax (413) 572-3707

Boston Service Center
240 Bear Hill Rd. Suite 104
Waltham, MA 02451
Phone (781) 466-6900 Fax (781) 466-6901

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Jerry Keefe, Lisa Thuot	Lab PM:	Carrier Tracking No(s):	COC No: 26178
Client Contact: Town of Eastham / Bennett Environmental	Phone: 508-896-1706	E-Mail: dbennett@bennett-ea.com		Page: 1 of 4
Company: BEA				Job #:
Address: P.O. Box 1743	Due Date Requested:	Analysis Requested		Preservation Codes: A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, H - Ascorbic Acid, J - DI Water, M - Hexane, N - None, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, Z - other (specify)
City: Brewster	TAT Requested (days): 2 week calendar			
State, Zip: MA 02631	Quote #: BEA11-10104			
Phone: 508-896-1706	PO #:			
Email: dbennett@bennett-ea.com	WO #:			
Project Name/number: Eastham Landfill	SSOW#:			
Site: Eastham, MA				

480-37649 Chain of Custody

y programs: GW1/S1, CT RSR, EDD Required

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Sampler's Initials	Field Filtered Sample?	Perform MS/MSD?	VOA	Dioxins 1, 4	Total Nur	Special Instructions/Note:
			Preservation Code:					A	A		
Trip Blank (04/12/13)								2			Trip Blank (last from Kingston)
55 Costaro	5/2/13	0935	G	W		N		3	2	5	
55 Costaro Dup	5/2/13	0935						3	1	4	
50 Fairview	5/2/13	1025						3	2	5	
50 Fairview Dup	5/2/13	1025						3	1	4	
418 Schoolhouse	5/2/13	1105						3	2	5	
418 Schoolhouse Dup	5/2/13	1105						3	1	4	
40 Chokeberry	5/2/13	1155						3	2	5	
40 Chokeberry Dup	5/2/13	1155						3	1	4	
9 Eldia	5/2/13	1240				N		3	2	5	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Relinquished by:	Date/Time: 5/2/13 1645	Company: USEPA	Received by:	Date/Time: 5/2/13 1645	Company: TA
Relinquished by:	Date/Time: 5/3/13 1700	Company: TA	Received by:	Date/Time: 5.4.13 0650	Company: TA 18 MR
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 4.2, 3.1, 2.9 #1

TAL-8245-360 1111

TestAmerica Westfield
53 Southampton Road

Westfield, MA 01085
phone 413.572.4000 fax 413.572.3707

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other MA MCP

Client Contact	Project Manager: David Bennett	Site Contact:	Date:	COC No:
Bennett Environmental Associates, Inc. / Town of Eastham	Tel/Fax: 508-896-1706	Lab Contact:	Carrier:	____ of ____ COCs
Address P.O. Box 1743	Analysis Turnaround Time			For Lab Use Only:
City/State/Zip Brewster, MA 02631	Calendar (C) or Work Days (W) C			Walk-in Client:
(508) 896-1706 Phone	TAT if different from Below ____			Lab Sampling:
(508) 896-5109 FAX	☑ 2 weeks			
Project Name: Eastham Landfill	☐ 1 week			Job / SDG No.: BEA11-10104
Site: Residential Well Sampling	☐ 2 days			Sampler: Caroline
P O # BEA11-10104	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample (Y / N)	Composite = C / Grab = G	1,4-Dioxane via 522.1 Mod	VOCs via 524.2	Sample Specific Notes:
35 Fairview	5/2/13	0900	G	W	5	N	G	X	X	
35 Fairview dup	5/2/13	0900	G	W	4	N	G	X	X	Field duplicate sample
150 Candlewood	5/2/13	1002	G	W	5	N	G	X	X	
150 Candlewood dup	5/2/13	1002	G	W	4	N	G	X	X	Field duplicate sample
90 Costaro	5/2/13	1055	G	W	5	N	G	X	X	
90 Costaro dup	5/2/13	1055	G	W	4	N	G	X	X	Field duplicate sample
175 Meetinghouse	5/2/13	1140	G	W	5	N	G	X	X	
175 Meetinghouse dup	5/2/13	1140	G	W	4	N	G	X	X	Field duplicate sample
25 Duck Marsh	5/2/13	1250	G	W	5	N	G	X	X	
25 Duck Marsh dup	5/2/13	1250	G	W	4	N	G	X	X	Field duplicate sample
370 Old Orchard	5/2/13	1500	G	W	5	N	G	X	X	
370 Old Orchard dup	5/2/13	1500	G	W	4	N	G	X	X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments: Please e-mail results to dbennett@bennett-ea.com

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Caroline	EPA	5/2/13 1612		USEPA	5/2/13 1612
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	USEPA	5/2/13 1645		TA	5-2-13 1645
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:
	TA	5/3/13 1700		TA BULK	5-4-13 0830

Form No. CA-C-WI-002, Rev. 4, dated 10/25/2012

4.2, 3.1 2.8 #1

5/14/2013

TestAmerica Westfield
53 Southampton Road

Westfield, MA 01085
phone 413.572.4000 fax 413.572.3707

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other MA MCP

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: David Bennett	Site Contact:	Date:	COC No:
Bennett Environmental Associates, Inc.	Tel/Fax: 508-896-1706	Lab Contact:	Carrier:	____ of ____ COCs
Address P.O. Box 1743	Analysis Turnaround Time			For Lab Use Only:
City/State/Zip Brewster, MA 02631	Calendar (C) or Work Days (W) C			Walk-in Client:
(508) 896-1706 Phone	TAT if different from Below ____			Lab Sampling:
(508) 896-5109 FAX	☑ 2 weeks			
Project Name: Eastham Landfill	☐ 1 week			Job / SDG No.: BEA11-10104
Site: Residential Well Sampling	☐ 2 days			
P O # BEA11-10104	☐ 1 day			Sampler: Jerry Beck

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample (Y/N)	Composite = C / Grab = G	1,4-Dioxane via 522.1 Mod	VOCs via 524.2	Sample Specific Notes:
9 Eldra Dup	05/2/13	1240	G	W	4	N	G	1	3	Field dup
45 Cestaro	05/2/13	1415	G	W	5	N	G	2	3	
45 Cestaro Dup	05/2/13	1415	G	W	4	N	G	1	3	Field dup
20 Cestaro	05/2/13	1505	G	W	5	N	G	2	3	
20 Cestaro Dup	05/2/13	1505	G	W	4	N	G	1	3	Field dup
45 Deerfield	05/2/13	1550	G	W	5			2	3	
45 Deerfield Dup	05/2/13	1550	G	W	4	N	G	1	3	Field dup
Trip Blank 05/1/13	~~05/1/13~~ 05/2/13			W	1	N		1		Trip from BEA-EPA (1,4 Dioxane)
								2	2	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments: Please e-mail results to dbennett@bennett-ea.com

	Company:	Date/Time:		Company:	Date/Time:
Relinquished by:	USEPA	5/2/13 1645	Received by:	TA	5-2-13 1645
Relinquished by:	TAL	5/3/13 700	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA Buff	Date/Time: 5-4-13 0830

Form No. CA-C-WI-002, Rev. 4, dated 10/25/2012

4.2, 3.1, 2 9 #1

5/14/2013

TestAmerica Westfield
53 Southampton Road

Westfield, MA 01085
phone 413.572.4000 fax 413.572.3707

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other MA MCP

Client Contact	Project Manager: David Bennett	Site Contact:	Date:	COC No:
Bennett Environmental Associates, Inc. / Town of Eastham	Tel/Fax: 508-896-1706	Lab Contact:	Carrier:	____ of ____ COCs
Address P.O. Box 1743	Analysis Turnaround Time			For Lab Use Only:
City/State/Zip Brewster, MA 02631	Calendar (C) or Work Days (W) C			Walk-in Client:
(508) 896-1706 Phone	TAT if different from Below ____			Lab Sampling:
(508) 896-5109 FAX	☑ 2 weeks			
Project Name: Eastham Landfill	☐ 1 week			Job / SDG No.: BEA11-10104
Site: Residential Well Sampling	☐ 2 days			
P O # BEA11-10104	☐ 1 day			Sampler:

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample (Y/N)	Composite = C / Grab = G	1,4-Dioxane via 522.1 Mod	VOCs via 524.2	Sample Specific Notes:
145 Candlewood	5/2/13	1550	G	W	5	N	G	X	X	
145 Candlewood dup	5/2/13	1550	G	W	4	N	G	X	X	Field Duplicate Sample
Trip Blank	5/2/13	8:48	G	W	2	N	G		X	Trip Blank
Trip Blank	5/1/13		G	W	1	N	G	X		
								V2	V2	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments: Please e-mail results to dbennett@bennett-ea.com

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Eric Perri	EPA	5/2/13 1602		USEPA	5/2/13 1612
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	USEPA	5/2/13 1645		TA	5/2/13 1645
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:
	TA	5/3/13 1700		TA Buffalo	5.4.13 0830

Form No. CA-C-WI-002, Rev. 4, dated 10/25/2012

4.2, 3.1, 2.9 #1

Login Sample Receipt Checklist

Client: Bennett Environmental Associates, Inc.

Job Number: 480-37649-1

Login Number: 37649

List Source: TestAmerica Buffalo

List Number: 1

Creator: Wienke, Robert

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	USEPA
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	True	Lab to check

Login Sample Receipt Checklist

Client: Bennett Environmental Associates, Inc.

Job Number: 480-37649-1

Login Number: 37649
List Number: 1
Creator: Marion, Greg T

List Source: TestAmerica Burlington
List Creation: 05/04/13 01:42 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.2,2.6ºC IR GUN ID 181/CF=0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	Preservation labels on samples match COC
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

						Sample ID	Trip Blank	55 Cestaro	50 Fairview	418 Schoolhouse	40 Chokeberry	9 Eldia	35 Fairview	150 Candlewood	90 Cestaro	175 Meetinghouse	25 Duck Marsh	370 Old Orchard	45 Cestaro	20 Cestaro	45 Deerfield	Trip Blank	145 Candlewood	Trip Blank	Trip Blank
						Sampled By																				
						Sample Collection Date	05/02/2013 00:00	05/02/2013 09:35	05/02/2013 10:25	05/02/2013 11:05	05/02/2013 11:55	05/02/2013 12:40	05/02/2013 09:00	05/02/2013 10:02	05/02/2013 10:55	05/02/2013 11:40	05/02/2013 12:50	05/02/2013 15:00	05/02/2013 14:15	05/02/2013 15:05	05/02/2013 15:50	05/02/2013 00:00	05/02/2013 15:50	05/02/2013 08:48	05/02/2013 00:00
						Laboratory Order Number	480-37649-1	480-37649-2	480-37649-4	480-37649-6	480-37649-8	480-37649-10	480-37649-12	480-37649-14	480-37649-16	480-37649-18	480-37649-20	480-37649-22	480-37649-24	480-37649-26	480-37649-28	480-37649-30	480-37649-31	480-37649-33	480-37649-34
Parameter	Reporting Units	GW1	GW2	RCGW1	RCGW2	DW MMCL																				
Volatiles by 524.2																										
1,1,1,2-Tetrachloroethane	ug/l	5	10	5	10	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
1,1,1-Trichloroethane	ug/l	200	4000	200	4000	200	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
1,1,2,2-Tetrachloroethane	ug/l	2	9	2	9	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
1,1,2-Trichloroethane	ug/l	5	900	5	900	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
1,1-Dichloroethane	ug/l	70	1000	70	1000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
1,1-Dichloroethene	ug/l	7	80	7	80	7	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
1,1-Dichloropropene	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
1,2,3-Trichlorobenzene	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
1,2,3-Trichloropropane	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
1,2,4-Trichlorobenzene	ug/l	70	2000	70	2000	70	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
1,2,4-Trimethylbenzene	ug/l	NA	NA	10000	100000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
1,2-Dibromo-3-Chloropropane	ug/l	NA	NA	100	1000	0.2	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**		**< 0.50**	**< 0.50**	
1,2-Dibromoethane	ug/l	0.02	2	0.02	2	0.02	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**		**< 0.50**	**< 0.50**	
1,2-Dichlorobenzene	ug/l	600	2000	600	2000	600	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
1,2-Dichloroethane	ug/l	5	5	5	5	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
1,2-Dichloropropane	ug/l	5	3	3	3	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
1,3,5-Trimethylbenzene	ug/l	NA	NA	100	1000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
1,3-Dichlorobenzene	ug/l	40	2000	40	2000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
1,3-Dichloropropane	ug/l	NA	NA	5000	50000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
1,4-Dichlorobenzene	ug/l	5	200	5	200	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
2,2-Dichloropropane	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
2-Butanone (MEK)	ug/l	4000	50000	4000	50000	NA	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5		< 2.5	< 2.5	
2-Chlorotoluene	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
4-Chlorotoluene	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
4-Isopropyltoluene	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
4-Methyl-2-pentanone (MIBK)	ug/l	350	50000	350	50000	NA	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5		< 2.5	< 2.5	
Acetone	ug/l	6300	50000	6300	50000	NA	1.3J *	< 2.5	< 2.5	< 2.5	< 2.5	0.88J *	0.79J *	< 2.5	1.0J *	1.5J *	< 2.5	1.1J	< 2.5	< 2.5	< 2.5		< 2.5	5.4	
Benzene	ug/l	5	2000	5	2000	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
Bromobenzene	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
Bromochloromethane	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
Bromoform	ug/l	4	700	4	700	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
Bromomethane	ug/l	10	7	7	7	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
Carbon tetrachloride	ug/l	5	2	2	2	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
Chlorobenzene	ug/l	100	200	100	200	100	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
Chlorodibromomethane	ug/l	2	20	2	20	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
Chloroethane	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
Chloroform	ug/l	70	50	50	50	NA	< 0.50	0.46J	0.38J	0.22J	0.38J	0.19J	< 0.50	< 0.50	0.66	0.56	0.18J	< 0.50	0.79	0.53	0.42J		0.89	< 0.50	
Chloromethane	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
cis-1,2-Dichloroethene	ug/l	70	100	70	100	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
cis-1,3-Dichloropropene	ug/l	NA	NA	0.5	5	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
Dibromomethane	ug/l	NA	NA	5000	50000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
Dichlorobromomethane	ug/l	3	6	3	6	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
Dichlorodifluoromethane	ug/l	NA	NA	10000	100000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
Ethylbenzene	ug/l	700	20000	700	5000	700	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
Hexachlorobutadiene	ug/l	0.6	1	0.6	1	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
Isopropylbenzene	ug/l	NA	NA	10000	100000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
Methyl tert-butyl ether	ug/l	70	50000	70	5000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
Methylene Chloride	ug/l	5	10000	5	10000	5	0.53	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
m-Xylene & p-Xylene	ug/l	10000	9000	5000	5000	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0	
Naphthalene	ug/l	140	1000	140	1000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
n-Butylbenzene	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
N-Propylbenzene	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
o-Xylene	ug/l	10000	9000	5000	5000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
Styrene	ug/l	100	100	100	100	100	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
t-Butanol	ug/l	NA	NA	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10	
tert-Butylbenzene	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
Tetrachloroethene	ug/l	5	50	5	50	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
Toluene	ug/l	1000	50000	1000	40000	1000	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
trans-1,2-Dichloroethene	ug/l	100	90	90	90	100	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
trans-1,3-Dichloropropene	ug/l	NA	NA	0.5	5	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
Trichloroethene	ug/l	5	30	5	30	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
Trichlorofluoromethane	ug/l	NA	NA	10000	100000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
Trihalomethanes, Total	ug/l	NA	NA	NA	NA	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0		< 2.0	< 2.0	
Vinyl chloride	ug/l	2	2	2	2	2	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
Xylenes, Total	ug/l	10000	9000	5000	5000	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0	
Semivolatiles by 522 MOD																										
1,4-Dioxane	ug/l	3	6000	3	6000	NA		< 0.20	< 0.20	< 0.20	0.069J	0.25	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20			< 0.20

Notes:
ug/l - micrograms/liter
* - LCS or LCSD exceeds the control limits
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
J * - LCS or LCSD exceeds the control limits
GW1 - Concentrations based on the use of groundwater as drinking water, either currently or in the foreseeable future.
GW2 - Concentrations based on the potential for volatile material to migrate into indoor air.
GW3 - Concentrations based on the potential environmental effects resulting from contaminated groundwater discharging to surface water.
RC - Risk Characterization approach, Standards may be supplemented or modified with site- and chemical-specific information.
UCL - Upper Concentration Limits in groundwater and soil are promulgated to minimize potential risks associated with uncontrolled environmental contamination, and the costs associated with cumulative anthropogenic contributions to background.

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as a row across sample columns, an intuitive analyte trending tool, auto-fill search functions and exports data into Excel, while keeping its original format.
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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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TestAmerica Buffalo
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TestAmerica Job ID: 480-37650-1
Client Project/Site: Eastham Landfill IRA

For:
Bennett Environmental Associates, Inc.
1573 Main St.
Brewster, Massachusetts 02631

Attn: David Bennett

Authorized for release by:
5/14/2013 12:33:49 PM

Steve Hartmann, Lab Director
steve.hartmann@testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

LINKS

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Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37650-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD exceeds the control limits

GC/MS Semi VOA

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-37650-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-37650-1

Receipt
The samples were received on 5/4/2013 6:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 2.9º C, 3.1º C and 4.2º C.

GC/MS VOA (524.2)
Method(s) 524.2: The laboratory control sample (LCS) for batch 117534 recovered outside control limits for the following analyte: Vinyl chloride. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Method(s) 524.2: The continuing calibration verification (CCV) for 2-Methyl-2-propanol and Acetone associated with batch 117534 recovered above the upper control limit. The samples associated with this CCV were below the reporting limit for the affected analytes; therefore, the data have been reported.

No other analytical or quality issues were noted.

GC/MS Semi VOA (522MOD)
No analytical or quality issues were noted.

Detection Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37650-1

Client Sample ID: Trip Blank — Lab Sample ID: 480-37650-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.8	J	2.5	0.54	ug/L	1		524.2	Total/NA
Methylene Chloride	0.67		0.50	0.25	ug/L	1		524.2	Total/NA

Client Sample ID: 70 Candlewood — Lab Sample ID: 480-37650-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.47	J	0.50	0.14	ug/L	1		524.2	Total/NA
1,4-Dioxane	0.073	J	0.20	0.041	ug/L	1		522 MOD	Total/NA

Client Sample ID: 50 Deerfield — Lab Sample ID: 480-37650-4

No Detections.

Client Sample ID: 50 Candlewood — Lab Sample ID: 480-37650-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.36	J	0.50	0.14	ug/L	1		524.2	Total/NA
1,4-Dioxane	0.092	J	0.20	0.041	ug/L	1		522 MOD	Total/NA

Client Sample ID: 100 Candlewood — Lab Sample ID: 480-37650-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.39	J	0.50	0.14	ug/L	1		524.2	Total/NA

Client Sample ID: 30 Starlight — Lab Sample ID: 480-37650-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.59		0.50	0.14	ug/L	1		524.2	Total/NA
1,4-Dioxane	0.21		0.20	0.041	ug/L	1		522 MOD	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 480-37650-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.45	J	0.50	0.25	ug/L	1		524.2	Total/NA

Client Sample ID: 35 Chokeberry — Lab Sample ID: 480-37650-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.050	J	0.20	0.041	ug/L	1		522 MOD	Total/NA

Client Sample ID: 5 Acorn — Lab Sample ID: 480-37650-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.13	J	0.50	0.063	ug/L	1		524.2	Total/NA
Chloroform	0.68		0.50	0.14	ug/L	1		524.2	Total/NA
1,4-Dioxane	0.042	J	0.20	0.041	ug/L	1		522 MOD	Total/NA

Client Sample ID: 350 Old Orchard — Lab Sample ID: 480-37650-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.62		0.50	0.14	ug/L	1		524.2	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37650-1

Client Sample ID: 200 Meetinghouse — Lab Sample ID: 480-37650-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.16	J	0.50	0.14	ug/L	1		524.2	Total/NA
1,4-Dioxane	0.093	J	0.20	0.041	ug/L	1		522 MOD	Total/NA

Client Sample ID: 3 Eldia — Lab Sample ID: 480-37650-21

No Detections.

Client Sample ID: 5 Sharon — Lab Sample ID: 480-37650-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.17	J	0.50	0.14	ug/L	1		524.2	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: Trip Blank
Date Collected: 05/03/13 00:00
Date Received: 05/04/13 06:30

Lab Sample ID: 480-37650-1
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/09/13 07:34	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/09/13 07:34	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/09/13 07:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/09/13 07:34	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/09/13 07:34	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/09/13 07:34	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/09/13 07:34	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/09/13 07:34	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/09/13 07:34	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/09/13 07:34	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/09/13 07:34	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/09/13 07:34	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/09/13 07:34	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/09/13 07:34	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/09/13 07:34	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/09/13 07:34	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/09/13 07:34	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/09/13 07:34	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/09/13 07:34	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/09/13 07:34	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/09/13 07:34	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/09/13 07:34	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/09/13 07:34	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/09/13 07:34	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/09/13 07:34	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/09/13 07:34	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/09/13 07:34	1
Acetone	**1.8**	**J**	2.5	0.54	ug/L			05/09/13 07:34	1
Benzene	ND		0.50	0.13	ug/L			05/09/13 07:34	1
Bromobenzene	ND		0.50	0.13	ug/L			05/09/13 07:34	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/09/13 07:34	1
Bromoform	ND		0.50	0.13	ug/L			05/09/13 07:34	1
Bromomethane	ND		0.50	0.051	ug/L			05/09/13 07:34	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/09/13 07:34	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/09/13 07:34	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/09/13 07:34	1
Chloroethane	ND		0.50	0.070	ug/L			05/09/13 07:34	1
Chloroform	ND		0.50	0.14	ug/L			05/09/13 07:34	1
Chloromethane	ND		0.50	0.063	ug/L			05/09/13 07:34	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/09/13 07:34	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/09/13 07:34	1
Dibromomethane	ND		0.50	0.17	ug/L			05/09/13 07:34	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/09/13 07:34	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/09/13 07:34	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/09/13 07:34	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/09/13 07:34	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/09/13 07:34	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/09/13 07:34	1
Methylene Chloride	**0.67**		0.50	0.25	ug/L			05/09/13 07:34	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37650-1

Client Sample ID: Trip Blank

Lab Sample ID: 480-37650-1

Date Collected: 05/03/13 00:00

Matrix: Water

Date Received: 05/04/13 06:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/09/13 07:34	1
Naphthalene	ND		0.50	0.060	ug/L			05/09/13 07:34	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/09/13 07:34	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/09/13 07:34	1
o-Xylene	ND		0.50	0.044	ug/L			05/09/13 07:34	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/09/13 07:34	1
Styrene	ND		0.50	0.044	ug/L			05/09/13 07:34	1
t-Butanol	ND		10	2.5	ug/L			05/09/13 07:34	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/09/13 07:34	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/09/13 07:34	1
Toluene	ND		0.50	0.10	ug/L			05/09/13 07:34	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/09/13 07:34	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/09/13 07:34	1
Trichloroethene	ND		0.50	0.060	ug/L			05/09/13 07:34	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/09/13 07:34	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/09/13 07:34	1
Vinyl chloride	ND	*	0.50	0.059	ug/L			05/09/13 07:34	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/09/13 07:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*100*		*80 - 120*		*05/09/13 07:34*	*1*
4-Bromofluorobenzene (Surr)	*84*		*80 - 120*		*05/09/13 07:34*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		05/08/13 08:56	05/08/13 13:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*83*		*70 - 130*	*05/08/13 08:56*	*05/08/13 13:48*	*1*

Client Sample ID: 70 Candlewood

Lab Sample ID: 480-37650-2

Date Collected: 05/03/13 09:15

Matrix: Water

Date Received: 05/04/13 06:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/09/13 07:58	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/09/13 07:58	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/09/13 07:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/09/13 07:58	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/09/13 07:58	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/09/13 07:58	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/09/13 07:58	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/09/13 07:58	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/09/13 07:58	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/09/13 07:58	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/09/13 07:58	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/09/13 07:58	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/09/13 07:58	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/09/13 07:58	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37650-1

Client Sample ID: 70 Candlewood
Date Collected: 05/03/13 09:15
Date Received: 05/04/13 06:30

Lab Sample ID: 480-37650-2
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/09/13 07:58	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/09/13 07:58	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/09/13 07:58	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/09/13 07:58	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/09/13 07:58	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/09/13 07:58	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/09/13 07:58	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/09/13 07:58	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/09/13 07:58	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/09/13 07:58	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/09/13 07:58	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/09/13 07:58	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/09/13 07:58	1
Acetone	ND		2.5	0.54	ug/L			05/09/13 07:58	1
Benzene	ND		0.50	0.13	ug/L			05/09/13 07:58	1
Bromobenzene	ND		0.50	0.13	ug/L			05/09/13 07:58	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/09/13 07:58	1
Bromoform	ND		0.50	0.13	ug/L			05/09/13 07:58	1
Bromomethane	ND		0.50	0.051	ug/L			05/09/13 07:58	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/09/13 07:58	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/09/13 07:58	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/09/13 07:58	1
Chloroethane	ND		0.50	0.070	ug/L			05/09/13 07:58	1
Chloroform	**0.47**	**J**	0.50	0.14	ug/L			05/09/13 07:58	1
Chloromethane	ND		0.50	0.063	ug/L			05/09/13 07:58	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/09/13 07:58	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/09/13 07:58	1
Dibromomethane	ND		0.50	0.17	ug/L			05/09/13 07:58	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/09/13 07:58	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/09/13 07:58	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/09/13 07:58	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/09/13 07:58	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/09/13 07:58	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/09/13 07:58	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/09/13 07:58	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/09/13 07:58	1
Naphthalene	ND		0.50	0.060	ug/L			05/09/13 07:58	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/09/13 07:58	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/09/13 07:58	1
o-Xylene	ND		0.50	0.044	ug/L			05/09/13 07:58	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/09/13 07:58	1
Styrene	ND		0.50	0.044	ug/L			05/09/13 07:58	1
t-Butanol	ND		10	2.5	ug/L			05/09/13 07:58	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/09/13 07:58	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/09/13 07:58	1
Toluene	ND		0.50	0.10	ug/L			05/09/13 07:58	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/09/13 07:58	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/09/13 07:58	1
Trichloroethene	ND		0.50	0.060	ug/L			05/09/13 07:58	1

Client Sample ID: 70 Candlewood

Lab Sample ID: 480-37650-2

Date Collected: 05/03/13 09:15

Matrix: Water

Date Received: 05/04/13 06:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/09/13 07:58	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/09/13 07:58	1
Vinyl chloride	ND	*	0.50	0.059	ug/L			05/09/13 07:58	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/09/13 07:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*101*		*80 - 120*		*05/09/13 07:58*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*05/09/13 07:58*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.073	J	0.20	0.041	ug/L		05/08/13 08:56	05/08/13 14:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*93*		*70 - 130*	*05/08/13 08:56*	*05/08/13 14:04*	*1*

Client Sample ID: 50 Deerfield

Lab Sample ID: 480-37650-4

Date Collected: 05/03/13 10:10

Matrix: Water

Date Received: 05/04/13 06:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/09/13 08:47	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/09/13 08:47	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/09/13 08:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/09/13 08:47	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/09/13 08:47	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/09/13 08:47	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/09/13 08:47	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/09/13 08:47	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/09/13 08:47	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/09/13 08:47	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/09/13 08:47	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/09/13 08:47	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/09/13 08:47	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/09/13 08:47	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/09/13 08:47	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/09/13 08:47	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/09/13 08:47	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/09/13 08:47	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/09/13 08:47	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/09/13 08:47	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/09/13 08:47	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/09/13 08:47	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/09/13 08:47	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/09/13 08:47	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/09/13 08:47	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/09/13 08:47	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/09/13 08:47	1
Acetone	ND		2.5	0.54	ug/L			05/09/13 08:47	1

Client Sample ID: 50 Deerfield
Date Collected: 05/03/13 10:10
Date Received: 05/04/13 06:30

Lab Sample ID: 480-37650-4
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.13	ug/L			05/09/13 08:47	1
Bromobenzene	ND		0.50	0.13	ug/L			05/09/13 08:47	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/09/13 08:47	1
Bromoform	ND		0.50	0.13	ug/L			05/09/13 08:47	1
Bromomethane	ND		0.50	0.051	ug/L			05/09/13 08:47	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/09/13 08:47	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/09/13 08:47	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/09/13 08:47	1
Chloroethane	ND		0.50	0.070	ug/L			05/09/13 08:47	1
Chloroform	ND		0.50	0.14	ug/L			05/09/13 08:47	1
Chloromethane	ND		0.50	0.063	ug/L			05/09/13 08:47	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/09/13 08:47	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/09/13 08:47	1
Dibromomethane	ND		0.50	0.17	ug/L			05/09/13 08:47	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/09/13 08:47	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/09/13 08:47	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/09/13 08:47	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/09/13 08:47	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/09/13 08:47	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/09/13 08:47	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/09/13 08:47	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/09/13 08:47	1
Naphthalene	ND		0.50	0.060	ug/L			05/09/13 08:47	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/09/13 08:47	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/09/13 08:47	1
o-Xylene	ND		0.50	0.044	ug/L			05/09/13 08:47	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/09/13 08:47	1
Styrene	ND		0.50	0.044	ug/L			05/09/13 08:47	1
t-Butanol	ND		10	2.5	ug/L			05/09/13 08:47	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/09/13 08:47	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/09/13 08:47	1
Toluene	ND		0.50	0.10	ug/L			05/09/13 08:47	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/09/13 08:47	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/09/13 08:47	1
Trichloroethene	ND		0.50	0.060	ug/L			05/09/13 08:47	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/09/13 08:47	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/09/13 08:47	1
Vinyl chloride	ND	*	0.50	0.059	ug/L			05/09/13 08:47	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/09/13 08:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*101*		*80 - 120*		*05/09/13 08:47*	*1*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*05/09/13 08:47*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		05/08/13 08:56	05/08/13 14:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*93*		*70 - 130*	*05/08/13 08:56*	*05/08/13 14:21*	*1*

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37650-1

Client Sample ID: 50 Candlewood
Date Collected: 05/03/13 11:10
Date Received: 05/04/13 06:30

Lab Sample ID: 480-37650-6
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/09/13 14:58	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/09/13 14:58	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/09/13 14:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/09/13 14:58	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/09/13 14:58	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/09/13 14:58	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/09/13 14:58	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/09/13 14:58	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/09/13 14:58	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/09/13 14:58	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/09/13 14:58	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/09/13 14:58	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/09/13 14:58	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/09/13 14:58	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/09/13 14:58	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/09/13 14:58	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/09/13 14:58	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/09/13 14:58	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/09/13 14:58	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/09/13 14:58	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/09/13 14:58	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/09/13 14:58	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/09/13 14:58	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/09/13 14:58	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/09/13 14:58	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/09/13 14:58	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/09/13 14:58	1
Acetone	ND		2.5	0.54	ug/L			05/09/13 14:58	1
Benzene	ND		0.50	0.13	ug/L			05/09/13 14:58	1
Bromobenzene	ND		0.50	0.13	ug/L			05/09/13 14:58	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/09/13 14:58	1
Bromoform	ND		0.50	0.13	ug/L			05/09/13 14:58	1
Bromomethane	ND		0.50	0.051	ug/L			05/09/13 14:58	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/09/13 14:58	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/09/13 14:58	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/09/13 14:58	1
Chloroethane	ND		0.50	0.070	ug/L			05/09/13 14:58	1
Chloroform	**0.36**	**J**	0.50	0.14	ug/L			05/09/13 14:58	1
Chloromethane	ND		0.50	0.063	ug/L			05/09/13 14:58	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/09/13 14:58	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/09/13 14:58	1
Dibromomethane	ND		0.50	0.17	ug/L			05/09/13 14:58	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/09/13 14:58	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/09/13 14:58	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/09/13 14:58	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/09/13 14:58	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/09/13 14:58	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/09/13 14:58	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/09/13 14:58	1

Client Sample ID: 50 Candlewood

Lab Sample ID: 480-37650-6

Date Collected: 05/03/13 11:10

Matrix: Water

Date Received: 05/04/13 06:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/09/13 14:58	1
Naphthalene	ND		0.50	0.060	ug/L			05/09/13 14:58	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/09/13 14:58	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/09/13 14:58	1
o-Xylene	ND		0.50	0.044	ug/L			05/09/13 14:58	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/09/13 14:58	1
Styrene	ND		0.50	0.044	ug/L			05/09/13 14:58	1
t-Butanol	ND		10	2.5	ug/L			05/09/13 14:58	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/09/13 14:58	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/09/13 14:58	1
Toluene	ND		0.50	0.10	ug/L			05/09/13 14:58	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/09/13 14:58	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/09/13 14:58	1
Trichloroethene	ND		0.50	0.060	ug/L			05/09/13 14:58	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/09/13 14:58	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/09/13 14:58	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/09/13 14:58	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/09/13 14:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*104*		*80 - 120*		*05/09/13 14:58*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*05/09/13 14:58*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**0.092**	**J**	0.20	0.041	ug/L		05/08/13 08:56	05/08/13 14:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*92*		*70 - 130*	*05/08/13 08:56*	*05/08/13 14:37*	*1*

Client Sample ID: 100 Candlewood

Lab Sample ID: 480-37650-8

Date Collected: 05/03/13 12:10

Matrix: Water

Date Received: 05/04/13 06:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/09/13 15:47	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/09/13 15:47	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/09/13 15:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/09/13 15:47	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/09/13 15:47	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/09/13 15:47	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/09/13 15:47	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/09/13 15:47	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/09/13 15:47	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/09/13 15:47	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/09/13 15:47	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/09/13 15:47	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/09/13 15:47	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/09/13 15:47	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37650-1

Client Sample ID: 100 Candlewood
Date Collected: 05/03/13 12:10
Date Received: 05/04/13 06:30

Lab Sample ID: 480-37650-8
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/09/13 15:47	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/09/13 15:47	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/09/13 15:47	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/09/13 15:47	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/09/13 15:47	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/09/13 15:47	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/09/13 15:47	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/09/13 15:47	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/09/13 15:47	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/09/13 15:47	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/09/13 15:47	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/09/13 15:47	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/09/13 15:47	1
Acetone	ND		2.5	0.54	ug/L			05/09/13 15:47	1
Benzene	ND		0.50	0.13	ug/L			05/09/13 15:47	1
Bromobenzene	ND		0.50	0.13	ug/L			05/09/13 15:47	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/09/13 15:47	1
Bromoform	ND		0.50	0.13	ug/L			05/09/13 15:47	1
Bromomethane	ND		0.50	0.051	ug/L			05/09/13 15:47	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/09/13 15:47	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/09/13 15:47	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/09/13 15:47	1
Chloroethane	ND		0.50	0.070	ug/L			05/09/13 15:47	1
Chloroform	**0.39**	**J**	0.50	0.14	ug/L			05/09/13 15:47	1
Chloromethane	ND		0.50	0.063	ug/L			05/09/13 15:47	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/09/13 15:47	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/09/13 15:47	1
Dibromomethane	ND		0.50	0.17	ug/L			05/09/13 15:47	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/09/13 15:47	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/09/13 15:47	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/09/13 15:47	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/09/13 15:47	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/09/13 15:47	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/09/13 15:47	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/09/13 15:47	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/09/13 15:47	1
Naphthalene	ND		0.50	0.060	ug/L			05/09/13 15:47	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/09/13 15:47	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/09/13 15:47	1
o-Xylene	ND		0.50	0.044	ug/L			05/09/13 15:47	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/09/13 15:47	1
Styrene	ND		0.50	0.044	ug/L			05/09/13 15:47	1
t-Butanol	ND		10	2.5	ug/L			05/09/13 15:47	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/09/13 15:47	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/09/13 15:47	1
Toluene	ND		0.50	0.10	ug/L			05/09/13 15:47	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/09/13 15:47	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/09/13 15:47	1
Trichloroethene	ND		0.50	0.060	ug/L			05/09/13 15:47	1

Client Sample ID: 100 Candlewood

Lab Sample ID: 480-37650-8

Date Collected: 05/03/13 12:10

Matrix: Water

Date Received: 05/04/13 06:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/09/13 15:47	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/09/13 15:47	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/09/13 15:47	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/09/13 15:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*103*		*80 - 120*		*05/09/13 15:47*	*1*
4-Bromofluorobenzene (Surr)	*82*		*80 - 120*		*05/09/13 15:47*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		05/08/13 08:56	05/08/13 14:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*83*		*70 - 130*	*05/08/13 08:56*	*05/08/13 14:53*	*1*

Client Sample ID: 30 Starlight

Lab Sample ID: 480-37650-10

Date Collected: 05/03/13 12:45

Matrix: Water

Date Received: 05/04/13 06:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/09/13 16:36	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/09/13 16:36	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/09/13 16:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/09/13 16:36	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/09/13 16:36	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/09/13 16:36	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/09/13 16:36	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/09/13 16:36	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/09/13 16:36	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/09/13 16:36	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/09/13 16:36	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/09/13 16:36	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/09/13 16:36	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/09/13 16:36	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/09/13 16:36	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/09/13 16:36	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/09/13 16:36	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/09/13 16:36	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/09/13 16:36	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/09/13 16:36	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/09/13 16:36	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/09/13 16:36	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/09/13 16:36	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/09/13 16:36	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/09/13 16:36	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/09/13 16:36	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/09/13 16:36	1
Acetone	ND		2.5	0.54	ug/L			05/09/13 16:36	1

Client Sample ID: 30 Starlight
Date Collected: 05/03/13 12:45
Date Received: 05/04/13 06:30

Lab Sample ID: 480-37650-10
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.13	ug/L			05/09/13 16:36	1
Bromobenzene	ND		0.50	0.13	ug/L			05/09/13 16:36	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/09/13 16:36	1
Bromoform	ND		0.50	0.13	ug/L			05/09/13 16:36	1
Bromomethane	ND		0.50	0.051	ug/L			05/09/13 16:36	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/09/13 16:36	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/09/13 16:36	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/09/13 16:36	1
Chloroethane	ND		0.50	0.070	ug/L			05/09/13 16:36	1
Chloroform	**0.59**		0.50	0.14	ug/L			05/09/13 16:36	1
Chloromethane	ND		0.50	0.063	ug/L			05/09/13 16:36	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/09/13 16:36	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/09/13 16:36	1
Dibromomethane	ND		0.50	0.17	ug/L			05/09/13 16:36	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/09/13 16:36	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/09/13 16:36	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/09/13 16:36	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/09/13 16:36	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/09/13 16:36	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/09/13 16:36	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/09/13 16:36	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/09/13 16:36	1
Naphthalene	ND		0.50	0.060	ug/L			05/09/13 16:36	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/09/13 16:36	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/09/13 16:36	1
o-Xylene	ND		0.50	0.044	ug/L			05/09/13 16:36	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/09/13 16:36	1
Styrene	ND		0.50	0.044	ug/L			05/09/13 16:36	1
t-Butanol	ND		10	2.5	ug/L			05/09/13 16:36	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/09/13 16:36	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/09/13 16:36	1
Toluene	ND		0.50	0.10	ug/L			05/09/13 16:36	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/09/13 16:36	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/09/13 16:36	1
Trichloroethene	ND		0.50	0.060	ug/L			05/09/13 16:36	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/09/13 16:36	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/09/13 16:36	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/09/13 16:36	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/09/13 16:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*101*		*80 - 120*		*05/09/13 16:36*	*1*
4-Bromofluorobenzene (Surr)	*84*		*80 - 120*		*05/09/13 16:36*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**0.21**		0.20	0.041	ug/L		05/08/13 08:56	05/08/13 15:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*91*		*70 - 130*	*05/08/13 08:56*	*05/08/13 15:10*	*1*

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37650-1

Client Sample ID: Trip Blank
Date Collected: 05/03/13 00:00
Date Received: 05/04/13 06:30

Lab Sample ID: 480-37650-12
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/09/13 17:25	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/09/13 17:25	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/09/13 17:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/09/13 17:25	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/09/13 17:25	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/09/13 17:25	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/09/13 17:25	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/09/13 17:25	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/09/13 17:25	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/09/13 17:25	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/09/13 17:25	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/09/13 17:25	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/09/13 17:25	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/09/13 17:25	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/09/13 17:25	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/09/13 17:25	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/09/13 17:25	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/09/13 17:25	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/09/13 17:25	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/09/13 17:25	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/09/13 17:25	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/09/13 17:25	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/09/13 17:25	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/09/13 17:25	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/09/13 17:25	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/09/13 17:25	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/09/13 17:25	1
Acetone	ND		2.5	0.54	ug/L			05/09/13 17:25	1
Benzene	ND		0.50	0.13	ug/L			05/09/13 17:25	1
Bromobenzene	ND		0.50	0.13	ug/L			05/09/13 17:25	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/09/13 17:25	1
Bromoform	ND		0.50	0.13	ug/L			05/09/13 17:25	1
Bromomethane	ND		0.50	0.051	ug/L			05/09/13 17:25	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/09/13 17:25	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/09/13 17:25	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/09/13 17:25	1
Chloroethane	ND		0.50	0.070	ug/L			05/09/13 17:25	1
Chloroform	ND		0.50	0.14	ug/L			05/09/13 17:25	1
Chloromethane	ND		0.50	0.063	ug/L			05/09/13 17:25	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/09/13 17:25	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/09/13 17:25	1
Dibromomethane	ND		0.50	0.17	ug/L			05/09/13 17:25	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/09/13 17:25	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/09/13 17:25	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/09/13 17:25	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/09/13 17:25	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/09/13 17:25	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/09/13 17:25	1
Methylene Chloride	**0.45**	**J**	0.50	0.25	ug/L			05/09/13 17:25	1

Client Sample ID: Trip Blank

Lab Sample ID: 480-37650-12

Date Collected: 05/03/13 00:00

Matrix: Water

Date Received: 05/04/13 06:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/09/13 17:25	1
Naphthalene	ND		0.50	0.060	ug/L			05/09/13 17:25	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/09/13 17:25	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/09/13 17:25	1
o-Xylene	ND		0.50	0.044	ug/L			05/09/13 17:25	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/09/13 17:25	1
Styrene	ND		0.50	0.044	ug/L			05/09/13 17:25	1
t-Butanol	ND		10	2.5	ug/L			05/09/13 17:25	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/09/13 17:25	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/09/13 17:25	1
Toluene	ND		0.50	0.10	ug/L			05/09/13 17:25	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/09/13 17:25	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/09/13 17:25	1
Trichloroethene	ND		0.50	0.060	ug/L			05/09/13 17:25	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/09/13 17:25	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/09/13 17:25	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/09/13 17:25	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/09/13 17:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*100*		*80 - 120*		*05/09/13 17:25*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*05/09/13 17:25*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		05/08/13 08:56	05/08/13 15:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*95*		*70 - 130*	*05/08/13 08:56*	*05/08/13 15:26*	*1*

Client Sample ID: 35 Chokeberry

Lab Sample ID: 480-37650-13

Date Collected: 05/03/13 09:15

Matrix: Water

Date Received: 05/04/13 06:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/09/13 17:49	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/09/13 17:49	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/09/13 17:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/09/13 17:49	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/09/13 17:49	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/09/13 17:49	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/09/13 17:49	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/09/13 17:49	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/09/13 17:49	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/09/13 17:49	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/09/13 17:49	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/09/13 17:49	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/09/13 17:49	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/09/13 17:49	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37650-1

Client Sample ID: 35 Chokeberry
Date Collected: 05/03/13 09:15
Date Received: 05/04/13 06:30

Lab Sample ID: 480-37650-13
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/09/13 17:49	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/09/13 17:49	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/09/13 17:49	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/09/13 17:49	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/09/13 17:49	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/09/13 17:49	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/09/13 17:49	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/09/13 17:49	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/09/13 17:49	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/09/13 17:49	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/09/13 17:49	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/09/13 17:49	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/09/13 17:49	1
Acetone	ND		2.5	0.54	ug/L			05/09/13 17:49	1
Benzene	ND		0.50	0.13	ug/L			05/09/13 17:49	1
Bromobenzene	ND		0.50	0.13	ug/L			05/09/13 17:49	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/09/13 17:49	1
Bromoform	ND		0.50	0.13	ug/L			05/09/13 17:49	1
Bromomethane	ND		0.50	0.051	ug/L			05/09/13 17:49	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/09/13 17:49	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/09/13 17:49	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/09/13 17:49	1
Chloroethane	ND		0.50	0.070	ug/L			05/09/13 17:49	1
Chloroform	ND		0.50	0.14	ug/L			05/09/13 17:49	1
Chloromethane	ND		0.50	0.063	ug/L			05/09/13 17:49	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/09/13 17:49	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/09/13 17:49	1
Dibromomethane	ND		0.50	0.17	ug/L			05/09/13 17:49	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/09/13 17:49	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/09/13 17:49	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/09/13 17:49	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/09/13 17:49	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/09/13 17:49	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/09/13 17:49	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/09/13 17:49	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/09/13 17:49	1
Naphthalene	ND		0.50	0.060	ug/L			05/09/13 17:49	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/09/13 17:49	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/09/13 17:49	1
o-Xylene	ND		0.50	0.044	ug/L			05/09/13 17:49	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/09/13 17:49	1
Styrene	ND		0.50	0.044	ug/L			05/09/13 17:49	1
t-Butanol	ND		10	2.5	ug/L			05/09/13 17:49	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/09/13 17:49	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/09/13 17:49	1
Toluene	ND		0.50	0.10	ug/L			05/09/13 17:49	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/09/13 17:49	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/09/13 17:49	1
Trichloroethene	ND		0.50	0.060	ug/L			05/09/13 17:49	1

Client Sample ID: 35 Chokeberry

Lab Sample ID: 480-37650-13

Date Collected: 05/03/13 09:15

Matrix: Water

Date Received: 05/04/13 06:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/09/13 17:49	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/09/13 17:49	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/09/13 17:49	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/09/13 17:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*101*		*80 - 120*		*05/09/13 17:49*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*05/09/13 17:49*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**0.050**	**J**	0.20	0.041	ug/L		05/08/13 08:56	05/08/13 15:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*91*		*70 - 130*	*05/08/13 08:56*	*05/08/13 15:42*	*1*

Client Sample ID: 5 Acorn

Lab Sample ID: 480-37650-15

Date Collected: 05/03/13 10:15

Matrix: Water

Date Received: 05/04/13 06:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/09/13 18:39	1
1,1,1-Trichloroethane	**0.13**	**J**	0.50	0.063	ug/L			05/09/13 18:39	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/09/13 18:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/09/13 18:39	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/09/13 18:39	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/09/13 18:39	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/09/13 18:39	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/09/13 18:39	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/09/13 18:39	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/09/13 18:39	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/09/13 18:39	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/09/13 18:39	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/09/13 18:39	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/09/13 18:39	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/09/13 18:39	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/09/13 18:39	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/09/13 18:39	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/09/13 18:39	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/09/13 18:39	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/09/13 18:39	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/09/13 18:39	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/09/13 18:39	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/09/13 18:39	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/09/13 18:39	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/09/13 18:39	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/09/13 18:39	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/09/13 18:39	1
Acetone	ND		2.5	0.54	ug/L			05/09/13 18:39	1

Client Sample ID: 5 Acorn
Date Collected: 05/03/13 10:15
Date Received: 05/04/13 06:30

Lab Sample ID: 480-37650-15
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.13	ug/L			05/09/13 18:39	1
Bromobenzene	ND		0.50	0.13	ug/L			05/09/13 18:39	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/09/13 18:39	1
Bromoform	ND		0.50	0.13	ug/L			05/09/13 18:39	1
Bromomethane	ND		0.50	0.051	ug/L			05/09/13 18:39	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/09/13 18:39	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/09/13 18:39	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/09/13 18:39	1
Chloroethane	ND		0.50	0.070	ug/L			05/09/13 18:39	1
Chloroform	**0.68**		0.50	0.14	ug/L			05/09/13 18:39	1
Chloromethane	ND		0.50	0.063	ug/L			05/09/13 18:39	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/09/13 18:39	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/09/13 18:39	1
Dibromomethane	ND		0.50	0.17	ug/L			05/09/13 18:39	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/09/13 18:39	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/09/13 18:39	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/09/13 18:39	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/09/13 18:39	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/09/13 18:39	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/09/13 18:39	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/09/13 18:39	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/09/13 18:39	1
Naphthalene	ND		0.50	0.060	ug/L			05/09/13 18:39	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/09/13 18:39	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/09/13 18:39	1
o-Xylene	ND		0.50	0.044	ug/L			05/09/13 18:39	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/09/13 18:39	1
Styrene	ND		0.50	0.044	ug/L			05/09/13 18:39	1
t-Butanol	ND		10	2.5	ug/L			05/09/13 18:39	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/09/13 18:39	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/09/13 18:39	1
Toluene	ND		0.50	0.10	ug/L			05/09/13 18:39	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/09/13 18:39	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/09/13 18:39	1
Trichloroethene	ND		0.50	0.060	ug/L			05/09/13 18:39	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/09/13 18:39	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/09/13 18:39	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/09/13 18:39	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/09/13 18:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*104*		*80 - 120*		*05/09/13 18:39*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*05/09/13 18:39*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**0.042**	**J**	0.20	0.041	ug/L		05/08/13 08:56	05/08/13 16:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*98*		*70 - 130*	*05/08/13 08:56*	*05/08/13 16:15*	*1*

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37650-1

Client Sample ID: 350 Old Orchard
Date Collected: 05/03/13 11:20
Date Received: 05/04/13 06:30

Lab Sample ID: 480-37650-17
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/09/13 19:28	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/09/13 19:28	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/09/13 19:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/09/13 19:28	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/09/13 19:28	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/09/13 19:28	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/09/13 19:28	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/09/13 19:28	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/09/13 19:28	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/09/13 19:28	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/09/13 19:28	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/09/13 19:28	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/09/13 19:28	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/09/13 19:28	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/09/13 19:28	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/09/13 19:28	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/09/13 19:28	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/09/13 19:28	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/09/13 19:28	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/09/13 19:28	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/09/13 19:28	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/09/13 19:28	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/09/13 19:28	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/09/13 19:28	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/09/13 19:28	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/09/13 19:28	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/09/13 19:28	1
Acetone	ND		2.5	0.54	ug/L			05/09/13 19:28	1
Benzene	ND		0.50	0.13	ug/L			05/09/13 19:28	1
Bromobenzene	ND		0.50	0.13	ug/L			05/09/13 19:28	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/09/13 19:28	1
Bromoform	ND		0.50	0.13	ug/L			05/09/13 19:28	1
Bromomethane	ND		0.50	0.051	ug/L			05/09/13 19:28	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/09/13 19:28	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/09/13 19:28	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/09/13 19:28	1
Chloroethane	ND		0.50	0.070	ug/L			05/09/13 19:28	1
Chloroform	**0.62**		0.50	0.14	ug/L			05/09/13 19:28	1
Chloromethane	ND		0.50	0.063	ug/L			05/09/13 19:28	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/09/13 19:28	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/09/13 19:28	1
Dibromomethane	ND		0.50	0.17	ug/L			05/09/13 19:28	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/09/13 19:28	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/09/13 19:28	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/09/13 19:28	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/09/13 19:28	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/09/13 19:28	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/09/13 19:28	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/09/13 19:28	1

Client Sample ID: 350 Old Orchard

Lab Sample ID: 480-37650-17

Date Collected: 05/03/13 11:20

Matrix: Water

Date Received: 05/04/13 06:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/09/13 19:28	1
Naphthalene	ND		0.50	0.060	ug/L			05/09/13 19:28	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/09/13 19:28	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/09/13 19:28	1
o-Xylene	ND		0.50	0.044	ug/L			05/09/13 19:28	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/09/13 19:28	1
Styrene	ND		0.50	0.044	ug/L			05/09/13 19:28	1
t-Butanol	ND		10	2.5	ug/L			05/09/13 19:28	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/09/13 19:28	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/09/13 19:28	1
Toluene	ND		0.50	0.10	ug/L			05/09/13 19:28	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/09/13 19:28	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/09/13 19:28	1
Trichloroethene	ND		0.50	0.060	ug/L			05/09/13 19:28	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/09/13 19:28	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/09/13 19:28	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/09/13 19:28	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/09/13 19:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*100*		*80 - 120*		*05/09/13 19:28*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*05/09/13 19:28*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		05/08/13 08:56	05/08/13 16:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*95*		*70 - 130*	*05/08/13 08:56*	*05/08/13 16:31*	*1*

Client Sample ID: 200 Meetinghouse

Lab Sample ID: 480-37650-19

Date Collected: 05/03/13 17:00

Matrix: Water

Date Received: 05/04/13 06:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/09/13 20:17	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/09/13 20:17	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/09/13 20:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/09/13 20:17	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/09/13 20:17	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/09/13 20:17	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/09/13 20:17	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/09/13 20:17	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/09/13 20:17	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/09/13 20:17	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/09/13 20:17	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/09/13 20:17	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/09/13 20:17	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/09/13 20:17	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37650-1

Client Sample ID: 200 Meetinghouse
Date Collected: 05/03/13 17:00
Date Received: 05/04/13 06:30

Lab Sample ID: 480-37650-19
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/09/13 20:17	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/09/13 20:17	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/09/13 20:17	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/09/13 20:17	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/09/13 20:17	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/09/13 20:17	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/09/13 20:17	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/09/13 20:17	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/09/13 20:17	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/09/13 20:17	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/09/13 20:17	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/09/13 20:17	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/09/13 20:17	1
Acetone	ND		2.5	0.54	ug/L			05/09/13 20:17	1
Benzene	ND		0.50	0.13	ug/L			05/09/13 20:17	1
Bromobenzene	ND		0.50	0.13	ug/L			05/09/13 20:17	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/09/13 20:17	1
Bromoform	ND		0.50	0.13	ug/L			05/09/13 20:17	1
Bromomethane	ND		0.50	0.051	ug/L			05/09/13 20:17	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/09/13 20:17	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/09/13 20:17	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/09/13 20:17	1
Chloroethane	ND		0.50	0.070	ug/L			05/09/13 20:17	1
Chloroform	**0.16**	**J**	0.50	0.14	ug/L			05/09/13 20:17	1
Chloromethane	ND		0.50	0.063	ug/L			05/09/13 20:17	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/09/13 20:17	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/09/13 20:17	1
Dibromomethane	ND		0.50	0.17	ug/L			05/09/13 20:17	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/09/13 20:17	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/09/13 20:17	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/09/13 20:17	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/09/13 20:17	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/09/13 20:17	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/09/13 20:17	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/09/13 20:17	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/09/13 20:17	1
Naphthalene	ND		0.50	0.060	ug/L			05/09/13 20:17	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/09/13 20:17	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/09/13 20:17	1
o-Xylene	ND		0.50	0.044	ug/L			05/09/13 20:17	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/09/13 20:17	1
Styrene	ND		0.50	0.044	ug/L			05/09/13 20:17	1
t-Butanol	ND		10	2.5	ug/L			05/09/13 20:17	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/09/13 20:17	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/09/13 20:17	1
Toluene	ND		0.50	0.10	ug/L			05/09/13 20:17	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/09/13 20:17	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/09/13 20:17	1
Trichloroethene	ND		0.50	0.060	ug/L			05/09/13 20:17	1

Client Sample ID: 200 Meetinghouse

Lab Sample ID: 480-37650-19

Date Collected: 05/03/13 17:00

Matrix: Water

Date Received: 05/04/13 06:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/09/13 20:17	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/09/13 20:17	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/09/13 20:17	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/09/13 20:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*101*		*80 - 120*		*05/09/13 20:17*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*05/09/13 20:17*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.093	J	0.20	0.041	ug/L		05/08/13 08:56	05/08/13 16:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*96*		*70 - 130*	*05/08/13 08:56*	*05/08/13 16:48*	*1*

Client Sample ID: 3 Eldia

Lab Sample ID: 480-37650-21

Date Collected: 05/03/13 12:00

Matrix: Water

Date Received: 05/04/13 06:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/10/13 00:51	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/10/13 00:51	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/10/13 00:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/10/13 00:51	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/10/13 00:51	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/10/13 00:51	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/10/13 00:51	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/10/13 00:51	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/10/13 00:51	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/10/13 00:51	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/10/13 00:51	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/10/13 00:51	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/10/13 00:51	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/10/13 00:51	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/10/13 00:51	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/10/13 00:51	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/10/13 00:51	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/10/13 00:51	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/10/13 00:51	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/10/13 00:51	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/10/13 00:51	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/10/13 00:51	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/10/13 00:51	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/10/13 00:51	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/10/13 00:51	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/10/13 00:51	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/10/13 00:51	1
Acetone	ND		2.5	0.54	ug/L			05/10/13 00:51	1

Client Sample ID: 3 Eldia
Date Collected: 05/03/13 12:00
Date Received: 05/04/13 06:30

Lab Sample ID: 480-37650-21
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.13	ug/L			05/10/13 00:51	1
Bromobenzene	ND		0.50	0.13	ug/L			05/10/13 00:51	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/10/13 00:51	1
Bromoform	ND		0.50	0.13	ug/L			05/10/13 00:51	1
Bromomethane	ND		0.50	0.051	ug/L			05/10/13 00:51	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/10/13 00:51	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/10/13 00:51	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/10/13 00:51	1
Chloroethane	ND		0.50	0.070	ug/L			05/10/13 00:51	1
Chloroform	ND		0.50	0.14	ug/L			05/10/13 00:51	1
Chloromethane	ND		0.50	0.063	ug/L			05/10/13 00:51	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/10/13 00:51	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/10/13 00:51	1
Dibromomethane	ND		0.50	0.17	ug/L			05/10/13 00:51	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/10/13 00:51	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/10/13 00:51	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/10/13 00:51	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/10/13 00:51	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/10/13 00:51	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/10/13 00:51	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/10/13 00:51	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/10/13 00:51	1
Naphthalene	ND		0.50	0.060	ug/L			05/10/13 00:51	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/10/13 00:51	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/10/13 00:51	1
o-Xylene	ND		0.50	0.044	ug/L			05/10/13 00:51	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/10/13 00:51	1
Styrene	ND		0.50	0.044	ug/L			05/10/13 00:51	1
t-Butanol	ND		10	2.5	ug/L			05/10/13 00:51	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/10/13 00:51	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/10/13 00:51	1
Toluene	ND		0.50	0.10	ug/L			05/10/13 00:51	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/10/13 00:51	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/10/13 00:51	1
Trichloroethene	ND		0.50	0.060	ug/L			05/10/13 00:51	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/10/13 00:51	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/10/13 00:51	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/10/13 00:51	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/10/13 00:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*102*		*80 - 120*		*05/10/13 00:51*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*05/10/13 00:51*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		05/08/13 08:56	05/08/13 17:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*84*		*70 - 130*	*05/08/13 08:56*	*05/08/13 17:04*	*1*

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37650-1

Client Sample ID: 5 Sharon
Date Collected: 05/03/13 12:50
Date Received: 05/04/13 06:30

Lab Sample ID: 480-37650-23
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/10/13 01:40	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/10/13 01:40	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/10/13 01:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/10/13 01:40	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/10/13 01:40	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/10/13 01:40	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/10/13 01:40	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/10/13 01:40	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/10/13 01:40	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/10/13 01:40	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/10/13 01:40	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/10/13 01:40	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/10/13 01:40	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/10/13 01:40	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/10/13 01:40	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/10/13 01:40	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/10/13 01:40	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/10/13 01:40	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/10/13 01:40	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/10/13 01:40	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/10/13 01:40	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/10/13 01:40	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/10/13 01:40	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/10/13 01:40	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/10/13 01:40	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/10/13 01:40	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/10/13 01:40	1
Acetone	ND		2.5	0.54	ug/L			05/10/13 01:40	1
Benzene	ND		0.50	0.13	ug/L			05/10/13 01:40	1
Bromobenzene	ND		0.50	0.13	ug/L			05/10/13 01:40	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/10/13 01:40	1
Bromoform	ND		0.50	0.13	ug/L			05/10/13 01:40	1
Bromomethane	ND		0.50	0.051	ug/L			05/10/13 01:40	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/10/13 01:40	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/10/13 01:40	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/10/13 01:40	1
Chloroethane	ND		0.50	0.070	ug/L			05/10/13 01:40	1
Chloroform	**0.17**	**J**	0.50	0.14	ug/L			05/10/13 01:40	1
Chloromethane	ND		0.50	0.063	ug/L			05/10/13 01:40	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/10/13 01:40	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/10/13 01:40	1
Dibromomethane	ND		0.50	0.17	ug/L			05/10/13 01:40	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/10/13 01:40	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/10/13 01:40	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/10/13 01:40	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/10/13 01:40	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/10/13 01:40	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/10/13 01:40	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/10/13 01:40	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37650-1

Client Sample ID: 5 Sharon
Date Collected: 05/03/13 12:50
Date Received: 05/04/13 06:30

Lab Sample ID: 480-37650-23
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/10/13 01:40	1
Naphthalene	ND		0.50	0.060	ug/L			05/10/13 01:40	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/10/13 01:40	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/10/13 01:40	1
o-Xylene	ND		0.50	0.044	ug/L			05/10/13 01:40	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/10/13 01:40	1
Styrene	ND		0.50	0.044	ug/L			05/10/13 01:40	1
t-Butanol	ND		10	2.5	ug/L			05/10/13 01:40	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/10/13 01:40	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/10/13 01:40	1
Toluene	ND		0.50	0.10	ug/L			05/10/13 01:40	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/10/13 01:40	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/10/13 01:40	1
Trichloroethene	ND		0.50	0.060	ug/L			05/10/13 01:40	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/10/13 01:40	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/10/13 01:40	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/10/13 01:40	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/10/13 01:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*101*		*80 - 120*		*05/10/13 01:40*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*05/10/13 01:40*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		05/08/13 08:56	05/08/13 17:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*84*		*70 - 130*	*05/08/13 08:56*	*05/08/13 17:20*	*1*

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	12DCB (80-120)	BFB (80-120)						
480-37650-1	Trip Blank	100	84						
480-37650-2	70 Candlewood	101	92						
480-37650-4	50 Deerfield	101	91						
480-37650-6	50 Candlewood	104	97						
480-37650-8	100 Candlewood	103	82						
480-37650-10	30 Starlight	101	84						
480-37650-12	Trip Blank	100	97						
480-37650-13	35 Chokeberry	101	97						
480-37650-15	5 Acorn	104	98						
480-37650-17	350 Old Orchard	100	93						
480-37650-19	200 Meetinghouse	101	97						
480-37650-21	3 Eldia	102	99						
480-37650-23	5 Sharon	101	99						
LCS 480-117534/28	Lab Control Sample	100	97						
LCS 480-117635/5	Lab Control Sample	100	84						
LCS 480-117799/5	Lab Control Sample	100	103						
MB 480-117534/5	Method Blank	102	83						
MB 480-117635/6	Method Blank	103	84						
MB 480-117799/6	Method Blank	102	99						

Surrogate Legend

12DCB = 1,2-Dichlorobenzene-d4

BFB = 4-Bromofluorobenzene (Surr)

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	14DD8 (70-130)							
480-37650-1	Trip Blank	83							
480-37650-2	70 Candlewood	93							
480-37650-4	50 Deerfield	93							
480-37650-6	50 Candlewood	92							
480-37650-8	100 Candlewood	83							
480-37650-10	30 Starlight	91							
480-37650-12	Trip Blank	95							
480-37650-13	35 Chokeberry	91							
480-37650-15	5 Acorn	98							
480-37650-17	350 Old Orchard	95							
480-37650-19	200 Meetinghouse	96							
480-37650-21	3 Eldia	84							
480-37650-23	5 Sharon	84							
LCS 200-55244/2-A	Lab Control Sample	79							
MB 200-55244/1-A	Method Blank	80							

Surrogate Legend

14DD8 = 1,4-Dioxane-d8 (Surr)

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-117534/5
Matrix: Water
Analysis Batch: 117534

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/08/13 23:16	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/08/13 23:16	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/08/13 23:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/08/13 23:16	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/08/13 23:16	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/08/13 23:16	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/08/13 23:16	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/08/13 23:16	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/08/13 23:16	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/08/13 23:16	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/08/13 23:16	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/08/13 23:16	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/08/13 23:16	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/08/13 23:16	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/08/13 23:16	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/08/13 23:16	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/08/13 23:16	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/08/13 23:16	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/08/13 23:16	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/08/13 23:16	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/08/13 23:16	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/08/13 23:16	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/08/13 23:16	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/08/13 23:16	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/08/13 23:16	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/08/13 23:16	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/08/13 23:16	1
Acetone	ND		2.5	0.54	ug/L			05/08/13 23:16	1
Benzene	ND		0.50	0.13	ug/L			05/08/13 23:16	1
Bromobenzene	ND		0.50	0.13	ug/L			05/08/13 23:16	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/08/13 23:16	1
Bromoform	ND		0.50	0.13	ug/L			05/08/13 23:16	1
Bromomethane	ND		0.50	0.051	ug/L			05/08/13 23:16	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/08/13 23:16	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/08/13 23:16	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/08/13 23:16	1
Chloroethane	ND		0.50	0.070	ug/L			05/08/13 23:16	1
Chloroform	ND		0.50	0.14	ug/L			05/08/13 23:16	1
Chloromethane	ND		0.50	0.063	ug/L			05/08/13 23:16	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/08/13 23:16	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/08/13 23:16	1
Dibromomethane	ND		0.50	0.17	ug/L			05/08/13 23:16	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/08/13 23:16	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/08/13 23:16	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/08/13 23:16	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/08/13 23:16	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/08/13 23:16	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/08/13 23:16	1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-117534/5
Matrix: Water
Analysis Batch: 117534

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		0.50	0.25	ug/L			05/08/13 23:16	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/08/13 23:16	1
Naphthalene	ND		0.50	0.060	ug/L			05/08/13 23:16	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/08/13 23:16	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/08/13 23:16	1
o-Xylene	ND		0.50	0.044	ug/L			05/08/13 23:16	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/08/13 23:16	1
Styrene	ND		0.50	0.044	ug/L			05/08/13 23:16	1
t-Butanol	ND		10	2.5	ug/L			05/08/13 23:16	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/08/13 23:16	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/08/13 23:16	1
Toluene	ND		0.50	0.10	ug/L			05/08/13 23:16	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/08/13 23:16	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/08/13 23:16	1
Trichloroethene	ND		0.50	0.060	ug/L			05/08/13 23:16	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/08/13 23:16	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/08/13 23:16	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/08/13 23:16	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/08/13 23:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*102*		*80 - 120*		*05/08/13 23:16*	*1*
4-Bromofluorobenzene (Surr)	*83*		*80 - 120*		*05/08/13 23:16*	*1*

Lab Sample ID: LCS 480-117534/28
Matrix: Water
Analysis Batch: 117534

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	4.00	4.14		ug/L		103	70 - 130
1,1,1-Trichloroethane	4.00	4.18		ug/L		105	70 - 130
1,1,2,2-Tetrachloroethane	4.00	3.29		ug/L		82	70 - 130
1,1,2-Trichloroethane	4.00	3.20		ug/L		80	70 - 130
1,1-Dichloroethane	4.00	4.01		ug/L		100	70 - 130
1,1-Dichloroethene	4.00	3.76		ug/L		94	70 - 130
1,1-Dichloropropene	4.00	4.26		ug/L		107	70 - 130
1,2,3-Trichlorobenzene	4.00	4.20		ug/L		105	70 - 130
1,2,3-Trichloropropane	4.00	3.73		ug/L		93	70 - 130
1,2,4-Trichlorobenzene	4.00	4.16		ug/L		104	70 - 130
1,2,4-Trimethylbenzene	4.00	4.18		ug/L		105	70 - 130
1,2-Dibromo-3-Chloropropane	4.00	4.20		ug/L		105	70 - 130
1,2-Dibromoethane	4.00	4.01		ug/L		100	70 - 130
1,2-Dichlorobenzene	4.00	4.10		ug/L		103	70 - 130
1,2-Dichloroethane	4.00	4.11		ug/L		103	70 - 130
1,2-Dichloropropane	4.00	3.31		ug/L		83	70 - 130
1,3,5-Trimethylbenzene	4.00	4.08		ug/L		102	70 - 130
1,3-Dichlorobenzene	4.00	4.10		ug/L		103	70 - 130
1,3-Dichloropropane	4.00	3.16		ug/L		79	70 - 130

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-117534/28
Matrix: Water
Analysis Batch: 117534

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	4.00	4.03		ug/L		101	70 - 130
2,2-Dichloropropane	4.00	4.11		ug/L		103	70 - 130
2-Butanone (MEK)	20.0	24.8		ug/L		124	70 - 130
2-Chlorotoluene	4.00	3.67		ug/L		92	70 - 130
4-Chlorotoluene	4.00	4.06		ug/L		102	70 - 130
4-Isopropyltoluene	4.00	4.27		ug/L		107	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	16.5		ug/L		83	70 - 130
Acetone	20.0	25.5		ug/L		127	70 - 130
Benzene	4.00	3.78		ug/L		94	70 - 130
Bromobenzene	4.00	3.92		ug/L		98	70 - 130
Bromochloromethane	4.00	4.23		ug/L		106	70 - 130
Bromoform	4.00	4.18		ug/L		105	70 - 130
Bromomethane	4.00	4.29		ug/L		107	70 - 130
Carbon tetrachloride	4.00	4.21		ug/L		105	70 - 130
Chlorobenzene	4.00	4.10		ug/L		102	70 - 130
Chlorodibromomethane	4.00	4.04		ug/L		101	70 - 130
Chloroethane	4.00	4.78		ug/L		119	70 - 130
Chloroform	4.00	3.94		ug/L		99	70 - 130
Chloromethane	4.00	3.07		ug/L		77	70 - 130
cis-1,2-Dichloroethene	4.00	4.62		ug/L		116	70 - 130
cis-1,3-Dichloropropene	4.00	3.05		ug/L		76	70 - 130
Dibromomethane	4.00	3.30		ug/L		82	70 - 130
Dichlorobromomethane	4.00	3.27		ug/L		82	70 - 130
Dichlorodifluoromethane	4.00	3.48		ug/L		87	70 - 130
Ethylbenzene	4.00	4.01		ug/L		100	70 - 130
Hexachlorobutadiene	4.00	4.39		ug/L		110	70 - 130
Isopropylbenzene	4.00	4.18		ug/L		104	70 - 130
Methyl tert-butyl ether	4.00	3.82		ug/L		96	70 - 130
Methylene Chloride	4.00	3.85		ug/L		96	70 - 130
Naphthalene	4.00	4.18		ug/L		105	70 - 130
n-Butylbenzene	4.00	4.32		ug/L		108	70 - 130
N-Propylbenzene	4.00	3.77		ug/L		94	70 - 130
sec-Butylbenzene	4.00	4.23		ug/L		106	70 - 130
Styrene	4.00	4.07		ug/L		102	70 - 130
tert-Butylbenzene	4.00	4.30		ug/L		107	70 - 130
Tetrachloroethene	4.00	3.88		ug/L		97	70 - 130
Toluene	4.00	3.42		ug/L		85	70 - 130
trans-1,2-Dichloroethene	4.00	3.84		ug/L		96	70 - 130
trans-1,3-Dichloropropene	4.00	3.02		ug/L		75	70 - 130
Trichloroethene	4.00	4.10		ug/L		103	70 - 130
Trichlorofluoromethane	4.00	4.71		ug/L		118	70 - 130
Vinyl chloride	4.00	5.33	*	ug/L		133	70 - 130
Xylenes, Total	12.0	12.2		ug/L		102	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichlorobenzene-d4	*100*		*80 - 120*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-117635/6
Matrix: Water
Analysis Batch: 117635

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/09/13 12:04	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/09/13 12:04	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/09/13 12:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/09/13 12:04	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/09/13 12:04	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/09/13 12:04	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/09/13 12:04	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/09/13 12:04	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/09/13 12:04	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/09/13 12:04	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/09/13 12:04	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/09/13 12:04	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/09/13 12:04	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/09/13 12:04	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/09/13 12:04	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/09/13 12:04	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/09/13 12:04	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/09/13 12:04	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/09/13 12:04	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/09/13 12:04	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/09/13 12:04	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/09/13 12:04	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/09/13 12:04	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/09/13 12:04	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/09/13 12:04	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/09/13 12:04	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/09/13 12:04	1
Acetone	ND		2.5	0.54	ug/L			05/09/13 12:04	1
Benzene	ND		0.50	0.13	ug/L			05/09/13 12:04	1
Bromobenzene	ND		0.50	0.13	ug/L			05/09/13 12:04	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/09/13 12:04	1
Bromoform	ND		0.50	0.13	ug/L			05/09/13 12:04	1
Bromomethane	ND		0.50	0.051	ug/L			05/09/13 12:04	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/09/13 12:04	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/09/13 12:04	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/09/13 12:04	1
Chloroethane	ND		0.50	0.070	ug/L			05/09/13 12:04	1
Chloroform	ND		0.50	0.14	ug/L			05/09/13 12:04	1
Chloromethane	ND		0.50	0.063	ug/L			05/09/13 12:04	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/09/13 12:04	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/09/13 12:04	1
Dibromomethane	ND		0.50	0.17	ug/L			05/09/13 12:04	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/09/13 12:04	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/09/13 12:04	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/09/13 12:04	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/09/13 12:04	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/09/13 12:04	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/09/13 12:04	1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-117635/6
Matrix: Water
Analysis Batch: 117635

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		0.50	0.25	ug/L			05/09/13 12:04	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/09/13 12:04	1
Naphthalene	ND		0.50	0.060	ug/L			05/09/13 12:04	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/09/13 12:04	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/09/13 12:04	1
o-Xylene	ND		0.50	0.044	ug/L			05/09/13 12:04	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/09/13 12:04	1
Styrene	ND		0.50	0.044	ug/L			05/09/13 12:04	1
t-Butanol	ND		10	2.5	ug/L			05/09/13 12:04	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/09/13 12:04	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/09/13 12:04	1
Toluene	ND		0.50	0.10	ug/L			05/09/13 12:04	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/09/13 12:04	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/09/13 12:04	1
Trichloroethene	ND		0.50	0.060	ug/L			05/09/13 12:04	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/09/13 12:04	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/09/13 12:04	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/09/13 12:04	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/09/13 12:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*103*		*80 - 120*		*05/09/13 12:04*	*1*
4-Bromofluorobenzene (Surr)	*84*		*80 - 120*		*05/09/13 12:04*	*1*

Lab Sample ID: LCS 480-117635/5
Matrix: Water
Analysis Batch: 117635

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	4.00	3.77		ug/L		94	70 - 130
1,1,1-Trichloroethane	4.00	3.70		ug/L		93	70 - 130
1,1,2,2-Tetrachloroethane	4.00	2.99		ug/L		75	70 - 130
1,1,2-Trichloroethane	4.00	3.41		ug/L		85	70 - 130
1,1-Dichloroethane	4.00	3.53		ug/L		88	70 - 130
1,1-Dichloroethene	4.00	3.34		ug/L		84	70 - 130
1,1-Dichloropropene	4.00	3.89		ug/L		97	70 - 130
1,2,3-Trichlorobenzene	4.00	4.46		ug/L		111	70 - 130
1,2,3-Trichloropropane	4.00	3.46		ug/L		87	70 - 130
1,2,4-Trichlorobenzene	4.00	4.39		ug/L		110	70 - 130
1,2,4-Trimethylbenzene	4.00	3.47		ug/L		87	70 - 130
1,2-Dibromo-3-Chloropropane	4.00	3.37		ug/L		84	70 - 130
1,2-Dibromoethane	4.00	3.65		ug/L		91	70 - 130
1,2-Dichlorobenzene	4.00	3.65		ug/L		91	70 - 130
1,2-Dichloroethane	4.00	4.20		ug/L		105	70 - 130
1,2-Dichloropropane	4.00	3.51		ug/L		88	70 - 130
1,3,5-Trimethylbenzene	4.00	3.44		ug/L		86	70 - 130
1,3-Dichlorobenzene	4.00	3.64		ug/L		91	70 - 130
1,3-Dichloropropane	4.00	3.52		ug/L		88	70 - 130

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-117635/5
Matrix: Water
Analysis Batch: 117635

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	4.00	3.59		ug/L		90	70 - 130
2,2-Dichloropropane	4.00	3.17		ug/L		79	70 - 130
2-Butanone (MEK)	20.0	19.5		ug/L		98	70 - 130
2-Chlorotoluene	4.00	3.36		ug/L		84	70 - 130
4-Chlorotoluene	4.00	3.32		ug/L		83	70 - 130
4-Isopropyltoluene	4.00	3.50		ug/L		87	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	18.7		ug/L		93	70 - 130
Acetone	20.0	21.7		ug/L		109	70 - 130
Benzene	4.00	3.64		ug/L		91	70 - 130
Bromobenzene	4.00	3.74		ug/L		93	70 - 130
Bromochloromethane	4.00	3.64		ug/L		91	70 - 130
Bromoform	4.00	3.52		ug/L		88	70 - 130
Bromomethane	4.00	3.56		ug/L		89	70 - 130
Carbon tetrachloride	4.00	3.82		ug/L		96	70 - 130
Chlorobenzene	4.00	3.63		ug/L		91	70 - 130
Chlorodibromomethane	4.00	3.66		ug/L		91	70 - 130
Chloroethane	4.00	4.16		ug/L		104	70 - 130
Chloroform	4.00	3.39		ug/L		85	70 - 130
Chloromethane	4.00	4.03		ug/L		101	70 - 130
cis-1,2-Dichloroethene	4.00	3.73		ug/L		93	70 - 130
cis-1,3-Dichloropropene	4.00	3.33		ug/L		83	70 - 130
Dibromomethane	4.00	3.58		ug/L		90	70 - 130
Dichlorobromomethane	4.00	3.55		ug/L		89	70 - 130
Dichlorodifluoromethane	4.00	3.81		ug/L		95	70 - 130
Ethylbenzene	4.00	3.56		ug/L		89	70 - 130
Hexachlorobutadiene	4.00	4.59		ug/L		115	70 - 130
Isopropylbenzene	4.00	3.20		ug/L		80	70 - 130
Methyl tert-butyl ether	4.00	3.38		ug/L		85	70 - 130
Methylene Chloride	4.00	3.31		ug/L		83	70 - 130
Naphthalene	4.00	4.55		ug/L		114	70 - 130
n-Butylbenzene	4.00	3.29		ug/L		82	70 - 130
N-Propylbenzene	4.00	3.26		ug/L		81	70 - 130
sec-Butylbenzene	4.00	3.41		ug/L		85	70 - 130
Styrene	4.00	3.52		ug/L		88	70 - 130
tert-Butylbenzene	4.00	3.66		ug/L		92	70 - 130
Tetrachloroethene	4.00	3.81		ug/L		95	70 - 130
Toluene	4.00	3.38		ug/L		85	70 - 130
trans-1,2-Dichloroethene	4.00	3.49		ug/L		87	70 - 130
trans-1,3-Dichloropropene	4.00	3.23		ug/L		81	70 - 130
Trichloroethene	4.00	3.71		ug/L		93	70 - 130
Trichlorofluoromethane	4.00	4.17		ug/L		104	70 - 130
Vinyl chloride	4.00	4.29		ug/L		107	70 - 130
Xylenes, Total	12.0	10.7		ug/L		89	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichlorobenzene-d4	*100*		*80 - 120*
4-Bromofluorobenzene (Surr)	*84*		*80 - 120*

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-117799/6
Matrix: Water
Analysis Batch: 117799

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/09/13 23:53	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/09/13 23:53	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/09/13 23:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/09/13 23:53	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/09/13 23:53	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/09/13 23:53	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/09/13 23:53	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/09/13 23:53	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/09/13 23:53	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/09/13 23:53	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/09/13 23:53	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/09/13 23:53	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/09/13 23:53	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/09/13 23:53	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/09/13 23:53	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/09/13 23:53	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/09/13 23:53	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/09/13 23:53	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/09/13 23:53	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/09/13 23:53	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/09/13 23:53	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/09/13 23:53	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/09/13 23:53	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/09/13 23:53	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/09/13 23:53	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/09/13 23:53	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/09/13 23:53	1
Acetone	ND		2.5	0.54	ug/L			05/09/13 23:53	1
Benzene	ND		0.50	0.13	ug/L			05/09/13 23:53	1
Bromobenzene	ND		0.50	0.13	ug/L			05/09/13 23:53	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/09/13 23:53	1
Bromoform	ND		0.50	0.13	ug/L			05/09/13 23:53	1
Bromomethane	ND		0.50	0.051	ug/L			05/09/13 23:53	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/09/13 23:53	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/09/13 23:53	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/09/13 23:53	1
Chloroethane	ND		0.50	0.070	ug/L			05/09/13 23:53	1
Chloroform	ND		0.50	0.14	ug/L			05/09/13 23:53	1
Chloromethane	ND		0.50	0.063	ug/L			05/09/13 23:53	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/09/13 23:53	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/09/13 23:53	1
Dibromomethane	ND		0.50	0.17	ug/L			05/09/13 23:53	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/09/13 23:53	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/09/13 23:53	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/09/13 23:53	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/09/13 23:53	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/09/13 23:53	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/09/13 23:53	1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-117799/6
Matrix: Water
Analysis Batch: 117799

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		0.50	0.25	ug/L			05/09/13 23:53	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/09/13 23:53	1
Naphthalene	ND		0.50	0.060	ug/L			05/09/13 23:53	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/09/13 23:53	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/09/13 23:53	1
o-Xylene	ND		0.50	0.044	ug/L			05/09/13 23:53	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/09/13 23:53	1
Styrene	ND		0.50	0.044	ug/L			05/09/13 23:53	1
t-Butanol	ND		10	2.5	ug/L			05/09/13 23:53	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/09/13 23:53	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/09/13 23:53	1
Toluene	ND		0.50	0.10	ug/L			05/09/13 23:53	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/09/13 23:53	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/09/13 23:53	1
Trichloroethene	ND		0.50	0.060	ug/L			05/09/13 23:53	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/09/13 23:53	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/09/13 23:53	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/09/13 23:53	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/09/13 23:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*102*		*80 - 120*		*05/09/13 23:53*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*05/09/13 23:53*	*1*

Lab Sample ID: LCS 480-117799/5
Matrix: Water
Analysis Batch: 117799

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	4.00	3.93		ug/L		98	70 - 130
1,1,1-Trichloroethane	4.00	4.00		ug/L		100	70 - 130
1,1,2,2-Tetrachloroethane	4.00	3.41		ug/L		85	70 - 130
1,1,2-Trichloroethane	4.00	3.65		ug/L		91	70 - 130
1,1-Dichloroethane	4.00	3.82		ug/L		96	70 - 130
1,1-Dichloroethene	4.00	3.41		ug/L		85	70 - 130
1,1-Dichloropropene	4.00	4.07		ug/L		102	70 - 130
1,2,3-Trichlorobenzene	4.00	4.10		ug/L		102	70 - 130
1,2,3-Trichloropropane	4.00	3.77		ug/L		94	70 - 130
1,2,4-Trichlorobenzene	4.00	3.84		ug/L		96	70 - 130
1,2,4-Trimethylbenzene	4.00	3.76		ug/L		94	70 - 130
1,2-Dibromo-3-Chloropropane	4.00	3.65		ug/L		91	70 - 130
1,2-Dibromoethane	4.00	3.97		ug/L		99	70 - 130
1,2-Dichlorobenzene	4.00	3.78		ug/L		95	70 - 130
1,2-Dichloroethane	4.00	4.30		ug/L		107	70 - 130
1,2-Dichloropropane	4.00	3.85		ug/L		96	70 - 130
1,3,5-Trimethylbenzene	4.00	3.79		ug/L		95	70 - 130
1,3-Dichlorobenzene	4.00	3.83		ug/L		96	70 - 130
1,3-Dichloropropane	4.00	3.74		ug/L		93	70 - 130

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-117799/5
Matrix: Water
Analysis Batch: 117799

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	4.00	3.74		ug/L		94	70 - 130
2,2-Dichloropropane	4.00	3.59		ug/L		90	70 - 130
2-Butanone (MEK)	20.0	21.5		ug/L		108	70 - 130
2-Chlorotoluene	4.00	3.67		ug/L		92	70 - 130
4-Chlorotoluene	4.00	3.69		ug/L		92	70 - 130
4-Isopropyltoluene	4.00	3.84		ug/L		96	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	20.5		ug/L		103	70 - 130
Acetone	20.0	20.9		ug/L		105	70 - 130
Benzene	4.00	3.70		ug/L		93	70 - 130
Bromobenzene	4.00	3.87		ug/L		97	70 - 130
Bromochloromethane	4.00	3.88		ug/L		97	70 - 130
Bromoform	4.00	3.89		ug/L		97	70 - 130
Bromomethane	4.00	3.59		ug/L		90	70 - 130
Carbon tetrachloride	4.00	4.01		ug/L		100	70 - 130
Chlorobenzene	4.00	3.84		ug/L		96	70 - 130
Chlorodibromomethane	4.00	3.83		ug/L		96	70 - 130
Chloroethane	4.00	4.11		ug/L		103	70 - 130
Chloroform	4.00	3.70		ug/L		92	70 - 130
Chloromethane	4.00	4.01		ug/L		100	70 - 130
cis-1,2-Dichloroethene	4.00	4.07		ug/L		102	70 - 130
cis-1,3-Dichloropropene	4.00	3.60		ug/L		90	70 - 130
Dibromomethane	4.00	3.73		ug/L		93	70 - 130
Dichlorobromomethane	4.00	3.89		ug/L		97	70 - 130
Dichlorodifluoromethane	4.00	3.96		ug/L		99	70 - 130
Ethylbenzene	4.00	3.81		ug/L		95	70 - 130
Hexachlorobutadiene	4.00	4.40		ug/L		110	70 - 130
Isopropylbenzene	4.00	3.87		ug/L		97	70 - 130
Methyl tert-butyl ether	4.00	3.51		ug/L		88	70 - 130
Methylene Chloride	4.00	3.47		ug/L		87	70 - 130
Naphthalene	4.00	3.81		ug/L		95	70 - 130
n-Butylbenzene	4.00	3.72		ug/L		93	70 - 130
N-Propylbenzene	4.00	3.71		ug/L		93	70 - 130
sec-Butylbenzene	4.00	3.85		ug/L		96	70 - 130
Styrene	4.00	3.87		ug/L		97	70 - 130
tert-Butylbenzene	4.00	4.02		ug/L		100	70 - 130
Tetrachloroethene	4.00	4.08		ug/L		102	70 - 130
Toluene	4.00	3.79		ug/L		95	70 - 130
trans-1,2-Dichloroethene	4.00	3.58		ug/L		90	70 - 130
trans-1,3-Dichloropropene	4.00	3.47		ug/L		87	70 - 130
Trichloroethene	4.00	3.93		ug/L		98	70 - 130
Trichlorofluoromethane	4.00	4.35		ug/L		109	70 - 130
Vinyl chloride	4.00	4.59		ug/L		115	70 - 130
Xylenes, Total	12.0	11.5		ug/L		96	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichlorobenzene-d4	*100*		*80 - 120*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Lab Sample ID: MB 200-55244/1-A
Matrix: Water
Analysis Batch: 55256

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 55244

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		05/08/13 08:56	05/08/13 13:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*80*		*70 - 130*	*05/08/13 08:56*	*05/08/13 13:15*	*1*

Lab Sample ID: LCS 200-55244/2-A
Matrix: Water
Analysis Batch: 55256

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 55244

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane			8.00	6.48		ug/L		81	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,4-Dioxane-d8 (Surr)	*79*		*70 - 130*

GC/MS VOA

Analysis Batch: 117534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-37650-1	Trip Blank	Total/NA	Water	524.2	
480-37650-2	70 Candlewood	Total/NA	Water	524.2	
480-37650-4	50 Deerfield	Total/NA	Water	524.2	
LCS 480-117534/28	Lab Control Sample	Total/NA	Water	524.2	
MB 480-117534/5	Method Blank	Total/NA	Water	524.2	

Analysis Batch: 117635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-37650-6	50 Candlewood	Total/NA	Water	524.2	
480-37650-8	100 Candlewood	Total/NA	Water	524.2	
480-37650-10	30 Starlight	Total/NA	Water	524.2	
480-37650-12	Trip Blank	Total/NA	Water	524.2	
480-37650-13	35 Chokeberry	Total/NA	Water	524.2	
480-37650-15	5 Acorn	Total/NA	Water	524.2	
480-37650-17	350 Old Orchard	Total/NA	Water	524.2	
480-37650-19	200 Meetinghouse	Total/NA	Water	524.2	
LCS 480-117635/5	Lab Control Sample	Total/NA	Water	524.2	
MB 480-117635/6	Method Blank	Total/NA	Water	524.2	

Analysis Batch: 117799

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-37650-21	3 Eldia	Total/NA	Water	524.2	
480-37650-23	5 Sharon	Total/NA	Water	524.2	
LCS 480-117799/5	Lab Control Sample	Total/NA	Water	524.2	
MB 480-117799/6	Method Blank	Total/NA	Water	524.2	

GC/MS Semi VOA

Prep Batch: 55244

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-37650-1	Trip Blank	Total/NA	Water	3535A	
480-37650-2	70 Candlewood	Total/NA	Water	3535A	
480-37650-4	50 Deerfield	Total/NA	Water	3535A	
480-37650-6	50 Candlewood	Total/NA	Water	3535A	
480-37650-8	100 Candlewood	Total/NA	Water	3535A	
480-37650-10	30 Starlight	Total/NA	Water	3535A	
480-37650-12	Trip Blank	Total/NA	Water	3535A	
480-37650-13	35 Chokeberry	Total/NA	Water	3535A	
480-37650-15	5 Acorn	Total/NA	Water	3535A	
480-37650-17	350 Old Orchard	Total/NA	Water	3535A	
480-37650-19	200 Meetinghouse	Total/NA	Water	3535A	
480-37650-21	3 Eldia	Total/NA	Water	3535A	
480-37650-23	5 Sharon	Total/NA	Water	3535A	
LCS 200-55244/2-A	Lab Control Sample	Total/NA	Water	3535A	
MB 200-55244/1-A	Method Blank	Total/NA	Water	3535A	

Analysis Batch: 55256

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-37650-1	Trip Blank	Total/NA	Water	522 MOD	55244
480-37650-2	70 Candlewood	Total/NA	Water	522 MOD	55244

GC/MS Semi VOA (Continued)

Analysis Batch: 55256 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-37650-4	50 Deerfield	Total/NA	Water	522 MOD	55244
480-37650-6	50 Candlewood	Total/NA	Water	522 MOD	55244
480-37650-8	100 Candlewood	Total/NA	Water	522 MOD	55244
480-37650-10	30 Starlight	Total/NA	Water	522 MOD	55244
480-37650-12	Trip Blank	Total/NA	Water	522 MOD	55244
480-37650-13	35 Chokeberry	Total/NA	Water	522 MOD	55244
480-37650-15	5 Acorn	Total/NA	Water	522 MOD	55244
480-37650-17	350 Old Orchard	Total/NA	Water	522 MOD	55244
480-37650-19	200 Meetinghouse	Total/NA	Water	522 MOD	55244
480-37650-21	3 Eldia	Total/NA	Water	522 MOD	55244
480-37650-23	5 Sharon	Total/NA	Water	522 MOD	55244
LCS 200-55244/2-A	Lab Control Sample	Total/NA	Water	522 MOD	55244
MB 200-55244/1-A	Method Blank	Total/NA	Water	522 MOD	55244

Lab Chronicle

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37650-1

Client Sample ID: Trip Blank

Lab Sample ID: 480-37650-1

Date Collected: 05/03/13 00:00

Matrix: Water

Date Received: 05/04/13 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	117534	05/09/13 07:34	TRB	TAL BUF
Total/NA	Prep	3535A			55244	05/08/13 08:56	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55256	05/08/13 13:48	RJH	TAL BUR

Client Sample ID: 70 Candlewood

Lab Sample ID: 480-37650-2

Date Collected: 05/03/13 09:15

Matrix: Water

Date Received: 05/04/13 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	117534	05/09/13 07:58	TRB	TAL BUF
Total/NA	Prep	3535A			55244	05/08/13 08:56	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55256	05/08/13 14:04	RJH	TAL BUR

Client Sample ID: 50 Deerfield

Lab Sample ID: 480-37650-4

Date Collected: 05/03/13 10:10

Matrix: Water

Date Received: 05/04/13 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	117534	05/09/13 08:47	TRB	TAL BUF
Total/NA	Prep	3535A			55244	05/08/13 08:56	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55256	05/08/13 14:21	RJH	TAL BUR

Client Sample ID: 50 Candlewood

Lab Sample ID: 480-37650-6

Date Collected: 05/03/13 11:10

Matrix: Water

Date Received: 05/04/13 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	117635	05/09/13 14:58	CDC	TAL BUF
Total/NA	Prep	3535A			55244	05/08/13 08:56	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55256	05/08/13 14:37	RJH	TAL BUR

Client Sample ID: 100 Candlewood

Lab Sample ID: 480-37650-8

Date Collected: 05/03/13 12:10

Matrix: Water

Date Received: 05/04/13 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	117635	05/09/13 15:47	CDC	TAL BUF
Total/NA	Prep	3535A			55244	05/08/13 08:56	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55256	05/08/13 14:53	RJH	TAL BUR

Lab Chronicle

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37650-1

Client Sample ID: 30 Starlight

Lab Sample ID: 480-37650-10

Date Collected: 05/03/13 12:45

Matrix: Water

Date Received: 05/04/13 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	117635	05/09/13 16:36	CDC	TAL BUF
Total/NA	Prep	3535A			55244	05/08/13 08:56	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55256	05/08/13 15:10	RJH	TAL BUR

Client Sample ID: Trip Blank

Lab Sample ID: 480-37650-12

Date Collected: 05/03/13 00:00

Matrix: Water

Date Received: 05/04/13 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	117635	05/09/13 17:25	CDC	TAL BUF
Total/NA	Prep	3535A			55244	05/08/13 08:56	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55256	05/08/13 15:26	RJH	TAL BUR

Client Sample ID: 35 Chokeberry

Lab Sample ID: 480-37650-13

Date Collected: 05/03/13 09:15

Matrix: Water

Date Received: 05/04/13 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	117635	05/09/13 17:49	CDC	TAL BUF
Total/NA	Prep	3535A			55244	05/08/13 08:56	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55256	05/08/13 15:42	RJH	TAL BUR

Client Sample ID: 5 Acorn

Lab Sample ID: 480-37650-15

Date Collected: 05/03/13 10:15

Matrix: Water

Date Received: 05/04/13 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	117635	05/09/13 18:39	CDC	TAL BUF
Total/NA	Prep	3535A			55244	05/08/13 08:56	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55256	05/08/13 16:15	RJH	TAL BUR

Client Sample ID: 350 Old Orchard

Lab Sample ID: 480-37650-17

Date Collected: 05/03/13 11:20

Matrix: Water

Date Received: 05/04/13 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	117635	05/09/13 19:28	CDC	TAL BUF
Total/NA	Prep	3535A			55244	05/08/13 08:56	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55256	05/08/13 16:31	RJH	TAL BUR

Lab Chronicle

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37650-1

Client Sample ID: 200 Meetinghouse

Lab Sample ID: 480-37650-19

Date Collected: 05/03/13 17:00
Matrix: Water
Date Received: 05/04/13 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	117635	05/09/13 20:17	CDC	TAL BUF
Total/NA	Prep	3535A			55244	05/08/13 08:56	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55256	05/08/13 16:48	RJH	TAL BUR

Client Sample ID: 3 Eldia

Lab Sample ID: 480-37650-21

Date Collected: 05/03/13 12:00
Matrix: Water
Date Received: 05/04/13 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	117799	05/10/13 00:51	TRB	TAL BUF
Total/NA	Prep	3535A			55244	05/08/13 08:56	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55256	05/08/13 17:04	RJH	TAL BUR

Client Sample ID: 5 Sharon

Lab Sample ID: 480-37650-23

Date Collected: 05/03/13 12:50
Matrix: Water
Date Received: 05/04/13 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	117799	05/10/13 01:40	TRB	TAL BUF
Total/NA	Prep	3535A			55244	05/08/13 08:56	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55256	05/08/13 17:20	RJH	TAL BUR

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Certification Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37650-1

Laboratory: TestAmerica Buffalo

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-13
California	NELAP	9	1169CA	09-30-13
Connecticut	State Program	1	PH-0568	09-30-14
Florida	NELAP	4	E87672	06-30-13
Georgia	State Program	4	N/A	03-31-14
Georgia	State Program	4	956	06-30-13
Georgia	State Program	4	956	03-31-14
Illinois	NELAP	5	200003	09-30-13
Iowa	State Program	7	374	03-15-15
Kansas	NELAP	7	E-10187	01-31-14
Kentucky	State Program	4	90029	12-31-13
Kentucky (UST)	State Program	4	30	04-01-14
Louisiana	NELAP	6	02031	06-30-13
Maine	State Program	1	NY00044	12-04-13
Maryland	State Program	3	294	03-31-14
Massachusetts	State Program	1	M-NY044	06-30-13
Michigan	State Program	5	9937	04-01-13 *
Minnesota	NELAP	5	036-999-337	12-31-13
New Hampshire	NELAP	1	2973	09-11-13
New Hampshire	NELAP	1	2337	11-17-13
New Jersey	NELAP	2	NY455	06-30-13
New York	NELAP	2	10026	04-01-14
North Dakota	State Program	8	R-176	03-31-14
Oklahoma	State Program	6	9421	08-31-13
Oregon	NELAP	10	NY200003	06-09-13
Pennsylvania	NELAP	3	68-00281	07-31-13
Rhode Island	State Program	1	LAO00328	12-31-13
Tennessee	State Program	4	TN02970	04-01-14
Texas	NELAP	6	T104704412-11-2	07-31-13
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAP	3	460185	09-14-13
Washington	State Program	10	C784	02-10-14
West Virginia DEP	State Program	3	252	09-30-13
Wisconsin	State Program	5	998310390	08-31-13

Laboratory: TestAmerica Burlington

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Connecticut	State Program	1	PH-0751	09-30-13
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-13-15
Florida	NELAP	4	E87467	06-30-13
L-A-B	DoD ELAP		L2336	10-26-13
Louisiana	NELAP	6	176292	06-30-13
Maine	State Program	1	VT00008	04-17-13 *
Minnesota	NELAP	5	050-999-436	12-31-13
New Hampshire	NELAP	1	2006	12-18-13
New Jersey	NELAP	2	VT972	06-30-13
New York	NELAP	2	10391	04-01-14
Pennsylvania	NELAP	3	68-00489	04-30-14

* Expired certification is currently pending renewal and is considered valid.

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37650-1

Laboratory: TestAmerica Burlington (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
USDA	Federal		P330-11-00093	02-17-14
Vermont	State Program	1	VT-4000	12-31-13
Virginia	NELAP	3	460209	12-14-13

Method Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37650-1

Method	Method Description	Protocol	Laboratory
524.2	Volatile Organic Compounds (GC/MS)	EPA-DW	TAL BUF
522 MOD	1,4 Dioxane (GC/MS SIM)	EPA	TAL BUR

Protocol References:

EPA = US Environmental Protection Agency

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37650-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-37650-1	Trip Blank	Water	05/03/13 00:00	05/04/13 06:30
480-37650-2	70 Candlewood	Water	05/03/13 09:15	05/04/13 06:30
480-37650-4	50 Deerfield	Water	05/03/13 10:10	05/04/13 06:30
480-37650-6	50 Candlewood	Water	05/03/13 11:10	05/04/13 06:30
480-37650-8	100 Candlewood	Water	05/03/13 12:10	05/04/13 06:30
480-37650-10	30 Starlight	Water	05/03/13 12:45	05/04/13 06:30
480-37650-12	Trip Blank	Water	05/03/13 00:00	05/04/13 06:30
480-37650-13	35 Chokeberry	Water	05/03/13 09:15	05/04/13 06:30
480-37650-15	5 Acorn	Water	05/03/13 10:15	05/04/13 06:30
480-37650-17	350 Old Orchard	Water	05/03/13 11:20	05/04/13 06:30
480-37650-19	200 Meetinghouse	Water	05/03/13 17:00	05/04/13 06:30
480-37650-21	3 Eldia	Water	05/03/13 12:00	05/04/13 06:30
480-37650-23	5 Sharon	Water	05/03/13 12:50	05/04/13 06:30

TestAmerica Westfield
53 Southampton Road

Westfield, MA 01085
phone 413.572.4000 fax 413.572.3707

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other MA MCP

Client Contact	Project Manager: David Bennett	Site Contact:	Date:	COC No:
Bennett Environmental Associates, Inc.	Tel/Fax: 508-896-1706	Lab Contact:	Carrier:	1 of 3 COCs
Address P.O. Box 1743	Analysis Turnaround Time			For Lab Use Only:
City/State/Zip Brewster, MA 02631	Calendar (C) or Work Days (W) C			Walk-in Client:
(508) 896-1706 Phone	TAT if different from Below			Lab Sampling:
(508) 896-5109 FAX	☑ 2 weeks			
Project Name: Eastham Landfill	☐ 1 week			Job / SDG No.: BEA11-10104
Site: Residential Well Sampling	☐ 2 days			
P O # BEA11-10104	☐ 1 day			Sampler: Jerry Keefe

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample (Y/N)	Composite = C / Grab = G	1,4-Dioxane via 522.1 Mod	VOCs via 524.2	Sample Specific Notes:
Trip Blank									HA	Trip Blank - VOC + 1,4 Dioxane
70 Candlewood	05/3/13	0915	G	W		N	G	2	3	
70 Candlewood Dup	05/3/13	0915	G	W				1	3	Field Dup
50 Deerfield	05/3/13	~~0955~~ 1010	G	W				2	3	
50 Deerfield Dup	05/3/13	~~0955~~ 1010	G	W				1	3	Field Dup
50 Candlewood	05/3/13	1110	G	W				2	3	
50 Candlewood Dup	05/3/13	1110	G	W				1	3	Field Dup
100 Candlewood	05/3/13	1210	G	W				2	3	
100 Candlewood Dup	05/3/13	1210	G	W				1	3	Field Dup
30 Starlight	05/3/13	1245	G	W				2	3	
~~30~~ 30 Starlight Dup	05/3/13	1245	G	W				1	3	Field Dup
								A	A	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee ☐ Return to Client **than 1 month)**
nths

480-37650 Chain of Custody

Special Instructions/QC Requirements & Comments: Please e-mail results to dbennett@bennett-ea.com

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	USEPA	5/3/13 1320		USFAA	5/3/13 1320
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	USFAA	5/3/13 1400		TA	5-3-13 1400
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:
	TAL	5-3-13 1700		TA Rutland	5.4.13 0830

Form No. CA-C-WI-002, Rev. 4, dated 10/25/2012

4,2,3,1,29 #1

TestAmerica Westfield
53 Southampton Road

Westfield, MA 01085
phone 413.572.4000 fax 413.572.3707

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other MA MCP

Client Contact	Project Manager: David Bennett	Site Contact:	Date: 5/3/2013	COC No:
Bennett Environmental Associates, Inc. Town of Eastham	Tel/Fax: 508-896-1706	Lab Contact:	Carrier:	2 of 3 COCs
Address P.O. Box 1743	Analysis Turnaround Time			For Lab Use Only:
City/State/Zip Brewster, MA 02631	Calendar (C) or Work Days (W) C			Walk-in Client:
(508) 896-1706 Phone	TAT if different from Below			Lab Sampling:
(508) 896-5109 FAX	☑ 2 weeks			
Project Name: Eastham Landfill	☐ 1 week			Job / SDG No.: BEA11-10104
Site: Residential Well Sampling	☐ 2 days			Cliff Cowgill
P O # BEA11-10104	☐ 1 day			Sampler: Dave Bennett

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample (Y / N)	Composite = C / Grab = G	1,4-Dioxane via 522.1 Mod	VOCs via 524.2	Sample Specific Notes:
Trip Blank	5/3/13	—	G	W	4	N	G	X	X	Trip Blank
35 Chokeberry	5/3/13	0915	G	W	5	N	G	X	X	
35 Chokeberry dup	5/3/13	0915	G	W	4	N	G	X	X	Field duplicate sample
5 Acorn	5/3/13	1015	G	W	5	N	G	X	X	
5 Acorn dup	5/3/13	1015	G	W	4	N	G	X	X	Field duplicate sample
350 Old Orchard	5/3/13	1120	G	W	5	N	G	X	X	
350 Old Orchard dup	5/3/13	1120	G	W	4	N	G	X	X	Field duplicate sample
200 Meetinghouse	5/2/13	1700	G	W	5	N	G	X	X	
200 Meetinghouse dup	5/2/13	1700	G	W	4	N	G	X	X	Field duplicate sample
3 Eldia	5/3/13	1200	G	W	5	N	G	X	X	
3 Eldia dup	5/3/13	1200	G	W	4	N	G	X	X	Field duplicate sample
5 Sharon	5/3/13	1250	G	W	5	N	G	X	X	
								Y2	Y2	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments: Please e-mail results to dbennett@bennett-ea.com

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	USEPA	5/3/13 1320			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	US EPA	5/3/13 1400		TA	5-3-13 1400
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:
	TAL	5-3-13 1700		TA Dusk	5-4-13 0830

Form No. CA-C-WI-002, Rev. 4, dated 10/25/2012

4.2, 3.1, 3.9 ff1

TestAmerica Westfield
53 Southampton Road

Westfield, MA 01085
phone 413.572.4000 fax 413.572.3707

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other MA MCP

Client Contact	Project Manager: David Bennett	Site Contact:	Date: 5/13/13	COC No:
Bennett Environmental Associates, Inc. / Town of Eastham	Tel/Fax: 508-896-1706	Lab Contact:	Carrier:	2 of 3 COCs
Address P.O. Box 1743	**Analysis Turnaround Time**			**For Lab Use Only:**
City/State/Zip Brewster, MA 02631	Calendar (C) or Work Days (W) C			Walk-in Client:
(508) 896-1706 Phone	TAT if different from Below			Lab Sampling:
(508) 896-5109 FAX	☑ 2 weeks			
Project Name: Eastham Landfill	☐ 1 week			Job / SDG No.: BEA11-10104
Site: Residential Well Sampling	☐ 2 days			
P O # BEA11-10104	☐ 1 day			Sampler:

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample (Y / N)	Composite = C / Grab = G	1,4-Dioxane via 522.1 Mod	VOCs via 524.2	Sample Specific Notes:
S Sharon dup	5/13/13	1250	G	W	4	N	G	X	X	Field duplicate Sample
								½	½	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments: Please e-mail results to dbennett@bennett-ea.com

	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	USGS	5/13/13/1400		TA	5-13-13 1400
Relinquished by:	TA	5-13-13 1700	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA Rich	Date/Time: 5-14-13 0630

Form No. CA-C-WI-002, Rev. 4, dated 10/25/2012

4.2 3.1, 2.9 # 1

5/14/2013

Login Sample Receipt Checklist

Client: Bennett Environmental Associates, Inc.

Job Number: 480-37650-1

Login Number: 37650

List Source: TestAmerica Buffalo

List Number: 1

Creator: Wienke, Robert

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	USEPA
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	True	Lab to check

Login Sample Receipt Checklist

Client: Bennett Environmental Associates, Inc.

Job Number: 480-37650-1

Login Number: 37650
List Number: 1
Creator: Marion, Greg T

List Source: TestAmerica Burlington
List Creation: 05/07/13 01:26 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	N/A	709075, 076
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.4,2.8ºC IR GUN ID 181/CF=0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

						Sample ID	Trip Blank	70 Candlewood	50 Deerfield	50 Candlewood	100 Candlewood	30 Starlight	Trip Blank	35 Chokeberry	5 Acorn	350 Old Orchard	200 Meetinghouse	3 Eldia	5 Sharon
						Sampled By													
						Sample Collection Date	05/03/2013 00:00	05/03/2013 09:15	05/03/2013 10:10	05/03/2013 11:10	05/03/2013 12:10	05/03/2013 12:45	05/03/2013 00:00	05/03/2013 09:15	05/03/2013 10:15	05/03/2013 11:20	05/03/2013 17:00	05/03/2013 12:00	05/03/2013 12:50
						Laboratory Order Number	480-37650-1	480-37650-2	480-37650-4	480-37650-6	480-37650-8	480-37650-10	480-37650-12	480-37650-13	480-37650-15	480-37650-17	480-37650-19	480-37650-21	480-37650-23
Parameter	**Reporting Units**	**GW1**	**GW2**	**RCGW1**	**RCGW2**	**DW MMCL**													
Volatiles by 524.2																			
1,1,1,2-Tetrachloroethane	ug/l	5	10	5	10	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1,1-Trichloroethane	ug/l	200	4000	200	4000	200	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.13J	< 0.50	< 0.50	< 0.50	< 0.50
1,1,2,2-Tetrachloroethane	ug/l	2	9	2	9	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1,2-Trichloroethane	ug/l	5	900	5	900	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1-Dichloroethane	ug/l	70	1000	70	1000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1-Dichloroethene	ug/l	7	80	7	80	7	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1-Dichloropropene	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2,3-Trichlorobenzene	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2,3-Trichloropropane	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2,4-Trichlorobenzene	ug/l	70	2000	70	2000	70	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2,4-Trimethylbenzene	ug/l	NA	NA	10000	100000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dibromo-3-Chloropropane	ug/l	NA	NA	100	1000	0.2	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**
1,2-Dibromoethane	ug/l	0.02	2	0.02	2	0.02	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**
1,2-Dichlorobenzene	ug/l	600	2000	600	2000	600	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichloroethane	ug/l	5	5	5	5	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichloropropane	ug/l	5	3	3	3	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,3,5-Trimethylbenzene	ug/l	NA	NA	100	1000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,3-Dichlorobenzene	ug/l	40	2000	40	2000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,3-Dichloropropane	ug/l	NA	NA	5000	50000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,4-Dichlorobenzene	ug/l	5	200	5	200	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,2-Dichloropropane	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Butanone (MEK)	ug/l	4000	50000	4000	50000	NA	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
2-Chlorotoluene	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Chlorotoluene	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Isopropyltoluene	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Methyl-2-pentanone (MIBK)	ug/l	350	50000	350	50000	NA	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
Acetone	ug/l	6300	50000	6300	50000	NA	1.8J	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
Benzene	ug/l	5	2000	5	2000	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromobenzene	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromochloromethane	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromoform	ug/l	4	700	4	700	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromomethane	ug/l	10	7	7	7	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Carbon tetrachloride	ug/l	5	2	2	2	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chlorobenzene	ug/l	100	200	100	200	100	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chlorodibromomethane	ug/l	2	20	2	20	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chloroethane	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chloroform	ug/l	70	50	50	50	NA	< 0.50	0.47J	< 0.50	0.36J	0.39J	0.59	< 0.50	< 0.50	0.68	0.62	0.16J	< 0.50	0.17J
Chloromethane	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
cis-1,2-Dichloroethene	ug/l	70	100	70	100	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
cis-1,3-Dichloropropene	ug/l	NA	NA	0.5	5	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dibromomethane	ug/l	NA	NA	5000	50000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dichlorobromomethane	ug/l	3	6	3	6	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dichlorodifluoromethane	ug/l	NA	NA	10000	100000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Ethylbenzene	ug/l	700	20000	700	5000	700	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachlorobutadiene	ug/l	0.6	1	0.6	1	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Isopropylbenzene	ug/l	NA	NA	10000	100000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Methyl tert-butyl ether	ug/l	70	50000	70	5000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Methylene Chloride	ug/l	5	10000	5	10000	5	0.67	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.45J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
m-Xylene & p-Xylene	ug/l	10000	9000	5000	5000	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene	ug/l	140	1000	140	1000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
n-Butylbenzene	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
N-Propylbenzene	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
o-Xylene	ug/l	10000	9000	5000	5000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Styrene	ug/l	100	100	100	100	100	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
t-Butanol	ug/l	NA	NA	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
tert-Butylbenzene	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Tetrachloroethene	ug/l	5	50	5	50	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Toluene	ug/l	1000	50000	1000	40000	1000	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
trans-1,2-Dichloroethene	ug/l	100	90	90	90	100	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
trans-1,3-Dichloropropene	ug/l	NA	NA	0.5	5	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Trichloroethene	ug/l	5	30	5	30	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Trichlorofluoromethane	ug/l	NA	NA	10000	100000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Trihalomethanes, Total	ug/l	NA	NA	NA	NA	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Vinyl chloride	ug/l	2	2	2	2	2	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Xylenes, Total	ug/l	10000	9000	5000	5000	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Semivolatiles by 522 MOD																			
1,4-Dioxane	ug/l	3	6000	3	6000	NA	< 0.20	0.073J	< 0.20	0.092J	< 0.20	0.21	< 0.20	0.050J	0.042J	< 0.20	0.093J	< 0.20	< 0.20

Notes:
ug/l - micrograms/liter
* - LCS or LCSD exceeds the control limits
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
GW1 - Concentrations based on the use of groundwater as drinking water, either currently or in the foreseeable future.
GW2 - Concentrations based on the potential for volatile material to migrate into indoor air.
GW3 - Concentrations based on the potential environmental effects resulting from contaminated groundwater discharging to surface water.
RC - Risk Characterization approach, Standards may be supplemented or modified with site- and chemical-specific information.
UCL - Upper Concentration Limits in groundwater and soil are promulgated to minimize potential risks associated with uncontrolled environmental contamination, and the costs associated with cumulative anthropogenic contributions to background.

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THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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TestAmerica Job ID: 480-37809-1
Client Project/Site: Eastham Landfill IRA

For:
Bennett Environmental Associates, Inc.
1573 Main St.
Brewster, Massachusetts 02631

Attn: David Bennett

Authorized for release by:
5/14/2013 12:51:52 PM

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Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37809-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-37809-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-37809-1

Receipt
The samples were received on 5/8/2013 3:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 5.5º C.

GC/MS VOA
No analytical or quality issues were noted.

GC/MS Semi VOA
No analytical or quality issues were noted.

Detection Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37809-1

Client Sample ID: 25 Old Orchard Road — Lab Sample ID: 480-37809-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.10	J	0.50	0.10	ug/L	1		524.2	Total/NA
1,4-Dioxane	0.064	J	0.20	0.041	ug/L	1		522 MOD	Total/NA

Client Sample ID: 455 Schoolhouse Road — Lab Sample ID: 480-37809-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.22	J	0.50	0.14	ug/L	1		524.2	Total/NA

Client Sample ID: 50 Cestaro Way — Lab Sample ID: 480-37809-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.63		0.50	0.14	ug/L	1		524.2	Total/NA
1,4-Dioxane	0.077	J	0.20	0.041	ug/L	1		522 MOD	Total/NA

Client Sample ID: 210 Schoolhouse Road — Lab Sample ID: 480-37809-7

No Detections.

Client Sample ID: 60 Deerfield Lane — Lab Sample ID: 480-37809-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.45	J	0.50	0.14	ug/L	1		524.2	Total/NA

Client Sample ID: 280 Candlewood Drive — Lab Sample ID: 480-37809-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.74		0.50	0.14	ug/L	1		524.2	Total/NA

Client Sample ID: 17 Eldia Way — Lab Sample ID: 480-37809-13

No Detections.

Client Sample ID: 75 Cestaro Way — Lab Sample ID: 480-37809-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.68		0.50	0.14	ug/L	1		524.2	Total/NA

Client Sample ID: 65 Deerfield Lane — Lab Sample ID: 480-37809-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	1.3		0.50	0.14	ug/L	1		524.2	Total/NA
Trihalomethanes, Total	1.3	J	2.0	1.0	ug/L	1		524.2	Total/NA

Client Sample ID: 255 Alston Avenue — Lab Sample ID: 480-37809-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	1.8		0.20	0.041	ug/L	1		522 MOD	Total/NA

Client Sample ID: Trip Blank (Lot number 050113) — Lab Sample ID: 480-37809-21

This Detection Summary does not include radiochemical test results.

Client Sample ID: Trip Blank (Lot number 050113) (Continued)

Lab Sample ID: 480-37809-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.43	J	0.50	0.25	ug/L	1		524.2	Total/NA

Client Sample ID: Trip Blank (Lot number 050213)

Lab Sample ID: 480-37809-22

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37809-1

Client Sample ID: 25 Old Orchard Road
Date Collected: 05/06/13 09:45
Date Received: 05/08/13 02:00

Lab Sample ID: 480-37809-1
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/10/13 03:43	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/10/13 03:43	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/10/13 03:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/10/13 03:43	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/10/13 03:43	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/10/13 03:43	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/10/13 03:43	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/10/13 03:43	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/10/13 03:43	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/10/13 03:43	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/10/13 03:43	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/10/13 03:43	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/10/13 03:43	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/10/13 03:43	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/10/13 03:43	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/10/13 03:43	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/10/13 03:43	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/10/13 03:43	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/10/13 03:43	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/10/13 03:43	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/10/13 03:43	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/10/13 03:43	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/10/13 03:43	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/10/13 03:43	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/10/13 03:43	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/10/13 03:43	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/10/13 03:43	1
Acetone	ND		2.5	0.54	ug/L			05/10/13 03:43	1
Benzene	ND		0.50	0.13	ug/L			05/10/13 03:43	1
Bromobenzene	ND		0.50	0.13	ug/L			05/10/13 03:43	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/10/13 03:43	1
Bromoform	ND		0.50	0.13	ug/L			05/10/13 03:43	1
Bromomethane	ND		0.50	0.051	ug/L			05/10/13 03:43	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/10/13 03:43	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/10/13 03:43	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/10/13 03:43	1
Chloroethane	ND		0.50	0.070	ug/L			05/10/13 03:43	1
Chloroform	ND		0.50	0.14	ug/L			05/10/13 03:43	1
Chloromethane	ND		0.50	0.063	ug/L			05/10/13 03:43	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/10/13 03:43	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/10/13 03:43	1
Dibromomethane	ND		0.50	0.17	ug/L			05/10/13 03:43	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/10/13 03:43	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/10/13 03:43	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/10/13 03:43	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/10/13 03:43	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/10/13 03:43	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/10/13 03:43	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/10/13 03:43	1

Client Sample ID: 25 Old Orchard Road

Lab Sample ID: 480-37809-1

Date Collected: 05/06/13 09:45

Matrix: Water

Date Received: 05/08/13 02:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/10/13 03:43	1
Naphthalene	ND		0.50	0.060	ug/L			05/10/13 03:43	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/10/13 03:43	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/10/13 03:43	1
o-Xylene	ND		0.50	0.044	ug/L			05/10/13 03:43	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/10/13 03:43	1
Styrene	ND		0.50	0.044	ug/L			05/10/13 03:43	1
t-Butanol	ND		10	2.5	ug/L			05/10/13 03:43	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/10/13 03:43	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/10/13 03:43	1
Toluene	**0.10**	**J**	0.50	0.10	ug/L			05/10/13 03:43	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/10/13 03:43	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/10/13 03:43	1
Trichloroethene	ND		0.50	0.060	ug/L			05/10/13 03:43	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/10/13 03:43	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/10/13 03:43	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/10/13 03:43	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/10/13 03:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*104*		*80 - 120*		*05/10/13 03:43*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*05/10/13 03:43*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**0.064**	**J**	0.20	0.041	ug/L		05/09/13 09:28	05/09/13 14:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*94*		*70 - 130*	*05/09/13 09:28*	*05/09/13 14:04*	*1*

Client Sample ID: 455 Schoolhouse Road

Lab Sample ID: 480-37809-3

Date Collected: 05/06/13 10:40

Matrix: Water

Date Received: 05/08/13 02:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/10/13 04:32	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/10/13 04:32	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/10/13 04:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/10/13 04:32	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/10/13 04:32	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/10/13 04:32	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/10/13 04:32	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/10/13 04:32	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/10/13 04:32	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/10/13 04:32	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/10/13 04:32	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/10/13 04:32	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/10/13 04:32	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/10/13 04:32	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37809-1

Client Sample ID: 455 Schoolhouse Road
Date Collected: 05/06/13 10:40
Date Received: 05/08/13 02:00

Lab Sample ID: 480-37809-3
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/10/13 04:32	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/10/13 04:32	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/10/13 04:32	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/10/13 04:32	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/10/13 04:32	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/10/13 04:32	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/10/13 04:32	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/10/13 04:32	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/10/13 04:32	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/10/13 04:32	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/10/13 04:32	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/10/13 04:32	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/10/13 04:32	1
Acetone	ND		2.5	0.54	ug/L			05/10/13 04:32	1
Benzene	ND		0.50	0.13	ug/L			05/10/13 04:32	1
Bromobenzene	ND		0.50	0.13	ug/L			05/10/13 04:32	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/10/13 04:32	1
Bromoform	ND		0.50	0.13	ug/L			05/10/13 04:32	1
Bromomethane	ND		0.50	0.051	ug/L			05/10/13 04:32	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/10/13 04:32	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/10/13 04:32	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/10/13 04:32	1
Chloroethane	ND		0.50	0.070	ug/L			05/10/13 04:32	1
Chloroform	**0.22**	**J**	0.50	0.14	ug/L			05/10/13 04:32	1
Chloromethane	ND		0.50	0.063	ug/L			05/10/13 04:32	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/10/13 04:32	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/10/13 04:32	1
Dibromomethane	ND		0.50	0.17	ug/L			05/10/13 04:32	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/10/13 04:32	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/10/13 04:32	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/10/13 04:32	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/10/13 04:32	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/10/13 04:32	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/10/13 04:32	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/10/13 04:32	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/10/13 04:32	1
Naphthalene	ND		0.50	0.060	ug/L			05/10/13 04:32	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/10/13 04:32	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/10/13 04:32	1
o-Xylene	ND		0.50	0.044	ug/L			05/10/13 04:32	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/10/13 04:32	1
Styrene	ND		0.50	0.044	ug/L			05/10/13 04:32	1
t-Butanol	ND		10	2.5	ug/L			05/10/13 04:32	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/10/13 04:32	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/10/13 04:32	1
Toluene	ND		0.50	0.10	ug/L			05/10/13 04:32	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/10/13 04:32	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/10/13 04:32	1
Trichloroethene	ND		0.50	0.060	ug/L			05/10/13 04:32	1

Client Sample ID: 455 Schoolhouse Road

Lab Sample ID: 480-37809-3

Date Collected: 05/06/13 10:40

Matrix: Water

Date Received: 05/08/13 02:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/10/13 04:32	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/10/13 04:32	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/10/13 04:32	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/10/13 04:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*103*		*80 - 120*		*05/10/13 04:32*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*05/10/13 04:32*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		05/09/13 09:28	05/09/13 14:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*94*		*70 - 130*	*05/09/13 09:28*	*05/09/13 14:20*	*1*

Client Sample ID: 50 Cestaro Way

Lab Sample ID: 480-37809-5

Date Collected: 05/06/13 11:15

Matrix: Water

Date Received: 05/08/13 02:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/10/13 05:21	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/10/13 05:21	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/10/13 05:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/10/13 05:21	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/10/13 05:21	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/10/13 05:21	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/10/13 05:21	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/10/13 05:21	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/10/13 05:21	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/10/13 05:21	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/10/13 05:21	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/10/13 05:21	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/10/13 05:21	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/10/13 05:21	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/10/13 05:21	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/10/13 05:21	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/10/13 05:21	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/10/13 05:21	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/10/13 05:21	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/10/13 05:21	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/10/13 05:21	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/10/13 05:21	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/10/13 05:21	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/10/13 05:21	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/10/13 05:21	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/10/13 05:21	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/10/13 05:21	1
Acetone	ND		2.5	0.54	ug/L			05/10/13 05:21	1

Client Sample ID: 50 Cestaro Way
Date Collected: 05/06/13 11:15
Date Received: 05/08/13 02:00

Lab Sample ID: 480-37809-5
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.13	ug/L			05/10/13 05:21	1
Bromobenzene	ND		0.50	0.13	ug/L			05/10/13 05:21	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/10/13 05:21	1
Bromoform	ND		0.50	0.13	ug/L			05/10/13 05:21	1
Bromomethane	ND		0.50	0.051	ug/L			05/10/13 05:21	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/10/13 05:21	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/10/13 05:21	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/10/13 05:21	1
Chloroethane	ND		0.50	0.070	ug/L			05/10/13 05:21	1
Chloroform	**0.63**		0.50	0.14	ug/L			05/10/13 05:21	1
Chloromethane	ND		0.50	0.063	ug/L			05/10/13 05:21	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/10/13 05:21	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/10/13 05:21	1
Dibromomethane	ND		0.50	0.17	ug/L			05/10/13 05:21	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/10/13 05:21	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/10/13 05:21	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/10/13 05:21	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/10/13 05:21	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/10/13 05:21	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/10/13 05:21	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/10/13 05:21	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/10/13 05:21	1
Naphthalene	ND		0.50	0.060	ug/L			05/10/13 05:21	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/10/13 05:21	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/10/13 05:21	1
o-Xylene	ND		0.50	0.044	ug/L			05/10/13 05:21	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/10/13 05:21	1
Styrene	ND		0.50	0.044	ug/L			05/10/13 05:21	1
t-Butanol	ND		10	2.5	ug/L			05/10/13 05:21	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/10/13 05:21	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/10/13 05:21	1
Toluene	ND		0.50	0.10	ug/L			05/10/13 05:21	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/10/13 05:21	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/10/13 05:21	1
Trichloroethene	ND		0.50	0.060	ug/L			05/10/13 05:21	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/10/13 05:21	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/10/13 05:21	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/10/13 05:21	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/10/13 05:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*105*		*80 - 120*		*05/10/13 05:21*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*05/10/13 05:21*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**0.077**	**J**	0.20	0.041	ug/L		05/09/13 09:28	05/09/13 14:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*90*		*70 - 130*	*05/09/13 09:28*	*05/09/13 14:37*	*1*

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37809-1

Client Sample ID: 210 Schoolhouse Road
Date Collected: 05/06/13 12:10
Date Received: 05/08/13 02:00

Lab Sample ID: 480-37809-7
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/10/13 11:09	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/10/13 11:09	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/10/13 11:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/10/13 11:09	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/10/13 11:09	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/10/13 11:09	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/10/13 11:09	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/10/13 11:09	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/10/13 11:09	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/10/13 11:09	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/10/13 11:09	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/10/13 11:09	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/10/13 11:09	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/10/13 11:09	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/10/13 11:09	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/10/13 11:09	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/10/13 11:09	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/10/13 11:09	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/10/13 11:09	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/10/13 11:09	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/10/13 11:09	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/10/13 11:09	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/10/13 11:09	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/10/13 11:09	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/10/13 11:09	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/10/13 11:09	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/10/13 11:09	1
Acetone	ND		2.5	0.54	ug/L			05/10/13 11:09	1
Benzene	ND		0.50	0.13	ug/L			05/10/13 11:09	1
Bromobenzene	ND		0.50	0.13	ug/L			05/10/13 11:09	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/10/13 11:09	1
Bromoform	ND		0.50	0.13	ug/L			05/10/13 11:09	1
Bromomethane	ND		0.50	0.051	ug/L			05/10/13 11:09	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/10/13 11:09	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/10/13 11:09	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/10/13 11:09	1
Chloroethane	ND		0.50	0.070	ug/L			05/10/13 11:09	1
Chloroform	ND		0.50	0.14	ug/L			05/10/13 11:09	1
Chloromethane	ND		0.50	0.063	ug/L			05/10/13 11:09	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/10/13 11:09	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/10/13 11:09	1
Dibromomethane	ND		0.50	0.17	ug/L			05/10/13 11:09	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/10/13 11:09	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/10/13 11:09	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/10/13 11:09	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/10/13 11:09	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/10/13 11:09	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/10/13 11:09	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/10/13 11:09	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37809-1

Client Sample ID: 210 Schoolhouse Road

Lab Sample ID: 480-37809-7

Date Collected: 05/06/13 12:10

Matrix: Water

Date Received: 05/08/13 02:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/10/13 11:09	1
Naphthalene	ND		0.50	0.060	ug/L			05/10/13 11:09	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/10/13 11:09	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/10/13 11:09	1
o-Xylene	ND		0.50	0.044	ug/L			05/10/13 11:09	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/10/13 11:09	1
Styrene	ND		0.50	0.044	ug/L			05/10/13 11:09	1
t-Butanol	ND		10	2.5	ug/L			05/10/13 11:09	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/10/13 11:09	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/10/13 11:09	1
Toluene	ND		0.50	0.10	ug/L			05/10/13 11:09	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/10/13 11:09	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/10/13 11:09	1
Trichloroethene	ND		0.50	0.060	ug/L			05/10/13 11:09	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/10/13 11:09	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/10/13 11:09	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/10/13 11:09	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/10/13 11:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*104*		*80 - 120*		*05/10/13 11:09*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*05/10/13 11:09*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		05/09/13 09:28	05/09/13 14:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*76*		*70 - 130*	*05/09/13 09:28*	*05/09/13 14:53*	*1*

Client Sample ID: 60 Deerfield Lane

Lab Sample ID: 480-37809-9

Date Collected: 05/06/13 12:40

Matrix: Water

Date Received: 05/08/13 02:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/10/13 12:00	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/10/13 12:00	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/10/13 12:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/10/13 12:00	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/10/13 12:00	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/10/13 12:00	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/10/13 12:00	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/10/13 12:00	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/10/13 12:00	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/10/13 12:00	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/10/13 12:00	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/10/13 12:00	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/10/13 12:00	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/10/13 12:00	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37809-1

Client Sample ID: 60 Deerfield Lane
Date Collected: 05/06/13 12:40
Date Received: 05/08/13 02:00

Lab Sample ID: 480-37809-9
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/10/13 12:00	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/10/13 12:00	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/10/13 12:00	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/10/13 12:00	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/10/13 12:00	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/10/13 12:00	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/10/13 12:00	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/10/13 12:00	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/10/13 12:00	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/10/13 12:00	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/10/13 12:00	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/10/13 12:00	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/10/13 12:00	1
Acetone	ND		2.5	0.54	ug/L			05/10/13 12:00	1
Benzene	ND		0.50	0.13	ug/L			05/10/13 12:00	1
Bromobenzene	ND		0.50	0.13	ug/L			05/10/13 12:00	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/10/13 12:00	1
Bromoform	ND		0.50	0.13	ug/L			05/10/13 12:00	1
Bromomethane	ND		0.50	0.051	ug/L			05/10/13 12:00	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/10/13 12:00	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/10/13 12:00	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/10/13 12:00	1
Chloroethane	ND		0.50	0.070	ug/L			05/10/13 12:00	1
Chloroform	**0.45**	**J**	0.50	0.14	ug/L			05/10/13 12:00	1
Chloromethane	ND		0.50	0.063	ug/L			05/10/13 12:00	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/10/13 12:00	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/10/13 12:00	1
Dibromomethane	ND		0.50	0.17	ug/L			05/10/13 12:00	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/10/13 12:00	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/10/13 12:00	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/10/13 12:00	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/10/13 12:00	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/10/13 12:00	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/10/13 12:00	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/10/13 12:00	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/10/13 12:00	1
Naphthalene	ND		0.50	0.060	ug/L			05/10/13 12:00	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/10/13 12:00	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/10/13 12:00	1
o-Xylene	ND		0.50	0.044	ug/L			05/10/13 12:00	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/10/13 12:00	1
Styrene	ND		0.50	0.044	ug/L			05/10/13 12:00	1
t-Butanol	ND		10	2.5	ug/L			05/10/13 12:00	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/10/13 12:00	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/10/13 12:00	1
Toluene	ND		0.50	0.10	ug/L			05/10/13 12:00	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/10/13 12:00	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/10/13 12:00	1
Trichloroethene	ND		0.50	0.060	ug/L			05/10/13 12:00	1

Client Sample ID: 60 Deerfield Lane

Lab Sample ID: 480-37809-9

Date Collected: 05/06/13 12:40

Matrix: Water

Date Received: 05/08/13 02:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/10/13 12:00	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/10/13 12:00	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/10/13 12:00	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/10/13 12:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*104*		*80 - 120*		*05/10/13 12:00*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*05/10/13 12:00*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		05/09/13 09:28	05/09/13 15:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*99*		*70 - 130*	*05/09/13 09:28*	*05/09/13 15:10*	*1*

Client Sample ID: 280 Candlewood Drive

Lab Sample ID: 480-37809-11

Date Collected: 05/06/13 13:35

Matrix: Water

Date Received: 05/08/13 02:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/10/13 12:49	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/10/13 12:49	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/10/13 12:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/10/13 12:49	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/10/13 12:49	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/10/13 12:49	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/10/13 12:49	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/10/13 12:49	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/10/13 12:49	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/10/13 12:49	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/10/13 12:49	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/10/13 12:49	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/10/13 12:49	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/10/13 12:49	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/10/13 12:49	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/10/13 12:49	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/10/13 12:49	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/10/13 12:49	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/10/13 12:49	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/10/13 12:49	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/10/13 12:49	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/10/13 12:49	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/10/13 12:49	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/10/13 12:49	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/10/13 12:49	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/10/13 12:49	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/10/13 12:49	1
Acetone	ND		2.5	0.54	ug/L			05/10/13 12:49	1

Client Sample ID: 280 Candlewood Drive
Date Collected: 05/06/13 13:35
Date Received: 05/08/13 02:00

Lab Sample ID: 480-37809-11
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.13	ug/L			05/10/13 12:49	1
Bromobenzene	ND		0.50	0.13	ug/L			05/10/13 12:49	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/10/13 12:49	1
Bromoform	ND		0.50	0.13	ug/L			05/10/13 12:49	1
Bromomethane	ND		0.50	0.051	ug/L			05/10/13 12:49	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/10/13 12:49	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/10/13 12:49	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/10/13 12:49	1
Chloroethane	ND		0.50	0.070	ug/L			05/10/13 12:49	1
Chloroform	**0.74**		0.50	0.14	ug/L			05/10/13 12:49	1
Chloromethane	ND		0.50	0.063	ug/L			05/10/13 12:49	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/10/13 12:49	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/10/13 12:49	1
Dibromomethane	ND		0.50	0.17	ug/L			05/10/13 12:49	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/10/13 12:49	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/10/13 12:49	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/10/13 12:49	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/10/13 12:49	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/10/13 12:49	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/10/13 12:49	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/10/13 12:49	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/10/13 12:49	1
Naphthalene	ND		0.50	0.060	ug/L			05/10/13 12:49	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/10/13 12:49	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/10/13 12:49	1
o-Xylene	ND		0.50	0.044	ug/L			05/10/13 12:49	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/10/13 12:49	1
Styrene	ND		0.50	0.044	ug/L			05/10/13 12:49	1
t-Butanol	ND		10	2.5	ug/L			05/10/13 12:49	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/10/13 12:49	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/10/13 12:49	1
Toluene	ND		0.50	0.10	ug/L			05/10/13 12:49	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/10/13 12:49	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/10/13 12:49	1
Trichloroethene	ND		0.50	0.060	ug/L			05/10/13 12:49	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/10/13 12:49	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/10/13 12:49	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/10/13 12:49	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/10/13 12:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*102*		*80 - 120*		*05/10/13 12:49*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*05/10/13 12:49*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		05/09/13 09:28	05/09/13 15:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*92*		*70 - 130*	*05/09/13 09:28*	*05/09/13 15:27*	*1*

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37809-1

Client Sample ID: 17 Eldia Way
Date Collected: 05/06/13 14:25
Date Received: 05/08/13 02:00

Lab Sample ID: 480-37809-13
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/10/13 13:38	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/10/13 13:38	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/10/13 13:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/10/13 13:38	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/10/13 13:38	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/10/13 13:38	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/10/13 13:38	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/10/13 13:38	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/10/13 13:38	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/10/13 13:38	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/10/13 13:38	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/10/13 13:38	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/10/13 13:38	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/10/13 13:38	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/10/13 13:38	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/10/13 13:38	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/10/13 13:38	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/10/13 13:38	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/10/13 13:38	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/10/13 13:38	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/10/13 13:38	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/10/13 13:38	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/10/13 13:38	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/10/13 13:38	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/10/13 13:38	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/10/13 13:38	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/10/13 13:38	1
Acetone	ND		2.5	0.54	ug/L			05/10/13 13:38	1
Benzene	ND		0.50	0.13	ug/L			05/10/13 13:38	1
Bromobenzene	ND		0.50	0.13	ug/L			05/10/13 13:38	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/10/13 13:38	1
Bromoform	ND		0.50	0.13	ug/L			05/10/13 13:38	1
Bromomethane	ND		0.50	0.051	ug/L			05/10/13 13:38	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/10/13 13:38	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/10/13 13:38	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/10/13 13:38	1
Chloroethane	ND		0.50	0.070	ug/L			05/10/13 13:38	1
Chloroform	ND		0.50	0.14	ug/L			05/10/13 13:38	1
Chloromethane	ND		0.50	0.063	ug/L			05/10/13 13:38	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/10/13 13:38	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/10/13 13:38	1
Dibromomethane	ND		0.50	0.17	ug/L			05/10/13 13:38	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/10/13 13:38	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/10/13 13:38	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/10/13 13:38	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/10/13 13:38	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/10/13 13:38	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/10/13 13:38	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/10/13 13:38	1

Client Sample ID: 17 Eldia Way

Lab Sample ID: 480-37809-13

Date Collected: 05/06/13 14:25

Matrix: Water

Date Received: 05/08/13 02:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/10/13 13:38	1
Naphthalene	ND		0.50	0.060	ug/L			05/10/13 13:38	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/10/13 13:38	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/10/13 13:38	1
o-Xylene	ND		0.50	0.044	ug/L			05/10/13 13:38	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/10/13 13:38	1
Styrene	ND		0.50	0.044	ug/L			05/10/13 13:38	1
t-Butanol	ND		10	2.5	ug/L			05/10/13 13:38	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/10/13 13:38	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/10/13 13:38	1
Toluene	ND		0.50	0.10	ug/L			05/10/13 13:38	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/10/13 13:38	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/10/13 13:38	1
Trichloroethene	ND		0.50	0.060	ug/L			05/10/13 13:38	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/10/13 13:38	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/10/13 13:38	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/10/13 13:38	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/10/13 13:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*105*		*80 - 120*		*05/10/13 13:38*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*05/10/13 13:38*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		05/09/13 09:28	05/09/13 15:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*95*		*70 - 130*	*05/09/13 09:28*	*05/09/13 15:43*	*1*

Client Sample ID: 75 Cestaro Way

Lab Sample ID: 480-37809-15

Date Collected: 05/06/13 12:00

Matrix: Water

Date Received: 05/08/13 02:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/10/13 14:28	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/10/13 14:28	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/10/13 14:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/10/13 14:28	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/10/13 14:28	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/10/13 14:28	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/10/13 14:28	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/10/13 14:28	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/10/13 14:28	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/10/13 14:28	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/10/13 14:28	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/10/13 14:28	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/10/13 14:28	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/10/13 14:28	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37809-1

Client Sample ID: 75 Cestaro Way
Date Collected: 05/06/13 12:00
Date Received: 05/08/13 02:00

Lab Sample ID: 480-37809-15
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/10/13 14:28	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/10/13 14:28	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/10/13 14:28	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/10/13 14:28	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/10/13 14:28	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/10/13 14:28	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/10/13 14:28	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/10/13 14:28	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/10/13 14:28	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/10/13 14:28	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/10/13 14:28	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/10/13 14:28	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/10/13 14:28	1
Acetone	ND		2.5	0.54	ug/L			05/10/13 14:28	1
Benzene	ND		0.50	0.13	ug/L			05/10/13 14:28	1
Bromobenzene	ND		0.50	0.13	ug/L			05/10/13 14:28	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/10/13 14:28	1
Bromoform	ND		0.50	0.13	ug/L			05/10/13 14:28	1
Bromomethane	ND		0.50	0.051	ug/L			05/10/13 14:28	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/10/13 14:28	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/10/13 14:28	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/10/13 14:28	1
Chloroethane	ND		0.50	0.070	ug/L			05/10/13 14:28	1
Chloroform	**0.68**		0.50	0.14	ug/L			05/10/13 14:28	1
Chloromethane	ND		0.50	0.063	ug/L			05/10/13 14:28	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/10/13 14:28	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/10/13 14:28	1
Dibromomethane	ND		0.50	0.17	ug/L			05/10/13 14:28	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/10/13 14:28	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/10/13 14:28	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/10/13 14:28	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/10/13 14:28	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/10/13 14:28	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/10/13 14:28	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/10/13 14:28	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/10/13 14:28	1
Naphthalene	ND		0.50	0.060	ug/L			05/10/13 14:28	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/10/13 14:28	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/10/13 14:28	1
o-Xylene	ND		0.50	0.044	ug/L			05/10/13 14:28	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/10/13 14:28	1
Styrene	ND		0.50	0.044	ug/L			05/10/13 14:28	1
t-Butanol	ND		10	2.5	ug/L			05/10/13 14:28	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/10/13 14:28	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/10/13 14:28	1
Toluene	ND		0.50	0.10	ug/L			05/10/13 14:28	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/10/13 14:28	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/10/13 14:28	1
Trichloroethene	ND		0.50	0.060	ug/L			05/10/13 14:28	1

Client Sample ID: 75 Cestaro Way

Lab Sample ID: 480-37809-15

Date Collected: 05/06/13 12:00

Matrix: Water

Date Received: 05/08/13 02:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/10/13 14:28	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/10/13 14:28	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/10/13 14:28	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/10/13 14:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*105*		*80 - 120*		*05/10/13 14:28*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*05/10/13 14:28*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		05/09/13 09:28	05/09/13 16:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*96*		*70 - 130*	*05/09/13 09:28*	*05/09/13 16:00*	*1*

Client Sample ID: 65 Deerfield Lane

Lab Sample ID: 480-37809-17

Date Collected: 05/06/13 12:40

Matrix: Water

Date Received: 05/08/13 02:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/10/13 15:17	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/10/13 15:17	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/10/13 15:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/10/13 15:17	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/10/13 15:17	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/10/13 15:17	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/10/13 15:17	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/10/13 15:17	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/10/13 15:17	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/10/13 15:17	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/10/13 15:17	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/10/13 15:17	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/10/13 15:17	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/10/13 15:17	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/10/13 15:17	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/10/13 15:17	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/10/13 15:17	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/10/13 15:17	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/10/13 15:17	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/10/13 15:17	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/10/13 15:17	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/10/13 15:17	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/10/13 15:17	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/10/13 15:17	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/10/13 15:17	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/10/13 15:17	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/10/13 15:17	1
Acetone	ND		2.5	0.54	ug/L			05/10/13 15:17	1

Client Sample ID: 65 Deerfield Lane
Date Collected: 05/06/13 12:40
Date Received: 05/08/13 02:00

Lab Sample ID: 480-37809-17
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.13	ug/L			05/10/13 15:17	1
Bromobenzene	ND		0.50	0.13	ug/L			05/10/13 15:17	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/10/13 15:17	1
Bromoform	ND		0.50	0.13	ug/L			05/10/13 15:17	1
Bromomethane	ND		0.50	0.051	ug/L			05/10/13 15:17	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/10/13 15:17	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/10/13 15:17	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/10/13 15:17	1
Chloroethane	ND		0.50	0.070	ug/L			05/10/13 15:17	1
Chloroform	**1.3**		0.50	0.14	ug/L			05/10/13 15:17	1
Chloromethane	ND		0.50	0.063	ug/L			05/10/13 15:17	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/10/13 15:17	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/10/13 15:17	1
Dibromomethane	ND		0.50	0.17	ug/L			05/10/13 15:17	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/10/13 15:17	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/10/13 15:17	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/10/13 15:17	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/10/13 15:17	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/10/13 15:17	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/10/13 15:17	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/10/13 15:17	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/10/13 15:17	1
Naphthalene	ND		0.50	0.060	ug/L			05/10/13 15:17	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/10/13 15:17	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/10/13 15:17	1
o-Xylene	ND		0.50	0.044	ug/L			05/10/13 15:17	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/10/13 15:17	1
Styrene	ND		0.50	0.044	ug/L			05/10/13 15:17	1
t-Butanol	ND		10	2.5	ug/L			05/10/13 15:17	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/10/13 15:17	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/10/13 15:17	1
Toluene	ND		0.50	0.10	ug/L			05/10/13 15:17	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/10/13 15:17	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/10/13 15:17	1
Trichloroethene	ND		0.50	0.060	ug/L			05/10/13 15:17	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/10/13 15:17	1
Trihalomethanes, Total	**1.3**	**J**	2.0	1.0	ug/L			05/10/13 15:17	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/10/13 15:17	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/10/13 15:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*105*		*80 - 120*		*05/10/13 15:17*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*05/10/13 15:17*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		05/09/13 09:28	05/09/13 16:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*92*		*70 - 130*	*05/09/13 09:28*	*05/09/13 16:16*	*1*

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37809-1

Client Sample ID: 255 Alston Avenue

Lab Sample ID: 480-37809-19

Date Collected: 05/06/13 14:15
Matrix: Water
Date Received: 05/08/13 02:00

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.8		0.20	0.041	ug/L		05/09/13 09:28	05/09/13 16:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*94*		*70 - 130*	*05/09/13 09:28*	*05/09/13 16:32*	*1*

Client Sample ID: Trip Blank (Lot number 050113)

Lab Sample ID: 480-37809-21

Date Collected: 05/06/13 00:00
Matrix: Water
Date Received: 05/08/13 02:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/10/13 16:07	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/10/13 16:07	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/10/13 16:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/10/13 16:07	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/10/13 16:07	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/10/13 16:07	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/10/13 16:07	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/10/13 16:07	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/10/13 16:07	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/10/13 16:07	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/10/13 16:07	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/10/13 16:07	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/10/13 16:07	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/10/13 16:07	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/10/13 16:07	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/10/13 16:07	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/10/13 16:07	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/10/13 16:07	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/10/13 16:07	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/10/13 16:07	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/10/13 16:07	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/10/13 16:07	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/10/13 16:07	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/10/13 16:07	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/10/13 16:07	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/10/13 16:07	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/10/13 16:07	1
Acetone	ND		2.5	0.54	ug/L			05/10/13 16:07	1
Benzene	ND		0.50	0.13	ug/L			05/10/13 16:07	1
Bromobenzene	ND		0.50	0.13	ug/L			05/10/13 16:07	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/10/13 16:07	1
Bromoform	ND		0.50	0.13	ug/L			05/10/13 16:07	1
Bromomethane	ND		0.50	0.051	ug/L			05/10/13 16:07	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/10/13 16:07	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/10/13 16:07	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/10/13 16:07	1
Chloroethane	ND		0.50	0.070	ug/L			05/10/13 16:07	1
Chloroform	ND		0.50	0.14	ug/L			05/10/13 16:07	1
Chloromethane	ND		0.50	0.063	ug/L			05/10/13 16:07	1

Client Sample ID: Trip Blank (Lot number 050113)

Lab Sample ID: 480-37809-21

Date Collected: 05/06/13 00:00

Matrix: Water

Date Received: 05/08/13 02:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/10/13 16:07	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/10/13 16:07	1
Dibromomethane	ND		0.50	0.17	ug/L			05/10/13 16:07	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/10/13 16:07	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/10/13 16:07	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/10/13 16:07	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/10/13 16:07	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/10/13 16:07	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/10/13 16:07	1
Methylene Chloride	**0.43**	**J**	0.50	0.25	ug/L			05/10/13 16:07	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/10/13 16:07	1
Naphthalene	ND		0.50	0.060	ug/L			05/10/13 16:07	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/10/13 16:07	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/10/13 16:07	1
o-Xylene	ND		0.50	0.044	ug/L			05/10/13 16:07	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/10/13 16:07	1
Styrene	ND		0.50	0.044	ug/L			05/10/13 16:07	1
t-Butanol	ND		10	2.5	ug/L			05/10/13 16:07	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/10/13 16:07	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/10/13 16:07	1
Toluene	ND		0.50	0.10	ug/L			05/10/13 16:07	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/10/13 16:07	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/10/13 16:07	1
Trichloroethene	ND		0.50	0.060	ug/L			05/10/13 16:07	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/10/13 16:07	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/10/13 16:07	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/10/13 16:07	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/10/13 16:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*105*		*80 - 120*		*05/10/13 16:07*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*05/10/13 16:07*	*1*

Client Sample ID: Trip Blank (Lot number 050213)

Lab Sample ID: 480-37809-22

Date Collected: 05/06/13 00:00

Matrix: Water

Date Received: 05/08/13 02:00

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		05/09/13 09:28	05/10/13 10:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*84*		*70 - 130*	*05/09/13 09:28*	*05/10/13 10:56*	*1*

Surrogate Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37809-1

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)									
		12DCB	BFB								
Lab Sample ID	Client Sample ID	(80-120)	(80-120)								
480-37809-1	25 Old Orchard Road	104	99								
480-37809-3	455 Schoolhouse Road	103	97								
480-37809-5	50 Cestaro Way	105	99								
480-37809-7	210 Schoolhouse Road	104	100								
480-37809-9	60 Deerfield Lane	104	100								
480-37809-11	280 Candlewood Drive	102	95								
480-37809-13	17 Eldia Way	105	97								
480-37809-15	75 Cestaro Way	105	98								
480-37809-17	65 Deerfield Lane	105	96								
480-37809-21	Trip Blank (Lot number 050113)	105	99								
LCS 480-117799/5	Lab Control Sample	100	103								
LCS 480-117873/4	Lab Control Sample	104	99								
MB 480-117799/6	Method Blank	102	99								
MB 480-117873/5	Method Blank	103	101								

Surrogate Legend

12DCB = 1,2-Dichlorobenzene-d4

BFB = 4-Bromofluorobenzene (Surr)

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)									
		14DD8									
Lab Sample ID	Client Sample ID	(70-130)									
480-37809-1	25 Old Orchard Road	94									
480-37809-3	455 Schoolhouse Road	94									
480-37809-5	50 Cestaro Way	90									
480-37809-7	210 Schoolhouse Road	76									
480-37809-9	60 Deerfield Lane	99									
480-37809-11	280 Candlewood Drive	92									
480-37809-13	17 Eldia Way	95									
480-37809-15	75 Cestaro Way	96									
480-37809-17	65 Deerfield Lane	92									
480-37809-19	255 Alston Avenue	94									
480-37809-22	Trip Blank (Lot number 050213)	84									
LCS 200-55307/2-A	Lab Control Sample	88									
MB 200-55307/1-A	Method Blank	91									

Surrogate Legend

14DD8 = 1,4-Dioxane-d8 (Surr)

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-117799/6
Matrix: Water
Analysis Batch: 117799

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/09/13 23:53	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/09/13 23:53	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/09/13 23:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/09/13 23:53	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/09/13 23:53	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/09/13 23:53	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/09/13 23:53	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/09/13 23:53	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/09/13 23:53	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/09/13 23:53	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/09/13 23:53	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/09/13 23:53	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/09/13 23:53	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/09/13 23:53	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/09/13 23:53	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/09/13 23:53	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/09/13 23:53	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/09/13 23:53	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/09/13 23:53	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/09/13 23:53	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/09/13 23:53	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/09/13 23:53	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/09/13 23:53	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/09/13 23:53	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/09/13 23:53	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/09/13 23:53	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/09/13 23:53	1
Acetone	ND		2.5	0.54	ug/L			05/09/13 23:53	1
Benzene	ND		0.50	0.13	ug/L			05/09/13 23:53	1
Bromobenzene	ND		0.50	0.13	ug/L			05/09/13 23:53	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/09/13 23:53	1
Bromoform	ND		0.50	0.13	ug/L			05/09/13 23:53	1
Bromomethane	ND		0.50	0.051	ug/L			05/09/13 23:53	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/09/13 23:53	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/09/13 23:53	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/09/13 23:53	1
Chloroethane	ND		0.50	0.070	ug/L			05/09/13 23:53	1
Chloroform	ND		0.50	0.14	ug/L			05/09/13 23:53	1
Chloromethane	ND		0.50	0.063	ug/L			05/09/13 23:53	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/09/13 23:53	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/09/13 23:53	1
Dibromomethane	ND		0.50	0.17	ug/L			05/09/13 23:53	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/09/13 23:53	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/09/13 23:53	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/09/13 23:53	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/09/13 23:53	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/09/13 23:53	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/09/13 23:53	1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-117799/6
Matrix: Water
Analysis Batch: 117799

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		0.50	0.25	ug/L			05/09/13 23:53	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/09/13 23:53	1
Naphthalene	ND		0.50	0.060	ug/L			05/09/13 23:53	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/09/13 23:53	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/09/13 23:53	1
o-Xylene	ND		0.50	0.044	ug/L			05/09/13 23:53	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/09/13 23:53	1
Styrene	ND		0.50	0.044	ug/L			05/09/13 23:53	1
t-Butanol	ND		10	2.5	ug/L			05/09/13 23:53	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/09/13 23:53	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/09/13 23:53	1
Toluene	ND		0.50	0.10	ug/L			05/09/13 23:53	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/09/13 23:53	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/09/13 23:53	1
Trichloroethene	ND		0.50	0.060	ug/L			05/09/13 23:53	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/09/13 23:53	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/09/13 23:53	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/09/13 23:53	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/09/13 23:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*102*		*80 - 120*		*05/09/13 23:53*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*05/09/13 23:53*	*1*

Lab Sample ID: LCS 480-117799/5
Matrix: Water
Analysis Batch: 117799

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	4.00	3.93		ug/L		98	70 - 130
1,1,1-Trichloroethane	4.00	4.00		ug/L		100	70 - 130
1,1,2,2-Tetrachloroethane	4.00	3.41		ug/L		85	70 - 130
1,1,2-Trichloroethane	4.00	3.65		ug/L		91	70 - 130
1,1-Dichloroethane	4.00	3.82		ug/L		96	70 - 130
1,1-Dichloroethene	4.00	3.41		ug/L		85	70 - 130
1,1-Dichloropropene	4.00	4.07		ug/L		102	70 - 130
1,2,3-Trichlorobenzene	4.00	4.10		ug/L		102	70 - 130
1,2,3-Trichloropropane	4.00	3.77		ug/L		94	70 - 130
1,2,4-Trichlorobenzene	4.00	3.84		ug/L		96	70 - 130
1,2,4-Trimethylbenzene	4.00	3.76		ug/L		94	70 - 130
1,2-Dibromo-3-Chloropropane	4.00	3.65		ug/L		91	70 - 130
1,2-Dibromoethane	4.00	3.97		ug/L		99	70 - 130
1,2-Dichlorobenzene	4.00	3.78		ug/L		95	70 - 130
1,2-Dichloroethane	4.00	4.30		ug/L		107	70 - 130
1,2-Dichloropropane	4.00	3.85		ug/L		96	70 - 130
1,3,5-Trimethylbenzene	4.00	3.79		ug/L		95	70 - 130
1,3-Dichlorobenzene	4.00	3.83		ug/L		96	70 - 130
1,3-Dichloropropane	4.00	3.74		ug/L		93	70 - 130

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-117799/5
Matrix: Water
Analysis Batch: 117799

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	4.00	3.74		ug/L		94	70 - 130
2,2-Dichloropropane	4.00	3.59		ug/L		90	70 - 130
2-Butanone (MEK)	20.0	21.5		ug/L		108	70 - 130
2-Chlorotoluene	4.00	3.67		ug/L		92	70 - 130
4-Chlorotoluene	4.00	3.69		ug/L		92	70 - 130
4-Isopropyltoluene	4.00	3.84		ug/L		96	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	20.5		ug/L		103	70 - 130
Acetone	20.0	20.9		ug/L		105	70 - 130
Benzene	4.00	3.70		ug/L		93	70 - 130
Bromobenzene	4.00	3.87		ug/L		97	70 - 130
Bromochloromethane	4.00	3.88		ug/L		97	70 - 130
Bromoform	4.00	3.89		ug/L		97	70 - 130
Bromomethane	4.00	3.59		ug/L		90	70 - 130
Carbon tetrachloride	4.00	4.01		ug/L		100	70 - 130
Chlorobenzene	4.00	3.84		ug/L		96	70 - 130
Chlorodibromomethane	4.00	3.83		ug/L		96	70 - 130
Chloroethane	4.00	4.11		ug/L		103	70 - 130
Chloroform	4.00	3.70		ug/L		92	70 - 130
Chloromethane	4.00	4.01		ug/L		100	70 - 130
cis-1,2-Dichloroethene	4.00	4.07		ug/L		102	70 - 130
cis-1,3-Dichloropropene	4.00	3.60		ug/L		90	70 - 130
Dibromomethane	4.00	3.73		ug/L		93	70 - 130
Dichlorobromomethane	4.00	3.89		ug/L		97	70 - 130
Dichlorodifluoromethane	4.00	3.96		ug/L		99	70 - 130
Ethylbenzene	4.00	3.81		ug/L		95	70 - 130
Hexachlorobutadiene	4.00	4.40		ug/L		110	70 - 130
Isopropylbenzene	4.00	3.87		ug/L		97	70 - 130
Methyl tert-butyl ether	4.00	3.51		ug/L		88	70 - 130
Methylene Chloride	4.00	3.47		ug/L		87	70 - 130
Naphthalene	4.00	3.81		ug/L		95	70 - 130
n-Butylbenzene	4.00	3.72		ug/L		93	70 - 130
N-Propylbenzene	4.00	3.71		ug/L		93	70 - 130
sec-Butylbenzene	4.00	3.85		ug/L		96	70 - 130
Styrene	4.00	3.87		ug/L		97	70 - 130
tert-Butylbenzene	4.00	4.02		ug/L		100	70 - 130
Tetrachloroethene	4.00	4.08		ug/L		102	70 - 130
Toluene	4.00	3.79		ug/L		95	70 - 130
trans-1,2-Dichloroethene	4.00	3.58		ug/L		90	70 - 130
trans-1,3-Dichloropropene	4.00	3.47		ug/L		87	70 - 130
Trichloroethene	4.00	3.93		ug/L		98	70 - 130
Trichlorofluoromethane	4.00	4.35		ug/L		109	70 - 130
Vinyl chloride	4.00	4.59		ug/L		115	70 - 130
Xylenes, Total	12.0	11.5		ug/L		96	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichlorobenzene-d4	*100*		*80 - 120*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-117873/5
Matrix: Water
Analysis Batch: 117873

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/10/13 10:43	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/10/13 10:43	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/10/13 10:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/10/13 10:43	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/10/13 10:43	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/10/13 10:43	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/10/13 10:43	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/10/13 10:43	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/10/13 10:43	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/10/13 10:43	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/10/13 10:43	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/10/13 10:43	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/10/13 10:43	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/10/13 10:43	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/10/13 10:43	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/10/13 10:43	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/10/13 10:43	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/10/13 10:43	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/10/13 10:43	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/10/13 10:43	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/10/13 10:43	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/10/13 10:43	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/10/13 10:43	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/10/13 10:43	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/10/13 10:43	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/10/13 10:43	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/10/13 10:43	1
Acetone	ND		2.5	0.54	ug/L			05/10/13 10:43	1
Benzene	ND		0.50	0.13	ug/L			05/10/13 10:43	1
Bromobenzene	ND		0.50	0.13	ug/L			05/10/13 10:43	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/10/13 10:43	1
Bromoform	ND		0.50	0.13	ug/L			05/10/13 10:43	1
Bromomethane	ND		0.50	0.051	ug/L			05/10/13 10:43	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/10/13 10:43	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/10/13 10:43	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/10/13 10:43	1
Chloroethane	ND		0.50	0.070	ug/L			05/10/13 10:43	1
Chloroform	ND		0.50	0.14	ug/L			05/10/13 10:43	1
Chloromethane	ND		0.50	0.063	ug/L			05/10/13 10:43	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/10/13 10:43	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/10/13 10:43	1
Dibromomethane	ND		0.50	0.17	ug/L			05/10/13 10:43	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/10/13 10:43	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/10/13 10:43	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/10/13 10:43	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/10/13 10:43	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/10/13 10:43	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/10/13 10:43	1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-117873/5
Matrix: Water
Analysis Batch: 117873

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		0.50	0.25	ug/L			05/10/13 10:43	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/10/13 10:43	1
Naphthalene	ND		0.50	0.060	ug/L			05/10/13 10:43	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/10/13 10:43	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/10/13 10:43	1
o-Xylene	ND		0.50	0.044	ug/L			05/10/13 10:43	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/10/13 10:43	1
Styrene	ND		0.50	0.044	ug/L			05/10/13 10:43	1
t-Butanol	ND		10	2.5	ug/L			05/10/13 10:43	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/10/13 10:43	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/10/13 10:43	1
Toluene	ND		0.50	0.10	ug/L			05/10/13 10:43	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/10/13 10:43	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/10/13 10:43	1
Trichloroethene	ND		0.50	0.060	ug/L			05/10/13 10:43	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/10/13 10:43	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/10/13 10:43	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/10/13 10:43	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/10/13 10:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*103*		*80 - 120*		*05/10/13 10:43*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*05/10/13 10:43*	*1*

Lab Sample ID: LCS 480-117873/4
Matrix: Water
Analysis Batch: 117873

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	4.00	4.41		ug/L		110	70 - 130
1,1,1-Trichloroethane	4.00	4.32		ug/L		108	70 - 130
1,1,2,2-Tetrachloroethane	4.00	3.16		ug/L		79	70 - 130
1,1,2-Trichloroethane	4.00	3.21		ug/L		80	70 - 130
1,1-Dichloroethane	4.00	3.87		ug/L		97	70 - 130
1,1-Dichloroethene	4.00	3.43		ug/L		86	70 - 130
1,1-Dichloropropene	4.00	4.09		ug/L		102	70 - 130
1,2,3-Trichlorobenzene	4.00	4.52		ug/L		113	70 - 130
1,2,3-Trichloropropane	4.00	3.76		ug/L		94	70 - 130
1,2,4-Trichlorobenzene	4.00	4.54		ug/L		113	70 - 130
1,2,4-Trimethylbenzene	4.00	3.88		ug/L		97	70 - 130
1,2-Dibromo-3-Chloropropane	4.00	3.82		ug/L		96	70 - 130
1,2-Dibromoethane	4.00	4.00		ug/L		100	70 - 130
1,2-Dichlorobenzene	4.00	4.12		ug/L		103	70 - 130
1,2-Dichloroethane	4.00	4.47		ug/L		112	70 - 130
1,2-Dichloropropane	4.00	3.23		ug/L		81	70 - 130
1,3,5-Trimethylbenzene	4.00	3.81		ug/L		95	70 - 130
1,3-Dichlorobenzene	4.00	3.98		ug/L		99	70 - 130
1,3-Dichloropropane	4.00	3.45		ug/L		86	70 - 130

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-117873/4
Matrix: Water
Analysis Batch: 117873

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	4.00	3.90		ug/L		98	70 - 130
2,2-Dichloropropane	4.00	3.84		ug/L		96	70 - 130
2-Butanone (MEK)	20.0	23.3		ug/L		116	70 - 130
2-Chlorotoluene	4.00	3.55		ug/L		89	70 - 130
4-Chlorotoluene	4.00	3.49		ug/L		87	70 - 130
4-Isopropyltoluene	4.00	4.00		ug/L		100	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	17.6		ug/L		88	70 - 130
Acetone	20.0	25.9		ug/L		130	70 - 130
Benzene	4.00	3.81		ug/L		95	70 - 130
Bromobenzene	4.00	3.94		ug/L		99	70 - 130
Bromochloromethane	4.00	4.16		ug/L		104	70 - 130
Bromoform	4.00	4.36		ug/L		109	70 - 130
Bromomethane	4.00	3.78		ug/L		95	70 - 130
Carbon tetrachloride	4.00	4.25		ug/L		106	70 - 130
Chlorobenzene	4.00	3.92		ug/L		98	70 - 130
Chlorodibromomethane	4.00	4.13		ug/L		103	70 - 130
Chloroethane	4.00	4.22		ug/L		106	70 - 130
Chloroform	4.00	3.86		ug/L		96	70 - 130
Chloromethane	4.00	3.72		ug/L		93	70 - 130
cis-1,2-Dichloroethene	4.00	4.18		ug/L		104	70 - 130
cis-1,3-Dichloropropene	4.00	3.05		ug/L		76	70 - 130
Dibromomethane	4.00	3.39		ug/L		85	70 - 130
Dichlorobromomethane	4.00	3.42		ug/L		86	70 - 130
Dichlorodifluoromethane	4.00	4.17		ug/L		104	70 - 130
Ethylbenzene	4.00	3.79		ug/L		95	70 - 130
Hexachlorobutadiene	4.00	4.63		ug/L		116	70 - 130
Isopropylbenzene	4.00	4.16		ug/L		104	70 - 130
Methyl tert-butyl ether	4.00	3.92		ug/L		98	70 - 130
Methylene Chloride	4.00	3.54		ug/L		88	70 - 130
Naphthalene	4.00	4.32		ug/L		108	70 - 130
n-Butylbenzene	4.00	3.73		ug/L		93	70 - 130
N-Propylbenzene	4.00	3.50		ug/L		88	70 - 130
sec-Butylbenzene	4.00	3.77		ug/L		94	70 - 130
Styrene	4.00	3.96		ug/L		99	70 - 130
tert-Butylbenzene	4.00	3.92		ug/L		98	70 - 130
Tetrachloroethene	4.00	4.26		ug/L		107	70 - 130
Toluene	4.00	3.39		ug/L		85	70 - 130
trans-1,2-Dichloroethene	4.00	3.74		ug/L		94	70 - 130
trans-1,3-Dichloropropene	4.00	3.02		ug/L		76	70 - 130
Trichloroethene	4.00	4.00		ug/L		100	70 - 130
Trichlorofluoromethane	4.00	4.88		ug/L		122	70 - 130
Vinyl chloride	4.00	4.31		ug/L		108	70 - 130
Xylenes, Total	12.0	11.8		ug/L		99	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichlorobenzene-d4	*104*		*80 - 120*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37809-1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Lab Sample ID: MB 200-55307/1-A
Matrix: Water
Analysis Batch: 55323

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 55307

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		05/09/13 09:28	05/09/13 13:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*91*		*70 - 130*	*05/09/13 09:28*	*05/09/13 13:48*	*1*

Lab Sample ID: LCS 200-55307/2-A
Matrix: Water
Analysis Batch: 55364

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 55307

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane			0.200	0.192	J	ug/L		96	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,4-Dioxane-d8 (Surr)	*88*		*70 - 130*

GC/MS VOA

Analysis Batch: 117799

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-37809-1	25 Old Orchard Road	Total/NA	Water	524.2	
480-37809-3	455 Schoolhouse Road	Total/NA	Water	524.2	
480-37809-5	50 Cestaro Way	Total/NA	Water	524.2	
LCS 480-117799/5	Lab Control Sample	Total/NA	Water	524.2	
MB 480-117799/6	Method Blank	Total/NA	Water	524.2	

Analysis Batch: 117873

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-37809-7	210 Schoolhouse Road	Total/NA	Water	524.2	
480-37809-9	60 Deerfield Lane	Total/NA	Water	524.2	
480-37809-11	280 Candlewood Drive	Total/NA	Water	524.2	
480-37809-13	17 Eldia Way	Total/NA	Water	524.2	
480-37809-15	75 Cestaro Way	Total/NA	Water	524.2	
480-37809-17	65 Deerfield Lane	Total/NA	Water	524.2	
480-37809-21	Trip Blank (Lot number 050113)	Total/NA	Water	524.2	
LCS 480-117873/4	Lab Control Sample	Total/NA	Water	524.2	
MB 480-117873/5	Method Blank	Total/NA	Water	524.2	

GC/MS Semi VOA

Prep Batch: 55307

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-37809-1	25 Old Orchard Road	Total/NA	Water	3535A	
480-37809-3	455 Schoolhouse Road	Total/NA	Water	3535A	
480-37809-5	50 Cestaro Way	Total/NA	Water	3535A	
480-37809-7	210 Schoolhouse Road	Total/NA	Water	3535A	
480-37809-9	60 Deerfield Lane	Total/NA	Water	3535A	
480-37809-11	280 Candlewood Drive	Total/NA	Water	3535A	
480-37809-13	17 Eldia Way	Total/NA	Water	3535A	
480-37809-15	75 Cestaro Way	Total/NA	Water	3535A	
480-37809-17	65 Deerfield Lane	Total/NA	Water	3535A	
480-37809-19	255 Alston Avenue	Total/NA	Water	3535A	
480-37809-22	Trip Blank (Lot number 050213)	Total/NA	Water	3535A	
LCS 200-55307/2-A	Lab Control Sample	Total/NA	Water	3535A	
MB 200-55307/1-A	Method Blank	Total/NA	Water	3535A	

Analysis Batch: 55323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-37809-1	25 Old Orchard Road	Total/NA	Water	522 MOD	55307
480-37809-3	455 Schoolhouse Road	Total/NA	Water	522 MOD	55307
480-37809-5	50 Cestaro Way	Total/NA	Water	522 MOD	55307
480-37809-7	210 Schoolhouse Road	Total/NA	Water	522 MOD	55307
480-37809-9	60 Deerfield Lane	Total/NA	Water	522 MOD	55307
480-37809-11	280 Candlewood Drive	Total/NA	Water	522 MOD	55307
480-37809-13	17 Eldia Way	Total/NA	Water	522 MOD	55307
480-37809-15	75 Cestaro Way	Total/NA	Water	522 MOD	55307
480-37809-17	65 Deerfield Lane	Total/NA	Water	522 MOD	55307
480-37809-19	255 Alston Avenue	Total/NA	Water	522 MOD	55307
MB 200-55307/1-A	Method Blank	Total/NA	Water	522 MOD	55307

GC/MS Semi VOA (Continued)

Analysis Batch: 55364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-37809-22	Trip Blank (Lot number 050213)	Total/NA	Water	522 MOD	55307
LCS 200-55307/2-A	Lab Control Sample	Total/NA	Water	522 MOD	55307

Lab Chronicle

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37809-1

Client Sample ID: 25 Old Orchard Road

Lab Sample ID: 480-37809-1

Date Collected: 05/06/13 09:45

Matrix: Water

Date Received: 05/08/13 02:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	117799	05/10/13 03:43	TRB	TAL BUF
Total/NA	Prep	3535A			55307	05/09/13 09:28	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55323	05/09/13 14:04	RJH	TAL BUR

Client Sample ID: 455 Schoolhouse Road

Lab Sample ID: 480-37809-3

Date Collected: 05/06/13 10:40

Matrix: Water

Date Received: 05/08/13 02:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	117799	05/10/13 04:32	TRB	TAL BUF
Total/NA	Prep	3535A			55307	05/09/13 09:28	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55323	05/09/13 14:20	RJH	TAL BUR

Client Sample ID: 50 Cestaro Way

Lab Sample ID: 480-37809-5

Date Collected: 05/06/13 11:15

Matrix: Water

Date Received: 05/08/13 02:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	117799	05/10/13 05:21	TRB	TAL BUF
Total/NA	Prep	3535A			55307	05/09/13 09:28	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55323	05/09/13 14:37	RJH	TAL BUR

Client Sample ID: 210 Schoolhouse Road

Lab Sample ID: 480-37809-7

Date Collected: 05/06/13 12:10

Matrix: Water

Date Received: 05/08/13 02:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	117873	05/10/13 11:09	CDC	TAL BUF
Total/NA	Prep	3535A			55307	05/09/13 09:28	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55323	05/09/13 14:53	RJH	TAL BUR

Client Sample ID: 60 Deerfield Lane

Lab Sample ID: 480-37809-9

Date Collected: 05/06/13 12:40

Matrix: Water

Date Received: 05/08/13 02:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	117873	05/10/13 12:00	CDC	TAL BUF
Total/NA	Prep	3535A			55307	05/09/13 09:28	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55323	05/09/13 15:10	RJH	TAL BUR

Lab Chronicle

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37809-1

Client Sample ID: 280 Candlewood Drive

Lab Sample ID: 480-37809-11

Date Collected: 05/06/13 13:35
Matrix: Water
Date Received: 05/08/13 02:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	117873	05/10/13 12:49	CDC	TAL BUF
Total/NA	Prep	3535A			55307	05/09/13 09:28	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55323	05/09/13 15:27	RJH	TAL BUR

Client Sample ID: 17 Eldia Way

Lab Sample ID: 480-37809-13

Date Collected: 05/06/13 14:25
Matrix: Water
Date Received: 05/08/13 02:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	117873	05/10/13 13:38	CDC	TAL BUF
Total/NA	Prep	3535A			55307	05/09/13 09:28	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55323	05/09/13 15:43	RJH	TAL BUR

Client Sample ID: 75 Cestaro Way

Lab Sample ID: 480-37809-15

Date Collected: 05/06/13 12:00
Matrix: Water
Date Received: 05/08/13 02:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	117873	05/10/13 14:28	CDC	TAL BUF
Total/NA	Prep	3535A			55307	05/09/13 09:28	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55323	05/09/13 16:00	RJH	TAL BUR

Client Sample ID: 65 Deerfield Lane

Lab Sample ID: 480-37809-17

Date Collected: 05/06/13 12:40
Matrix: Water
Date Received: 05/08/13 02:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	117873	05/10/13 15:17	CDC	TAL BUF
Total/NA	Prep	3535A			55307	05/09/13 09:28	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55323	05/09/13 16:16	RJH	TAL BUR

Client Sample ID: 255 Alston Avenue

Lab Sample ID: 480-37809-19

Date Collected: 05/06/13 14:15
Matrix: Water
Date Received: 05/08/13 02:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535A			55307	05/09/13 09:28	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55323	05/09/13 16:32	RJH	TAL BUR

Client Sample ID: Trip Blank (Lot number 050113) — **Lab Sample ID: 480-37809-21**

Date Collected: 05/06/13 00:00 — **Matrix: Water**

Date Received: 05/08/13 02:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	117873	05/10/13 16:07	CDC	TAL BUF

Client Sample ID: Trip Blank (Lot number 050213) — **Lab Sample ID: 480-37809-22**

Date Collected: 05/06/13 00:00 — **Matrix: Water**

Date Received: 05/08/13 02:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535A			55307	05/09/13 09:28	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55364	05/10/13 10:56	RJH	TAL BUR

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Certification Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37809-1

Laboratory: TestAmerica Buffalo

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-13
California	NELAP	9	1169CA	09-30-13
Connecticut	State Program	1	PH-0568	09-30-14
Florida	NELAP	4	E87672	06-30-13
Georgia	State Program	4	N/A	03-31-14
Georgia	State Program	4	956	06-30-13
Georgia	State Program	4	956	03-31-14
Illinois	NELAP	5	200003	09-30-13
Iowa	State Program	7	374	03-15-15
Kansas	NELAP	7	E-10187	01-31-14
Kentucky	State Program	4	90029	12-31-13
Kentucky (UST)	State Program	4	30	04-01-14
Louisiana	NELAP	6	02031	06-30-13
Maine	State Program	1	NY00044	12-04-13
Maryland	State Program	3	294	03-31-14
Massachusetts	State Program	1	M-NY044	06-30-13
Michigan	State Program	5	9937	04-01-13 *
Minnesota	NELAP	5	036-999-337	12-31-13
New Hampshire	NELAP	1	2973	09-11-13
New Hampshire	NELAP	1	2337	11-17-13
New Jersey	NELAP	2	NY455	06-30-13
New York	NELAP	2	10026	04-01-14
North Dakota	State Program	8	R-176	03-31-14
Oklahoma	State Program	6	9421	08-31-13
Oregon	NELAP	10	NY200003	06-09-13
Pennsylvania	NELAP	3	68-00281	07-31-13
Rhode Island	State Program	1	LAO00328	12-31-13
Tennessee	State Program	4	TN02970	04-01-14
Texas	NELAP	6	T104704412-11-2	07-31-13
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAP	3	460185	09-14-13
Washington	State Program	10	C784	02-10-14
West Virginia DEP	State Program	3	252	09-30-13
Wisconsin	State Program	5	998310390	08-31-13

Laboratory: TestAmerica Burlington

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Connecticut	State Program	1	PH-0751	09-30-13
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-13-15
Florida	NELAP	4	E87467	06-30-13
L-A-B	DoD ELAP		L2336	10-26-13
Louisiana	NELAP	6	176292	06-30-13
Maine	State Program	1	VT00008	04-17-13 *
Minnesota	NELAP	5	050-999-436	12-31-13
New Hampshire	NELAP	1	2006	12-18-13
New Jersey	NELAP	2	VT972	06-30-13
New York	NELAP	2	10391	04-01-14
Pennsylvania	NELAP	3	68-00489	04-30-14

* Expired certification is currently pending renewal and is considered valid.

Certification Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37809-1

Laboratory: TestAmerica Burlington (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
USDA	Federal		P330-11-00093	02-17-14
Vermont	State Program	1	VT-4000	12-31-13
Virginia	NELAP	3	460209	12-14-13

Method Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37809-1

Method	Method Description	Protocol	Laboratory
524.2	Volatile Organic Compounds (GC/MS)	EPA-DW	TAL BUF
522 MOD	1,4 Dioxane (GC/MS SIM)	EPA	TAL BUR

Protocol References:

EPA = US Environmental Protection Agency

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37809-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-37809-1	25 Old Orchard Road	Water	05/06/13 09:45	05/08/13 02:00
480-37809-3	455 Schoolhouse Road	Water	05/06/13 10:40	05/08/13 02:00
480-37809-5	50 Cestaro Way	Water	05/06/13 11:15	05/08/13 02:00
480-37809-7	210 Schoolhouse Road	Water	05/06/13 12:10	05/08/13 02:00
480-37809-9	60 Deerfield Lane	Water	05/06/13 12:40	05/08/13 02:00
480-37809-11	280 Candlewood Drive	Water	05/06/13 13:35	05/08/13 02:00
480-37809-13	17 Eldia Way	Water	05/06/13 14:25	05/08/13 02:00
480-37809-15	75 Cestaro Way	Water	05/06/13 12:00	05/08/13 02:00
480-37809-17	65 Deerfield Lane	Water	05/06/13 12:40	05/08/13 02:00
480-37809-19	255 Alston Avenue	Water	05/06/13 14:15	05/08/13 02:00
480-37809-21	Trip Blank (Lot number 050113)	Water	05/06/13 00:00	05/08/13 02:00
480-37809-22	Trip Blank (Lot number 050213)	Water	05/06/13 00:00	05/08/13 02:00

TestAmerica Westfield
53 Southampton Road

Westfield, MA 01085
phone 413.572.4000 fax 413.572.3707

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other MA MCP

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: David Bennett	Site Contact:	Date: 5/6/13	COC No:
Bennett Environmental Associates, Inc.	Tel/Fax: 508-896-1706	Lab Contact:	Carrier:	1 of 2 COCs
Address P.O. Box 1743	Analysis Turnaround Time			For Lab Use Only:
City/State/Zip Brewster, MA 02631	Calendar (C) or Work Days (W) C			Walk-in Client:
(508) 896-1706 Phone	TAT if different from Below			Lab Sampling:
(508) 896-5109 FAX	☑ 2 weeks			
Project Name: Eastham Landfill	☐ 1 week			Job / SDG No.: BEA09-10104
Site: Residential Well Sampling	☐ 2 days			
P O # BEA09-10104	☐ 1 day			Sampler: JTW

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample (Y/N)	Composite = C / Grab = G	1,4-Dioxane via 522.1 Mod	VOCs via 524.2	Sample Specific Notes:
25 Old Orchard Road	5/6/13	9:45 AM	G	W	5	N	G	2	3	
25 Old Orchard Road Duplicate	5/6/13	9:45 AM	G	W	4	N	G	1	3	
455 Schoolhouse Road	5/6/13	10:40 AM	G	W	5	N	G	2	3	
455 Schoolhouse Road Duplicate	5/6/13	10:40 AM	G	W	4	N	G	1	3	
50 Cestaro Way	5/6/13	11:15 AM	G	W	5	N	G	2	3	
50 Cestaro Way Duplicate	5/6/13	11:15 AM	G	W	4	N	G	1	3	
210 Schoolhouse Road	5/6/13	12:10 PM	G	W	5	N	G	2	3	
210 Schoolhouse Road Duplicate	5/6/13	12:10 PM	G	W	4	N	G	1	3	
60 Deerfield Lane	5/6/13	12:40 PM	G	W	5	N	G	2	3	
60 Deerfield Lane Duplicate	5/6/13	12:40 PM	G	W	4	N	G	1	3	
280 Candlewood Drive	5/6/13	1:35 PM	G	W	5	N	G	2	3	
280 Candlewood Drive Duplicate	5/6/13	1:35 PM	G	W	4	N	G	1	3	
								1,2	1,2	

480-37809 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments: Please e-mail results to dbennett@bennett-ea.com

	Company	Date/Time		Company	Date/Time
Relinquished by:	BEA	5/6/13 3:30pm	Received by: BEA sample fridge		
Relinquished by:	BEA	5-7-13 1030	Received by:	TA	5-7-13 1050
Relinquished by:		5-7-13 1700	Received in Laboratory by:	TA	5-8-13 0300

Form No. CA-C-WI-002, Rev. 4, dated 10/25/2012

5.5 #1

5/14/2013

TestAmerica Westfield
53 Southampton Road

Westfield, MA 01085
phone 413.572.4000 fax 413.572.3707

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other MA MCP

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: David Bennett	Site Contact:	Date: 5/6/13	COC No:
Bennett Environmental Associates, Inc.	Tel/Fax: 508-896-1706	Lab Contact:	Carrier:	2 of 2 COCs
Address P.O. Box 1743	Analysis Turnaround Time			For Lab Use Only:
City/State/Zip Brewster, MA 02631	Calendar (C) or Work Days (W) C			Walk-in Client:
(508) 896-1706 Phone	TAT if different from Below			Lab Sampling:
(508) 896-5109 FAX	☑ 2 weeks			
Project Name: Eastham Landfill	☐ 1 week			Job / SDG No.: BEA09-10104
Site: Residential Well Sampling	☐ 2 days			
P O # BEA09-10104	☐ 1 day			Sampler: JTW

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample (Y / N)	Composite = C / Grab = G	1,4-Dioxane via 522.1 Mod	VOCs via 524.2	Sample Specific Notes:
17 Eldia Way	5/6/13	2:25 PM	G	W	5	N	G	2	3	
17 Eldia Way Duplicate	5/6/13	2:25 PM	G	W	4	N	G	1	3	
75 Cestaro Way	5/6/13	12:00 PM	G	W	5	N	G	2	3	
75 Cestaro Way Duplicate	5/6/13	12:00 PM	G	W	4	N	G	1	3	
65 Deerfield Lane	5/6/13	12:40 PM	G	W	5	N	G	2	3	
65 Deerfield Lane Duplicate	5/6/13	12:40 PM	G	W	4	N	G	1	3	
255 Alston Avenue	5/6/13	2:15 PM	G	W	2	N	G	2		
255 Alston Avenue Duplicate	5/6/13	2:15 PM	G	W	1	N	G	1		
Trip Blank (Lot number 050113)			G	W	3	N	G		3	
Trip Blank (Lot number 050213)			G	W	2	N	G	2		
								1,2	1,2	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments: Please e-mail results to dbennett@bennett-ea.com

	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	BEA	5/6/13 3:30pm	BEA sample fridge		
Relinquished by:	BEA	5-7-13 1030		TA	5-7-13 1030
Relinquished by:		5-7-13 1700	Received in Laboratory by:	TA Buff	5.7.13 0300

5.5 #1

Form No. CA-C-WI-002, Rev. 4, dated 10/25/2012

Login Sample Receipt Checklist

Client: Bennett Environmental Associates, Inc.

Job Number: 480-37809-1

Login Number: 37809

List Source: TestAmerica Buffalo

List Number: 1

Creator: Wienke, Robert

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	BEA
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	True	Lab to check

Login Sample Receipt Checklist

Client: Bennett Environmental Associates, Inc.

Job Number: 480-37809-1

Login Number: 37809
List Number: 1
Creator: Marion, Greg T

List Source: TestAmerica Burlington
List Creation: 05/08/13 01:51 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.2ºc ir gun id 181/cf=0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

							Sample ID	25 Old Orchard Road	455 Schoolhouse Road	50 Cestaro Way	210 Schoolhouse Road	60 Deerfield Lane	280 Candlewood Drive	17 Eldia Way	75 Cestaro Way	65 Deerfield Lane	255 Alston Avenue	Trip Blank (Lot number 050113)	Trip Blank (Lot number 050213)
							Sampled By												
							Sample Collection Date	05/06/2013 09:45	05/06/2013 10:40	05/06/2013 11:15	05/06/2013 12:10	05/06/2013 12:40	05/06/2013 13:35	05/06/2013 14:25	05/06/2013 12:00	05/06/2013 12:40	05/06/2013 14:15	05/06/2013 00:00	05/06/2013 00:00
							Laboratory Order Number	480-37809-1	480-37809-3	480-37809-5	480-37809-7	480-37809-9	480-37809-11	480-37809-13	480-37809-15	480-37809-17	480-37809-19	480-37809-21	480-37809-22
Parameter	**Reporting Units**	**GW1**	**GW2**	**RCGW1**	**RCGW2**	**DW MMCL**													
Volatiles by 524.2																			
1,1,1,2-Tetrachloroethane	ug/l	5	10	5	10	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
1,1,1-Trichloroethane	ug/l	200	4000	200	4000	200	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
1,1,2,2-Tetrachloroethane	ug/l	2	9	2	9	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
1,1,2-Trichloroethane	ug/l	5	900	5	900	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
1,1-Dichloroethane	ug/l	70	1000	70	1000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
1,1-Dichloroethene	ug/l	7	80	7	80	7	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
1,1-Dichloropropene	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
1,2,3-Trichlorobenzene	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
1,2,3-Trichloropropane	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
1,2,4-Trichlorobenzene	ug/l	70	2000	70	2000	70	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
1,2,4-Trimethylbenzene	ug/l	NA	NA	10000	100000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
1,2-Dibromo-3-Chloropropane	ug/l	NA	NA	100	1000	0.2	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**		**< 0.50**	
1,2-Dibromoethane	ug/l	0.02	2	0.02	2	0.02	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**		**< 0.50**	
1,2-Dichlorobenzene	ug/l	600	2000	600	2000	600	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
1,2-Dichloroethane	ug/l	5	5	5	5	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
1,2-Dichloropropane	ug/l	5	3	3	3	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
1,3,5-Trimethylbenzene	ug/l	NA	NA	100	1000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
1,3-Dichlorobenzene	ug/l	40	2000	40	2000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
1,3-Dichloropropane	ug/l	NA	NA	5000	50000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
1,4-Dichlorobenzene	ug/l	5	200	5	200	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
2,2-Dichloropropane	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
2-Butanone (MEK)	ug/l	4000	50000	4000	50000	NA	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5		< 2.5	
2-Chlorotoluene	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
4-Chlorotoluene	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
4-Isopropyltoluene	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
4-Methyl-2-pentanone (MIBK)	ug/l	350	50000	350	50000	NA	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5		< 2.5	
Acetone	ug/l	6300	50000	6300	50000	NA	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5		< 2.5	
Benzene	ug/l	5	2000	5	2000	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
Bromobenzene	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
Bromochloromethane	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
Bromoform	ug/l	4	700	4	700	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
Bromomethane	ug/l	10	7	7	7	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
Carbon tetrachloride	ug/l	5	2	2	2	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
Chlorobenzene	ug/l	100	200	100	200	100	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
Chlorodibromomethane	ug/l	2	20	2	20	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
Chloroethane	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
Chloroform	ug/l	70	50	50	50	NA	< 0.50	0.22J	0.63	< 0.50	0.45J	0.74	< 0.50	0.68	1.3		< 0.50	
Chloromethane	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
cis-1,2-Dichloroethene	ug/l	70	100	70	100	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
cis-1,3-Dichloropropene	ug/l	NA	NA	0.5	5	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
Dibromomethane	ug/l	NA	NA	5000	50000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
Dichlorobromomethane	ug/l	3	6	3	6	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
Dichlorodifluoromethane	ug/l	NA	NA	10000	100000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
Ethylbenzene	ug/l	700	20000	700	5000	700	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
Hexachlorobutadiene	ug/l	0.6	1	0.6	1	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
Isopropylbenzene	ug/l	NA	NA	10000	100000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
Methyl tert-butyl ether	ug/l	70	50000	70	5000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
Methylene Chloride	ug/l	5	10000	5	10000	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		0.43J	
m-Xylene & p-Xylene	ug/l	10000	9000	5000	5000	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	
Naphthalene	ug/l	140	1000	140	1000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
n-Butylbenzene	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
N-Propylbenzene	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
o-Xylene	ug/l	10000	9000	5000	5000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
Styrene	ug/l	100	100	100	100	100	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
t-Butanol	ug/l	NA	NA	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10		< 10	
tert-Butylbenzene	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
Tetrachloroethene	ug/l	5	50	5	50	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
Toluene	ug/l	1000	50000	1000	40000	1000	0.10J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
trans-1,2-Dichloroethene	ug/l	100	90	90	90	100	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
trans-1,3-Dichloropropene	ug/l	NA	NA	0.5	5	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
Trichloroethene	ug/l	5	30	5	30	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
Trichlorofluoromethane	ug/l	NA	NA	10000	100000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
Trihalomethanes, Total	ug/l	NA	NA	NA	NA	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	1.3J		< 2.0	
Vinyl chloride	ug/l	2	2	2	2	2	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	
Xylenes, Total	ug/l	10000	9000	5000	5000	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	
Semivolatiles by 522 MOD																			
1,4-Dioxane	ug/l	3	6000	3	6000	NA	0.064J	< 0.20	0.077J	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	1.8		< 0.20	

Notes:
ug/l - micrograms/liter
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
GW1 - Concentrations based on the use of groundwater as drinking water, either currently or in the foreseeable future.
GW2 - Concentrations based on the potential for volatile material to migrate into indoor air.
GW3 - Concentrations based on the potential environmental effects resulting from contaminated groundwater discharging to surface water.
RC - Risk Characterization approach, Standards may be supplemented or modified with site- and chemical-specific information.
UCL - Upper Concentration Limits in groundwater and soil are promulgated to minimize potential risks associated with uncontrolled environmental contamination, and the costs associated with cumulative anthropogenic contributions to background.

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as a row across sample columns, an intuitive analyte trending tool, auto-fill search functions and exports data into Excel, while keeping its original format.
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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-37809-2
Client Project/Site: Eastham Landfill IRA

For:
Bennett Environmental Associates, Inc.
1573 Main St.
Brewster, Massachusetts 02631

Attn: David Bennett

Authorized for release by:
5/21/2013 10:49:03 AM

Steve Hartmann, Lab Director
steve.hartmann@testamericainc.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-37809-2

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-37809-2

Comments
This is a stand alone report for Sample 255 Alston Avenue duplicate (480-37809-20) that was activated for analysis on 5/14/13. This analysis was originally on hold per client request.

Receipt
The samples were received on 5/8/2013 3:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.5° C.

GC/MS Semi VOA (522MOD)
No analytical or quality issues were noted.

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37809-2

Client Sample ID: 255 Alston Avenue Duplicate
Date Collected: 05/06/13 14:15
Date Received: 05/08/13 02:00

Lab Sample ID: 480-37809-20
Matrix: Water

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.5		0.20	0.041	ug/L		05/14/13 21:31	05/15/13 12:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*81*		*70 - 130*	*05/14/13 21:31*	*05/15/13 12:10*	*1*

Surrogate Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37809-2

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)								
		14DD8								
Lab Sample ID	Client Sample ID	(70-130)								
480-37809-20	255 Alston Avenue Duplicate	81								
LCS 200-55549/2-A	Lab Control Sample	83								
MB 200-55549/1-A	Method Blank	82								

Surrogate Legend

14DD8 = 1,4-Dioxane-d8 (Surr)

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37809-2

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Lab Sample ID: MB 200-55549/1-A
Matrix: Water
Analysis Batch: 55559

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 55549

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		05/14/13 21:31	05/15/13 11:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*82*		*70 - 130*	*05/14/13 21:31*	*05/15/13 11:54*	*1*

Lab Sample ID: LCS 200-55549/2-A
Matrix: Water
Analysis Batch: 55559

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 55549

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane			0.200	0.202		ug/L		101	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,4-Dioxane-d8 (Surr)	*83*		*70 - 130*

QC Association Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37809-2

GC/MS Semi VOA

Prep Batch: 55549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-37809-20	255 Alston Avenue Duplicate	Total/NA	Water	3535A	
LCS 200-55549/2-A	Lab Control Sample	Total/NA	Water	3535A	
MB 200-55549/1-A	Method Blank	Total/NA	Water	3535A	

Analysis Batch: 55559

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-37809-20	255 Alston Avenue Duplicate	Total/NA	Water	522 MOD	55549
LCS 200-55549/2-A	Lab Control Sample	Total/NA	Water	522 MOD	55549
MB 200-55549/1-A	Method Blank	Total/NA	Water	522 MOD	55549

Lab Chronicle

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37809-2

Client Sample ID: 255 Alston Avenue Duplicate

Lab Sample ID: 480-37809-20

Date Collected: 05/06/13 14:15

Matrix: Water

Date Received: 05/08/13 02:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535A			55549	05/14/13 21:31	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	55559	05/15/13 12:10	RJH	TAL BUR

Laboratory References:

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Certification Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37809-2

Laboratory: TestAmerica Buffalo

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-13
California	NELAP	9	1169CA	09-30-13
Connecticut	State Program	1	PH-0568	09-30-14
Florida	NELAP	4	E87672	06-30-13
Georgia	State Program	4	N/A	03-31-14
Georgia	State Program	4	956	06-30-13
Georgia	State Program	4	956	03-31-14
Illinois	NELAP	5	200003	09-30-13
Iowa	State Program	7	374	03-15-15
Kansas	NELAP	7	E-10187	01-31-14
Kentucky	State Program	4	90029	12-31-13
Kentucky (UST)	State Program	4	30	04-01-14
Louisiana	NELAP	6	02031	06-30-13
Maine	State Program	1	NY00044	12-04-13
Maryland	State Program	3	294	03-31-14
Massachusetts	State Program	1	M-NY044	06-30-13
Michigan	State Program	5	9937	04-01-13 *
Minnesota	NELAP	5	036-999-337	12-31-13
New Hampshire	NELAP	1	2973	09-11-13
New Hampshire	NELAP	1	2337	11-17-13
New Jersey	NELAP	2	NY455	06-30-13
New York	NELAP	2	10026	04-01-14
North Dakota	State Program	8	R-176	03-31-14
Oklahoma	State Program	6	9421	08-31-13
Oregon	NELAP	10	NY200003	06-09-13
Pennsylvania	NELAP	3	68-00281	07-31-13
Rhode Island	State Program	1	LAO00328	12-31-13
Tennessee	State Program	4	TN02970	04-01-14
Texas	NELAP	6	T104704412-11-2	07-31-13
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAP	3	460185	09-14-13
Washington	State Program	10	C784	02-10-14
West Virginia DEP	State Program	3	252	09-30-13
Wisconsin	State Program	5	998310390	08-31-13

Laboratory: TestAmerica Burlington

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Connecticut	State Program	1	PH-0751	09-30-13
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-13-15
Florida	NELAP	4	E87467	06-30-13
L-A-B	DoD ELAP		L2336	10-26-13
Louisiana	NELAP	6	176292	06-30-13
Minnesota	NELAP	5	050-999-436	12-31-13
New Hampshire	NELAP	1	2006	12-18-13
New Jersey	NELAP	2	VT972	06-30-13
New York	NELAP	2	10391	04-01-14
Pennsylvania	NELAP	3	68-00489	04-30-14
USDA	Federal		P330-11-00093	02-17-14

* Expired certification is currently pending renewal and is considered valid.

Certification Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37809-2

Laboratory: TestAmerica Burlington (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Vermont	State Program	1	VT-4000	12-31-13
Virginia	NELAP	3	460209	12-14-13

Method Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37809-2

Method	Method Description	Protocol	Laboratory
522 MOD	1,4 Dioxane (GC/MS SIM)	EPA	TAL BUR

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37809-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-37809-20	255 Alston Avenue Duplicate	Water	05/06/13 14:15	05/08/13 02:00

TestAmerica Westfield
53 Southampton Road

Westfield, MA 01085
phone 413.572.4000 fax 413.572.3707

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other MA MCP

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: David Bennett	Site Contact:	Date: 5/6/13	COC No:
Bennett Environmental Associates, Inc.	Tel/Fax: 508-896-1706	Lab Contact:	Carrier:	1 of 2 COCs
Address P.O. Box 1743	Analysis Turnaround Time			For Lab Use Only:
City/State/Zip Brewster, MA 02631	Calendar (C) or Work Days (W) C			Walk-in Client:
(508) 896-1706 Phone	TAT if different from Below			Lab Sampling:
(508) 896-5109 FAX	☑ 2 weeks			
Project Name: Eastham Landfill	☐ 1 week			Job / SDG No.: BEA09-10104
Site: Residential Well Sampling	☐ 2 days			
P O # BEA09-10104	☐ 1 day			Sampler: JTW

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample (Y/N)	Composite = C / Grab = G	1,4-Dioxane via 522.1 Mod	VOCs via 524.2	Sample Specific Notes:
25 Old Orchard Road	5/6/13	9:45 AM	G	W	5	N	G	2	3	
25 Old Orchard Road Duplicate	5/6/13	9:45 AM	G	W	4	N	G	1	3	
455 Schoolhouse Road	5/6/13	10:40 AM	G	W	5	N	G	2	3	
455 Schoolhouse Road Duplicate	5/6/13	10:40 AM	G	W	4	N	G	1	3	
50 Cestaro Way	5/6/13	11:15 AM	G	W	5	N	G	2	3	
50 Cestaro Way Duplicate	5/6/13	11:15 AM	G	W	4	N	G	1	3	
210 Schoolhouse Road	5/6/13	12:10 PM	G	W	5	N	G	2	3	
210 Schoolhouse Road Duplicate	5/6/13	12:10 PM	G	W	4	N	G	1	3	
60 Deerfield Lane	5/6/13	12:40 PM	G	W	5	N	G	2	3	
60 Deerfield Lane Duplicate	5/6/13	12:40 PM	G	W	4	N	G	1	3	
280 Candlewood Drive	5/6/13	1:35 PM	G	W	5	N	G	2	3	
280 Candlewood Drive Duplicate	5/6/13	1:35 PM	G	W	4	N	G	1	3	
								1,2	1,2	

480-37809 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments: Please e-mail results to dbennett@bennett-ea.com

	Company	Date/Time		Company	Date/Time
Relinquished by:	BEA	5/6/13 3:30pm	Received by: BEA sample fridge		
Relinquished by:	BEA	5-7-13 1030	Received by:	TA	5-7-13 1050
Relinquished by:		5-7-13 1700	Received in Laboratory by:	TA	5-8-13 0300

Form No. CA-C-WI-002, Rev. 4, dated 10/25/2012

5.5 #1

TestAmerica Westfield
53 Southampton Road

Westfield, MA 01085
phone 413.572.4000 fax 413.572.3707

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other MA MCP

Client Contact	Project Manager: David Bennett	Site Contact:	Date: 5/6/13	COC No:
Bennett Environmental Associates, Inc.	Tel/Fax: 508-896-1706	Lab Contact:	Carrier:	2 of 2 COCs
Address P.O. Box 1743	Analysis Turnaround Time			For Lab Use Only:
City/State/Zip Brewster, MA 02631	Calendar (C) or Work Days (W) C			Walk-in Client:
(508) 896-1706 Phone	TAT if different from Below			Lab Sampling:
(508) 896-5109 FAX	☑ 2 weeks			
Project Name: Eastham Landfill	☐ 1 week			Job / SDG No.: BEA09-10104
Site: Residential Well Sampling	☐ 2 days			
P O # BEA09-10104	☐ 1 day			Sampler: JTW

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample (Y / N)	Composite = C / Grab = G	1,4-Dioxane via 522.1 Mod	VOCs via 524.2	Sample Specific Notes:
17 Eldia Way	5/6/13	2:25 PM	G	W	5	N	G	2	3	
17 Eldia Way Duplicate	5/6/13	2:25 PM	G	W	4	N	G	1	3	
75 Cestaro Way	5/6/13	12:00 PM	G	W	5	N	G	2	3	
75 Cestaro Way Duplicate	5/6/13	12:00 PM	G	W	4	N	G	1	3	
65 Deerfield Lane	5/6/13	12:40 PM	G	W	5	N	G	2	3	
65 Deerfield Lane Duplicate	5/6/13	12:40 PM	G	W	4	N	G	1	3	
255 Alston Avenue	5/6/13	2:15 PM	G	W	2	N	G	2		
255 Alston Avenue Duplicate	5/6/13	2:15 PM	G	W	1	N	G	1		
Trip Blank (Lot number 050113)			G	W	3	N	G		3	
Trip Blank (Lot number 050213)			G	W	2	N	G	2		
								1,2	1,2	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments: Please e-mail results to dbennett@bennett-ea.com

	Company	Date/Time		Company	Date/Time
Relinquished by:	BEA	5/6/13 3:30pm	Received by: BEA sample fridge		
Relinquished by:	BEA	5-7-13 1030	Received by:	TA	5-7-13 1030
Relinquished by:		5-7-13 1700	Received in Laboratory by:	TA BLUE	5.7.13 0300

5.5 #1

Form No. CA-C-WI-002, Rev. 4, dated 10/25/2012

5/21/2013

Login Sample Receipt Checklist

Client: Bennett Environmental Associates, Inc.

Job Number: 480-37809-2

Login Number: 37809

List Source: TestAmerica Buffalo

List Number: 1

Creator: Wienke, Robert

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	BEA
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	True	Lab to check

Login Sample Receipt Checklist

Client: Bennett Environmental Associates, Inc.

Job Number: 480-37809-2

Login Number: 37809
List Number: 1
Creator: Marion, Greg T

List Source: TestAmerica Burlington
List Creation: 05/08/13 01:51 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.2ºc ir gun id 181/cf=0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

						Sample ID	255 Alston Avenue Duplicate
						Sampled By	
						Sample Collection Date	05/06/2013 14:15
						Laboratory Order Number	480-37809-20
Parameter	**Reporting Units**	**GW1**	**GW2**	**RCGW1**	**RCGW2**	**DW MMCL**	
Semivolatiles by 522 MOD							
1,4-Dioxane	ug/l	3	6000	3	6000	NA	1.5

Notes:
ug/l - micrograms/liter
GW1 - Concentrations based on the use of groundwater as drinking water, either currently or in the foreseeable future.
GW2 - Concentrations based on the potential for volatile material to migrate into indoor air.
GW3 - Concentrations based on the potential environmental effects resulting from contaminated groundwater discharging to surface water.
RC - Risk Characterization approach, Standards may be supplemented or modified with site- and chemical-specific information.
UCL - Upper Concentration Limits in groundwater and soil are promulgated to minimize potential risks associated with uncontrolled environmental contamination, and the costs associated with cumulative anth

TestAmerica's TotalAccess, is our online data management tool. Features include, a cross-tab view displaying each analyte
as a row across sample columns, an intuitive analyte trending tool, auto-fill search functions and exports data into Excel, while keeping its original format.
Other features include a redesign and simplification in selecting regulatory limits, Work Order and Results page layout redesign, and available data columns in the Results and Budgets pages.
The regulatory comparison tool allows users to compare their analytical data against a number of regulatory compound lists and associated limits.
This feature now encompasses over 786 regulatory lists from 34 States and the U.S. EPA, covering 91,529 individual analyte comparison limits.
The benefits of TotalAccess are offered free of charge to all TestAmerica clients, Clients can sign up for TotalAccess
on the TestAmerica home page at www.testamericainc.com.

More information @ http://www.mass.gov/dep/cleanup/laws/standard.htm

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-37941-1
Client Project/Site: Eastham Landfill IRA

For:
Bennett Environmental Associates, Inc.
1573 Main St.
Brewster, Massachusetts 02631

Attn: David Bennett

Authorized for release by:
5/17/2013 12:21:19 PM

Steve Hartmann, Lab Director
steve.hartmann@testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

LINKS

Review your project results through TotalAccess

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Visit us at: www.testamericainc.com

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Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37941-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-37941-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-37941-1

Receipt
The samples were received on 5/9/2013 3:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.7º C.

GC/MS VOA
Method(s) 524.2: The continuing calibration verification (CCV) for 2-Methyl-2-propanol associated with batch 118036 recovered above the upper control limit. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method(s) 524.2: The laboratory control sample (LCS) for batch 118036 recovered outside control limits for the following analyte: Acetone. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

No other analytical or quality issues were noted.

GC/MS Semi VOA (522MOD)
No analytical or quality issues were noted.

Detection Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37941-1

Client Sample ID: 390 Old Orchard Rd. — Lab Sample ID: 480-37941-1

No Detections.

Client Sample ID: 400 Old Orchard Rd. — Lab Sample ID: 480-37941-3

No Detections.

Client Sample ID: 390 Schoolhouse Rd. — Lab Sample ID: 480-37941-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.20	J	0.50	0.14	ug/L	1		524.2	Total/NA

Client Sample ID: 9 Whidah Ln. — Lab Sample ID: 480-37941-7

No Detections.

Client Sample ID: 30 Chokeberry Dr. — Lab Sample ID: 480-37941-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.27	J	0.50	0.14	ug/L	1		524.2	Total/NA
1,4-Dioxane	0.17	J	0.20	0.041	ug/L	1		522 MOD	Total/NA

Client Sample ID: 25 Fairview Ave. — Lab Sample ID: 480-37941-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.33	J	0.50	0.14	ug/L	1		524.2	Total/NA
1,4-Dioxane	0.041	J	0.20	0.041	ug/L	1		522 MOD	Total/NA

Client Sample ID: 20 Fairview Ave. — Lab Sample ID: 480-37941-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.17	J	0.50	0.14	ug/L	1		524.2	Total/NA
1,4-Dioxane	0.093	J	0.20	0.041	ug/L	1		522 MOD	Total/NA

Client Sample ID: 250 Candlewood Dr. — Lab Sample ID: 480-37941-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.63		0.50	0.14	ug/L	1		524.2	Total/NA

Client Sample ID: 20 Starlight Ln. — Lab Sample ID: 480-37941-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.16	J	0.50	0.14	ug/L	1		524.2	Total/NA
Methyl tert-butyl ether	0.33	J	0.50	0.12	ug/L	1		524.2	Total/NA

Client Sample ID: Trip Blank (lot number 050113) — Lab Sample ID: 480-37941-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.46	J	0.50	0.25	ug/L	1		524.2	Total/NA

Client Sample ID: Trip Blank (lot number 050213) — Lab Sample ID: 480-37941-20

This Detection Summary does not include radiochemical test results.

Client Sample ID: Trip Blank (lot number 050213) (Continued)

Lab Sample ID: 480-37941-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.064	J	0.20	0.041	ug/L	1		522 MOD	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37941-1

Client Sample ID: 390 Old Orchard Rd.
Date Collected: 05/07/13 09:30
Date Received: 05/09/13 03:00

Lab Sample ID: 480-37941-1
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/10/13 16:31	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/10/13 16:31	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/10/13 16:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/10/13 16:31	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/10/13 16:31	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/10/13 16:31	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/10/13 16:31	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/10/13 16:31	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/10/13 16:31	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/10/13 16:31	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/10/13 16:31	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/10/13 16:31	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/10/13 16:31	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/10/13 16:31	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/10/13 16:31	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/10/13 16:31	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/10/13 16:31	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/10/13 16:31	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/10/13 16:31	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/10/13 16:31	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/10/13 16:31	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/10/13 16:31	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/10/13 16:31	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/10/13 16:31	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/10/13 16:31	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/10/13 16:31	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/10/13 16:31	1
Acetone	ND		2.5	0.54	ug/L			05/10/13 16:31	1
Benzene	ND		0.50	0.13	ug/L			05/10/13 16:31	1
Bromobenzene	ND		0.50	0.13	ug/L			05/10/13 16:31	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/10/13 16:31	1
Bromoform	ND		0.50	0.13	ug/L			05/10/13 16:31	1
Bromomethane	ND		0.50	0.051	ug/L			05/10/13 16:31	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/10/13 16:31	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/10/13 16:31	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/10/13 16:31	1
Chloroethane	ND		0.50	0.070	ug/L			05/10/13 16:31	1
Chloroform	ND		0.50	0.14	ug/L			05/10/13 16:31	1
Chloromethane	ND		0.50	0.063	ug/L			05/10/13 16:31	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/10/13 16:31	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/10/13 16:31	1
Dibromomethane	ND		0.50	0.17	ug/L			05/10/13 16:31	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/10/13 16:31	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/10/13 16:31	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/10/13 16:31	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/10/13 16:31	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/10/13 16:31	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/10/13 16:31	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/10/13 16:31	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37941-1

Client Sample ID: 390 Old Orchard Rd.

Lab Sample ID: 480-37941-1

Date Collected: 05/07/13 09:30

Matrix: Water

Date Received: 05/09/13 03:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/10/13 16:31	1
Naphthalene	ND		0.50	0.060	ug/L			05/10/13 16:31	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/10/13 16:31	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/10/13 16:31	1
o-Xylene	ND		0.50	0.044	ug/L			05/10/13 16:31	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/10/13 16:31	1
Styrene	ND		0.50	0.044	ug/L			05/10/13 16:31	1
t-Butanol	ND		10	2.5	ug/L			05/10/13 16:31	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/10/13 16:31	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/10/13 16:31	1
Toluene	ND		0.50	0.10	ug/L			05/10/13 16:31	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/10/13 16:31	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/10/13 16:31	1
Trichloroethene	ND		0.50	0.060	ug/L			05/10/13 16:31	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/10/13 16:31	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/10/13 16:31	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/10/13 16:31	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/10/13 16:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*106*		*80 - 120*		*05/10/13 16:31*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*05/10/13 16:31*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		05/11/13 13:36	05/13/13 15:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*74*		*70 - 130*	*05/11/13 13:36*	*05/13/13 15:18*	*1*

Client Sample ID: 400 Old Orchard Rd.

Lab Sample ID: 480-37941-3

Date Collected: 05/07/13 10:00

Matrix: Water

Date Received: 05/09/13 03:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/10/13 17:20	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/10/13 17:20	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/10/13 17:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/10/13 17:20	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/10/13 17:20	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/10/13 17:20	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/10/13 17:20	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/10/13 17:20	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/10/13 17:20	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/10/13 17:20	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/10/13 17:20	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/10/13 17:20	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/10/13 17:20	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/10/13 17:20	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37941-1

Client Sample ID: 400 Old Orchard Rd.
Date Collected: 05/07/13 10:00
Date Received: 05/09/13 03:00

Lab Sample ID: 480-37941-3
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/10/13 17:20	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/10/13 17:20	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/10/13 17:20	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/10/13 17:20	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/10/13 17:20	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/10/13 17:20	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/10/13 17:20	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/10/13 17:20	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/10/13 17:20	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/10/13 17:20	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/10/13 17:20	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/10/13 17:20	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/10/13 17:20	1
Acetone	ND		2.5	0.54	ug/L			05/10/13 17:20	1
Benzene	ND		0.50	0.13	ug/L			05/10/13 17:20	1
Bromobenzene	ND		0.50	0.13	ug/L			05/10/13 17:20	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/10/13 17:20	1
Bromoform	ND		0.50	0.13	ug/L			05/10/13 17:20	1
Bromomethane	ND		0.50	0.051	ug/L			05/10/13 17:20	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/10/13 17:20	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/10/13 17:20	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/10/13 17:20	1
Chloroethane	ND		0.50	0.070	ug/L			05/10/13 17:20	1
Chloroform	ND		0.50	0.14	ug/L			05/10/13 17:20	1
Chloromethane	ND		0.50	0.063	ug/L			05/10/13 17:20	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/10/13 17:20	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/10/13 17:20	1
Dibromomethane	ND		0.50	0.17	ug/L			05/10/13 17:20	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/10/13 17:20	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/10/13 17:20	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/10/13 17:20	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/10/13 17:20	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/10/13 17:20	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/10/13 17:20	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/10/13 17:20	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/10/13 17:20	1
Naphthalene	ND		0.50	0.060	ug/L			05/10/13 17:20	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/10/13 17:20	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/10/13 17:20	1
o-Xylene	ND		0.50	0.044	ug/L			05/10/13 17:20	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/10/13 17:20	1
Styrene	ND		0.50	0.044	ug/L			05/10/13 17:20	1
t-Butanol	ND		10	2.5	ug/L			05/10/13 17:20	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/10/13 17:20	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/10/13 17:20	1
Toluene	ND		0.50	0.10	ug/L			05/10/13 17:20	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/10/13 17:20	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/10/13 17:20	1
Trichloroethene	ND		0.50	0.060	ug/L			05/10/13 17:20	1

Client Sample ID: 400 Old Orchard Rd.

Lab Sample ID: 480-37941-3

Date Collected: 05/07/13 10:00

Matrix: Water

Date Received: 05/09/13 03:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/10/13 17:20	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/10/13 17:20	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/10/13 17:20	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/10/13 17:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*106*		*80 - 120*		*05/10/13 17:20*	*1*
4-Bromofluorobenzene (Surr)	*120*		*80 - 120*		*05/10/13 17:20*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		05/11/13 13:36	05/13/13 15:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*90*		*70 - 130*	*05/11/13 13:36*	*05/13/13 15:34*	*1*

Client Sample ID: 390 Schoolhouse Rd.

Lab Sample ID: 480-37941-5

Date Collected: 05/07/13 10:35

Matrix: Water

Date Received: 05/09/13 03:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/10/13 18:09	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/10/13 18:09	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/10/13 18:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/10/13 18:09	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/10/13 18:09	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/10/13 18:09	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/10/13 18:09	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/10/13 18:09	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/10/13 18:09	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/10/13 18:09	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/10/13 18:09	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/10/13 18:09	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/10/13 18:09	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/10/13 18:09	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/10/13 18:09	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/10/13 18:09	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/10/13 18:09	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/10/13 18:09	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/10/13 18:09	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/10/13 18:09	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/10/13 18:09	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/10/13 18:09	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/10/13 18:09	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/10/13 18:09	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/10/13 18:09	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/10/13 18:09	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/10/13 18:09	1
Acetone	ND		2.5	0.54	ug/L			05/10/13 18:09	1

Client Sample ID: 390 Schoolhouse Rd.
Date Collected: 05/07/13 10:35
Date Received: 05/09/13 03:00

Lab Sample ID: 480-37941-5
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.13	ug/L			05/10/13 18:09	1
Bromobenzene	ND		0.50	0.13	ug/L			05/10/13 18:09	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/10/13 18:09	1
Bromoform	ND		0.50	0.13	ug/L			05/10/13 18:09	1
Bromomethane	ND		0.50	0.051	ug/L			05/10/13 18:09	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/10/13 18:09	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/10/13 18:09	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/10/13 18:09	1
Chloroethane	ND		0.50	0.070	ug/L			05/10/13 18:09	1
Chloroform	**0.20**	**J**	0.50	0.14	ug/L			05/10/13 18:09	1
Chloromethane	ND		0.50	0.063	ug/L			05/10/13 18:09	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/10/13 18:09	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/10/13 18:09	1
Dibromomethane	ND		0.50	0.17	ug/L			05/10/13 18:09	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/10/13 18:09	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/10/13 18:09	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/10/13 18:09	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/10/13 18:09	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/10/13 18:09	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/10/13 18:09	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/10/13 18:09	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/10/13 18:09	1
Naphthalene	ND		0.50	0.060	ug/L			05/10/13 18:09	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/10/13 18:09	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/10/13 18:09	1
o-Xylene	ND		0.50	0.044	ug/L			05/10/13 18:09	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/10/13 18:09	1
Styrene	ND		0.50	0.044	ug/L			05/10/13 18:09	1
t-Butanol	ND		10	2.5	ug/L			05/10/13 18:09	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/10/13 18:09	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/10/13 18:09	1
Toluene	ND		0.50	0.10	ug/L			05/10/13 18:09	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/10/13 18:09	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/10/13 18:09	1
Trichloroethene	ND		0.50	0.060	ug/L			05/10/13 18:09	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/10/13 18:09	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/10/13 18:09	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/10/13 18:09	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/10/13 18:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*107*		*80 - 120*		*05/10/13 18:09*	*1*
4-Bromofluorobenzene (Surr)	*84*		*80 - 120*		*05/10/13 18:09*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		05/11/13 13:36	05/13/13 15:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*79*		*70 - 130*	*05/11/13 13:36*	*05/13/13 15:50*	*1*

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37941-1

Client Sample ID: 9 Whidah Ln.
Date Collected: 05/07/13 11:10
Date Received: 05/09/13 03:00

Lab Sample ID: 480-37941-7
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/10/13 18:57	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/10/13 18:57	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/10/13 18:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/10/13 18:57	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/10/13 18:57	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/10/13 18:57	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/10/13 18:57	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/10/13 18:57	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/10/13 18:57	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/10/13 18:57	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/10/13 18:57	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/10/13 18:57	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/10/13 18:57	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/10/13 18:57	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/10/13 18:57	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/10/13 18:57	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/10/13 18:57	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/10/13 18:57	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/10/13 18:57	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/10/13 18:57	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/10/13 18:57	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/10/13 18:57	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/10/13 18:57	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/10/13 18:57	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/10/13 18:57	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/10/13 18:57	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/10/13 18:57	1
Acetone	ND		2.5	0.54	ug/L			05/10/13 18:57	1
Benzene	ND		0.50	0.13	ug/L			05/10/13 18:57	1
Bromobenzene	ND		0.50	0.13	ug/L			05/10/13 18:57	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/10/13 18:57	1
Bromoform	ND		0.50	0.13	ug/L			05/10/13 18:57	1
Bromomethane	ND		0.50	0.051	ug/L			05/10/13 18:57	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/10/13 18:57	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/10/13 18:57	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/10/13 18:57	1
Chloroethane	ND		0.50	0.070	ug/L			05/10/13 18:57	1
Chloroform	ND		0.50	0.14	ug/L			05/10/13 18:57	1
Chloromethane	ND		0.50	0.063	ug/L			05/10/13 18:57	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/10/13 18:57	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/10/13 18:57	1
Dibromomethane	ND		0.50	0.17	ug/L			05/10/13 18:57	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/10/13 18:57	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/10/13 18:57	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/10/13 18:57	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/10/13 18:57	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/10/13 18:57	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/10/13 18:57	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/10/13 18:57	1

Client Sample ID: 9 Whidah Ln.

Lab Sample ID: 480-37941-7

Date Collected: 05/07/13 11:10

Matrix: Water

Date Received: 05/09/13 03:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/10/13 18:57	1
Naphthalene	ND		0.50	0.060	ug/L			05/10/13 18:57	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/10/13 18:57	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/10/13 18:57	1
o-Xylene	ND		0.50	0.044	ug/L			05/10/13 18:57	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/10/13 18:57	1
Styrene	ND		0.50	0.044	ug/L			05/10/13 18:57	1
t-Butanol	ND		10	2.5	ug/L			05/10/13 18:57	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/10/13 18:57	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/10/13 18:57	1
Toluene	ND		0.50	0.10	ug/L			05/10/13 18:57	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/10/13 18:57	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/10/13 18:57	1
Trichloroethene	ND		0.50	0.060	ug/L			05/10/13 18:57	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/10/13 18:57	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/10/13 18:57	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/10/13 18:57	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/10/13 18:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*100*		*80 - 120*		*05/10/13 18:57*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*05/10/13 18:57*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		05/11/13 13:36	05/13/13 16:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*79*		*70 - 130*	*05/11/13 13:36*	*05/13/13 16:07*	*1*

Client Sample ID: 30 Chokeberry Dr.

Lab Sample ID: 480-37941-9

Date Collected: 05/07/13 12:05

Matrix: Water

Date Received: 05/09/13 03:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/10/13 22:22	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/10/13 22:22	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/10/13 22:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/10/13 22:22	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/10/13 22:22	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/10/13 22:22	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/10/13 22:22	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/10/13 22:22	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/10/13 22:22	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/10/13 22:22	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/10/13 22:22	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/10/13 22:22	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/10/13 22:22	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/10/13 22:22	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37941-1

Client Sample ID: 30 Chokeberry Dr.
Date Collected: 05/07/13 12:05
Date Received: 05/09/13 03:00

Lab Sample ID: 480-37941-9
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/10/13 22:22	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/10/13 22:22	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/10/13 22:22	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/10/13 22:22	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/10/13 22:22	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/10/13 22:22	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/10/13 22:22	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/10/13 22:22	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/10/13 22:22	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/10/13 22:22	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/10/13 22:22	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/10/13 22:22	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/10/13 22:22	1
Acetone	ND	*	2.5	0.54	ug/L			05/10/13 22:22	1
Benzene	ND		0.50	0.13	ug/L			05/10/13 22:22	1
Bromobenzene	ND		0.50	0.13	ug/L			05/10/13 22:22	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/10/13 22:22	1
Bromoform	ND		0.50	0.13	ug/L			05/10/13 22:22	1
Bromomethane	ND		0.50	0.051	ug/L			05/10/13 22:22	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/10/13 22:22	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/10/13 22:22	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/10/13 22:22	1
Chloroethane	ND		0.50	0.070	ug/L			05/10/13 22:22	1
Chloroform	**0.27**	**J**	0.50	0.14	ug/L			05/10/13 22:22	1
Chloromethane	ND		0.50	0.063	ug/L			05/10/13 22:22	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/10/13 22:22	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/10/13 22:22	1
Dibromomethane	ND		0.50	0.17	ug/L			05/10/13 22:22	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/10/13 22:22	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/10/13 22:22	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/10/13 22:22	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/10/13 22:22	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/10/13 22:22	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/10/13 22:22	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/10/13 22:22	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/10/13 22:22	1
Naphthalene	ND		0.50	0.060	ug/L			05/10/13 22:22	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/10/13 22:22	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/10/13 22:22	1
o-Xylene	ND		0.50	0.044	ug/L			05/10/13 22:22	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/10/13 22:22	1
Styrene	ND		0.50	0.044	ug/L			05/10/13 22:22	1
t-Butanol	ND		10	2.5	ug/L			05/10/13 22:22	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/10/13 22:22	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/10/13 22:22	1
Toluene	ND		0.50	0.10	ug/L			05/10/13 22:22	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/10/13 22:22	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/10/13 22:22	1
Trichloroethene	ND		0.50	0.060	ug/L			05/10/13 22:22	1

Client Sample ID: 30 Chokeberry Dr.

Lab Sample ID: 480-37941-9

Date Collected: 05/07/13 12:05

Matrix: Water

Date Received: 05/09/13 03:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/10/13 22:22	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/10/13 22:22	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/10/13 22:22	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/10/13 22:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*103*		*80 - 120*		*05/10/13 22:22*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*05/10/13 22:22*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**0.17**	**J**	0.20	0.041	ug/L		05/11/13 13:36	05/13/13 16:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*72*		*70 - 130*	*05/11/13 13:36*	*05/13/13 16:23*	*1*

Client Sample ID: 25 Fairview Ave.

Lab Sample ID: 480-37941-11

Date Collected: 05/07/13 12:50

Matrix: Water

Date Received: 05/09/13 03:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/10/13 23:10	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/10/13 23:10	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/10/13 23:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/10/13 23:10	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/10/13 23:10	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/10/13 23:10	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/10/13 23:10	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/10/13 23:10	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/10/13 23:10	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/10/13 23:10	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/10/13 23:10	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/10/13 23:10	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/10/13 23:10	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/10/13 23:10	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/10/13 23:10	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/10/13 23:10	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/10/13 23:10	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/10/13 23:10	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/10/13 23:10	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/10/13 23:10	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/10/13 23:10	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/10/13 23:10	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/10/13 23:10	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/10/13 23:10	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/10/13 23:10	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/10/13 23:10	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/10/13 23:10	1
Acetone	ND	*	2.5	0.54	ug/L			05/10/13 23:10	1

Client Sample ID: 25 Fairview Ave.
Date Collected: 05/07/13 12:50
Date Received: 05/09/13 03:00

Lab Sample ID: 480-37941-11
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.13	ug/L			05/10/13 23:10	1
Bromobenzene	ND		0.50	0.13	ug/L			05/10/13 23:10	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/10/13 23:10	1
Bromoform	ND		0.50	0.13	ug/L			05/10/13 23:10	1
Bromomethane	ND		0.50	0.051	ug/L			05/10/13 23:10	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/10/13 23:10	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/10/13 23:10	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/10/13 23:10	1
Chloroethane	ND		0.50	0.070	ug/L			05/10/13 23:10	1
Chloroform	**0.33**	**J**	0.50	0.14	ug/L			05/10/13 23:10	1
Chloromethane	ND		0.50	0.063	ug/L			05/10/13 23:10	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/10/13 23:10	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/10/13 23:10	1
Dibromomethane	ND		0.50	0.17	ug/L			05/10/13 23:10	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/10/13 23:10	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/10/13 23:10	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/10/13 23:10	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/10/13 23:10	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/10/13 23:10	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/10/13 23:10	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/10/13 23:10	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/10/13 23:10	1
Naphthalene	ND		0.50	0.060	ug/L			05/10/13 23:10	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/10/13 23:10	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/10/13 23:10	1
o-Xylene	ND		0.50	0.044	ug/L			05/10/13 23:10	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/10/13 23:10	1
Styrene	ND		0.50	0.044	ug/L			05/10/13 23:10	1
t-Butanol	ND		10	2.5	ug/L			05/10/13 23:10	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/10/13 23:10	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/10/13 23:10	1
Toluene	ND		0.50	0.10	ug/L			05/10/13 23:10	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/10/13 23:10	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/10/13 23:10	1
Trichloroethene	ND		0.50	0.060	ug/L			05/10/13 23:10	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/10/13 23:10	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/10/13 23:10	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/10/13 23:10	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/10/13 23:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*104*		*80 - 120*		*05/10/13 23:10*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*05/10/13 23:10*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**0.041**	**J**	0.20	0.041	ug/L		05/11/13 13:36	05/13/13 16:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*80*		*70 - 130*	*05/11/13 13:36*	*05/13/13 16:39*	*1*

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37941-1

Client Sample ID: 20 Fairview Ave.
Date Collected: 05/07/13 13:30
Date Received: 05/09/13 03:00

Lab Sample ID: 480-37941-13
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/11/13 00:00	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/11/13 00:00	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/11/13 00:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/11/13 00:00	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/11/13 00:00	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/11/13 00:00	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/11/13 00:00	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/11/13 00:00	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/11/13 00:00	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/11/13 00:00	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/11/13 00:00	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/11/13 00:00	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/11/13 00:00	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/11/13 00:00	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/11/13 00:00	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/11/13 00:00	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/11/13 00:00	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/11/13 00:00	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/11/13 00:00	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/11/13 00:00	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/11/13 00:00	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/11/13 00:00	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/11/13 00:00	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/11/13 00:00	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/11/13 00:00	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/11/13 00:00	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/11/13 00:00	1
Acetone	ND	*	2.5	0.54	ug/L			05/11/13 00:00	1
Benzene	ND		0.50	0.13	ug/L			05/11/13 00:00	1
Bromobenzene	ND		0.50	0.13	ug/L			05/11/13 00:00	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/11/13 00:00	1
Bromoform	ND		0.50	0.13	ug/L			05/11/13 00:00	1
Bromomethane	ND		0.50	0.051	ug/L			05/11/13 00:00	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/11/13 00:00	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/11/13 00:00	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/11/13 00:00	1
Chloroethane	ND		0.50	0.070	ug/L			05/11/13 00:00	1
Chloroform	**0.17**	**J**	0.50	0.14	ug/L			05/11/13 00:00	1
Chloromethane	ND		0.50	0.063	ug/L			05/11/13 00:00	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/11/13 00:00	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/11/13 00:00	1
Dibromomethane	ND		0.50	0.17	ug/L			05/11/13 00:00	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/11/13 00:00	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/11/13 00:00	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/11/13 00:00	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/11/13 00:00	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/11/13 00:00	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/11/13 00:00	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/11/13 00:00	1

Client Sample ID: 20 Fairview Ave.
Date Collected: 05/07/13 13:30
Date Received: 05/09/13 03:00

Lab Sample ID: 480-37941-13
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/11/13 00:00	1
Naphthalene	ND		0.50	0.060	ug/L			05/11/13 00:00	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/11/13 00:00	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/11/13 00:00	1
o-Xylene	ND		0.50	0.044	ug/L			05/11/13 00:00	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/11/13 00:00	1
Styrene	ND		0.50	0.044	ug/L			05/11/13 00:00	1
t-Butanol	ND		10	2.5	ug/L			05/11/13 00:00	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/11/13 00:00	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/11/13 00:00	1
Toluene	ND		0.50	0.10	ug/L			05/11/13 00:00	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/11/13 00:00	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/11/13 00:00	1
Trichloroethene	ND		0.50	0.060	ug/L			05/11/13 00:00	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/11/13 00:00	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/11/13 00:00	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/11/13 00:00	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/11/13 00:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*105*		*80 - 120*		*05/11/13 00:00*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*05/11/13 00:00*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**0.093**	**J**	0.20	0.041	ug/L		05/11/13 13:36	05/13/13 16:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*88*		*70 - 130*	*05/11/13 13:36*	*05/13/13 16:56*	*1*

Client Sample ID: 250 Candlewood Dr.
Date Collected: 05/07/13 14:15
Date Received: 05/09/13 03:00

Lab Sample ID: 480-37941-15
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/11/13 00:49	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/11/13 00:49	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/11/13 00:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/11/13 00:49	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/11/13 00:49	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/11/13 00:49	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/11/13 00:49	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/11/13 00:49	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/11/13 00:49	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/11/13 00:49	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/11/13 00:49	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/11/13 00:49	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/11/13 00:49	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/11/13 00:49	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37941-1

Client Sample ID: 250 Candlewood Dr.
Date Collected: 05/07/13 14:15
Date Received: 05/09/13 03:00

Lab Sample ID: 480-37941-15
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/11/13 00:49	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/11/13 00:49	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/11/13 00:49	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/11/13 00:49	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/11/13 00:49	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/11/13 00:49	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/11/13 00:49	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/11/13 00:49	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/11/13 00:49	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/11/13 00:49	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/11/13 00:49	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/11/13 00:49	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/11/13 00:49	1
Acetone	ND	*	2.5	0.54	ug/L			05/11/13 00:49	1
Benzene	ND		0.50	0.13	ug/L			05/11/13 00:49	1
Bromobenzene	ND		0.50	0.13	ug/L			05/11/13 00:49	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/11/13 00:49	1
Bromoform	ND		0.50	0.13	ug/L			05/11/13 00:49	1
Bromomethane	ND		0.50	0.051	ug/L			05/11/13 00:49	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/11/13 00:49	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/11/13 00:49	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/11/13 00:49	1
Chloroethane	ND		0.50	0.070	ug/L			05/11/13 00:49	1
Chloroform	**0.63**		0.50	0.14	ug/L			05/11/13 00:49	1
Chloromethane	ND		0.50	0.063	ug/L			05/11/13 00:49	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/11/13 00:49	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/11/13 00:49	1
Dibromomethane	ND		0.50	0.17	ug/L			05/11/13 00:49	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/11/13 00:49	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/11/13 00:49	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/11/13 00:49	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/11/13 00:49	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/11/13 00:49	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/11/13 00:49	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/11/13 00:49	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/11/13 00:49	1
Naphthalene	ND		0.50	0.060	ug/L			05/11/13 00:49	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/11/13 00:49	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/11/13 00:49	1
o-Xylene	ND		0.50	0.044	ug/L			05/11/13 00:49	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/11/13 00:49	1
Styrene	ND		0.50	0.044	ug/L			05/11/13 00:49	1
t-Butanol	ND		10	2.5	ug/L			05/11/13 00:49	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/11/13 00:49	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/11/13 00:49	1
Toluene	ND		0.50	0.10	ug/L			05/11/13 00:49	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/11/13 00:49	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/11/13 00:49	1
Trichloroethene	ND		0.50	0.060	ug/L			05/11/13 00:49	1

Client Sample ID: 250 Candlewood Dr.

Lab Sample ID: 480-37941-15

Date Collected: 05/07/13 14:15

Matrix: Water

Date Received: 05/09/13 03:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/11/13 00:49	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/11/13 00:49	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/11/13 00:49	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/11/13 00:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*106*		*80 - 120*		*05/11/13 00:49*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*05/11/13 00:49*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		05/11/13 13:36	05/13/13 17:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*87*		*70 - 130*	*05/11/13 13:36*	*05/13/13 17:12*	*1*

Client Sample ID: 20 Starlight Ln.

Lab Sample ID: 480-37941-17

Date Collected: 05/07/13 15:00

Matrix: Water

Date Received: 05/09/13 03:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/11/13 01:40	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/11/13 01:40	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/11/13 01:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/11/13 01:40	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/11/13 01:40	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/11/13 01:40	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/11/13 01:40	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/11/13 01:40	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/11/13 01:40	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/11/13 01:40	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/11/13 01:40	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/11/13 01:40	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/11/13 01:40	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/11/13 01:40	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/11/13 01:40	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/11/13 01:40	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/11/13 01:40	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/11/13 01:40	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/11/13 01:40	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/11/13 01:40	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/11/13 01:40	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/11/13 01:40	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/11/13 01:40	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/11/13 01:40	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/11/13 01:40	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/11/13 01:40	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/11/13 01:40	1
Acetone	ND	*	2.5	0.54	ug/L			05/11/13 01:40	1

Client Sample ID: 20 Starlight Ln.
Date Collected: 05/07/13 15:00
Date Received: 05/09/13 03:00

Lab Sample ID: 480-37941-17
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.13	ug/L			05/11/13 01:40	1
Bromobenzene	ND		0.50	0.13	ug/L			05/11/13 01:40	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/11/13 01:40	1
Bromoform	ND		0.50	0.13	ug/L			05/11/13 01:40	1
Bromomethane	ND		0.50	0.051	ug/L			05/11/13 01:40	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/11/13 01:40	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/11/13 01:40	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/11/13 01:40	1
Chloroethane	ND		0.50	0.070	ug/L			05/11/13 01:40	1
Chloroform	**0.16**	**J**	0.50	0.14	ug/L			05/11/13 01:40	1
Chloromethane	ND		0.50	0.063	ug/L			05/11/13 01:40	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/11/13 01:40	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/11/13 01:40	1
Dibromomethane	ND		0.50	0.17	ug/L			05/11/13 01:40	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/11/13 01:40	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/11/13 01:40	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/11/13 01:40	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/11/13 01:40	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/11/13 01:40	1
Methyl tert-butyl ether	**0.33**	**J**	0.50	0.12	ug/L			05/11/13 01:40	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/11/13 01:40	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/11/13 01:40	1
Naphthalene	ND		0.50	0.060	ug/L			05/11/13 01:40	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/11/13 01:40	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/11/13 01:40	1
o-Xylene	ND		0.50	0.044	ug/L			05/11/13 01:40	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/11/13 01:40	1
Styrene	ND		0.50	0.044	ug/L			05/11/13 01:40	1
t-Butanol	ND		10	2.5	ug/L			05/11/13 01:40	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/11/13 01:40	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/11/13 01:40	1
Toluene	ND		0.50	0.10	ug/L			05/11/13 01:40	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/11/13 01:40	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/11/13 01:40	1
Trichloroethene	ND		0.50	0.060	ug/L			05/11/13 01:40	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/11/13 01:40	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/11/13 01:40	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/11/13 01:40	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/11/13 01:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*105*		*80 - 120*		*05/11/13 01:40*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*05/11/13 01:40*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		05/11/13 13:36	05/13/13 17:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*82*		*70 - 130*	*05/11/13 13:36*	*05/13/13 17:29*	*1*

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37941-1

Client Sample ID: Trip Blank (lot number 050113)
Date Collected: 05/07/13 00:00
Date Received: 05/09/13 03:00

Lab Sample ID: 480-37941-19
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/11/13 02:29	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/11/13 02:29	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/11/13 02:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/11/13 02:29	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/11/13 02:29	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/11/13 02:29	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/11/13 02:29	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/11/13 02:29	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/11/13 02:29	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/11/13 02:29	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/11/13 02:29	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/11/13 02:29	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/11/13 02:29	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/11/13 02:29	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/11/13 02:29	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/11/13 02:29	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/11/13 02:29	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/11/13 02:29	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/11/13 02:29	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/11/13 02:29	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/11/13 02:29	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/11/13 02:29	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/11/13 02:29	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/11/13 02:29	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/11/13 02:29	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/11/13 02:29	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/11/13 02:29	1
Acetone	ND	*	2.5	0.54	ug/L			05/11/13 02:29	1
Benzene	ND		0.50	0.13	ug/L			05/11/13 02:29	1
Bromobenzene	ND		0.50	0.13	ug/L			05/11/13 02:29	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/11/13 02:29	1
Bromoform	ND		0.50	0.13	ug/L			05/11/13 02:29	1
Bromomethane	ND		0.50	0.051	ug/L			05/11/13 02:29	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/11/13 02:29	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/11/13 02:29	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/11/13 02:29	1
Chloroethane	ND		0.50	0.070	ug/L			05/11/13 02:29	1
Chloroform	ND		0.50	0.14	ug/L			05/11/13 02:29	1
Chloromethane	ND		0.50	0.063	ug/L			05/11/13 02:29	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/11/13 02:29	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/11/13 02:29	1
Dibromomethane	ND		0.50	0.17	ug/L			05/11/13 02:29	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/11/13 02:29	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/11/13 02:29	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/11/13 02:29	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/11/13 02:29	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/11/13 02:29	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/11/13 02:29	1
Methylene Chloride	**0.46**	**J**	0.50	0.25	ug/L			05/11/13 02:29	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37941-1

Client Sample ID: Trip Blank (lot number 050113)

Lab Sample ID: 480-37941-19

Date Collected: 05/07/13 00:00
Matrix: Water
Date Received: 05/09/13 03:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/11/13 02:29	1
Naphthalene	ND		0.50	0.060	ug/L			05/11/13 02:29	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/11/13 02:29	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/11/13 02:29	1
o-Xylene	ND		0.50	0.044	ug/L			05/11/13 02:29	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/11/13 02:29	1
Styrene	ND		0.50	0.044	ug/L			05/11/13 02:29	1
t-Butanol	ND		10	2.5	ug/L			05/11/13 02:29	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/11/13 02:29	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/11/13 02:29	1
Toluene	ND		0.50	0.10	ug/L			05/11/13 02:29	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/11/13 02:29	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/11/13 02:29	1
Trichloroethene	ND		0.50	0.060	ug/L			05/11/13 02:29	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/11/13 02:29	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/11/13 02:29	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/11/13 02:29	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/11/13 02:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*104*		*80 - 120*		*05/11/13 02:29*	*1*
4-Bromofluorobenzene (Surr)	*118*		*80 - 120*		*05/11/13 02:29*	*1*

Client Sample ID: Trip Blank (lot number 050213)

Lab Sample ID: 480-37941-20

Date Collected: 05/07/13 00:00
Matrix: Water
Date Received: 05/09/13 03:00

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.064	J	0.20	0.041	ug/L		05/11/13 13:36	05/13/13 17:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*86*		*70 - 130*	*05/11/13 13:36*	*05/13/13 17:45*	*1*

Surrogate Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37941-1

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)									
		12DCB	BFB								
Lab Sample ID	Client Sample ID	(80-120)	(80-120)								
480-37941-1	390 Old Orchard Rd.	106	101								
480-37941-3	400 Old Orchard Rd.	106	120								
480-37941-5	390 Schoolhouse Rd.	107	84								
480-37941-7	9 Whidah Ln.	100	99								
480-37941-9	30 Chokeberry Dr.	103	100								
480-37941-11	25 Fairview Ave.	104	99								
480-37941-13	20 Fairview Ave.	105	100								
480-37941-15	250 Candlewood Dr.	106	105								
480-37941-17	20 Starlight Ln.	105	99								
480-37941-19	Trip Blank (lot number 050113)	104	118								
LCS 480-117873/4	Lab Control Sample	104	99								
LCS 480-118036/4	Lab Control Sample	103	102								
MB 480-117873/5	Method Blank	103	101								
MB 480-118036/5	Method Blank	104	98								

Surrogate Legend

12DCB = 1,2-Dichlorobenzene-d4

BFB = 4-Bromofluorobenzene (Surr)

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)									
		14DD8									
Lab Sample ID	Client Sample ID	(70-130)									
480-37941-1	390 Old Orchard Rd.	74									
480-37941-3	400 Old Orchard Rd.	90									
480-37941-5	390 Schoolhouse Rd.	79									
480-37941-7	9 Whidah Ln.	79									
480-37941-9	30 Chokeberry Dr.	72									
480-37941-11	25 Fairview Ave.	80									
480-37941-13	20 Fairview Ave.	88									
480-37941-15	250 Candlewood Dr.	87									
480-37941-17	20 Starlight Ln.	82									
480-37941-20	Trip Blank (lot number 050213)	86									
LCS 200-55416/2-A	Lab Control Sample	89									
MB 200-55416/1-A	Method Blank	84									

Surrogate Legend

14DD8 = 1,4-Dioxane-d8 (Surr)

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37941-1

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-117873/5
Matrix: Water
Analysis Batch: 117873

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/10/13 10:43	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/10/13 10:43	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/10/13 10:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/10/13 10:43	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/10/13 10:43	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/10/13 10:43	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/10/13 10:43	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/10/13 10:43	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/10/13 10:43	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/10/13 10:43	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/10/13 10:43	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/10/13 10:43	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/10/13 10:43	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/10/13 10:43	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/10/13 10:43	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/10/13 10:43	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/10/13 10:43	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/10/13 10:43	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/10/13 10:43	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/10/13 10:43	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/10/13 10:43	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/10/13 10:43	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/10/13 10:43	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/10/13 10:43	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/10/13 10:43	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/10/13 10:43	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/10/13 10:43	1
Acetone	ND		2.5	0.54	ug/L			05/10/13 10:43	1
Benzene	ND		0.50	0.13	ug/L			05/10/13 10:43	1
Bromobenzene	ND		0.50	0.13	ug/L			05/10/13 10:43	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/10/13 10:43	1
Bromoform	ND		0.50	0.13	ug/L			05/10/13 10:43	1
Bromomethane	ND		0.50	0.051	ug/L			05/10/13 10:43	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/10/13 10:43	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/10/13 10:43	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/10/13 10:43	1
Chloroethane	ND		0.50	0.070	ug/L			05/10/13 10:43	1
Chloroform	ND		0.50	0.14	ug/L			05/10/13 10:43	1
Chloromethane	ND		0.50	0.063	ug/L			05/10/13 10:43	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/10/13 10:43	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/10/13 10:43	1
Dibromomethane	ND		0.50	0.17	ug/L			05/10/13 10:43	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/10/13 10:43	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/10/13 10:43	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/10/13 10:43	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/10/13 10:43	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/10/13 10:43	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/10/13 10:43	1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-117873/5
Matrix: Water
Analysis Batch: 117873

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		0.50	0.25	ug/L			05/10/13 10:43	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/10/13 10:43	1
Naphthalene	ND		0.50	0.060	ug/L			05/10/13 10:43	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/10/13 10:43	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/10/13 10:43	1
o-Xylene	ND		0.50	0.044	ug/L			05/10/13 10:43	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/10/13 10:43	1
Styrene	ND		0.50	0.044	ug/L			05/10/13 10:43	1
t-Butanol	ND		10	2.5	ug/L			05/10/13 10:43	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/10/13 10:43	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/10/13 10:43	1
Toluene	ND		0.50	0.10	ug/L			05/10/13 10:43	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/10/13 10:43	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/10/13 10:43	1
Trichloroethene	ND		0.50	0.060	ug/L			05/10/13 10:43	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/10/13 10:43	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/10/13 10:43	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/10/13 10:43	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/10/13 10:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*103*		*80 - 120*		*05/10/13 10:43*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*05/10/13 10:43*	*1*

Lab Sample ID: LCS 480-117873/4
Matrix: Water
Analysis Batch: 117873

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	4.00	4.41		ug/L		110	70 - 130
1,1,1-Trichloroethane	4.00	4.32		ug/L		108	70 - 130
1,1,2,2-Tetrachloroethane	4.00	3.16		ug/L		79	70 - 130
1,1,2-Trichloroethane	4.00	3.21		ug/L		80	70 - 130
1,1-Dichloroethane	4.00	3.87		ug/L		97	70 - 130
1,1-Dichloroethene	4.00	3.43		ug/L		86	70 - 130
1,1-Dichloropropene	4.00	4.09		ug/L		102	70 - 130
1,2,3-Trichlorobenzene	4.00	4.52		ug/L		113	70 - 130
1,2,3-Trichloropropane	4.00	3.76		ug/L		94	70 - 130
1,2,4-Trichlorobenzene	4.00	4.54		ug/L		113	70 - 130
1,2,4-Trimethylbenzene	4.00	3.88		ug/L		97	70 - 130
1,2-Dibromo-3-Chloropropane	4.00	3.82		ug/L		96	70 - 130
1,2-Dibromoethane	4.00	4.00		ug/L		100	70 - 130
1,2-Dichlorobenzene	4.00	4.12		ug/L		103	70 - 130
1,2-Dichloroethane	4.00	4.47		ug/L		112	70 - 130
1,2-Dichloropropane	4.00	3.23		ug/L		81	70 - 130
1,3,5-Trimethylbenzene	4.00	3.81		ug/L		95	70 - 130
1,3-Dichlorobenzene	4.00	3.98		ug/L		99	70 - 130
1,3-Dichloropropane	4.00	3.45		ug/L		86	70 - 130

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-117873/4
Matrix: Water
Analysis Batch: 117873

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	4.00	3.90		ug/L		98	70 - 130
2,2-Dichloropropane	4.00	3.84		ug/L		96	70 - 130
2-Butanone (MEK)	20.0	23.3		ug/L		116	70 - 130
2-Chlorotoluene	4.00	3.55		ug/L		89	70 - 130
4-Chlorotoluene	4.00	3.49		ug/L		87	70 - 130
4-Isopropyltoluene	4.00	4.00		ug/L		100	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	17.6		ug/L		88	70 - 130
Acetone	20.0	25.9		ug/L		130	70 - 130
Benzene	4.00	3.81		ug/L		95	70 - 130
Bromobenzene	4.00	3.94		ug/L		99	70 - 130
Bromochloromethane	4.00	4.16		ug/L		104	70 - 130
Bromoform	4.00	4.36		ug/L		109	70 - 130
Bromomethane	4.00	3.78		ug/L		95	70 - 130
Carbon tetrachloride	4.00	4.25		ug/L		106	70 - 130
Chlorobenzene	4.00	3.92		ug/L		98	70 - 130
Chlorodibromomethane	4.00	4.13		ug/L		103	70 - 130
Chloroethane	4.00	4.22		ug/L		106	70 - 130
Chloroform	4.00	3.86		ug/L		96	70 - 130
Chloromethane	4.00	3.72		ug/L		93	70 - 130
cis-1,2-Dichloroethene	4.00	4.18		ug/L		104	70 - 130
cis-1,3-Dichloropropene	4.00	3.05		ug/L		76	70 - 130
Dibromomethane	4.00	3.39		ug/L		85	70 - 130
Dichlorobromomethane	4.00	3.42		ug/L		86	70 - 130
Dichlorodifluoromethane	4.00	4.17		ug/L		104	70 - 130
Ethylbenzene	4.00	3.79		ug/L		95	70 - 130
Hexachlorobutadiene	4.00	4.63		ug/L		116	70 - 130
Isopropylbenzene	4.00	4.16		ug/L		104	70 - 130
Methyl tert-butyl ether	4.00	3.92		ug/L		98	70 - 130
Methylene Chloride	4.00	3.54		ug/L		88	70 - 130
Naphthalene	4.00	4.32		ug/L		108	70 - 130
n-Butylbenzene	4.00	3.73		ug/L		93	70 - 130
N-Propylbenzene	4.00	3.50		ug/L		88	70 - 130
sec-Butylbenzene	4.00	3.77		ug/L		94	70 - 130
Styrene	4.00	3.96		ug/L		99	70 - 130
tert-Butylbenzene	4.00	3.92		ug/L		98	70 - 130
Tetrachloroethene	4.00	4.26		ug/L		107	70 - 130
Toluene	4.00	3.39		ug/L		85	70 - 130
trans-1,2-Dichloroethene	4.00	3.74		ug/L		94	70 - 130
trans-1,3-Dichloropropene	4.00	3.02		ug/L		76	70 - 130
Trichloroethene	4.00	4.00		ug/L		100	70 - 130
Trichlorofluoromethane	4.00	4.88		ug/L		122	70 - 130
Vinyl chloride	4.00	4.31		ug/L		108	70 - 130
Xylenes, Total	12.0	11.8		ug/L		99	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichlorobenzene-d4	*104*		*80 - 120*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-118036/5
Matrix: Water
Analysis Batch: 118036

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/10/13 21:12	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/10/13 21:12	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/10/13 21:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/10/13 21:12	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/10/13 21:12	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/10/13 21:12	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/10/13 21:12	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/10/13 21:12	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/10/13 21:12	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/10/13 21:12	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/10/13 21:12	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/10/13 21:12	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/10/13 21:12	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/10/13 21:12	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/10/13 21:12	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/10/13 21:12	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/10/13 21:12	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/10/13 21:12	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/10/13 21:12	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/10/13 21:12	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/10/13 21:12	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/10/13 21:12	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/10/13 21:12	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/10/13 21:12	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/10/13 21:12	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/10/13 21:12	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/10/13 21:12	1
Acetone	ND		2.5	0.54	ug/L			05/10/13 21:12	1
Benzene	ND		0.50	0.13	ug/L			05/10/13 21:12	1
Bromobenzene	ND		0.50	0.13	ug/L			05/10/13 21:12	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/10/13 21:12	1
Bromoform	ND		0.50	0.13	ug/L			05/10/13 21:12	1
Bromomethane	ND		0.50	0.051	ug/L			05/10/13 21:12	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/10/13 21:12	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/10/13 21:12	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/10/13 21:12	1
Chloroethane	ND		0.50	0.070	ug/L			05/10/13 21:12	1
Chloroform	ND		0.50	0.14	ug/L			05/10/13 21:12	1
Chloromethane	ND		0.50	0.063	ug/L			05/10/13 21:12	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/10/13 21:12	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/10/13 21:12	1
Dibromomethane	ND		0.50	0.17	ug/L			05/10/13 21:12	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/10/13 21:12	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/10/13 21:12	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/10/13 21:12	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/10/13 21:12	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/10/13 21:12	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/10/13 21:12	1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-118036/5
Matrix: Water
Analysis Batch: 118036

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		0.50	0.25	ug/L			05/10/13 21:12	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/10/13 21:12	1
Naphthalene	ND		0.50	0.060	ug/L			05/10/13 21:12	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/10/13 21:12	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/10/13 21:12	1
o-Xylene	ND		0.50	0.044	ug/L			05/10/13 21:12	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/10/13 21:12	1
Styrene	ND		0.50	0.044	ug/L			05/10/13 21:12	1
t-Butanol	ND		10	2.5	ug/L			05/10/13 21:12	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/10/13 21:12	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/10/13 21:12	1
Toluene	ND		0.50	0.10	ug/L			05/10/13 21:12	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/10/13 21:12	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/10/13 21:12	1
Trichloroethene	ND		0.50	0.060	ug/L			05/10/13 21:12	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/10/13 21:12	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/10/13 21:12	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/10/13 21:12	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/10/13 21:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*104*		*80 - 120*		*05/10/13 21:12*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*05/10/13 21:12*	*1*

Lab Sample ID: LCS 480-118036/4
Matrix: Water
Analysis Batch: 118036

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	4.00	4.45		ug/L		111	70 - 130
1,1,1-Trichloroethane	4.00	4.23		ug/L		106	70 - 130
1,1,2,2-Tetrachloroethane	4.00	3.81		ug/L		95	70 - 130
1,1,2-Trichloroethane	4.00	4.20		ug/L		105	70 - 130
1,1-Dichloroethane	4.00	3.49		ug/L		87	70 - 130
1,1-Dichloroethene	4.00	3.26		ug/L		81	70 - 130
1,1-Dichloropropene	4.00	3.81		ug/L		95	70 - 130
1,2,3-Trichlorobenzene	4.00	4.61		ug/L		115	70 - 130
1,2,3-Trichloropropane	4.00	4.23		ug/L		106	70 - 130
1,2,4-Trichlorobenzene	4.00	4.52		ug/L		113	70 - 130
1,2,4-Trimethylbenzene	4.00	4.24		ug/L		106	70 - 130
1,2-Dibromo-3-Chloropropane	4.00	4.45		ug/L		111	70 - 130
1,2-Dibromoethane	4.00	4.33		ug/L		108	70 - 130
1,2-Dichlorobenzene	4.00	4.34		ug/L		108	70 - 130
1,2-Dichloroethane	4.00	4.72		ug/L		118	70 - 130
1,2-Dichloropropane	4.00	4.25		ug/L		106	70 - 130
1,3,5-Trimethylbenzene	4.00	4.21		ug/L		105	70 - 130
1,3-Dichlorobenzene	4.00	4.24		ug/L		106	70 - 130
1,3-Dichloropropane	4.00	4.01		ug/L		100	70 - 130

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-118036/4
Matrix: Water
Analysis Batch: 118036

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	4.00	4.20		ug/L		105	70 - 130
2,2-Dichloropropane	4.00	4.02		ug/L		101	70 - 130
2-Butanone (MEK)	20.0	21.8		ug/L		109	70 - 130
2-Chlorotoluene	4.00	4.04		ug/L		101	70 - 130
4-Chlorotoluene	4.00	4.03		ug/L		101	70 - 130
4-Isopropyltoluene	4.00	4.32		ug/L		108	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	24.8		ug/L		124	70 - 130
Acetone	20.0	27.1	*	ug/L		135	70 - 130
Benzene	4.00	4.09		ug/L		102	70 - 130
Bromobenzene	4.00	4.20		ug/L		105	70 - 130
Bromochloromethane	4.00	3.83		ug/L		96	70 - 130
Bromoform	4.00	4.39		ug/L		110	70 - 130
Bromomethane	4.00	3.63		ug/L		91	70 - 130
Carbon tetrachloride	4.00	4.20		ug/L		105	70 - 130
Chlorobenzene	4.00	4.24		ug/L		106	70 - 130
Chlorodibromomethane	4.00	4.25		ug/L		106	70 - 130
Chloroethane	4.00	3.81		ug/L		95	70 - 130
Chloroform	4.00	3.55		ug/L		89	70 - 130
Chloromethane	4.00	3.15		ug/L		79	70 - 130
cis-1,2-Dichloroethene	4.00	3.97		ug/L		99	70 - 130
cis-1,3-Dichloropropene	4.00	3.94		ug/L		98	70 - 130
Dibromomethane	4.00	4.40		ug/L		110	70 - 130
Dichlorobromomethane	4.00	4.29		ug/L		107	70 - 130
Dichlorodifluoromethane	4.00	3.65		ug/L		91	70 - 130
Ethylbenzene	4.00	4.22		ug/L		105	70 - 130
Hexachlorobutadiene	4.00	4.82		ug/L		121	70 - 130
Isopropylbenzene	4.00	4.41		ug/L		110	70 - 130
Methyl tert-butyl ether	4.00	3.63		ug/L		91	70 - 130
Methylene Chloride	4.00	3.34		ug/L		84	70 - 130
Naphthalene	4.00	4.59		ug/L		115	70 - 130
n-Butylbenzene	4.00	4.26		ug/L		106	70 - 130
N-Propylbenzene	4.00	4.01		ug/L		100	70 - 130
sec-Butylbenzene	4.00	4.24		ug/L		106	70 - 130
Styrene	4.00	4.29		ug/L		107	70 - 130
tert-Butylbenzene	4.00	4.32		ug/L		108	70 - 130
Tetrachloroethene	4.00	4.38		ug/L		109	70 - 130
Toluene	4.00	4.20		ug/L		105	70 - 130
trans-1,2-Dichloroethene	4.00	3.45		ug/L		86	70 - 130
trans-1,3-Dichloropropene	4.00	3.93		ug/L		98	70 - 130
Trichloroethene	4.00	4.33		ug/L		108	70 - 130
Trichlorofluoromethane	4.00	4.48		ug/L		112	70 - 130
Vinyl chloride	4.00	3.97		ug/L		99	70 - 130
Xylenes, Total	12.0	12.9		ug/L		108	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichlorobenzene-d4	*103*		*80 - 120*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Lab Sample ID: MB 200-55416/1-A
Matrix: Water
Analysis Batch: 55420

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 55416

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		05/11/13 13:36	05/13/13 15:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*84*		*70 - 130*	*05/11/13 13:36*	*05/13/13 15:02*	*1*

Lab Sample ID: LCS 200-55416/2-A
Matrix: Water
Analysis Batch: 55420

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 55416

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane			2.00	1.78		ug/L		89	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,4-Dioxane-d8 (Surr)	*89*		*70 - 130*

GC/MS VOA

Analysis Batch: 117873

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-37941-1	390 Old Orchard Rd.	Total/NA	Water	524.2	
480-37941-3	400 Old Orchard Rd.	Total/NA	Water	524.2	
480-37941-5	390 Schoolhouse Rd.	Total/NA	Water	524.2	
480-37941-7	9 Whidah Ln.	Total/NA	Water	524.2	
LCS 480-117873/4	Lab Control Sample	Total/NA	Water	524.2	
MB 480-117873/5	Method Blank	Total/NA	Water	524.2	

Analysis Batch: 118036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-37941-9	30 Chokeberry Dr.	Total/NA	Water	524.2	
480-37941-11	25 Fairview Ave.	Total/NA	Water	524.2	
480-37941-13	20 Fairview Ave.	Total/NA	Water	524.2	
480-37941-15	250 Candlewood Dr.	Total/NA	Water	524.2	
480-37941-17	20 Starlight Ln.	Total/NA	Water	524.2	
480-37941-19	Trip Blank (lot number 050113)	Total/NA	Water	524.2	
LCS 480-118036/4	Lab Control Sample	Total/NA	Water	524.2	
MB 480-118036/5	Method Blank	Total/NA	Water	524.2	

GC/MS Semi VOA

Prep Batch: 55416

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-37941-1	390 Old Orchard Rd.	Total/NA	Water	3535A	
480-37941-3	400 Old Orchard Rd.	Total/NA	Water	3535A	
480-37941-5	390 Schoolhouse Rd.	Total/NA	Water	3535A	
480-37941-7	9 Whidah Ln.	Total/NA	Water	3535A	
480-37941-9	30 Chokeberry Dr.	Total/NA	Water	3535A	
480-37941-11	25 Fairview Ave.	Total/NA	Water	3535A	
480-37941-13	20 Fairview Ave.	Total/NA	Water	3535A	
480-37941-15	250 Candlewood Dr.	Total/NA	Water	3535A	
480-37941-17	20 Starlight Ln.	Total/NA	Water	3535A	
480-37941-20	Trip Blank (lot number 050213)	Total/NA	Water	3535A	
LCS 200-55416/2-A	Lab Control Sample	Total/NA	Water	3535A	
MB 200-55416/1-A	Method Blank	Total/NA	Water	3535A	

Analysis Batch: 55420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-37941-1	390 Old Orchard Rd.	Total/NA	Water	522 MOD	55416
480-37941-3	400 Old Orchard Rd.	Total/NA	Water	522 MOD	55416
480-37941-5	390 Schoolhouse Rd.	Total/NA	Water	522 MOD	55416
480-37941-7	9 Whidah Ln.	Total/NA	Water	522 MOD	55416
480-37941-9	30 Chokeberry Dr.	Total/NA	Water	522 MOD	55416
480-37941-11	25 Fairview Ave.	Total/NA	Water	522 MOD	55416
480-37941-13	20 Fairview Ave.	Total/NA	Water	522 MOD	55416
480-37941-15	250 Candlewood Dr.	Total/NA	Water	522 MOD	55416
480-37941-17	20 Starlight Ln.	Total/NA	Water	522 MOD	55416
480-37941-20	Trip Blank (lot number 050213)	Total/NA	Water	522 MOD	55416
LCS 200-55416/2-A	Lab Control Sample	Total/NA	Water	522 MOD	55416
MB 200-55416/1-A	Method Blank	Total/NA	Water	522 MOD	55416

Lab Chronicle

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37941-1

Client Sample ID: 390 Old Orchard Rd.

Lab Sample ID: 480-37941-1

Date Collected: 05/07/13 09:30

Matrix: Water

Date Received: 05/09/13 03:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	117873	05/10/13 16:31	CDC	TAL BUF
Total/NA	Prep	3535A			55416	05/11/13 13:36	MLT	TAL BUR
Total/NA	Analysis	522 MOD		1	55420	05/13/13 15:18	RJH	TAL BUR

Client Sample ID: 400 Old Orchard Rd.

Lab Sample ID: 480-37941-3

Date Collected: 05/07/13 10:00

Matrix: Water

Date Received: 05/09/13 03:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	117873	05/10/13 17:20	CDC	TAL BUF
Total/NA	Prep	3535A			55416	05/11/13 13:36	MLT	TAL BUR
Total/NA	Analysis	522 MOD		1	55420	05/13/13 15:34	RJH	TAL BUR

Client Sample ID: 390 Schoolhouse Rd.

Lab Sample ID: 480-37941-5

Date Collected: 05/07/13 10:35

Matrix: Water

Date Received: 05/09/13 03:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	117873	05/10/13 18:09	CDC	TAL BUF
Total/NA	Prep	3535A			55416	05/11/13 13:36	MLT	TAL BUR
Total/NA	Analysis	522 MOD		1	55420	05/13/13 15:50	RJH	TAL BUR

Client Sample ID: 9 Whidah Ln.

Lab Sample ID: 480-37941-7

Date Collected: 05/07/13 11:10

Matrix: Water

Date Received: 05/09/13 03:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	117873	05/10/13 18:57	CDC	TAL BUF
Total/NA	Prep	3535A			55416	05/11/13 13:36	MLT	TAL BUR
Total/NA	Analysis	522 MOD		1	55420	05/13/13 16:07	RJH	TAL BUR

Client Sample ID: 30 Chokeberry Dr.

Lab Sample ID: 480-37941-9

Date Collected: 05/07/13 12:05

Matrix: Water

Date Received: 05/09/13 03:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	118036	05/10/13 22:22	TRB	TAL BUF
Total/NA	Prep	3535A			55416	05/11/13 13:36	MLT	TAL BUR
Total/NA	Analysis	522 MOD		1	55420	05/13/13 16:23	RJH	TAL BUR

Lab Chronicle

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37941-1

Client Sample ID: 25 Fairview Ave.

Lab Sample ID: 480-37941-11

Date Collected: 05/07/13 12:50

Matrix: Water

Date Received: 05/09/13 03:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	118036	05/10/13 23:10	TRB	TAL BUF
Total/NA	Prep	3535A			55416	05/11/13 13:36	MLT	TAL BUR
Total/NA	Analysis	522 MOD		1	55420	05/13/13 16:39	RJH	TAL BUR

Client Sample ID: 20 Fairview Ave.

Lab Sample ID: 480-37941-13

Date Collected: 05/07/13 13:30

Matrix: Water

Date Received: 05/09/13 03:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	118036	05/11/13 00:00	TRB	TAL BUF
Total/NA	Prep	3535A			55416	05/11/13 13:36	MLT	TAL BUR
Total/NA	Analysis	522 MOD		1	55420	05/13/13 16:56	RJH	TAL BUR

Client Sample ID: 250 Candlewood Dr.

Lab Sample ID: 480-37941-15

Date Collected: 05/07/13 14:15

Matrix: Water

Date Received: 05/09/13 03:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	118036	05/11/13 00:49	TRB	TAL BUF
Total/NA	Prep	3535A			55416	05/11/13 13:36	MLT	TAL BUR
Total/NA	Analysis	522 MOD		1	55420	05/13/13 17:12	RJH	TAL BUR

Client Sample ID: 20 Starlight Ln.

Lab Sample ID: 480-37941-17

Date Collected: 05/07/13 15:00

Matrix: Water

Date Received: 05/09/13 03:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	118036	05/11/13 01:40	TRB	TAL BUF
Total/NA	Prep	3535A			55416	05/11/13 13:36	MLT	TAL BUR
Total/NA	Analysis	522 MOD		1	55420	05/13/13 17:29	RJH	TAL BUR

Client Sample ID: Trip Blank (lot number 050113)

Lab Sample ID: 480-37941-19

Date Collected: 05/07/13 00:00

Matrix: Water

Date Received: 05/09/13 03:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	118036	05/11/13 02:29	TRB	TAL BUF

Lab Chronicle

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37941-1

Client Sample ID: Trip Blank (lot number 050213)
Date Collected: 05/07/13 00:00
Date Received: 05/09/13 03:00

Lab Sample ID: 480-37941-20
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535A			55416	05/11/13 13:36	MLT	TAL BUR
Total/NA	Analysis	522 MOD		1	55420	05/13/13 17:45	RJH	TAL BUR

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Certification Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37941-1

Laboratory: TestAmerica Buffalo

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-13
California	NELAP	9	1169CA	09-30-13
Connecticut	State Program	1	PH-0568	09-30-14
Florida	NELAP	4	E87672	06-30-13
Georgia	State Program	4	N/A	03-31-14
Georgia	State Program	4	956	06-30-13
Georgia	State Program	4	956	03-31-14
Illinois	NELAP	5	200003	09-30-13
Iowa	State Program	7	374	03-15-15
Kansas	NELAP	7	E-10187	01-31-14
Kentucky	State Program	4	90029	12-31-13
Kentucky (UST)	State Program	4	30	04-01-14
Louisiana	NELAP	6	02031	06-30-13
Maine	State Program	1	NY00044	12-04-13
Maryland	State Program	3	294	03-31-14
Massachusetts	State Program	1	M-NY044	06-30-13
Michigan	State Program	5	9937	04-01-13 *
Minnesota	NELAP	5	036-999-337	12-31-13
New Hampshire	NELAP	1	2973	09-11-13
New Hampshire	NELAP	1	2337	11-17-13
New Jersey	NELAP	2	NY455	06-30-13
New York	NELAP	2	10026	04-01-14
North Dakota	State Program	8	R-176	03-31-14
Oklahoma	State Program	6	9421	08-31-13
Oregon	NELAP	10	NY200003	06-09-13
Pennsylvania	NELAP	3	68-00281	07-31-13
Rhode Island	State Program	1	LAO00328	12-31-13
Tennessee	State Program	4	TN02970	04-01-14
Texas	NELAP	6	T104704412-11-2	07-31-13
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAP	3	460185	09-14-13
Washington	State Program	10	C784	02-10-14
West Virginia DEP	State Program	3	252	09-30-13
Wisconsin	State Program	5	998310390	08-31-13

Laboratory: TestAmerica Burlington

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Connecticut	State Program	1	PH-0751	09-30-13
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-13-15
Florida	NELAP	4	E87467	06-30-13
L-A-B	DoD ELAP		L2336	10-26-13
Louisiana	NELAP	6	176292	06-30-13
Minnesota	NELAP	5	050-999-436	12-31-13
New Hampshire	NELAP	1	2006	12-18-13
New Jersey	NELAP	2	VT972	06-30-13
New York	NELAP	2	10391	04-01-14
Pennsylvania	NELAP	3	68-00489	04-30-14
USDA	Federal		P330-11-00093	02-17-14

* Expired certification is currently pending renewal and is considered valid.

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37941-1

Laboratory: TestAmerica Burlington (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Vermont	State Program	1	VT-4000	12-31-13
Virginia	NELAP	3	460209	12-14-13

Method Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37941-1

Method	Method Description	Protocol	Laboratory
524.2	Volatile Organic Compounds (GC/MS)	EPA-DW	TAL BUF
522 MOD	1,4 Dioxane (GC/MS SIM)	EPA	TAL BUR

Protocol References:

EPA = US Environmental Protection Agency

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-37941-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-37941-1	390 Old Orchard Rd.	Water	05/07/13 09:30	05/09/13 03:00
480-37941-3	400 Old Orchard Rd.	Water	05/07/13 10:00	05/09/13 03:00
480-37941-5	390 Schoolhouse Rd.	Water	05/07/13 10:35	05/09/13 03:00
480-37941-7	9 Whidah Ln.	Water	05/07/13 11:10	05/09/13 03:00
480-37941-9	30 Chokeberry Dr.	Water	05/07/13 12:05	05/09/13 03:00
480-37941-11	25 Fairview Ave.	Water	05/07/13 12:50	05/09/13 03:00
480-37941-13	20 Fairview Ave.	Water	05/07/13 13:30	05/09/13 03:00
480-37941-15	250 Candlewood Dr.	Water	05/07/13 14:15	05/09/13 03:00
480-37941-17	20 Starlight Ln.	Water	05/07/13 15:00	05/09/13 03:00
480-37941-19	Trip Blank (lot number 050113)	Water	05/07/13 00:00	05/09/13 03:00
480-37941-20	Trip Blank (lot number 050213)	Water	05/07/13 00:00	05/09/13 03:00

TestAmerica Westfield
53 Southampton Road

Westfield, MA 01085
phone 413.572.4000 fax 413.572.3707

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other: **MA MCP**

Client Contact	**Project Manager: David Bennett**	**Site Contact:**	**Date:**	COC No:
Bennett Environmental Associates, Inc.	**Tel/Fax: 508-896-1706**	**Lab Contact:**	**Carrier:**	1 of 2 COCs
Address 1573 Main St. / P.O. Box 1743	**Analysis Turnaround Time**			**For Lab Use Only:**
City/State/Zip Brewster, MA 02631	Calendar (C) or Work Days (W) C			Walk-in Client:
508-896-1706 Phone	TAT if different from Below			Lab Sampling:
508-896-5109 FAX	☑ 2 weeks			Job / SDG No.:
Project Name: Eastham Landfill	☐ 1 week			
Site: Town of Eastham	☐ 2 days			Sampler:
P O # BEA09-10104	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample (Y / N)	Composite = C / Grab = G	VOCs via 524.2	1,4-Dioxane via 522.1 Mod	Sample Specific Notes:
390 Old Orchard Rd.	5/7/2013	9:30 AM	G	W	5	N	G	3	2	
390 Old Orchard Rd. Duplicate	5/7/2013	9:30 AM	G	W	4	N	G	3	1	
400 Old Orchard Rd.	5/7/2013	10:00 am	G	W	5	N	G	3	2	
400 Old Orchard Rd. Duplicate	5/7/2013	10:00 am	G	W	4	N	G	3	1	
390 Schoolhouse Rd.	5/7/2013	10:35 am	G	W	5	N	G	3	2	
390 Schoolhouse Rd. Duplicate	5/7/2013	10:35 am	G	W	4	N	G	3	1	
9 Whidah Ln.	5/7/2013	11:10 am	G	W	5	N	G	3	2	
9 Whidah Ln. Duplicate	5/7/2013	11:10 am	G	W	4	N	G	3	1	
30 Chokeberry Dr.	5/7/2013	12:05 pm	G	W	5	N	G	3	2	
30 Chokeberry Dr. Duplicate	5/7/2013	12:05 pm	G	W	4	N	G	3	1	
25 Fairview Ave.	5/7/2013	12:50 pm	G	W	5	N	G	3	2	
25 Fairview Ave. Duplicate	5/7/2013	12:50 pm	G	W	4	N	G	3	1	
								1,2	1,2	

480-37941 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments: Please email results to dbennett@bennett-ea.com

Relinquished by:	Company: BEA	Date/Time: 5/7/13 4:30	Received by: BEA Sample Fridge	Company:	Date/Time:
Relinquished by:	Company:	Date/Time: 5813 1000	Received by:	Company: TA	Date/Time: 5813 1000
Relinquished by:	Company:	Date/Time: 5-8-13 1630	Received in Laboratory by:	Company: TA Westfield	Date/Time: 5-9-13 0300

4.7 #1

Form No. CA-C-WI-002, Rev. 4, dated 10/25/2012

5/17/2013

TestAmerica Westfield
53 Southampton Road

Westfield, MA 01085
phone 413.572.4000 fax 413.572.3707

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other: **MA MCP**

TestAmerica Laboratories, Inc.

Client Contact	**Project Manager: David Bennett**	**Site Contact:**	**Date:**	COC No:
Bennett Environmental Associates, Inc.	**Tel/Fax: 508-896-1706**	**Lab Contact:**	**Carrier:**	1 of 2 COCs
Address 1573 Main St. / P.O. Box 1743	**Analysis Turnaround Time**			**For Lab Use Only:**
City/State/Zip Brewster, MA 02631	Calendar (C) or Work Days (W) C			Walk-in Client:
508-896-1706 Phone	*TAT if different from Below*			Lab Sampling:
508-896-5109 FAX	☑ 2 weeks			Job / SDG No.:
Project Name: Eastham Landfill	☐ 1 week			
Site: Town of Eastham	☐ 2 days			Sampler:
P O # BEA09-10104	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample (Y / N)	Composite = C / Grab = G	VOCs via 524.2	1,4-Dioxane via 522.1 Mod	Sample Specific Notes:
20 Fairview Ave.	5/7/2013	1:30 PM	G	W	5	N	G	3	2	
20 Fairview Ave. Duplicate	5/7/2013	1:30 PM	G	W	4	N	G	3	1	
250 Candlewood Dr.	5/7/2013	2:15 pm	G	W	5	N	G	3	2	
250 Candlewood Dr. Duplicate	5/7/2013	2:15 pm	G	W	4	N	G	3	1	
20 Starlight Ln.	5/7/2013	3:00 pm	G	W	5	N	G	3	2	
20 Starlight Ln. Duplicate	5/7/2013	3:00 pm	G	W	4	N	G	3	1	
Trip Blank (Lot Number 050113)			G	W	3	N	G	3		
Trip Blank (Lot Number 050213)			G	W	2	N	G		2	
								1,2	1,2	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments: Please email results to dbennett@bennett-ea.com

	Company:	Date/Time:		Company:	Date/Time:
Relinquished by:	BEA	5/7/13 4:30	Received by:	TA	5/8/13 1000
Relinquished by:	Company:	Date/Time: 5/8/13 1700	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA BUFF	Date/Time: 5.9.13 0300

Form No. CA-C-WI-002, Rev. 4, dated 10/25/2012

4.7 #1

Login Sample Receipt Checklist

Client: Bennett Environmental Associates, Inc.

Job Number: 480-37941-1

Login Number: 37941

List Source: TestAmerica Buffalo

List Number: 1

Creator: Wienke, Robert

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	BEA
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	True	Lab to check

Login Sample Receipt Checklist

Client: Bennett Environmental Associates, Inc.

Job Number: 480-37941-1

Login Number: 37941
List Number: 1
Creator: Gagne, Eric

List Source: TestAmerica Burlington
List Creation: 05/09/13 02:26 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	No SEALS
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.2ºC IR GUN ID 181. CF 0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

						Sample ID	390 Old Orchard Rd.	400 Old Orchard Rd.	390 Schoolhouse Rd.	9 Whidah Ln.	30 Chokeberry Dr.	25 Fairview Ave.	20 Fairview Ave.	250 Candlewood Dr.	20 Starlight Ln.	Trip Blank (lot number 050113)	Trip Blank (lot number 050213)
						Sampled By											
						Sample Collection Date	05/07/2013 09:30	05/07/2013 10:00	05/07/2013 10:35	05/07/2013 11:10	05/07/2013 12:05	05/07/2013 12:50	05/07/2013 13:30	05/07/2013 14:15	05/07/2013 15:00	05/07/2013 00:00	05/07/2013 00:00
						Laboratory Order Number	480-37941-1	480-37941-3	480-37941-5	480-37941-7	480-37941-9	480-37941-11	480-37941-13	480-37941-15	480-37941-17	480-37941-19	480-37941-20
Parameter	**Reporting Units**	**GW1**	**GW2**	**RCGW1**	**RCGW2**	**DW MMCL**											
Volatiles by 524.2																	
1,1,1,2-Tetrachloroethane	ug/l	5	10	5	10	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
1,1,1-Trichloroethane	ug/l	200	4000	200	4000	200	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
1,1,2,2-Tetrachloroethane	ug/l	2	9	2	9	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
1,1,2-Trichloroethane	ug/l	5	900	5	900	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
1,1-Dichloroethane	ug/l	70	1000	70	1000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
1,1-Dichloroethene	ug/l	7	80	7	80	7	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
1,1-Dichloropropene	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
1,2,3-Trichlorobenzene	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
1,2,3-Trichloropropane	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
1,2,4-Trichlorobenzene	ug/l	70	2000	70	2000	70	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
1,2,4-Trimethylbenzene	ug/l	NA	NA	10000	100000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
1,2-Dibromo-3-Chloropropane	ug/l	NA	NA	100	1000	0.2	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	
1,2-Dibromoethane	ug/l	0.02	2	0.02	2	0.02	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	
1,2-Dichlorobenzene	ug/l	600	2000	600	2000	600	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
1,2-Dichloroethane	ug/l	5	5	5	5	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
1,2-Dichloropropane	ug/l	5	3	3	3	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
1,3,5-Trimethylbenzene	ug/l	NA	NA	100	1000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
1,3-Dichlorobenzene	ug/l	40	2000	40	2000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
1,3-Dichloropropane	ug/l	NA	NA	5000	50000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
1,4-Dichlorobenzene	ug/l	5	200	5	200	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
2,2-Dichloropropane	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
2-Butanone (MEK)	ug/l	4000	50000	4000	50000	NA	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	
2-Chlorotoluene	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
4-Chlorotoluene	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
4-Isopropyltoluene	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
4-Methyl-2-pentanone (MIBK)	ug/l	350	50000	350	50000	NA	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	
Acetone	ug/l	6300	50000	6300	50000	NA	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	
Benzene	ug/l	5	2000	5	2000	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Bromobenzene	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Bromochloromethane	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Bromoform	ug/l	4	700	4	700	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Bromomethane	ug/l	10	7	7	7	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Carbon tetrachloride	ug/l	5	2	2	2	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Chlorobenzene	ug/l	100	200	100	200	100	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Chlorodibromomethane	ug/l	2	20	2	20	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Chloroethane	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Chloroform	ug/l	70	50	50	50	NA	< 0.50	< 0.50	0.20J	< 0.50	0.27J	0.33J	0.17J	0.63	0.16J	< 0.50	
Chloromethane	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
cis-1,2-Dichloroethene	ug/l	70	100	70	100	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
cis-1,3-Dichloropropene	ug/l	NA	NA	0.5	5	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Dibromomethane	ug/l	NA	NA	5000	50000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Dichlorobromomethane	ug/l	3	6	3	6	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Dichlorodifluoromethane	ug/l	NA	NA	10000	100000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Ethylbenzene	ug/l	700	20000	700	5000	700	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Hexachlorobutadiene	ug/l	0.6	1	0.6	1	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Isopropylbenzene	ug/l	NA	NA	10000	100000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Methyl tert-butyl ether	ug/l	70	50000	70	5000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.33J	< 0.50	
Methylene Chloride	ug/l	5	10000	5	10000	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.46J	
m-Xylene & p-Xylene	ug/l	10000	9000	5000	5000	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Naphthalene	ug/l	140	1000	140	1000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
n-Butylbenzene	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
N-Propylbenzene	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
o-Xylene	ug/l	10000	9000	5000	5000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Styrene	ug/l	100	100	100	100	100	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
t-Butanol	ug/l	NA	NA	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	
tert-Butylbenzene	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Tetrachloroethene	ug/l	5	50	5	50	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Toluene	ug/l	1000	50000	1000	40000	1000	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
trans-1,2-Dichloroethene	ug/l	100	90	90	90	100	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
trans-1,3-Dichloropropene	ug/l	NA	NA	0.5	5	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Trichloroethene	ug/l	5	30	5	30	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Trichlorofluoromethane	ug/l	NA	NA	10000	100000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Trihalomethanes, Total	ug/l	NA	NA	NA	NA	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
Vinyl chloride	ug/l	2	2	2	2	2	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Xylenes, Total	ug/l	10000	9000	5000	5000	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Semivolatiles by 522 MOD																	
1,4-Dioxane	ug/l	3	6000	3	6000	NA	< 0.20	< 0.20	< 0.20	< 0.20	0.17J	0.041J	0.093J	< 0.20	< 0.20		0.064J

Notes:
ug/l - micrograms/liter
* - LCS or LCSD exceeds the control limits
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
GW1 - Concentrations based on the use of groundwater as drinking water, either currently or in the foreseeable future.
GW2 - Concentrations based on the potential for volatile material to migrate into indoor air.
GW3 - Concentrations based on the potential environmental effects resulting from contaminated groundwater discharging to surface water.
RC - Risk Characterization approach, Standards may be supplemented or modified with site- and chemical-specific information.
UCL - Upper Concentration Limits in groundwater and soil are promulgated to minimize potential risks associated with uncontrolled environmental contamination, and the costs associated with cumulative anthropogenic contributions to background.

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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TestAmerica Job ID: 480-38025-1
Client Project/Site: Eastham Landfill IRA

For:
Bennett Environmental Associates, Inc.
1573 Main St.
Brewster, Massachusetts 02631

Attn: David Bennett

Authorized for release by:
5/16/2013 4:10:46 PM

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LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38025-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

GC/MS Semi VOA

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-38025-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-38025-1

Receipt
The samples were received on 5/10/2013 1:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.3º C.

GC/MS VOA
Method(s) 524.2: The continuing calibration verification (CCV) for several analytes associated with batch 118096 recovered above the upper control limit. The samples associated with this CCV were non-detects or below reporting limit for the affected analytes; therefore, the data have been reported.

Method(s) 524.2: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for batch 118096 recovered outside control limits for the following analytes:Acetone. These analytes were biased high in the LCS and were not detected or below reporting limits in the associated samples; therefore, the data have been reported.

Method(s) 524.2: The following sample(s) contained residual chlorine upon receipt of 0.1: 100 Glacier Hills Rd. (480-38025-19), 230 Schoolhouse Rd. (480-38025-17).

No other analytical or quality issues were noted.

GC/MS Semi VOA (522MOD)
No analytical or quality issues were noted.

Detection Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38025-1

Client Sample ID: 20 Deerfield Ln. — Lab Sample ID: 480-38025-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.4	J *	2.5	0.54	ug/L	1		524.2	Total/NA
Chloroform	0.52		0.50	0.14	ug/L	1		524.2	Total/NA

Client Sample ID: 70B Deerfield Ln. — Lab Sample ID: 480-38025-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.3	J *	2.5	0.54	ug/L	1		524.2	Total/NA
Chloroform	0.51		0.50	0.14	ug/L	1		524.2	Total/NA
1,4-Dioxane	0.048	J	0.20	0.041	ug/L	1		522 MOD	Total/NA

Client Sample ID: 105 Deerfield Ln. — Lab Sample ID: 480-38025-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.79		0.50	0.14	ug/L	1		524.2	Total/NA
1,4-Dioxane	0.067	J	0.20	0.041	ug/L	1		522 MOD	Total/NA

Client Sample ID: 4 Eldia Way — Lab Sample ID: 480-38025-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.1	J *	2.5	0.54	ug/L	1		524.2	Total/NA
Methyl tert-butyl ether	0.20	J	0.50	0.12	ug/L	1		524.2	Total/NA
1,4-Dioxane	0.089	J	0.20	0.041	ug/L	1		522 MOD	Total/NA

Client Sample ID: 125 Meetinghouse Rd. — Lab Sample ID: 480-38025-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.15	J	0.20	0.041	ug/L	1		522 MOD	Total/NA

Client Sample ID: 285 Alston Ave.(RES-20) — Lab Sample ID: 480-38025-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.47	J	0.50	0.14	ug/L	1		524.2	Total/NA
1,4-Dioxane	0.35		0.20	0.041	ug/L	1		522 MOD	Total/NA

Client Sample ID: 100 Meetinghouse Rd. (RES-8) — Lab Sample ID: 480-38025-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.46	J	0.50	0.14	ug/L	1		524.2	Total/NA
1,4-Dioxane	1.8		0.20	0.041	ug/L	1		522 MOD	Total/NA

Client Sample ID: 180 Old Orchard Rd. (RES-1) — Lab Sample ID: 480-38025-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.54		0.50	0.14	ug/L	1		524.2	Total/NA
Methyl tert-butyl ether	0.25	J	0.50	0.12	ug/L	1		524.2	Total/NA
1,4-Dioxane	0.52		0.20	0.041	ug/L	1		522 MOD	Total/NA

Client Sample ID: 230 Schoolhouse Rd. — Lab Sample ID: 480-38025-17

This Detection Summary does not include radiochemical test results.

Client Sample ID: 230 Schoolhouse Rd. (Continued) — Lab Sample ID: 480-38025-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.93	J B	2.5	0.54	ug/L	1		524.2	Total/NA
m-Xylene & p-Xylene	0.24	J	1.0	0.087	ug/L	1		524.2	Total/NA
o-Xylene	0.063	J	0.50	0.044	ug/L	1		524.2	Total/NA
Xylenes, Total	0.30	J	1.0	0.20	ug/L	1		524.2	Total/NA

Client Sample ID: 100 Glacier Hills Rd. — Lab Sample ID: 480-38025-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.75	J B	2.5	0.54	ug/L	1		524.2	Total/NA
Chloroform	0.19	J	0.50	0.14	ug/L	1		524.2	Total/NA
1,4-Dioxane	0.058	J	0.20	0.041	ug/L	1		522 MOD	Total/NA

Client Sample ID: 200 Candlewood Dr. — Lab Sample ID: 480-38025-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.49	J	0.50	0.14	ug/L	1		524.2	Total/NA

Client Sample ID: 395 Candlewood Dr. — Lab Sample ID: 480-38025-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.60	J B	2.5	0.54	ug/L	1		524.2	Total/NA
Chloroform	0.61		0.50	0.14	ug/L	1		524.2	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 480-38025-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	0.97	J	2.5	0.25	ug/L	1		524.2	Total/NA
Acetone	4.3	B	2.5	0.54	ug/L	1		524.2	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38025-1

Client Sample ID: 20 Deerfield Ln.
Date Collected: 05/08/13 09:35
Date Received: 05/10/13 01:30

Lab Sample ID: 480-38025-1
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/11/13 15:53	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/11/13 15:53	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/11/13 15:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/11/13 15:53	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/11/13 15:53	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/11/13 15:53	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/11/13 15:53	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/11/13 15:53	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/11/13 15:53	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/11/13 15:53	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/11/13 15:53	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/11/13 15:53	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/11/13 15:53	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/11/13 15:53	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/11/13 15:53	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/11/13 15:53	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/11/13 15:53	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/11/13 15:53	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/11/13 15:53	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/11/13 15:53	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/11/13 15:53	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/11/13 15:53	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/11/13 15:53	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/11/13 15:53	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/11/13 15:53	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/11/13 15:53	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/11/13 15:53	1
Acetone	**1.4**	**J ***	2.5	0.54	ug/L			05/11/13 15:53	1
Benzene	ND		0.50	0.13	ug/L			05/11/13 15:53	1
Bromobenzene	ND		0.50	0.13	ug/L			05/11/13 15:53	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/11/13 15:53	1
Bromoform	ND		0.50	0.13	ug/L			05/11/13 15:53	1
Bromomethane	ND		0.50	0.051	ug/L			05/11/13 15:53	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/11/13 15:53	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/11/13 15:53	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/11/13 15:53	1
Chloroethane	ND		0.50	0.070	ug/L			05/11/13 15:53	1
Chloroform	**0.52**		0.50	0.14	ug/L			05/11/13 15:53	1
Chloromethane	ND		0.50	0.063	ug/L			05/11/13 15:53	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/11/13 15:53	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/11/13 15:53	1
Dibromomethane	ND		0.50	0.17	ug/L			05/11/13 15:53	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/11/13 15:53	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/11/13 15:53	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/11/13 15:53	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/11/13 15:53	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/11/13 15:53	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/11/13 15:53	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/11/13 15:53	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38025-1

Client Sample ID: 20 Deerfield Ln.

Lab Sample ID: 480-38025-1

Date Collected: 05/08/13 09:35

Matrix: Water

Date Received: 05/10/13 01:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/11/13 15:53	1
Naphthalene	ND		0.50	0.060	ug/L			05/11/13 15:53	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/11/13 15:53	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/11/13 15:53	1
o-Xylene	ND		0.50	0.044	ug/L			05/11/13 15:53	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/11/13 15:53	1
Styrene	ND		0.50	0.044	ug/L			05/11/13 15:53	1
t-Butanol	ND		10	2.5	ug/L			05/11/13 15:53	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/11/13 15:53	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/11/13 15:53	1
Toluene	ND		0.50	0.10	ug/L			05/11/13 15:53	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/11/13 15:53	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/11/13 15:53	1
Trichloroethene	ND		0.50	0.060	ug/L			05/11/13 15:53	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/11/13 15:53	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/11/13 15:53	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/11/13 15:53	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/11/13 15:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*104*		*80 - 120*		*05/11/13 15:53*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*05/11/13 15:53*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		05/11/13 11:24	05/13/13 18:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*72*		*70 - 130*	*05/11/13 11:24*	*05/13/13 18:51*	*1*

Client Sample ID: 70B Deerfield Ln.

Lab Sample ID: 480-38025-3

Date Collected: 05/08/13 10:20

Matrix: Water

Date Received: 05/10/13 01:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/11/13 16:42	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/11/13 16:42	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/11/13 16:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/11/13 16:42	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/11/13 16:42	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/11/13 16:42	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/11/13 16:42	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/11/13 16:42	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/11/13 16:42	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/11/13 16:42	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/11/13 16:42	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/11/13 16:42	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/11/13 16:42	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/11/13 16:42	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38025-1

Client Sample ID: 70B Deerfield Ln.
Date Collected: 05/08/13 10:20
Date Received: 05/10/13 01:30

Lab Sample ID: 480-38025-3
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/11/13 16:42	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/11/13 16:42	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/11/13 16:42	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/11/13 16:42	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/11/13 16:42	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/11/13 16:42	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/11/13 16:42	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/11/13 16:42	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/11/13 16:42	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/11/13 16:42	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/11/13 16:42	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/11/13 16:42	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/11/13 16:42	1
Acetone	**1.3**	**J ***	2.5	0.54	ug/L			05/11/13 16:42	1
Benzene	ND		0.50	0.13	ug/L			05/11/13 16:42	1
Bromobenzene	ND		0.50	0.13	ug/L			05/11/13 16:42	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/11/13 16:42	1
Bromoform	ND		0.50	0.13	ug/L			05/11/13 16:42	1
Bromomethane	ND		0.50	0.051	ug/L			05/11/13 16:42	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/11/13 16:42	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/11/13 16:42	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/11/13 16:42	1
Chloroethane	ND		0.50	0.070	ug/L			05/11/13 16:42	1
Chloroform	**0.51**		0.50	0.14	ug/L			05/11/13 16:42	1
Chloromethane	ND		0.50	0.063	ug/L			05/11/13 16:42	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/11/13 16:42	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/11/13 16:42	1
Dibromomethane	ND		0.50	0.17	ug/L			05/11/13 16:42	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/11/13 16:42	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/11/13 16:42	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/11/13 16:42	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/11/13 16:42	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/11/13 16:42	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/11/13 16:42	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/11/13 16:42	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/11/13 16:42	1
Naphthalene	ND		0.50	0.060	ug/L			05/11/13 16:42	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/11/13 16:42	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/11/13 16:42	1
o-Xylene	ND		0.50	0.044	ug/L			05/11/13 16:42	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/11/13 16:42	1
Styrene	ND		0.50	0.044	ug/L			05/11/13 16:42	1
t-Butanol	ND		10	2.5	ug/L			05/11/13 16:42	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/11/13 16:42	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/11/13 16:42	1
Toluene	ND		0.50	0.10	ug/L			05/11/13 16:42	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/11/13 16:42	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/11/13 16:42	1
Trichloroethene	ND		0.50	0.060	ug/L			05/11/13 16:42	1

Client Sample ID: 70B Deerfield Ln.

Lab Sample ID: 480-38025-3

Date Collected: 05/08/13 10:20

Matrix: Water

Date Received: 05/10/13 01:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/11/13 16:42	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/11/13 16:42	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/11/13 16:42	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/11/13 16:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*109*		*80 - 120*		*05/11/13 16:42*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*05/11/13 16:42*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.048	J	0.20	0.041	ug/L		05/11/13 11:24	05/13/13 19:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*81*		*70 - 130*	*05/11/13 11:24*	*05/13/13 19:07*	*1*

Client Sample ID: 105 Deerfield Ln.

Lab Sample ID: 480-38025-5

Date Collected: 05/08/13 10:55

Matrix: Water

Date Received: 05/10/13 01:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/11/13 17:31	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/11/13 17:31	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/11/13 17:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/11/13 17:31	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/11/13 17:31	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/11/13 17:31	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/11/13 17:31	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/11/13 17:31	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/11/13 17:31	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/11/13 17:31	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/11/13 17:31	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/11/13 17:31	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/11/13 17:31	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/11/13 17:31	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/11/13 17:31	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/11/13 17:31	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/11/13 17:31	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/11/13 17:31	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/11/13 17:31	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/11/13 17:31	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/11/13 17:31	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/11/13 17:31	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/11/13 17:31	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/11/13 17:31	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/11/13 17:31	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/11/13 17:31	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/11/13 17:31	1
Acetone	ND	*	2.5	0.54	ug/L			05/11/13 17:31	1

Client Sample ID: 105 Deerfield Ln.
Date Collected: 05/08/13 10:55
Date Received: 05/10/13 01:30

Lab Sample ID: 480-38025-5
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.13	ug/L			05/11/13 17:31	1
Bromobenzene	ND		0.50	0.13	ug/L			05/11/13 17:31	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/11/13 17:31	1
Bromoform	ND		0.50	0.13	ug/L			05/11/13 17:31	1
Bromomethane	ND		0.50	0.051	ug/L			05/11/13 17:31	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/11/13 17:31	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/11/13 17:31	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/11/13 17:31	1
Chloroethane	ND		0.50	0.070	ug/L			05/11/13 17:31	1
Chloroform	**0.79**		0.50	0.14	ug/L			05/11/13 17:31	1
Chloromethane	ND		0.50	0.063	ug/L			05/11/13 17:31	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/11/13 17:31	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/11/13 17:31	1
Dibromomethane	ND		0.50	0.17	ug/L			05/11/13 17:31	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/11/13 17:31	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/11/13 17:31	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/11/13 17:31	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/11/13 17:31	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/11/13 17:31	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/11/13 17:31	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/11/13 17:31	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/11/13 17:31	1
Naphthalene	ND		0.50	0.060	ug/L			05/11/13 17:31	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/11/13 17:31	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/11/13 17:31	1
o-Xylene	ND		0.50	0.044	ug/L			05/11/13 17:31	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/11/13 17:31	1
Styrene	ND		0.50	0.044	ug/L			05/11/13 17:31	1
t-Butanol	ND		10	2.5	ug/L			05/11/13 17:31	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/11/13 17:31	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/11/13 17:31	1
Toluene	ND		0.50	0.10	ug/L			05/11/13 17:31	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/11/13 17:31	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/11/13 17:31	1
Trichloroethene	ND		0.50	0.060	ug/L			05/11/13 17:31	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/11/13 17:31	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/11/13 17:31	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/11/13 17:31	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/11/13 17:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*106*		*80 - 120*		*05/11/13 17:31*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*05/11/13 17:31*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**0.067**	**J**	0.20	0.041	ug/L		05/11/13 11:24	05/13/13 19:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*79*		*70 - 130*	*05/11/13 11:24*	*05/13/13 19:23*	*1*

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38025-1

Client Sample ID: 4 Eldia Way
Date Collected: 05/08/13 11:35
Date Received: 05/10/13 01:30

Lab Sample ID: 480-38025-7
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/11/13 18:20	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/11/13 18:20	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/11/13 18:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/11/13 18:20	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/11/13 18:20	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/11/13 18:20	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/11/13 18:20	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/11/13 18:20	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/11/13 18:20	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/11/13 18:20	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/11/13 18:20	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/11/13 18:20	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/11/13 18:20	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/11/13 18:20	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/11/13 18:20	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/11/13 18:20	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/11/13 18:20	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/11/13 18:20	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/11/13 18:20	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/11/13 18:20	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/11/13 18:20	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/11/13 18:20	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/11/13 18:20	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/11/13 18:20	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/11/13 18:20	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/11/13 18:20	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/11/13 18:20	1
Acetone	**1.1**	**J ***	2.5	0.54	ug/L			05/11/13 18:20	1
Benzene	ND		0.50	0.13	ug/L			05/11/13 18:20	1
Bromobenzene	ND		0.50	0.13	ug/L			05/11/13 18:20	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/11/13 18:20	1
Bromoform	ND		0.50	0.13	ug/L			05/11/13 18:20	1
Bromomethane	ND		0.50	0.051	ug/L			05/11/13 18:20	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/11/13 18:20	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/11/13 18:20	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/11/13 18:20	1
Chloroethane	ND		0.50	0.070	ug/L			05/11/13 18:20	1
Chloroform	ND		0.50	0.14	ug/L			05/11/13 18:20	1
Chloromethane	ND		0.50	0.063	ug/L			05/11/13 18:20	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/11/13 18:20	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/11/13 18:20	1
Dibromomethane	ND		0.50	0.17	ug/L			05/11/13 18:20	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/11/13 18:20	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/11/13 18:20	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/11/13 18:20	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/11/13 18:20	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/11/13 18:20	1
Methyl tert-butyl ether	**0.20**	**J**	0.50	0.12	ug/L			05/11/13 18:20	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/11/13 18:20	1

Client Sample ID: 4 Eldia Way

Lab Sample ID: 480-38025-7

Date Collected: 05/08/13 11:35

Matrix: Water

Date Received: 05/10/13 01:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/11/13 18:20	1
Naphthalene	ND		0.50	0.060	ug/L			05/11/13 18:20	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/11/13 18:20	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/11/13 18:20	1
o-Xylene	ND		0.50	0.044	ug/L			05/11/13 18:20	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/11/13 18:20	1
Styrene	ND		0.50	0.044	ug/L			05/11/13 18:20	1
t-Butanol	ND		10	2.5	ug/L			05/11/13 18:20	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/11/13 18:20	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/11/13 18:20	1
Toluene	ND		0.50	0.10	ug/L			05/11/13 18:20	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/11/13 18:20	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/11/13 18:20	1
Trichloroethene	ND		0.50	0.060	ug/L			05/11/13 18:20	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/11/13 18:20	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/11/13 18:20	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/11/13 18:20	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/11/13 18:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*105*		*80 - 120*		*05/11/13 18:20*	*1*
4-Bromofluorobenzene (Surr)	*110*		*80 - 120*		*05/11/13 18:20*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**0.089**	**J**	0.20	0.041	ug/L		05/11/13 11:24	05/13/13 19:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*79*		*70 - 130*	*05/11/13 11:24*	*05/13/13 19:40*	*1*

Client Sample ID: 125 Meetinghouse Rd.

Lab Sample ID: 480-38025-9

Date Collected: 05/08/13 12:25

Matrix: Water

Date Received: 05/10/13 01:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/11/13 19:09	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/11/13 19:09	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/11/13 19:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/11/13 19:09	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/11/13 19:09	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/11/13 19:09	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/11/13 19:09	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/11/13 19:09	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/11/13 19:09	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/11/13 19:09	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/11/13 19:09	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/11/13 19:09	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/11/13 19:09	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/11/13 19:09	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38025-1

Client Sample ID: 125 Meetinghouse Rd.
Date Collected: 05/08/13 12:25
Date Received: 05/10/13 01:30

Lab Sample ID: 480-38025-9
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/11/13 19:09	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/11/13 19:09	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/11/13 19:09	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/11/13 19:09	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/11/13 19:09	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/11/13 19:09	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/11/13 19:09	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/11/13 19:09	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/11/13 19:09	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/11/13 19:09	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/11/13 19:09	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/11/13 19:09	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/11/13 19:09	1
Acetone	ND	*	2.5	0.54	ug/L			05/11/13 19:09	1
Benzene	ND		0.50	0.13	ug/L			05/11/13 19:09	1
Bromobenzene	ND		0.50	0.13	ug/L			05/11/13 19:09	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/11/13 19:09	1
Bromoform	ND		0.50	0.13	ug/L			05/11/13 19:09	1
Bromomethane	ND		0.50	0.051	ug/L			05/11/13 19:09	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/11/13 19:09	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/11/13 19:09	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/11/13 19:09	1
Chloroethane	ND		0.50	0.070	ug/L			05/11/13 19:09	1
Chloroform	ND		0.50	0.14	ug/L			05/11/13 19:09	1
Chloromethane	ND		0.50	0.063	ug/L			05/11/13 19:09	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/11/13 19:09	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/11/13 19:09	1
Dibromomethane	ND		0.50	0.17	ug/L			05/11/13 19:09	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/11/13 19:09	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/11/13 19:09	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/11/13 19:09	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/11/13 19:09	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/11/13 19:09	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/11/13 19:09	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/11/13 19:09	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/11/13 19:09	1
Naphthalene	ND		0.50	0.060	ug/L			05/11/13 19:09	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/11/13 19:09	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/11/13 19:09	1
o-Xylene	ND		0.50	0.044	ug/L			05/11/13 19:09	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/11/13 19:09	1
Styrene	ND		0.50	0.044	ug/L			05/11/13 19:09	1
t-Butanol	ND		10	2.5	ug/L			05/11/13 19:09	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/11/13 19:09	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/11/13 19:09	1
Toluene	ND		0.50	0.10	ug/L			05/11/13 19:09	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/11/13 19:09	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/11/13 19:09	1
Trichloroethene	ND		0.50	0.060	ug/L			05/11/13 19:09	1

Client Sample ID: 125 Meetinghouse Rd.

Lab Sample ID: 480-38025-9

Date Collected: 05/08/13 12:25

Matrix: Water

Date Received: 05/10/13 01:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/11/13 19:09	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/11/13 19:09	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/11/13 19:09	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/11/13 19:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*106*		*80 - 120*		*05/11/13 19:09*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*05/11/13 19:09*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**0.15**	**J**	0.20	0.041	ug/L		05/11/13 11:24	05/13/13 19:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*73*		*70 - 130*	*05/11/13 11:24*	*05/13/13 19:56*	*1*

Client Sample ID: 285 Alston Ave.(RES-20)

Lab Sample ID: 480-38025-11

Date Collected: 05/08/13 13:10

Matrix: Water

Date Received: 05/10/13 01:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/11/13 19:58	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/11/13 19:58	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/11/13 19:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/11/13 19:58	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/11/13 19:58	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/11/13 19:58	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/11/13 19:58	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/11/13 19:58	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/11/13 19:58	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/11/13 19:58	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/11/13 19:58	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/11/13 19:58	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/11/13 19:58	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/11/13 19:58	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/11/13 19:58	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/11/13 19:58	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/11/13 19:58	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/11/13 19:58	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/11/13 19:58	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/11/13 19:58	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/11/13 19:58	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/11/13 19:58	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/11/13 19:58	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/11/13 19:58	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/11/13 19:58	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/11/13 19:58	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/11/13 19:58	1
Acetone	ND	*	2.5	0.54	ug/L			05/11/13 19:58	1

Client Sample ID: 285 Alston Ave.(RES-20)
Date Collected: 05/08/13 13:10
Date Received: 05/10/13 01:30

Lab Sample ID: 480-38025-11
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.13	ug/L			05/11/13 19:58	1
Bromobenzene	ND		0.50	0.13	ug/L			05/11/13 19:58	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/11/13 19:58	1
Bromoform	ND		0.50	0.13	ug/L			05/11/13 19:58	1
Bromomethane	ND		0.50	0.051	ug/L			05/11/13 19:58	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/11/13 19:58	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/11/13 19:58	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/11/13 19:58	1
Chloroethane	ND		0.50	0.070	ug/L			05/11/13 19:58	1
Chloroform	**0.47**	**J**	0.50	0.14	ug/L			05/11/13 19:58	1
Chloromethane	ND		0.50	0.063	ug/L			05/11/13 19:58	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/11/13 19:58	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/11/13 19:58	1
Dibromomethane	ND		0.50	0.17	ug/L			05/11/13 19:58	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/11/13 19:58	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/11/13 19:58	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/11/13 19:58	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/11/13 19:58	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/11/13 19:58	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/11/13 19:58	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/11/13 19:58	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/11/13 19:58	1
Naphthalene	ND		0.50	0.060	ug/L			05/11/13 19:58	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/11/13 19:58	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/11/13 19:58	1
o-Xylene	ND		0.50	0.044	ug/L			05/11/13 19:58	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/11/13 19:58	1
Styrene	ND		0.50	0.044	ug/L			05/11/13 19:58	1
t-Butanol	ND		10	2.5	ug/L			05/11/13 19:58	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/11/13 19:58	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/11/13 19:58	1
Toluene	ND		0.50	0.10	ug/L			05/11/13 19:58	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/11/13 19:58	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/11/13 19:58	1
Trichloroethene	ND		0.50	0.060	ug/L			05/11/13 19:58	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/11/13 19:58	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/11/13 19:58	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/11/13 19:58	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/11/13 19:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*107*		*80 - 120*		*05/11/13 19:58*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*05/11/13 19:58*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**0.35**		0.20	0.041	ug/L		05/11/13 11:24	05/13/13 20:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*76*		*70 - 130*	*05/11/13 11:24*	*05/13/13 20:12*	*1*

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38025-1

Client Sample ID: 100 Meetinghouse Rd. (RES-8)
Date Collected: 05/08/13 13:55
Date Received: 05/10/13 01:30

Lab Sample ID: 480-38025-13
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/11/13 20:47	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/11/13 20:47	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/11/13 20:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/11/13 20:47	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/11/13 20:47	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/11/13 20:47	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/11/13 20:47	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/11/13 20:47	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/11/13 20:47	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/11/13 20:47	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/11/13 20:47	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/11/13 20:47	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/11/13 20:47	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/11/13 20:47	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/11/13 20:47	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/11/13 20:47	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/11/13 20:47	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/11/13 20:47	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/11/13 20:47	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/11/13 20:47	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/11/13 20:47	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/11/13 20:47	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/11/13 20:47	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/11/13 20:47	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/11/13 20:47	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/11/13 20:47	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/11/13 20:47	1
Acetone	ND	*	2.5	0.54	ug/L			05/11/13 20:47	1
Benzene	ND		0.50	0.13	ug/L			05/11/13 20:47	1
Bromobenzene	ND		0.50	0.13	ug/L			05/11/13 20:47	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/11/13 20:47	1
Bromoform	ND		0.50	0.13	ug/L			05/11/13 20:47	1
Bromomethane	ND		0.50	0.051	ug/L			05/11/13 20:47	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/11/13 20:47	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/11/13 20:47	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/11/13 20:47	1
Chloroethane	ND		0.50	0.070	ug/L			05/11/13 20:47	1
Chloroform	**0.46**	**J**	0.50	0.14	ug/L			05/11/13 20:47	1
Chloromethane	ND		0.50	0.063	ug/L			05/11/13 20:47	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/11/13 20:47	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/11/13 20:47	1
Dibromomethane	ND		0.50	0.17	ug/L			05/11/13 20:47	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/11/13 20:47	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/11/13 20:47	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/11/13 20:47	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/11/13 20:47	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/11/13 20:47	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/11/13 20:47	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/11/13 20:47	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38025-1

Client Sample ID: 100 Meetinghouse Rd. (RES-8)

Lab Sample ID: 480-38025-13

Date Collected: 05/08/13 13:55

Matrix: Water

Date Received: 05/10/13 01:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/11/13 20:47	1
Naphthalene	ND		0.50	0.060	ug/L			05/11/13 20:47	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/11/13 20:47	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/11/13 20:47	1
o-Xylene	ND		0.50	0.044	ug/L			05/11/13 20:47	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/11/13 20:47	1
Styrene	ND		0.50	0.044	ug/L			05/11/13 20:47	1
t-Butanol	ND		10	2.5	ug/L			05/11/13 20:47	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/11/13 20:47	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/11/13 20:47	1
Toluene	ND		0.50	0.10	ug/L			05/11/13 20:47	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/11/13 20:47	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/11/13 20:47	1
Trichloroethene	ND		0.50	0.060	ug/L			05/11/13 20:47	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/11/13 20:47	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/11/13 20:47	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/11/13 20:47	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/11/13 20:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*109*		*80 - 120*		*05/11/13 20:47*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*05/11/13 20:47*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**1.8**		0.20	0.041	ug/L		05/11/13 11:24	05/13/13 20:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*85*		*70 - 130*	*05/11/13 11:24*	*05/13/13 20:28*	*1*

Client Sample ID: 180 Old Orchard Rd. (RES-1)

Lab Sample ID: 480-38025-15

Date Collected: 05/08/13 14:25

Matrix: Water

Date Received: 05/10/13 01:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/11/13 21:37	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/11/13 21:37	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/11/13 21:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/11/13 21:37	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/11/13 21:37	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/11/13 21:37	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/11/13 21:37	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/11/13 21:37	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/11/13 21:37	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/11/13 21:37	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/11/13 21:37	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/11/13 21:37	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/11/13 21:37	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/11/13 21:37	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38025-1

Client Sample ID: 180 Old Orchard Rd. (RES-1)
Date Collected: 05/08/13 14:25
Date Received: 05/10/13 01:30

Lab Sample ID: 480-38025-15
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/11/13 21:37	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/11/13 21:37	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/11/13 21:37	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/11/13 21:37	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/11/13 21:37	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/11/13 21:37	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/11/13 21:37	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/11/13 21:37	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/11/13 21:37	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/11/13 21:37	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/11/13 21:37	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/11/13 21:37	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/11/13 21:37	1
Acetone	ND	*	2.5	0.54	ug/L			05/11/13 21:37	1
Benzene	ND		0.50	0.13	ug/L			05/11/13 21:37	1
Bromobenzene	ND		0.50	0.13	ug/L			05/11/13 21:37	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/11/13 21:37	1
Bromoform	ND		0.50	0.13	ug/L			05/11/13 21:37	1
Bromomethane	ND		0.50	0.051	ug/L			05/11/13 21:37	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/11/13 21:37	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/11/13 21:37	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/11/13 21:37	1
Chloroethane	ND		0.50	0.070	ug/L			05/11/13 21:37	1
Chloroform	**0.54**		0.50	0.14	ug/L			05/11/13 21:37	1
Chloromethane	ND		0.50	0.063	ug/L			05/11/13 21:37	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/11/13 21:37	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/11/13 21:37	1
Dibromomethane	ND		0.50	0.17	ug/L			05/11/13 21:37	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/11/13 21:37	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/11/13 21:37	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/11/13 21:37	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/11/13 21:37	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/11/13 21:37	1
Methyl tert-butyl ether	**0.25**	**J**	0.50	0.12	ug/L			05/11/13 21:37	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/11/13 21:37	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/11/13 21:37	1
Naphthalene	ND		0.50	0.060	ug/L			05/11/13 21:37	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/11/13 21:37	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/11/13 21:37	1
o-Xylene	ND		0.50	0.044	ug/L			05/11/13 21:37	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/11/13 21:37	1
Styrene	ND		0.50	0.044	ug/L			05/11/13 21:37	1
t-Butanol	ND		10	2.5	ug/L			05/11/13 21:37	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/11/13 21:37	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/11/13 21:37	1
Toluene	ND		0.50	0.10	ug/L			05/11/13 21:37	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/11/13 21:37	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/11/13 21:37	1
Trichloroethene	ND		0.50	0.060	ug/L			05/11/13 21:37	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38025-1

Client Sample ID: 180 Old Orchard Rd. (RES-1)

Lab Sample ID: 480-38025-15

Date Collected: 05/08/13 14:25
Matrix: Water
Date Received: 05/10/13 01:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/11/13 21:37	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/11/13 21:37	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/11/13 21:37	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/11/13 21:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*106*		*80 - 120*		*05/11/13 21:37*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*05/11/13 21:37*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**0.52**		0.20	0.041	ug/L		05/11/13 11:24	05/13/13 20:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*80*		*70 - 130*	*05/11/13 11:24*	*05/13/13 20:45*	*1*

Client Sample ID: 230 Schoolhouse Rd.

Lab Sample ID: 480-38025-17

Date Collected: 05/08/13 15:35
Matrix: Water
Date Received: 05/10/13 01:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/11/13 19:28	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/11/13 19:28	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/11/13 19:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/11/13 19:28	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/11/13 19:28	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/11/13 19:28	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/11/13 19:28	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/11/13 19:28	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/11/13 19:28	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/11/13 19:28	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/11/13 19:28	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/11/13 19:28	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/11/13 19:28	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/11/13 19:28	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/11/13 19:28	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/11/13 19:28	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/11/13 19:28	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/11/13 19:28	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/11/13 19:28	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/11/13 19:28	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/11/13 19:28	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/11/13 19:28	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/11/13 19:28	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/11/13 19:28	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/11/13 19:28	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/11/13 19:28	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/11/13 19:28	1
Acetone	**0.93**	**J B**	2.5	0.54	ug/L			05/11/13 19:28	1

Client Sample ID: 230 Schoolhouse Rd.
Date Collected: 05/08/13 15:35
Date Received: 05/10/13 01:30

Lab Sample ID: 480-38025-17
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.13	ug/L			05/11/13 19:28	1
Bromobenzene	ND		0.50	0.13	ug/L			05/11/13 19:28	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/11/13 19:28	1
Bromoform	ND		0.50	0.13	ug/L			05/11/13 19:28	1
Bromomethane	ND		0.50	0.051	ug/L			05/11/13 19:28	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/11/13 19:28	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/11/13 19:28	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/11/13 19:28	1
Chloroethane	ND		0.50	0.070	ug/L			05/11/13 19:28	1
Chloroform	ND		0.50	0.14	ug/L			05/11/13 19:28	1
Chloromethane	ND		0.50	0.063	ug/L			05/11/13 19:28	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/11/13 19:28	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/11/13 19:28	1
Dibromomethane	ND		0.50	0.17	ug/L			05/11/13 19:28	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/11/13 19:28	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/11/13 19:28	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/11/13 19:28	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/11/13 19:28	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/11/13 19:28	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/11/13 19:28	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/11/13 19:28	1
m-Xylene & p-Xylene	**0.24**	**J**	1.0	0.087	ug/L			05/11/13 19:28	1
Naphthalene	ND		0.50	0.060	ug/L			05/11/13 19:28	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/11/13 19:28	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/11/13 19:28	1
o-Xylene	**0.063**	**J**	0.50	0.044	ug/L			05/11/13 19:28	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/11/13 19:28	1
Styrene	ND		0.50	0.044	ug/L			05/11/13 19:28	1
t-Butanol	ND		10	2.5	ug/L			05/11/13 19:28	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/11/13 19:28	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/11/13 19:28	1
Toluene	ND		0.50	0.10	ug/L			05/11/13 19:28	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/11/13 19:28	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/11/13 19:28	1
Trichloroethene	ND		0.50	0.060	ug/L			05/11/13 19:28	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/11/13 19:28	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/11/13 19:28	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/11/13 19:28	1
Xylenes, Total	**0.30**	**J**	1.0	0.20	ug/L			05/11/13 19:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*106*		*80 - 120*		*05/11/13 19:28*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*05/11/13 19:28*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		05/11/13 11:24	05/13/13 21:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*86*		*70 - 130*	*05/11/13 11:24*	*05/13/13 21:17*	*1*

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38025-1

Client Sample ID: 100 Glacier Hills Rd.
Date Collected: 05/08/13 13:20
Date Received: 05/10/13 01:30

Lab Sample ID: 480-38025-19
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/11/13 20:18	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/11/13 20:18	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/11/13 20:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/11/13 20:18	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/11/13 20:18	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/11/13 20:18	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/11/13 20:18	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/11/13 20:18	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/11/13 20:18	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/11/13 20:18	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/11/13 20:18	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/11/13 20:18	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/11/13 20:18	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/11/13 20:18	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/11/13 20:18	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/11/13 20:18	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/11/13 20:18	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/11/13 20:18	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/11/13 20:18	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/11/13 20:18	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/11/13 20:18	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/11/13 20:18	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/11/13 20:18	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/11/13 20:18	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/11/13 20:18	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/11/13 20:18	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/11/13 20:18	1
Acetone	**0.75**	**J B**	2.5	0.54	ug/L			05/11/13 20:18	1
Benzene	ND		0.50	0.13	ug/L			05/11/13 20:18	1
Bromobenzene	ND		0.50	0.13	ug/L			05/11/13 20:18	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/11/13 20:18	1
Bromoform	ND		0.50	0.13	ug/L			05/11/13 20:18	1
Bromomethane	ND		0.50	0.051	ug/L			05/11/13 20:18	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/11/13 20:18	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/11/13 20:18	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/11/13 20:18	1
Chloroethane	ND		0.50	0.070	ug/L			05/11/13 20:18	1
Chloroform	**0.19**	**J**	0.50	0.14	ug/L			05/11/13 20:18	1
Chloromethane	ND		0.50	0.063	ug/L			05/11/13 20:18	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/11/13 20:18	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/11/13 20:18	1
Dibromomethane	ND		0.50	0.17	ug/L			05/11/13 20:18	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/11/13 20:18	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/11/13 20:18	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/11/13 20:18	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/11/13 20:18	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/11/13 20:18	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/11/13 20:18	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/11/13 20:18	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38025-1

Client Sample ID: 100 Glacier Hills Rd.

Lab Sample ID: 480-38025-19

Date Collected: 05/08/13 13:20
Matrix: Water
Date Received: 05/10/13 01:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/11/13 20:18	1
Naphthalene	ND		0.50	0.060	ug/L			05/11/13 20:18	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/11/13 20:18	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/11/13 20:18	1
o-Xylene	ND		0.50	0.044	ug/L			05/11/13 20:18	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/11/13 20:18	1
Styrene	ND		0.50	0.044	ug/L			05/11/13 20:18	1
t-Butanol	ND		10	2.5	ug/L			05/11/13 20:18	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/11/13 20:18	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/11/13 20:18	1
Toluene	ND		0.50	0.10	ug/L			05/11/13 20:18	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/11/13 20:18	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/11/13 20:18	1
Trichloroethene	ND		0.50	0.060	ug/L			05/11/13 20:18	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/11/13 20:18	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/11/13 20:18	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/11/13 20:18	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/11/13 20:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*102*		*80 - 120*		*05/11/13 20:18*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*05/11/13 20:18*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**0.058**	**J**	0.20	0.041	ug/L		05/11/13 11:24	05/13/13 21:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*91*		*70 - 130*	*05/11/13 11:24*	*05/13/13 21:33*	*1*

Client Sample ID: 200 Candlewood Dr.

Lab Sample ID: 480-38025-21

Date Collected: 05/08/13 13:50
Matrix: Water
Date Received: 05/10/13 01:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/11/13 21:09	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/11/13 21:09	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/11/13 21:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/11/13 21:09	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/11/13 21:09	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/11/13 21:09	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/11/13 21:09	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/11/13 21:09	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/11/13 21:09	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/11/13 21:09	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/11/13 21:09	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/11/13 21:09	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/11/13 21:09	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/11/13 21:09	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38025-1

Client Sample ID: 200 Candlewood Dr.
Date Collected: 05/08/13 13:50
Date Received: 05/10/13 01:30

Lab Sample ID: 480-38025-21
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/11/13 21:09	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/11/13 21:09	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/11/13 21:09	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/11/13 21:09	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/11/13 21:09	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/11/13 21:09	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/11/13 21:09	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/11/13 21:09	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/11/13 21:09	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/11/13 21:09	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/11/13 21:09	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/11/13 21:09	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/11/13 21:09	1
Acetone	ND		2.5	0.54	ug/L			05/11/13 21:09	1
Benzene	ND		0.50	0.13	ug/L			05/11/13 21:09	1
Bromobenzene	ND		0.50	0.13	ug/L			05/11/13 21:09	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/11/13 21:09	1
Bromoform	ND		0.50	0.13	ug/L			05/11/13 21:09	1
Bromomethane	ND		0.50	0.051	ug/L			05/11/13 21:09	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/11/13 21:09	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/11/13 21:09	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/11/13 21:09	1
Chloroethane	ND		0.50	0.070	ug/L			05/11/13 21:09	1
Chloroform	**0.49**	**J**	0.50	0.14	ug/L			05/11/13 21:09	1
Chloromethane	ND		0.50	0.063	ug/L			05/11/13 21:09	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/11/13 21:09	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/11/13 21:09	1
Dibromomethane	ND		0.50	0.17	ug/L			05/11/13 21:09	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/11/13 21:09	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/11/13 21:09	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/11/13 21:09	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/11/13 21:09	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/11/13 21:09	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/11/13 21:09	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/11/13 21:09	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/11/13 21:09	1
Naphthalene	ND		0.50	0.060	ug/L			05/11/13 21:09	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/11/13 21:09	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/11/13 21:09	1
o-Xylene	ND		0.50	0.044	ug/L			05/11/13 21:09	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/11/13 21:09	1
Styrene	ND		0.50	0.044	ug/L			05/11/13 21:09	1
t-Butanol	ND		10	2.5	ug/L			05/11/13 21:09	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/11/13 21:09	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/11/13 21:09	1
Toluene	ND		0.50	0.10	ug/L			05/11/13 21:09	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/11/13 21:09	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/11/13 21:09	1
Trichloroethene	ND		0.50	0.060	ug/L			05/11/13 21:09	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38025-1

Client Sample ID: 200 Candlewood Dr.

Lab Sample ID: 480-38025-21

Date Collected: 05/08/13 13:50

Matrix: Water

Date Received: 05/10/13 01:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/11/13 21:09	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/11/13 21:09	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/11/13 21:09	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/11/13 21:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*105*		*80 - 120*		*05/11/13 21:09*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*05/11/13 21:09*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		05/11/13 11:24	05/13/13 21:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*86*		*70 - 130*	*05/11/13 11:24*	*05/13/13 21:50*	*1*

Client Sample ID: 395 Candlewood Dr.

Lab Sample ID: 480-38025-23

Date Collected: 05/08/13 14:15

Matrix: Water

Date Received: 05/10/13 01:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/11/13 21:59	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/11/13 21:59	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/11/13 21:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/11/13 21:59	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/11/13 21:59	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/11/13 21:59	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/11/13 21:59	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/11/13 21:59	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/11/13 21:59	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/11/13 21:59	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/11/13 21:59	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/11/13 21:59	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/11/13 21:59	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/11/13 21:59	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/11/13 21:59	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/11/13 21:59	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/11/13 21:59	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/11/13 21:59	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/11/13 21:59	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/11/13 21:59	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/11/13 21:59	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/11/13 21:59	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/11/13 21:59	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/11/13 21:59	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/11/13 21:59	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/11/13 21:59	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/11/13 21:59	1
Acetone	**0.60**	**J B**	2.5	0.54	ug/L			05/11/13 21:59	1

Client Sample ID: 395 Candlewood Dr.
Date Collected: 05/08/13 14:15
Date Received: 05/10/13 01:30

Lab Sample ID: 480-38025-23
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.13	ug/L			05/11/13 21:59	1
Bromobenzene	ND		0.50	0.13	ug/L			05/11/13 21:59	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/11/13 21:59	1
Bromoform	ND		0.50	0.13	ug/L			05/11/13 21:59	1
Bromomethane	ND		0.50	0.051	ug/L			05/11/13 21:59	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/11/13 21:59	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/11/13 21:59	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/11/13 21:59	1
Chloroethane	ND		0.50	0.070	ug/L			05/11/13 21:59	1
Chloroform	**0.61**		0.50	0.14	ug/L			05/11/13 21:59	1
Chloromethane	ND		0.50	0.063	ug/L			05/11/13 21:59	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/11/13 21:59	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/11/13 21:59	1
Dibromomethane	ND		0.50	0.17	ug/L			05/11/13 21:59	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/11/13 21:59	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/11/13 21:59	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/11/13 21:59	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/11/13 21:59	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/11/13 21:59	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/11/13 21:59	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/11/13 21:59	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/11/13 21:59	1
Naphthalene	ND		0.50	0.060	ug/L			05/11/13 21:59	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/11/13 21:59	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/11/13 21:59	1
o-Xylene	ND		0.50	0.044	ug/L			05/11/13 21:59	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/11/13 21:59	1
Styrene	ND		0.50	0.044	ug/L			05/11/13 21:59	1
t-Butanol	ND		10	2.5	ug/L			05/11/13 21:59	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/11/13 21:59	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/11/13 21:59	1
Toluene	ND		0.50	0.10	ug/L			05/11/13 21:59	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/11/13 21:59	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/11/13 21:59	1
Trichloroethene	ND		0.50	0.060	ug/L			05/11/13 21:59	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/11/13 21:59	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/11/13 21:59	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/11/13 21:59	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/11/13 21:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*105*		*80 - 120*		*05/11/13 21:59*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*05/11/13 21:59*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		05/11/13 11:24	05/13/13 22:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*97*		*70 - 130*	*05/11/13 11:24*	*05/13/13 22:06*	*1*

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38025-1

Client Sample ID: Trip Blank
Date Collected: 05/08/13 08:05
Date Received: 05/10/13 01:30

Lab Sample ID: 480-38025-25
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/11/13 22:49	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/11/13 22:49	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/11/13 22:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/11/13 22:49	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/11/13 22:49	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/11/13 22:49	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/11/13 22:49	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/11/13 22:49	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/11/13 22:49	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/11/13 22:49	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/11/13 22:49	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/11/13 22:49	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/11/13 22:49	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/11/13 22:49	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/11/13 22:49	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/11/13 22:49	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/11/13 22:49	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/11/13 22:49	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/11/13 22:49	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/11/13 22:49	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/11/13 22:49	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/11/13 22:49	1
2-Butanone (MEK)	**0.97**	**J**	2.5	0.25	ug/L			05/11/13 22:49	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/11/13 22:49	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/11/13 22:49	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/11/13 22:49	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/11/13 22:49	1
Acetone	**4.3**	**B**	2.5	0.54	ug/L			05/11/13 22:49	1
Benzene	ND		0.50	0.13	ug/L			05/11/13 22:49	1
Bromobenzene	ND		0.50	0.13	ug/L			05/11/13 22:49	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/11/13 22:49	1
Bromoform	ND		0.50	0.13	ug/L			05/11/13 22:49	1
Bromomethane	ND		0.50	0.051	ug/L			05/11/13 22:49	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/11/13 22:49	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/11/13 22:49	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/11/13 22:49	1
Chloroethane	ND		0.50	0.070	ug/L			05/11/13 22:49	1
Chloroform	ND		0.50	0.14	ug/L			05/11/13 22:49	1
Chloromethane	ND		0.50	0.063	ug/L			05/11/13 22:49	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/11/13 22:49	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/11/13 22:49	1
Dibromomethane	ND		0.50	0.17	ug/L			05/11/13 22:49	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/11/13 22:49	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/11/13 22:49	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/11/13 22:49	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/11/13 22:49	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/11/13 22:49	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/11/13 22:49	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/11/13 22:49	1

Client Sample ID: Trip Blank
Date Collected: 05/08/13 08:05
Date Received: 05/10/13 01:30

Lab Sample ID: 480-38025-25
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/11/13 22:49	1
Naphthalene	ND		0.50	0.060	ug/L			05/11/13 22:49	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/11/13 22:49	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/11/13 22:49	1
o-Xylene	ND		0.50	0.044	ug/L			05/11/13 22:49	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/11/13 22:49	1
Styrene	ND		0.50	0.044	ug/L			05/11/13 22:49	1
t-Butanol	ND		10	2.5	ug/L			05/11/13 22:49	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/11/13 22:49	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/11/13 22:49	1
Toluene	ND		0.50	0.10	ug/L			05/11/13 22:49	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/11/13 22:49	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/11/13 22:49	1
Trichloroethene	ND		0.50	0.060	ug/L			05/11/13 22:49	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/11/13 22:49	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/11/13 22:49	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/11/13 22:49	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/11/13 22:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*104*		*80 - 120*		*05/11/13 22:49*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*05/11/13 22:49*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		05/11/13 11:24	05/13/13 22:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*88*		*70 - 130*	*05/11/13 11:24*	*05/13/13 22:22*	*1*

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
		12DCB	BFB						
Lab Sample ID	Client Sample ID	(80-120)	(80-120)						
480-38025-1	20 Deerfield Ln.	104	103						
480-38025-3	70B Deerfield Ln.	109	102						
480-38025-5	105 Deerfield Ln.	106	101						
480-38025-7	4 Eldia Way	105	110						
480-38025-9	125 Meetinghouse Rd.	106	99						
480-38025-11	285 Alston Ave.(RES-20)	107	98						
480-38025-13	100 Meetinghouse Rd. (RES-8)	109	97						
480-38025-15	180 Old Orchard Rd. (RES-1)	106	102						
480-38025-17	230 Schoolhouse Rd.	106	99						
480-38025-19	100 Glacier Hills Rd.	102	97						
480-38025-21	200 Candlewood Dr.	105	97						
480-38025-23	395 Candlewood Dr.	105	99						
480-38025-25	Trip Blank	104	100						
LCS 480-118096/5	Lab Control Sample	106	102						
LCS 480-118099/4	Lab Control Sample	101	99						
MB 480-118096/6	Method Blank	109	105						
MB 480-118099/5	Method Blank	105	98						

Surrogate Legend

12DCB = 1,2-Dichlorobenzene-d4

BFB = 4-Bromofluorobenzene (Surr)

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
		14DD8							
Lab Sample ID	Client Sample ID	(70-130)							
480-38025-1	20 Deerfield Ln.	72							
480-38025-3	70B Deerfield Ln.	81							
480-38025-5	105 Deerfield Ln.	79							
480-38025-7	4 Eldia Way	79							
480-38025-9	125 Meetinghouse Rd.	73							
480-38025-11	285 Alston Ave.(RES-20)	76							
480-38025-13	100 Meetinghouse Rd. (RES-8)	85							
480-38025-15	180 Old Orchard Rd. (RES-1)	80							
480-38025-17	230 Schoolhouse Rd.	86							
480-38025-19	100 Glacier Hills Rd.	91							
480-38025-21	200 Candlewood Dr.	86							
480-38025-23	395 Candlewood Dr.	97							
480-38025-25	Trip Blank	88							
LCS 200-55415/2-A	Lab Control Sample	79							
MB 200-55415/1-A	Method Blank	79							

Surrogate Legend

14DD8 = 1,4-Dioxane-d8 (Surr)

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38025-1

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-118096/6
Matrix: Water
Analysis Batch: 118096

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/11/13 13:50	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/11/13 13:50	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/11/13 13:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/11/13 13:50	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/11/13 13:50	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/11/13 13:50	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/11/13 13:50	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/11/13 13:50	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/11/13 13:50	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/11/13 13:50	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/11/13 13:50	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/11/13 13:50	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/11/13 13:50	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/11/13 13:50	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/11/13 13:50	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/11/13 13:50	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/11/13 13:50	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/11/13 13:50	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/11/13 13:50	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/11/13 13:50	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/11/13 13:50	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/11/13 13:50	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/11/13 13:50	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/11/13 13:50	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/11/13 13:50	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/11/13 13:50	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/11/13 13:50	1
Acetone	ND		2.5	0.54	ug/L			05/11/13 13:50	1
Benzene	ND		0.50	0.13	ug/L			05/11/13 13:50	1
Bromobenzene	ND		0.50	0.13	ug/L			05/11/13 13:50	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/11/13 13:50	1
Bromoform	ND		0.50	0.13	ug/L			05/11/13 13:50	1
Bromomethane	ND		0.50	0.051	ug/L			05/11/13 13:50	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/11/13 13:50	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/11/13 13:50	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/11/13 13:50	1
Chloroethane	ND		0.50	0.070	ug/L			05/11/13 13:50	1
Chloroform	ND		0.50	0.14	ug/L			05/11/13 13:50	1
Chloromethane	ND		0.50	0.063	ug/L			05/11/13 13:50	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/11/13 13:50	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/11/13 13:50	1
Dibromomethane	ND		0.50	0.17	ug/L			05/11/13 13:50	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/11/13 13:50	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/11/13 13:50	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/11/13 13:50	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/11/13 13:50	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/11/13 13:50	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/11/13 13:50	1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-118096/6
Matrix: Water
Analysis Batch: 118096

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		0.50	0.25	ug/L			05/11/13 13:50	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/11/13 13:50	1
Naphthalene	ND		0.50	0.060	ug/L			05/11/13 13:50	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/11/13 13:50	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/11/13 13:50	1
o-Xylene	ND		0.50	0.044	ug/L			05/11/13 13:50	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/11/13 13:50	1
Styrene	ND		0.50	0.044	ug/L			05/11/13 13:50	1
t-Butanol	ND		10	2.5	ug/L			05/11/13 13:50	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/11/13 13:50	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/11/13 13:50	1
Toluene	ND		0.50	0.10	ug/L			05/11/13 13:50	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/11/13 13:50	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/11/13 13:50	1
Trichloroethene	ND		0.50	0.060	ug/L			05/11/13 13:50	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/11/13 13:50	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/11/13 13:50	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/11/13 13:50	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/11/13 13:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*109*		*80 - 120*		*05/11/13 13:50*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*05/11/13 13:50*	*1*

Lab Sample ID: LCS 480-118096/5
Matrix: Water
Analysis Batch: 118096

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	4.00	4.38		ug/L		110	70 - 130
1,1,1-Trichloroethane	4.00	4.19		ug/L		105	70 - 130
1,1,2,2-Tetrachloroethane	4.00	3.47		ug/L		87	70 - 130
1,1,2-Trichloroethane	4.00	3.17		ug/L		79	70 - 130
1,1-Dichloroethane	4.00	4.02		ug/L		101	70 - 130
1,1-Dichloroethene	4.00	3.43		ug/L		86	70 - 130
1,1-Dichloropropene	4.00	3.99		ug/L		100	70 - 130
1,2,3-Trichlorobenzene	4.00	4.88		ug/L		122	70 - 130
1,2,3-Trichloropropane	4.00	4.09		ug/L		102	70 - 130
1,2,4-Trichlorobenzene	4.00	4.53		ug/L		113	70 - 130
1,2,4-Trimethylbenzene	4.00	3.91		ug/L		98	70 - 130
1,2-Dibromo-3-Chloropropane	4.00	4.42		ug/L		110	70 - 130
1,2-Dibromoethane	4.00	4.15		ug/L		104	70 - 130
1,2-Dichlorobenzene	4.00	4.17		ug/L		104	70 - 130
1,2-Dichloroethane	4.00	4.63		ug/L		116	70 - 130
1,2-Dichloropropane	4.00	3.96		ug/L		99	70 - 130
1,3,5-Trimethylbenzene	4.00	3.88		ug/L		97	70 - 130
1,3-Dichlorobenzene	4.00	4.06		ug/L		101	70 - 130
1,3-Dichloropropane	4.00	3.66		ug/L		92	70 - 130

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-118096/5
Matrix: Water
Analysis Batch: 118096

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	4.00	3.97		ug/L		99	70 - 130
2,2-Dichloropropane	4.00	3.66		ug/L		92	70 - 130
2-Butanone (MEK)	20.0	25.6		ug/L		128	70 - 130
2-Chlorotoluene	4.00	3.73		ug/L		93	70 - 130
4-Chlorotoluene	4.00	3.68		ug/L		92	70 - 130
4-Isopropyltoluene	4.00	3.93		ug/L		98	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	18.0		ug/L		90	70 - 130
Acetone	20.0	29.2	*	ug/L		146	70 - 130
Benzene	4.00	3.88		ug/L		97	70 - 130
Bromobenzene	4.00	4.02		ug/L		100	70 - 130
Bromochloromethane	4.00	4.18		ug/L		104	70 - 130
Bromoform	4.00	4.68		ug/L		117	70 - 130
Bromomethane	4.00	3.93		ug/L		98	70 - 130
Carbon tetrachloride	4.00	3.95		ug/L		99	70 - 130
Chlorobenzene	4.00	3.89		ug/L		97	70 - 130
Chlorodibromomethane	4.00	4.26		ug/L		106	70 - 130
Chloroethane	4.00	4.43		ug/L		111	70 - 130
Chloroform	4.00	3.90		ug/L		97	70 - 130
Chloromethane	4.00	3.48		ug/L		87	70 - 130
cis-1,2-Dichloroethene	4.00	4.22		ug/L		106	70 - 130
cis-1,3-Dichloropropene	4.00	3.12		ug/L		78	70 - 130
Dibromomethane	4.00	4.00		ug/L		100	70 - 130
Dichlorobromomethane	4.00	3.83		ug/L		96	70 - 130
Dichlorodifluoromethane	4.00	3.70		ug/L		93	70 - 130
Ethylbenzene	4.00	3.78		ug/L		95	70 - 130
Hexachlorobutadiene	4.00	4.54		ug/L		113	70 - 130
Isopropylbenzene	4.00	4.04		ug/L		101	70 - 130
Methyl tert-butyl ether	4.00	4.19		ug/L		105	70 - 130
Methylene Chloride	4.00	3.69		ug/L		92	70 - 130
Naphthalene	4.00	4.68		ug/L		117	70 - 130
n-Butylbenzene	4.00	3.72		ug/L		93	70 - 130
N-Propylbenzene	4.00	3.57		ug/L		89	70 - 130
sec-Butylbenzene	4.00	3.71		ug/L		93	70 - 130
Styrene	4.00	4.01		ug/L		100	70 - 130
tert-Butylbenzene	4.00	3.89		ug/L		97	70 - 130
Tetrachloroethene	4.00	4.14		ug/L		103	70 - 130
Toluene	4.00	3.32		ug/L		83	70 - 130
trans-1,2-Dichloroethene	4.00	3.74		ug/L		93	70 - 130
trans-1,3-Dichloropropene	4.00	3.18		ug/L		79	70 - 130
Trichloroethene	4.00	3.94		ug/L		99	70 - 130
Trichlorofluoromethane	4.00	3.59		ug/L		90	70 - 130
Vinyl chloride	4.00	3.82		ug/L		96	70 - 130
Xylenes, Total	12.0	11.9		ug/L		99	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichlorobenzene-d4	*106*		*80 - 120*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-118099/5
Matrix: Water
Analysis Batch: 118099

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/11/13 14:19	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/11/13 14:19	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/11/13 14:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/11/13 14:19	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/11/13 14:19	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/11/13 14:19	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/11/13 14:19	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/11/13 14:19	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/11/13 14:19	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/11/13 14:19	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/11/13 14:19	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/11/13 14:19	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/11/13 14:19	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/11/13 14:19	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/11/13 14:19	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/11/13 14:19	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/11/13 14:19	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/11/13 14:19	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/11/13 14:19	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/11/13 14:19	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/11/13 14:19	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/11/13 14:19	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/11/13 14:19	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/11/13 14:19	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/11/13 14:19	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/11/13 14:19	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/11/13 14:19	1
Acetone	1.09	J	2.5	0.54	ug/L			05/11/13 14:19	1
Benzene	ND		0.50	0.13	ug/L			05/11/13 14:19	1
Bromobenzene	ND		0.50	0.13	ug/L			05/11/13 14:19	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/11/13 14:19	1
Bromoform	ND		0.50	0.13	ug/L			05/11/13 14:19	1
Bromomethane	ND		0.50	0.051	ug/L			05/11/13 14:19	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/11/13 14:19	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/11/13 14:19	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/11/13 14:19	1
Chloroethane	ND		0.50	0.070	ug/L			05/11/13 14:19	1
Chloroform	ND		0.50	0.14	ug/L			05/11/13 14:19	1
Chloromethane	ND		0.50	0.063	ug/L			05/11/13 14:19	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/11/13 14:19	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/11/13 14:19	1
Dibromomethane	ND		0.50	0.17	ug/L			05/11/13 14:19	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/11/13 14:19	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/11/13 14:19	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/11/13 14:19	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/11/13 14:19	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/11/13 14:19	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/11/13 14:19	1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-118099/5
Matrix: Water
Analysis Batch: 118099

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		0.50	0.25	ug/L			05/11/13 14:19	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/11/13 14:19	1
Naphthalene	ND		0.50	0.060	ug/L			05/11/13 14:19	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/11/13 14:19	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/11/13 14:19	1
o-Xylene	ND		0.50	0.044	ug/L			05/11/13 14:19	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/11/13 14:19	1
Styrene	ND		0.50	0.044	ug/L			05/11/13 14:19	1
t-Butanol	ND		10	2.5	ug/L			05/11/13 14:19	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/11/13 14:19	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/11/13 14:19	1
Toluene	ND		0.50	0.10	ug/L			05/11/13 14:19	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/11/13 14:19	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/11/13 14:19	1
Trichloroethene	ND		0.50	0.060	ug/L			05/11/13 14:19	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/11/13 14:19	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/11/13 14:19	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/11/13 14:19	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/11/13 14:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*105*		*80 - 120*		*05/11/13 14:19*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*05/11/13 14:19*	*1*

Lab Sample ID: LCS 480-118099/4
Matrix: Water
Analysis Batch: 118099

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	4.00	4.19		ug/L		105	70 - 130
1,1,1-Trichloroethane	4.00	4.02		ug/L		101	70 - 130
1,1,2,2-Tetrachloroethane	4.00	3.86		ug/L		96	70 - 130
1,1,2-Trichloroethane	4.00	3.96		ug/L		99	70 - 130
1,1-Dichloroethane	4.00	3.96		ug/L		99	70 - 130
1,1-Dichloroethene	4.00	3.55		ug/L		89	70 - 130
1,1-Dichloropropene	4.00	4.19		ug/L		105	70 - 130
1,2,3-Trichlorobenzene	4.00	4.52		ug/L		113	70 - 130
1,2,3-Trichloropropane	4.00	4.00		ug/L		100	70 - 130
1,2,4-Trichlorobenzene	4.00	4.27		ug/L		107	70 - 130
1,2,4-Trimethylbenzene	4.00	4.19		ug/L		105	70 - 130
1,2-Dibromo-3-Chloropropane	4.00	4.00		ug/L		100	70 - 130
1,2-Dibromoethane	4.00	4.08		ug/L		102	70 - 130
1,2-Dichlorobenzene	4.00	4.07		ug/L		102	70 - 130
1,2-Dichloroethane	4.00	3.96		ug/L		99	70 - 130
1,2-Dichloropropane	4.00	3.98		ug/L		100	70 - 130
1,3,5-Trimethylbenzene	4.00	4.17		ug/L		104	70 - 130
1,3-Dichlorobenzene	4.00	4.01		ug/L		100	70 - 130
1,3-Dichloropropane	4.00	4.06		ug/L		101	70 - 130

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-118099/4
Matrix: Water
Analysis Batch: 118099

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	4.00	3.98		ug/L		99	70 - 130
2,2-Dichloropropane	4.00	3.99		ug/L		100	70 - 130
2-Butanone (MEK)	20.0	18.2		ug/L		91	70 - 130
2-Chlorotoluene	4.00	4.11		ug/L		103	70 - 130
4-Chlorotoluene	4.00	3.94		ug/L		98	70 - 130
4-Isopropyltoluene	4.00	4.21		ug/L		105	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	18.6		ug/L		93	70 - 130
Acetone	20.0	19.5		ug/L		97	70 - 130
Benzene	4.00	4.08		ug/L		102	70 - 130
Bromobenzene	4.00	4.05		ug/L		101	70 - 130
Bromochloromethane	4.00	3.98		ug/L		100	70 - 130
Bromoform	4.00	3.12		ug/L		78	70 - 130
Bromomethane	4.00	3.50		ug/L		88	70 - 130
Carbon tetrachloride	4.00	4.05		ug/L		101	70 - 130
Chlorobenzene	4.00	4.03		ug/L		101	70 - 130
Chlorodibromomethane	4.00	3.55		ug/L		89	70 - 130
Chloroethane	4.00	4.12		ug/L		103	70 - 130
Chloroform	4.00	3.88		ug/L		97	70 - 130
Chloromethane	4.00	4.00		ug/L		100	70 - 130
cis-1,2-Dichloroethene	4.00	4.05		ug/L		101	70 - 130
cis-1,3-Dichloropropene	4.00	4.00		ug/L		100	70 - 130
Dibromomethane	4.00	4.02		ug/L		100	70 - 130
Dichlorobromomethane	4.00	3.97		ug/L		99	70 - 130
Dichlorodifluoromethane	4.00	4.21		ug/L		105	70 - 130
Ethylbenzene	4.00	4.05		ug/L		101	70 - 130
Hexachlorobutadiene	4.00	4.32		ug/L		108	70 - 130
Isopropylbenzene	4.00	4.22		ug/L		106	70 - 130
Methyl tert-butyl ether	4.00	3.66		ug/L		92	70 - 130
Methylene Chloride	4.00	3.68		ug/L		92	70 - 130
Naphthalene	4.00	4.38		ug/L		110	70 - 130
n-Butylbenzene	4.00	4.24		ug/L		106	70 - 130
N-Propylbenzene	4.00	4.12		ug/L		103	70 - 130
sec-Butylbenzene	4.00	4.24		ug/L		106	70 - 130
Styrene	4.00	4.19		ug/L		105	70 - 130
tert-Butylbenzene	4.00	4.25		ug/L		106	70 - 130
Tetrachloroethene	4.00	4.06		ug/L		102	70 - 130
Toluene	4.00	4.15		ug/L		104	70 - 130
trans-1,2-Dichloroethene	4.00	3.89		ug/L		97	70 - 130
trans-1,3-Dichloropropene	4.00	3.55		ug/L		89	70 - 130
Trichloroethene	4.00	3.97		ug/L		99	70 - 130
Trichlorofluoromethane	4.00	4.46		ug/L		111	70 - 130
Vinyl chloride	4.00	4.27		ug/L		107	70 - 130
Xylenes, Total	12.0	12.3		ug/L		102	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichlorobenzene-d4	*101*		*80 - 120*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38025-1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Lab Sample ID: MB 200-55415/1-A
Matrix: Water
Analysis Batch: 55420

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 55415

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		05/11/13 11:24	05/13/13 18:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*79*		*70 - 130*	*05/11/13 11:24*	*05/13/13 18:35*	*1*

Lab Sample ID: LCS 200-55415/2-A
Matrix: Water
Analysis Batch: 55420

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 55415

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane			0.200	0.148	J	ug/L		74	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,4-Dioxane-d8 (Surr)	*79*		*70 - 130*

GC/MS VOA

Analysis Batch: 118096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-38025-1	20 Deerfield Ln.	Total/NA	Water	524.2	
480-38025-3	70B Deerfield Ln.	Total/NA	Water	524.2	
480-38025-5	105 Deerfield Ln.	Total/NA	Water	524.2	
480-38025-7	4 Eldia Way	Total/NA	Water	524.2	
480-38025-9	125 Meetinghouse Rd.	Total/NA	Water	524.2	
480-38025-11	285 Alston Ave.(RES-20)	Total/NA	Water	524.2	
480-38025-13	100 Meetinghouse Rd. (RES-8)	Total/NA	Water	524.2	
480-38025-15	180 Old Orchard Rd. (RES-1)	Total/NA	Water	524.2	
LCS 480-118096/5	Lab Control Sample	Total/NA	Water	524.2	
MB 480-118096/6	Method Blank	Total/NA	Water	524.2	

Analysis Batch: 118099

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-38025-17	230 Schoolhouse Rd.	Total/NA	Water	524.2	
480-38025-19	100 Glacier Hills Rd.	Total/NA	Water	524.2	
480-38025-21	200 Candlewood Dr.	Total/NA	Water	524.2	
480-38025-23	395 Candlewood Dr.	Total/NA	Water	524.2	
480-38025-25	Trip Blank	Total/NA	Water	524.2	
LCS 480-118099/4	Lab Control Sample	Total/NA	Water	524.2	
MB 480-118099/5	Method Blank	Total/NA	Water	524.2	

GC/MS Semi VOA

Prep Batch: 55415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-38025-1	20 Deerfield Ln.	Total/NA	Water	3535A	
480-38025-3	70B Deerfield Ln.	Total/NA	Water	3535A	
480-38025-5	105 Deerfield Ln.	Total/NA	Water	3535A	
480-38025-7	4 Eldia Way	Total/NA	Water	3535A	
480-38025-9	125 Meetinghouse Rd.	Total/NA	Water	3535A	
480-38025-11	285 Alston Ave.(RES-20)	Total/NA	Water	3535A	
480-38025-13	100 Meetinghouse Rd. (RES-8)	Total/NA	Water	3535A	
480-38025-15	180 Old Orchard Rd. (RES-1)	Total/NA	Water	3535A	
480-38025-17	230 Schoolhouse Rd.	Total/NA	Water	3535A	
480-38025-19	100 Glacier Hills Rd.	Total/NA	Water	3535A	
480-38025-21	200 Candlewood Dr.	Total/NA	Water	3535A	
480-38025-23	395 Candlewood Dr.	Total/NA	Water	3535A	
480-38025-25	Trip Blank	Total/NA	Water	3535A	
LCS 200-55415/2-A	Lab Control Sample	Total/NA	Water	3535A	
MB 200-55415/1-A	Method Blank	Total/NA	Water	3535A	

Analysis Batch: 55420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-38025-1	20 Deerfield Ln.	Total/NA	Water	522 MOD	55415
480-38025-3	70B Deerfield Ln.	Total/NA	Water	522 MOD	55415
480-38025-5	105 Deerfield Ln.	Total/NA	Water	522 MOD	55415
480-38025-7	4 Eldia Way	Total/NA	Water	522 MOD	55415
480-38025-9	125 Meetinghouse Rd.	Total/NA	Water	522 MOD	55415
480-38025-11	285 Alston Ave.(RES-20)	Total/NA	Water	522 MOD	55415
480-38025-13	100 Meetinghouse Rd. (RES-8)	Total/NA	Water	522 MOD	55415

GC/MS Semi VOA (Continued)

Analysis Batch: 55420 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-38025-15	180 Old Orchard Rd. (RES-1)	Total/NA	Water	522 MOD	55415
480-38025-17	230 Schoolhouse Rd.	Total/NA	Water	522 MOD	55415
480-38025-19	100 Glacier Hills Rd.	Total/NA	Water	522 MOD	55415
480-38025-21	200 Candlewood Dr.	Total/NA	Water	522 MOD	55415
480-38025-23	395 Candlewood Dr.	Total/NA	Water	522 MOD	55415
480-38025-25	Trip Blank	Total/NA	Water	522 MOD	55415
LCS 200-55415/2-A	Lab Control Sample	Total/NA	Water	522 MOD	55415
MB 200-55415/1-A	Method Blank	Total/NA	Water	522 MOD	55415

Client Sample ID: 20 Deerfield Ln.

Lab Sample ID: 480-38025-1

Date Collected: 05/08/13 09:35

Matrix: Water

Date Received: 05/10/13 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	118096	05/11/13 15:53	CDC	TAL BUF
Total/NA	Prep	3535A			55415	05/11/13 11:24	MLT	TAL BUR
Total/NA	Analysis	522 MOD		1	55420	05/13/13 18:51	RJH	TAL BUR

Client Sample ID: 70B Deerfield Ln.

Lab Sample ID: 480-38025-3

Date Collected: 05/08/13 10:20

Matrix: Water

Date Received: 05/10/13 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	118096	05/11/13 16:42	CDC	TAL BUF
Total/NA	Prep	3535A			55415	05/11/13 11:24	MLT	TAL BUR
Total/NA	Analysis	522 MOD		1	55420	05/13/13 19:07	RJH	TAL BUR

Client Sample ID: 105 Deerfield Ln.

Lab Sample ID: 480-38025-5

Date Collected: 05/08/13 10:55

Matrix: Water

Date Received: 05/10/13 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	118096	05/11/13 17:31	CDC	TAL BUF
Total/NA	Prep	3535A			55415	05/11/13 11:24	MLT	TAL BUR
Total/NA	Analysis	522 MOD		1	55420	05/13/13 19:23	RJH	TAL BUR

Client Sample ID: 4 Eldia Way

Lab Sample ID: 480-38025-7

Date Collected: 05/08/13 11:35

Matrix: Water

Date Received: 05/10/13 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	118096	05/11/13 18:20	CDC	TAL BUF
Total/NA	Prep	3535A			55415	05/11/13 11:24	MLT	TAL BUR
Total/NA	Analysis	522 MOD		1	55420	05/13/13 19:40	RJH	TAL BUR

Client Sample ID: 125 Meetinghouse Rd.

Lab Sample ID: 480-38025-9

Date Collected: 05/08/13 12:25

Matrix: Water

Date Received: 05/10/13 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	118096	05/11/13 19:09	CDC	TAL BUF
Total/NA	Prep	3535A			55415	05/11/13 11:24	MLT	TAL BUR
Total/NA	Analysis	522 MOD		1	55420	05/13/13 19:56	RJH	TAL BUR

Client Sample ID: 285 Alston Ave.(RES-20)

Lab Sample ID: 480-38025-11

Date Collected: 05/08/13 13:10

Matrix: Water

Date Received: 05/10/13 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	118096	05/11/13 19:58	CDC	TAL BUF
Total/NA	Prep	3535A			55415	05/11/13 11:24	MLT	TAL BUR
Total/NA	Analysis	522 MOD		1	55420	05/13/13 20:12	RJH	TAL BUR

Client Sample ID: 100 Meetinghouse Rd. (RES-8)

Lab Sample ID: 480-38025-13

Date Collected: 05/08/13 13:55

Matrix: Water

Date Received: 05/10/13 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	118096	05/11/13 20:47	CDC	TAL BUF
Total/NA	Prep	3535A			55415	05/11/13 11:24	MLT	TAL BUR
Total/NA	Analysis	522 MOD		1	55420	05/13/13 20:28	RJH	TAL BUR

Client Sample ID: 180 Old Orchard Rd. (RES-1)

Lab Sample ID: 480-38025-15

Date Collected: 05/08/13 14:25

Matrix: Water

Date Received: 05/10/13 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	118096	05/11/13 21:37	CDC	TAL BUF
Total/NA	Prep	3535A			55415	05/11/13 11:24	MLT	TAL BUR
Total/NA	Analysis	522 MOD		1	55420	05/13/13 20:45	RJH	TAL BUR

Client Sample ID: 230 Schoolhouse Rd.

Lab Sample ID: 480-38025-17

Date Collected: 05/08/13 15:35

Matrix: Water

Date Received: 05/10/13 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	118099	05/11/13 19:28	CDC	TAL BUF
Total/NA	Prep	3535A			55415	05/11/13 11:24	MLT	TAL BUR
Total/NA	Analysis	522 MOD		1	55420	05/13/13 21:17	RJH	TAL BUR

Client Sample ID: 100 Glacier Hills Rd.

Lab Sample ID: 480-38025-19

Date Collected: 05/08/13 13:20

Matrix: Water

Date Received: 05/10/13 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	118099	05/11/13 20:18	CDC	TAL BUF
Total/NA	Prep	3535A			55415	05/11/13 11:24	MLT	TAL BUR
Total/NA	Analysis	522 MOD		1	55420	05/13/13 21:33	RJH	TAL BUR

Lab Chronicle

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38025-1

Client Sample ID: 200 Candlewood Dr.

Lab Sample ID: 480-38025-21

Date Collected: 05/08/13 13:50
Matrix: Water
Date Received: 05/10/13 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	118099	05/11/13 21:09	CDC	TAL BUF
Total/NA	Prep	3535A			55415	05/11/13 11:24	MLT	TAL BUR
Total/NA	Analysis	522 MOD		1	55420	05/13/13 21:50	RJH	TAL BUR

Client Sample ID: 395 Candlewood Dr.

Lab Sample ID: 480-38025-23

Date Collected: 05/08/13 14:15
Matrix: Water
Date Received: 05/10/13 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	118099	05/11/13 21:59	CDC	TAL BUF
Total/NA	Prep	3535A			55415	05/11/13 11:24	MLT	TAL BUR
Total/NA	Analysis	522 MOD		1	55420	05/13/13 22:06	RJH	TAL BUR

Client Sample ID: Trip Blank

Lab Sample ID: 480-38025-25

Date Collected: 05/08/13 08:05
Matrix: Water
Date Received: 05/10/13 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	118099	05/11/13 22:49	CDC	TAL BUF
Total/NA	Prep	3535A			55415	05/11/13 11:24	MLT	TAL BUR
Total/NA	Analysis	522 MOD		1	55420	05/13/13 22:22	RJH	TAL BUR

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Certification Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38025-1

Laboratory: TestAmerica Buffalo

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-13
California	NELAP	9	1169CA	09-30-13
Connecticut	State Program	1	PH-0568	09-30-14
Florida	NELAP	4	E87672	06-30-13
Georgia	State Program	4	N/A	03-31-14
Georgia	State Program	4	956	06-30-13
Georgia	State Program	4	956	03-31-14
Illinois	NELAP	5	200003	09-30-13
Iowa	State Program	7	374	03-15-15
Kansas	NELAP	7	E-10187	01-31-14
Kentucky	State Program	4	90029	12-31-13
Kentucky (UST)	State Program	4	30	04-01-14
Louisiana	NELAP	6	02031	06-30-13
Maine	State Program	1	NY00044	12-04-13
Maryland	State Program	3	294	03-31-14
Massachusetts	State Program	1	M-NY044	06-30-13
Michigan	State Program	5	9937	04-01-13 *
Minnesota	NELAP	5	036-999-337	12-31-13
New Hampshire	NELAP	1	2973	09-11-13
New Hampshire	NELAP	1	2337	11-17-13
New Jersey	NELAP	2	NY455	06-30-13
New York	NELAP	2	10026	04-01-14
North Dakota	State Program	8	R-176	03-31-14
Oklahoma	State Program	6	9421	08-31-13
Oregon	NELAP	10	NY200003	06-09-13
Pennsylvania	NELAP	3	68-00281	07-31-13
Rhode Island	State Program	1	LAO00328	12-31-13
Tennessee	State Program	4	TN02970	04-01-14
Texas	NELAP	6	T104704412-11-2	07-31-13
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAP	3	460185	09-14-13
Washington	State Program	10	C784	02-10-14
West Virginia DEP	State Program	3	252	09-30-13
Wisconsin	State Program	5	998310390	08-31-13

Laboratory: TestAmerica Burlington

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Connecticut	State Program	1	PH-0751	09-30-13
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-13-15
Florida	NELAP	4	E87467	06-30-13
L-A-B	DoD ELAP		L2336	10-26-13
Louisiana	NELAP	6	176292	06-30-13
Maine	State Program	1	VT00008	04-17-13 *
Minnesota	NELAP	5	050-999-436	12-31-13
New Hampshire	NELAP	1	2006	12-18-13
New Jersey	NELAP	2	VT972	06-30-13
New York	NELAP	2	10391	04-01-14
Pennsylvania	NELAP	3	68-00489	04-30-14

* Expired certification is currently pending renewal and is considered valid.

Certification Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38025-1

Laboratory: TestAmerica Burlington (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
USDA	Federal		P330-11-00093	02-17-14
Vermont	State Program	1	VT-4000	12-31-13
Virginia	NELAP	3	460209	12-14-13

Method Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38025-1

Method	Method Description	Protocol	Laboratory
524.2	Volatile Organic Compounds (GC/MS)	EPA-DW	TAL BUF
522 MOD	1,4 Dioxane (GC/MS SIM)	EPA	TAL BUR

Protocol References:

EPA = US Environmental Protection Agency

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38025-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-38025-1	20 Deerfield Ln.	Water	05/08/13 09:35	05/10/13 01:30
480-38025-3	70B Deerfield Ln.	Water	05/08/13 10:20	05/10/13 01:30
480-38025-5	105 Deerfield Ln.	Water	05/08/13 10:55	05/10/13 01:30
480-38025-7	4 Eldia Way	Water	05/08/13 11:35	05/10/13 01:30
480-38025-9	125 Meetinghouse Rd.	Water	05/08/13 12:25	05/10/13 01:30
480-38025-11	285 Alston Ave.(RES-20)	Water	05/08/13 13:10	05/10/13 01:30
480-38025-13	100 Meetinghouse Rd. (RES-8)	Water	05/08/13 13:55	05/10/13 01:30
480-38025-15	180 Old Orchard Rd. (RES-1)	Water	05/08/13 14:25	05/10/13 01:30
480-38025-17	230 Schoolhouse Rd.	Water	05/08/13 15:35	05/10/13 01:30
480-38025-19	100 Glacier Hills Rd.	Water	05/08/13 13:20	05/10/13 01:30
480-38025-21	200 Candlewood Dr.	Water	05/08/13 13:50	05/10/13 01:30
480-38025-23	395 Candlewood Dr.	Water	05/08/13 14:15	05/10/13 01:30
480-38025-25	Trip Blank	Water	05/08/13 08:05	05/10/13 01:30

TestAmerica Westfield
53 Southampton Road

Westfield, MA 01085
phone 413.572.4000 fax 413.572.3707

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other: **MA MCP**

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: David Bennett	Site Contact:	Date:	COC No:
Bennett Environmental Associates, Inc.	Tel/Fax: 508-896-1706	Lab Contact:	Carrier:	1 of 3 COCs
Address 1573 Main St. / P.O. Box 1743	Analysis Turnaround Time			For Lab Use Only:
City/State/Zip Brewster, MA 02631	Calendar (C) or Work Days (W) C			Walk-in Client:
508-896-1706 Phone	TAT if different from Below			Lab Sampling:
508-896-5109 FAX	☑ 2 weeks			
Project Name: Eastham Landfill	☐ 1 week			Job / SDG No.:
Site: Town of Eastham	☐ 2 days			
P O # BEA09-10104	☐ 1 day			Sampler: JTW

480-38025 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample (Y / N)	Composite = C / Grab = G	VOCs via 524.2	1,4-Dioxane via 522.1 Mod	Sample Specific Notes:
20 Deerfield Ln.	5/8/2013	9:35 AM	G	W	5	N	G	3	2	
20 Deerfield Ln. Duplicate	5/8/2013	9:35 AM	G	W	4	N	G	3	1	
70B Deerfield Ln.	5/8/2013	10:20 am	G	W	5	N	G	3	2	
70B Deerfield Ln. Duplicate	5/8/2013	10:20 am	G	W	4	N	G	3	1	
105 Deerfield Ln.	5/8/2013	10:55 am	G	W	5	N	G	3	2	
105 Deerfield Ln. Duplicate	5/8/2013	10:55 am	G	W	4	N	G	3	1	
4 Eldia Way	5/8/2013	11:35 am	G	W	5	N	G	3	2	
4 Eldia Way Duplicate	5/8/2013	11:35 am	G	W	4	N	G	3	1	
125 Meetinghouse Rd.	5/8/2013	12:25 pm	G	W	5	N	G	3	2	
125 Meetinghouse Rd. Duplicate	5/8/2013	12:25 pm	G	W	4	N	G	3	1	
285 Alston Ave. (RES-20)	5/8/2013	1:10 pm	G	W	5	N	G	3	2	
285 Alston Ave. (RES-20) Duplicate	5/8/2013	1:10 pm	G	W	4	N	G	3	1	
								1,2	1,2	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments: Please email results to dbennett@bennett-ea.com

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
		5/9/13 1000		TA	5/9/13 1000
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:
	TA	5/9/13 1700		TA BOH	5/10/13 0115

Form No. CA-C-WI-002, Rev. 4, dated 10/25/2012

13 *

5/16/2013

TestAmerica Westfield
53 Southampton Road

Westfield, MA 01085
phone 413.572.4000 fax 413.572.3707

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other: **MA MCP**

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: David Bennett	Site Contact:	Date:	COC No:
Bennett Environmental Associates, Inc.	Tel/Fax: 508-896-1706	Lab Contact:	Carrier:	2 of 3 COCs
Address 1573 Main St. / P.O. Box 1743	Analysis Turnaround Time			For Lab Use Only:
City/State/Zip Brewster, MA 02631	Calendar (C) or Work Days (W) C			Walk-in Client:
508-896-1706 Phone	TAT if different from Below			Lab Sampling:
508-896-5109 FAX	☑ 2 weeks			
Project Name: Eastham Landfill	☐ 1 week			Job / SDG No.:
Site: Town of Eastham	☐ 2 days			
P O # BEA09-10104	☐ 1 day			Sampler: JTW/LMP/LM

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample (Y / N)	Composite = C / Grab = G	VOCs via 524.2	1,4-Dioxane via 522.1 Mod	Sample Specific Notes:
100 Meetinghouse Rd. (RES-8)	5/8/2013	1:55 PM	G	W	5	N	G	3	2	
100 Meetinghouse Rd. (RES-8) Duplicate	5/8/2013	1:55 PM	G	W	4	N	G	3	1	
180 Old Orchard Rd. (RES-1)	5/8/2013	2:25 pm	G	W	5	N	G	3	2	
180 Old Orchard Rd. (RES-1) Duplicate	5/8/2013	2:25 pm	G	W	4	N	G	3	1	
230 Schoolhouse Rd.	5/8/2013	3:35 pm	G	W	5	N	G	3	2	
230 Schoolhouse Rd. Duplicate	5/8/2013	3:35 pm	G	W	4	N	G	3	1	
100 Glacier Hills Rd.	5/8/2013	1:20 pm	G	W	5	N	G	3	2	
100 Glacier Hills Rd. Duplicate	5/8/2013	1:20 pm	G	W	4	N	G	3	1	
200 Candlewood Dr.	5/8/2013	1:50 pm	G	W	5	N	G	3	2	
200 Candlewood Dr. Duplicate	5/8/2013	1:50 pm	G	W	4	N	G	3	1	
395 Candlewood Dr.	5/8/2013	2:15 pm	G	W	5	N	G	3	2	
395 Candlewood Dr. Duplicate	5/8/2013	2:15 pm	G	W	4	N	G	3	1	
								1,2	1,2	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments: Please email results to dbennett@bennett-ea.com

	Company:	Date/Time:	Received by:	Company:	Date/Time:
~~Relinquished by:~~					
Relinquished by:		Date/Time: 5-9-13 1000	Received by:	TA	Date/Time: 5-9-13 1000
Relinquished by:	Company: IAL	Date/Time: 5-9-13	Received in Laboratory by:	Company: TA BUR	Date/Time: 5.10.13 0145

Form No. CA-C-WI-002, Rev. 4, dated 10/25/2012

1.3 #1

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5/16/2013

TestAmerica Westfield
53 Southampton Road

Westfield, MA 01085
phone 413.572.4000 fax 413.572.3707

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other: **MA MCP**

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: David Bennett	Site Contact:	Date:	COC No:
Bennett Environmental Associates, Inc.	Tel/Fax: 508-896-1706	Lab Contact:	Carrier:	3 of 3 COCs
Address 1573 Main St. / P.O. Box 1743	Analysis Turnaround Time			For Lab Use Only:
City/State/Zip Brewster, MA 02631	Calendar (C) or Work Days (W) C			Walk-in Client:
508-896-1706 Phone	TAT if different from Below			Lab Sampling:
508-896-5109 FAX	☑ 2 weeks			
Project Name: Eastham Landfill	☐ 1 week			Job / SDG No.:
Site: Town of Eastham	☐ 2 days			
P O # BEA09-10104	☐ 1 day			Sampler: JTW/LMP/LM

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample (Y / N)	Composite = C / Grab = G	VOCs via 524.2	1,4-Dioxane via 522.1 Mod	Sample Specific Notes:
Trip Blank	5/8/2013	8:05 AM	G	W	5	N	G	3	2	
								1,2	1,2	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments: Please email results to dbennett@bennett-ea.com

	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	BEA	5/8/13			
Relinquished by:	BEA	5-8-13 1000		TA	5-8-13 1000
Relinquished by:	TAL	5-8-13 1700	Received in Laboratory by:	TA BOH	5-10-13 0145

Form No. CA-C-WI-002, Rev. 4, dated 10/25/2012

5/16/2013

Login Sample Receipt Checklist

Client: Bennett Environmental Associates, Inc.

Job Number: 480-38025-1

Login Number: 38025

List Source: TestAmerica Buffalo

List Number: 1

Creator: Wienke, Robert

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	BEA
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	True	Lab to check

Login Sample Receipt Checklist

Client: Bennett Environmental Associates, Inc.

Job Number: 480-38025-1

Login Number: 38025
List Number: 1
Creator: Gagne, Eric

List Source: TestAmerica Burlington
List Creation: 05/10/13 01:29 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	No SEALS
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.6ºC & 2.0ºC IR GUN ID 181. CF 0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

							Sample ID	20 Deerfield Ln.	70B Deerfield Ln.	105 Deerfield Ln.	4 Eldia Way	125 Meetinghouse Rd.	285 Alston Ave.(RES-20)	100 Meetinghouse Rd. (RES-8)	180 Old Orchard Rd. (RES-1)	230 Schoolhouse Rd.	100 Glacier Hills Rd.	200 Candlewood Dr.	395 Candlewood Dr.	Trip Blank
							Sampled By												
							Sample Collection Date	05/08/2013 09:35	05/08/2013 10:20	05/08/2013 10:55	05/08/2013 11:35	05/08/2013 12:25	05/08/2013 13:10	05/08/2013 13:55	05/08/2013 14:25	05/08/2013 15:35	05/08/2013 13:20	05/08/2013 13:50	05/08/2013 14:15	05/08/2013 08:05
							Laboratory Order Number	480-38025-1	480-38025-3	480-38025-5	480-38025-7	480-38025-9	480-38025-11	480-38025-13	480-38025-15	480-38025-17	480-38025-19	480-38025-21	480-38025-23	480-38025-25
Parameter	**Reporting Units**	**GW1**	**GW2**	**RCGW1**	**RCGW2**	**DW MMCL**														
Volatiles by 524.2																				
1,1,1,2-Tetrachloroethane	ug/l	5	10	5	10	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1,1-Trichloroethane	ug/l	200	4000	200	4000	200	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1,2,2-Tetrachloroethane	ug/l	2	9	2	9	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1,2-Trichloroethane	ug/l	5	900	5	900	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1-Dichloroethane	ug/l	70	1000	70	1000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1-Dichloroethene	ug/l	7	80	7	80	7	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1-Dichloropropene	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2,3-Trichlorobenzene	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2,3-Trichloropropane	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2,4-Trichlorobenzene	ug/l	70	2000	70	2000	70	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2,4-Trimethylbenzene	ug/l	NA	NA	10000	100000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dibromo-3-Chloropropane	ug/l	NA	NA	100	1000	0.2	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**
1,2-Dibromoethane	ug/l	0.02	2	0.02	2	0.02	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**
1,2-Dichlorobenzene	ug/l	600	2000	600	2000	600	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichloroethane	ug/l	5	5	5	5	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichloropropane	ug/l	5	3	3	3	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,3,5-Trimethylbenzene	ug/l	NA	NA	100	1000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,3-Dichlorobenzene	ug/l	40	2000	40	2000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,3-Dichloropropane	ug/l	NA	NA	5000	50000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,4-Dichlorobenzene	ug/l	5	200	5	200	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,2-Dichloropropane	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Butanone (MEK)	ug/l	4000	50000	4000	50000	NA	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	0.97J
2-Chlorotoluene	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Chlorotoluene	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Isopropyltoluene	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Methyl-2-pentanone (MIBK	ug/l	350	50000	350	50000	NA	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
Acetone	ug/l	6300	50000	6300	50000	NA	1.4J *	1.3J *	< 2.5	1.1J *	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	0.93J B	0.75J B	< 2.5	0.60J B	4.3B
Benzene	ug/l	5	2000	5	2000	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromobenzene	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromochloromethane	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromoform	ug/l	4	700	4	700	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromomethane	ug/l	10	7	7	7	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Carbon tetrachloride	ug/l	5	2	2	2	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chlorobenzene	ug/l	100	200	100	200	100	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chlorodibromomethane	ug/l	2	20	2	20	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chloroethane	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chloroform	ug/l	70	50	50	50	NA	0.52	0.51	0.79	< 0.50	< 0.50	0.47J	0.46J	0.54	< 0.50	0.19J	0.49J	0.61	< 0.50	
Chloromethane	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
cis-1,2-Dichloroethene	ug/l	70	100	70	100	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
cis-1,3-Dichloropropene	ug/l	NA	NA	0.5	5	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dibromomethane	ug/l	NA	NA	5000	50000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dichlorobromomethane	ug/l	3	6	3	6	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dichlorodifluoromethane	ug/l	NA	NA	10000	100000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Ethylbenzene	ug/l	700	20000	700	5000	700	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachlorobutadiene	ug/l	0.6	1	0.6	1	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Isopropylbenzene	ug/l	NA	NA	10000	100000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Methyl tert-butyl ethe	ug/l	70	50000	70	5000	NA	< 0.50	< 0.50	< 0.50	0.20J	< 0.50	< 0.50	< 0.50	< 0.50	0.25J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Methylene Chloride	ug/l	5	10000	5	10000	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
m-Xylene & p-Xylene	ug/l	10000	9000	5000	5000	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.24J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene	ug/l	140	1000	140	1000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
n-Butylbenzene	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
N-Propylbenzene	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
o-Xylene	ug/l	10000	9000	5000	5000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.063J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Styrene	ug/l	100	100	100	100	100	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
t-Butanol	ug/l	NA	NA	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
tert-Butylbenzene	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Tetrachloroethene	ug/l	5	50	5	50	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Toluene	ug/l	1000	50000	1000	40000	1000	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
trans-1,2-Dichloroethene	ug/l	100	90	90	90	100	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
trans-1,3-Dichloropropene	ug/l	NA	NA	0.5	5	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Trichloroethene	ug/l	5	30	5	30	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Trichlorofluoromethane	ug/l	NA	NA	10000	100000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Trihalomethanes, Tota	ug/l	NA	NA	NA	NA	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Vinyl chloride	ug/l	2	2	2	2	2	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Xylenes, Tota	ug/l	10000	9000	5000	5000	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.30J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Semivolatiles by 522 MOD																				
1,4-Dioxane	ug/l	3	6000	3	6000	NA	< 0.20	0.048J	0.067J	0.089J	0.15J	0.35	1.8	0.52	< 0.20	0.058J	< 0.20	< 0.20	< 0.20	

Notes:
ug/l - micrograms/liter
* - LCS or LCSD exceeds the control limits
B - Compound was found in the blank and sample
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate valu
J * - LCS or LCSD exceeds the control limits
J B - Compound was found in the blank and sample
GW1 - Concentrations based on the use of groundwater as drinking water, either currently or in the foreseeable futu
GW2 - Concentrations based on the potential for volatile material to migrate into indoor a
GW3 - Concentrations based on the potential environmental effects resulting from contaminated groundwater discharging to surface wat
RC - Risk Characterization approach, Standards may be supplemented or modified with site- and chemical-specific informatic
UCL - Upper Concentration Limits in groundwater and soil are promulgated to minimize potential risks associated with uncontrolled environmental contamination, and the costs associated with cumulative anthropogenic contributions to backgr

TestAmerica's TotalAccess, is our online data management tool. Features include, a cross-tab view displaying each analy
as a row across sample columns, an intuitive analyte trending tool, auto-fill search functions and exports data into Excel, while keeping its original forr
Other features include a redesign and simplification in selecting regulatory limits, Work Order and Results page layout redesign, and available data columns in the Results and Budgets pa
The regulatory comparison tool allows users to compare their analytical data against a number of regulatory compound lists and associated lim
This feature now encompasses over 786 regulatory lists from 34 States and the U.S. EPA, covering 91,529 individual analyte comparison lim
The benefits of TotalAccess are offered free of charge to all TestAmerica clients, Clients can sign up for TotalAcces
on the TestAmerica home page at www.testamericainc.com

More information @ http://www.mass.gov/dep/cleanup/laws/standard.htr

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-38025-2
Client Project/Site: Eastham Landfill IRA

For:
Bennett Environmental Associates, Inc.
1573 Main St.
Brewster, Massachusetts 02631

Attn: David Bennett

Authorized for release by:
5/24/2013 5:44:36 PM

Steve Hartmann, Lab Director
steve.hartmann@testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

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Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-38025-2

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-38025-2

Comments
This is a stand alone report for Sample 100 Meetinghouse Rd. (RES-8) duplicate (480-38025-14) that was activated for analysis on 5/16/13. This analysis was originally on hold per client request.

Receipt
The samples were received on 5/10/2013 1:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.3º C.

GC/MS Semi VOA (522MOD)
No analytical or quality issues were noted.

Detection Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38025-2

Client Sample ID: 100 Meetinghouse Rd. (RES-8) Duplicate

Lab Sample ID: 480-38025-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	1.7		0.20	0.041	ug/L	1		522 MOD	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38025-2

Client Sample ID: 100 Meetinghouse Rd. (RES-8) Duplicate
Date Collected: 05/08/13 13:55
Date Received: 05/10/13 01:30

Lab Sample ID: 480-38025-14
Matrix: Water

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.7		0.20	0.041	ug/L		05/22/13 08:54	05/22/13 17:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*77*		*70 - 130*	*05/22/13 08:54*	*05/22/13 17:43*	*1*

Surrogate Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38025-2

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		14DD8
Lab Sample ID	Client Sample ID	(70-130)
480-38025-14	100 Meetinghouse Rd. (RES-8) Dup	77
LCS 200-55838/2-A	Lab Control Sample	86
MB 200-55838/1-A	Method Blank	86

Surrogate Legend

14DD8 = 1,4-Dioxane-d8 (Surr)

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38025-2

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Lab Sample ID: MB 200-55838/1-A
Matrix: Water
Analysis Batch: 55857

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 55838

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		05/22/13 08:54	05/22/13 17:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*86*		*70 - 130*	*05/22/13 08:54*	*05/22/13 17:22*	*1*

Lab Sample ID: LCS 200-55838/2-A
Matrix: Water
Analysis Batch: 55857

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 55838

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane			8.00	7.41		ug/L		93	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,4-Dioxane-d8 (Surr)	*86*		*70 - 130*

QC Association Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38025-2

GC/MS Semi VOA

Prep Batch: 55838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-38025-14	100 Meetinghouse Rd. (RES-8) Duplicate	Total/NA	Water	3535A	
LCS 200-55838/2-A	Lab Control Sample	Total/NA	Water	3535A	
MB 200-55838/1-A	Method Blank	Total/NA	Water	3535A	

Analysis Batch: 55857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-38025-14	100 Meetinghouse Rd. (RES-8) Duplicate	Total/NA	Water	522 MOD	55838
LCS 200-55838/2-A	Lab Control Sample	Total/NA	Water	522 MOD	55838
MB 200-55838/1-A	Method Blank	Total/NA	Water	522 MOD	55838

Lab Chronicle

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38025-2

Client Sample ID: 100 Meetinghouse Rd. (RES-8) Duplicate **Lab Sample ID: 480-38025-14**
Date Collected: 05/08/13 13:55 **Matrix: Water**
Date Received: 05/10/13 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535A			55838	05/22/13 08:54	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55857	05/22/13 17:43	RJH	TAL BUR

Laboratory References:

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Certification Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38025-2

Laboratory: TestAmerica Buffalo

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-13
California	NELAP	9	1169CA	09-30-13
Connecticut	State Program	1	PH-0568	09-30-14
Florida	NELAP	4	E87672	06-30-13
Georgia	State Program	4	N/A	03-31-14
Georgia	State Program	4	956	06-30-13
Georgia	State Program	4	956	03-31-14
Illinois	NELAP	5	200003	09-30-13
Iowa	State Program	7	374	03-15-15
Kansas	NELAP	7	E-10187	01-31-14
Kentucky	State Program	4	90029	12-31-13
Kentucky (UST)	State Program	4	30	04-01-14
Louisiana	NELAP	6	02031	06-30-13
Maine	State Program	1	NY00044	12-04-13
Maryland	State Program	3	294	03-31-14
Massachusetts	State Program	1	M-NY044	06-30-13
Michigan	State Program	5	9937	04-01-13 *
Minnesota	NELAP	5	036-999-337	12-31-13
New Hampshire	NELAP	1	2973	09-11-13
New Hampshire	NELAP	1	2337	11-17-13
New Jersey	NELAP	2	NY455	06-30-13
New York	NELAP	2	10026	04-01-14
North Dakota	State Program	8	R-176	03-31-14
Oklahoma	State Program	6	9421	08-31-13
Oregon	NELAP	10	NY200003	06-09-13
Pennsylvania	NELAP	3	68-00281	07-31-13
Rhode Island	State Program	1	LAO00328	12-31-13
Tennessee	State Program	4	TN02970	04-01-14
Texas	NELAP	6	T104704412-11-2	07-31-13
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAP	3	460185	09-14-13
Washington	State Program	10	C784	02-10-14
West Virginia DEP	State Program	3	252	09-30-13
Wisconsin	State Program	5	998310390	08-31-13

Laboratory: TestAmerica Burlington

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Connecticut	State Program	1	PH-0751	09-30-13
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-13-15
Florida	NELAP	4	E87467	06-30-13
L-A-B	DoD ELAP		L2336	10-26-13
Louisiana	NELAP	6	176292	06-30-13
Minnesota	NELAP	5	050-999-436	12-31-13
New Hampshire	NELAP	1	2006	12-18-13
New Jersey	NELAP	2	VT972	06-30-13
New York	NELAP	2	10391	04-01-14
Pennsylvania	NELAP	3	68-00489	04-30-14
USDA	Federal		P330-11-00093	02-17-14

* Expired certification is currently pending renewal and is considered valid.

Certification Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38025-2

Laboratory: TestAmerica Burlington (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Vermont	State Program	1	VT-4000	12-31-13
Virginia	NELAP	3	460209	12-14-13

Method Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38025-2

Method	Method Description	Protocol	Laboratory
522 MOD	1,4 Dioxane (GC/MS SIM)	EPA	TAL BUR

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38025-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-38025-14	100 Meetinghouse Rd. (RES-8) Duplicate	Water	05/08/13 13:55	05/10/13 01:30

TestAmerica Westfield
53 Southampton Road

Westfield, MA 01085
phone 413.572.4000 fax 413.572.3707

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other: **MA MCP**

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: David Bennett	Site Contact:	Date:	COC No:
Bennett Environmental Associates, Inc.	Tel/Fax: 508-896-1706	Lab Contact:	Carrier:	1 of 3 COCs
Address 1573 Main St. / P.O. Box 1743	Analysis Turnaround Time			For Lab Use Only:
City/State/Zip Brewster, MA 02631	Calendar (C) or Work Days (W) C			Walk-in Client:
508-896-1706 Phone	TAT if different from Below			Lab Sampling:
508-896-5109 FAX	☑ 2 weeks			
Project Name: Eastham Landfill	☐ 1 week			Job / SDG No.:
Site: Town of Eastham	☐ 2 days			
P O # BEA09-10104	☐ 1 day			Sampler: JTW

480-38025 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample (Y / N)	Composite = C / Grab = G	VOCs via 524.2	1,4-Dioxane via 522.1 Mod	Sample Specific Notes:
20 Deerfield Ln.	5/8/2013	9:35 AM	G	W	5	N	G	3	2	
20 Deerfield Ln. Duplicate	5/8/2013	9:35 AM	G	W	4	N	G	3	1	
70B Deerfield Ln.	5/8/2013	10:20 am	G	W	5	N	G	3	2	
70B Deerfield Ln. Duplicate	5/8/2013	10:20 am	G	W	4	N	G	3	1	
105 Deerfield Ln.	5/8/2013	10:55 am	G	W	5	N	G	3	2	
105 Deerfield Ln. Duplicate	5/8/2013	10:55 am	G	W	4	N	G	3	1	
4 Eldia Way	5/8/2013	11:35 am	G	W	5	N	G	3	2	
4 Eldia Way Duplicate	5/8/2013	11:35 am	G	W	4	N	G	3	1	
125 Meetinghouse Rd.	5/8/2013	12:25 pm	G	W	5	N	G	3	2	
125 Meetinghouse Rd. Duplicate	5/8/2013	12:25 pm	G	W	4	N	G	3	1	
285 Alston Ave. (RES-20)	5/8/2013	1:10 pm	G	W	5	N	G	3	2	
285 Alston Ave. (RES-20) Duplicate	5/8/2013	1:10 pm	G	W	4	N	G	3	1	
								1,2	1,2	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments: Please email results to dbennett@bennett-ea.com

	Company:	Date/Time:		Company:	Date/Time:
Relinquished by:			Received by:		
Relinquished by:		Date/Time: 5/9/13 1000	Received by:	Company: TA	Date/Time: 5/9/13 1000
Relinquished by:	Company: TA	Date/Time: 5-9-13 1700	Received in Laboratory by:	Company: TA BOH	Date/Time: 5/10/13 0145

Form No. CA-C-WI-002, Rev. 4, dated 10/25/2012

13 *

TestAmerica Westfield
53 Southampton Road

Westfield, MA 01085
phone 413.572.4000 fax 413.572.3707

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other: **MA MCP**

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: David Bennett	Site Contact:	Date:	COC No:
Bennett Environmental Associates, Inc.	Tel/Fax: 508-896-1706	Lab Contact:	Carrier:	2 of 3 COCs
Address 1573 Main St. / P.O. Box 1743	Analysis Turnaround Time			For Lab Use Only:
City/State/Zip Brewster, MA 02631	Calendar (C) or Work Days (W) C			Walk-in Client:
508-896-1706 Phone	TAT if different from Below			Lab Sampling:
508-896-5109 FAX	☑ 2 weeks			
Project Name: Eastham Landfill	☐ 1 week			Job / SDG No.:
Site: Town of Eastham	☐ 2 days			
P O # BEA09-10104	☐ 1 day			Sampler: JTW/LMP/LM

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample (Y / N)	Composite = C / Grab = G	VOCs via 524.2	1,4-Dioxane via 522.1 Mod	Sample Specific Notes:
100 Meetinghouse Rd. (RES-8)	5/8/2013	1:55 PM	G	W	5	N	G	3	2	
100 Meetinghouse Rd. (RES-8) Duplicate	5/8/2013	1:55 PM	G	W	4	N	G	3	1	
180 Old Orchard Rd. (RES-1)	5/8/2013	2:25 pm	G	W	5	N	G	3	2	
180 Old Orchard Rd. (RES-1) Duplicate	5/8/2013	2:25 pm	G	W	4	N	G	3	1	
230 Schoolhouse Rd.	5/8/2013	3:35 pm	G	W	5	N	G	3	2	
230 Schoolhouse Rd. Duplicate	5/8/2013	3:35 pm	G	W	4	N	G	3	1	
100 Glacier Hills Rd.	5/8/2013	1:20 pm	G	W	5	N	G	3	2	
100 Glacier Hills Rd. Duplicate	5/8/2013	1:20 pm	G	W	4	N	G	3	1	
200 Candlewood Dr.	5/8/2013	1:50 pm	G	W	5	N	G	3	2	
200 Candlewood Dr. Duplicate	5/8/2013	1:50 pm	G	W	4	N	G	3	1	
395 Candlewood Dr.	5/8/2013	2:15 pm	G	W	5	N	G	3	2	
395 Candlewood Dr. Duplicate	5/8/2013	2:15 pm	G	W	4	N	G	3	1	
								1,2	1,2	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments: Please email results to dbennett@bennett-ea.com

	Company:	Date/Time:	Received by:	Company:	Date/Time:
~~Relinquished by:~~					
Relinquished by:		Date/Time: 5-9-13 1000	Received by:	TA	Date/Time: 5-9-13 1000
Relinquished by:	Company: IAL	Date/Time: 5-9-13	Received in Laboratory by:	Company: TA BUR	Date/Time: 5.10.13 0145

Form No. CA-C-WI-002, Rev. 4, dated 10/25/2012

1,3 #1

5/24/2013

TestAmerica Westfield
53 Southampton Road

Westfield, MA 01085
phone 413.572.4000 fax 413.572.3707

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other: **MA MCP**

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: David Bennett	Site Contact:	Date:	COC No:
Bennett Environmental Associates, Inc.	Tel/Fax: 508-896-1706	Lab Contact:	Carrier:	3 of 3 COCs
Address 1573 Main St. / P.O. Box 1743	Analysis Turnaround Time			For Lab Use Only:
City/State/Zip Brewster, MA 02631	Calendar (C) or Work Days (W) C			Walk-in Client:
508-896-1706 Phone	TAT if different from Below			Lab Sampling:
508-896-5109 FAX	☑ 2 weeks			
Project Name: Eastham Landfill	☐ 1 week			Job / SDG No.:
Site: Town of Eastham	☐ 2 days			
P O # BEA09-10104	☐ 1 day			Sampler: JTW/LMP/LM

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample (Y / N)	Composite = C / Grab = G	VOCs via 524.2	1,4-Dioxane via 522.1 Mod	Sample Specific Notes:
Trip Blank	5/8/2013	8:05 AM	G	W	5	N	G	3	2	
								1,2	1,2	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments: Please email results to dbennett@bennett-ea.com

	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	BEA	5/8/13			
Relinquished by:	BEA	5-8-13 1000		TA	5-8-13 1000
Relinquished by:	TAL	5-8-13 1700		TA BOH	5-10-13 0145

Form No. CA-C-WI-002, Rev. 4, dated 10/25/2012

5/24/2013

Login Sample Receipt Checklist

Client: Bennett Environmental Associates, Inc.

Job Number: 480-38025-2

Login Number: 38025

List Source: TestAmerica Buffalo

List Number: 1

Creator: Wienke, Robert

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	BEA
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	True	Lab to check

Login Sample Receipt Checklist

Client: Bennett Environmental Associates, Inc.

Job Number: 480-38025-2

Login Number: 38025
List Number: 1
Creator: Gagne, Eric

List Source: TestAmerica Burlington
List Creation: 05/10/13 01:29 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	No SEALS
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.6ºC & 2.0ºC IR GUN ID 181. CF 0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Bennett Environmental Associates, Inc.

Job Number: 480-38025-2

Login Number: 38025
List Number: 2
Creator: Gagne, Eric

List Source: TestAmerica Burlington
List Creation: 05/22/13 11:06 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	No seals
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.6ºC & 2.0ºC. IR GUN ID 181. CF 0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

						Sample ID	100 Meetinghouse Rd. (RES-8) Duplicate
						Sampled By	
						Sample Collection Date	05/08/2013 13:55
						Laboratory Order Number	480-38025-14
Parameter	**Reporting Units**	**GW1**	**GW2**	**RCGW1**	**RCGW2**	**DW MMCL**	
Semivolatiles by 522 MOD							
1,4-Dioxane	ug/l	3	6000	3	6000	NA	1.7

Notes:
ug/l - micrograms/liter
GW1 - Concentrations based on the use of groundwater as drinking water, either currently or in the foreseeable future.
GW2 - Concentrations based on the potential for volatile material to migrate into indoor air.
GW3 - Concentrations based on the potential environmental effects resulting from contaminated groundwater discharging to surface water.
RC - Risk Characterization approach, Standards may be supplemented or modified with site- and chemical-specific information.
UCL - Upper Concentration Limits in groundwater and soil are promulgated to minimize potential risks associated with uncontrolled environmental contamination, and the costs associated with cumulative anth

TestAmerica's TotalAccess, is our online data management tool. Features include, a cross-tab view displaying each analyte
as a row across sample columns, an intuitive analyte trending tool, auto-fill search functions and exports data into Excel, while keeping its original format.
Other features include a redesign and simplification in selecting regulatory limits, Work Order and Results page layout redesign, and available data columns in the Results and Budgets pages.
The regulatory comparison tool allows users to compare their analytical data against a number of regulatory compound lists and associated limits.
This feature now encompasses over 786 regulatory lists from 34 States and the U.S. EPA, covering 91,529 individual analyte comparison limits.
The benefits of TotalAccess are offered free of charge to all TestAmerica clients, Clients can sign up for TotalAccess
on the TestAmerica home page at www.testamericainc.com.

More information @ http://www.mass.gov/dep/cleanup/laws/standard.htm

BARNSTABLE COUNTY
DEPARTMENT OF HEALTH AND ENVIRONMENT
WATER QUALITY LABORATORY DIVISION

BARNSTABLE SUPERIOR COURT HOUSE
3195 MAIN STREET - P.O. BOX 427
BARNSTABLE, MASSACHUSETTS 02630

Gongmin Lei
Laboratory Director
Direct Line: (508) 375-6606
Email: gmlei@cape.com

Main Line: (508) 375-6605
FAX (508) 362-7103
TDD (508) 362-5885

RECEIVED JUN 0 6 2013

June 4, 2013

Mr. David Bennett
Bennett Environmental Associates, Inc.
1573 Main Street/P. O. Box 1743
Brewster, MA 02631

LABORATORY REPORT

Project: Eastham Landfill
Lab ID: G1373514
Received: 5/8/2013

Dear Dave:

Enclosed are the analytical results for the above referenced project. This letter authorizes the release of the analytical results, and should be considered a part of this report.

This report contains the following sections:

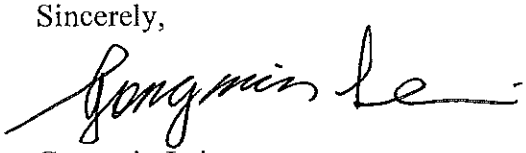
1. Sample Receipt Report;
2. Data Certification;
3. Inorganic Analytical Results;
4. Volatile Organic Analytical Results;
5. Project Narrative;
6. Chain of Custody;
7. Certification and Approval by MA DEP.

The analytical results contained in this report meet all applicable US EPA method requirements and/or Quality Assurance and Quality Control Requirements for SW-846 Methods for the Massachusetts Contingency Plan and other methods requirements, except as may be specifically noted, or described in the project narratives.

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Should you have any questions regarding this report, please do not hesitate to contact me.

Sincerely,



Gongmin Lei

GMLEI@BARNSTABLECOUNTY.ORG

Barnstable County Health Laboratory

ANALYTICAL REPORT FOR

ennett Environmental Associates, Inc. (Landfi

Report Prepared for:

Bennett Environmental Associates, Inc.
Mr. David Bennett, Re: Landfill
1573 Main Street, P O Box 1743
Brewster, MA 02631

Order #: G1373514

No. of Samples: 4

Date Received: 5/8/2013

Superior Court House, PO. Box 427, Barnstable, MA 02630 Ph: 508-375-6605

05/29/2013 003

BARNSTABLE COUNTY LABORATORY

Sample Receipt Report

Project:	Landfill	Delivery:	LKM
Client:	Town of Eastham	Chain of Custody:	Present
Lab ID:	G1373514	Lab Receipt:	5/8/2013

Lab ID	Field ID	Matrix	Sampled	Method	Container	Preserv	Comment
G1373514-01	MW 3I	Aqueous	5/8/2013 10:45	EPA 8260	5X40 mL	HCl	
				EPA 6020A, EPA 200.7, EPA 245.1	2X250 ml Plastic	HNO3	
				HACH 8000	60 ml Plastic	H2SO4	
				EPA 300.0, SM 2540C, SM 2320B	500 ml Plastic	None	
				SM 4500-CN	120 mL Plastic	NaOH	
G1373514-02	MW 3D	Aqueous	5/8/2013 10:45	EPA 8260	5X40 mL	HCl	
				EPA 6020A, EPA 200.7, EPA 245.1	2X250 ml Plastic	HNO3	
				HACH 8000	60 ml Plastic	H2SO4	
				EPA 300.0, SM 2540C, SM 2320B	500 ml Plastic	None	
				SM 4500-CN	120 mL Plastic	NaOH	
G1373514-03	BCH#13	Aqueous	5/8/2013 10:45	EPA 8260	5X40 mL	HCl	
				EPA 6020A, EPA 200.7, EPA 245.1	2X250 ml Plastic	HNO3	
				HACH 8000	60 ml Plastic	H2SO4	
				EPA 300.0, SM 2540C, SM 2320B	500 ml Plastic	None	
				SM 4500-CN	120 mL Plastic	NaOH	
G1373514-04	Trip Blank	Aqueous	5/8/2013 9:00 AM	EPA 8260	5X40 mL	HCl	

BARNSTABLE COUNTY LABORATORY

Data Certification

Project: Landfill
Client: Town of Eastham
Lab ID: G1373514
Received: 5/8/2013

MA DEP Compendium of Analytical Methods					
Project Location:	Landfill			MA DEP RTN:[1]	
This Form provides certification for the following data set: EPA SW-846 Methods: G1373514-01, -02, -03, -04.					
Sample Matrices:	Groundwater (X)	Soil/Sediment ( )	Drinking Water ( )	Other ( )	
MCP SW-846	8260B (X)	8151A ( )	8330 ( )	6010B ()	7470A/1A ()
Methods Used	8270C ( )	8081A ( )	VPH ( )	6020A (X)	9012A[2]
As specified in MA DEP	8082 ( )	8021B ( )	EPH ( )	7000 S[3]	Other (X)
Compendium of Analytical	1. List Release Tracking Number (RTN), if know.				
Methods.	2. SW-846 Method 9012A (Equivalent to 9014) or MA DEP Physiologically Available Cyanide (PAC) Method.				
(check all that apply)	3. S - SW-846 Methods 7000 Series. List individual method and analyte.				

An affirmative response to questions A, B, C, and D is required for "Presumptive Certainty" status.		
A.	Were all samples received by the laboratory in a condition consistent with that described on the Chain-of-Custody documentation for that data set?	Yes
B.	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	Yes
C.	Does the analytical data included in this report meet all the requirements for "Presumptive Certainty", as described in Section 2.0 of the MA DEP document CAM VII A, *Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical data*?	Yes
D.	VPH and EPH methods only: Was the VPH or EPH method run without significant modifications, as specified in Section 11.3?	NA
A response to questions E and F below is required for "Presumptive Certainty" status.		
E.	Were all QC performance standards and recommendations for the specified methods achieved?	Yes
F.	Were results for all analyte-list compounds/elements for the specified method(s) reported?	Yes

All No answers are addressed in the attached Project Narrative

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature:
Position: Laboratory Director
Printed name: Gongmin Lei
Date: 6/4/2013

CERTIFICATE OF ANALYSIS

Barnstable County Health Laboratory (M-MA009)

Report Prepared For: Report Dated: 5/29/2013

Mr. David Bennett, Re: Landfil
Bennett Environmental Associates, Inc.
1573 Main Street, P O Box 1743
Brewster, MA 02631

Order No.: G1373514

Laboratory ID #: 1373514-01 Description: Water - Monitoring Well

Sample #: Sample Location: MW 3I Collected: 05/08/2013

Collected by: LKMP/LAM Received: 05/08/2013

Test Parameters

ITEM	RESULT	UNITS	RL	MCL	METHOD #	TESTED
COD	**7.0**	mg/L	3.0		HACH 8000	5/14/2013
Cyanide, Total	**ND**	mg/L	0.010		SM4500-CN-E	5/16/2013

Landfill Metals_Dissolved

ITEM	RESULT	UNITS	RL	MCL	METHOD #	TESTED
Arsenic	**0.037**	mg/L	0.0030	0.01	EPA 6020A	5/13/2013
Barium	**0.0090**	mg/L	0.0030	2.0	EPA 6020A	5/13/2013
Cadmium	**ND**	mg/L	0.0030	0.005	EPA 6020A	5/13/2013
Chromium	**ND**	mg/L	0.0030	0.1	EPA 6020A	5/13/2013
Copper	**ND**	mg/L	0.0030		EPA 6020A	5/13/2013
Iron	**64**	mg/L	0.10		EPA 6020A	5/16/2013
Lead	**ND**	mg/L	0.0030	0.015	EPA 6020A	5/13/2013
Manganese	**0.98**	mg/L	0.0030		EPA 6020A	5/13/2013
Mercury	**ND**	mg/L	0.0005	0.002	EPA 245.1	5/15/2013
Selenium	**ND**	mg/L	0.015	0.05	EPA 6020A	5/13/2013
Silver	**ND**	mg/L	0.0030		EPA 6020A	5/13/2013
Zinc	**ND**	mg/L	0.060		EPA 6020A	5/13/2013

Landfill Inorganics_01

ITEM	RESULT	UNITS	RL	MCL	METHOD #	TESTED
Nitrate as Nitrogen	**0.32**	mg/L	0.10	10	EPA 300.0	5/9/2013
Alkalinity	**160**	mg/L as CaCO	2.0		SM 2320B	5/8/2013
Chloride	**13**	mg/L	1.0		EPA 300.0	5/9/2013
Sulfate	**49**	mg/L	1.0		EPA 300.0	5/9/2013
Total Dissolved Solids	**260**	mg/L	7.0		SM 2540C	5/8/2013

ND = None Detected RL = Reporting Limit MCL = Maximum Contaminant Level

Superior Court House, PO. Box 427, Barnstable, MA 02630 Ph: 508-375-6605

CERTIFICATE OF ANALYSIS

Barnstable County Health Laboratory (M-MA009)

Report Prepared For: Mr. David Bennett, Re: Landfil
Bennett Environmental Associates, Inc.
1573 Main Street, P O Box 1743
Brewster, MA 02631

Report Dated: 5/29/2013

Order No.: G1373514

Laboratory ID #: 1373514-02 **Description:** Water - Monitoring Well
Sample #: **Sample Location:** MW 3D **Collected:** 05/08/2013
Collected by: LKMP/LAM **Received:** 05/08/2013

Test Parameters

ITEM	RESULT	UNITS	RL	MCL	METHOD #	TESTED
COD	**63**	mg/L	3.0		HACH 8000	5/14/2013
Cyanide, Total	**ND**	mg/L	0.010		SM4500-CN-E	5/16/2013

Landfill Metals_Dissolved

ITEM	RESULT	UNITS	RL	MCL	METHOD #	TESTED
Arsenic	**0.074**	mg/L	0.0030	0.01	EPA 6020A	5/13/2013
Barium	**0.096**	mg/L	0.0030	2.0	EPA 6020A	5/13/2013
Cadmium	**ND**	mg/L	0.0030	0.005	EPA 6020A	5/13/2013
Chromium	**0.0063**	mg/L	0.0030	0.1	EPA 6020A	5/13/2013
Copper	**ND**	mg/L	0.0030		EPA 6020A	5/13/2013
Iron	**40**	mg/L	0.10		EPA 6020A	5/16/2013
Lead	**ND**	mg/L	0.0030	0.015	EPA 6020A	5/13/2013
Manganese	**1.3**	mg/L	0.0030		EPA 6020A	5/13/2013
Mercury	**ND**	mg/L	0.0005	0.002	EPA 245.1	5/15/2013
Selenium	**ND**	mg/L	0.015	0.05	EPA 6020A	5/13/2013
Silver	**ND**	mg/L	0.0030		EPA 6020A	5/13/2013
Zinc	**ND**	mg/L	0.060		EPA 6020A	5/13/2013

Landfill Inorganics_01

ITEM	RESULT	UNITS	RL	MCL	METHOD #	TESTED
Nitrate as Nitrogen	**0.87**	mg/L	0.10	10	EPA 300.0	5/9/2013
Alkalinity	**870**	mg/L as CaCO	2.0		SM 2320B	5/8/2013
Chloride	**100**	mg/L	1.0		EPA 300.0	5/9/2013
Sulfate	**68**	mg/L	1.0		EPA 300.0	5/9/2013
Total Dissolved Solids	**1,400**	mg/L	7.0		SM 2540C	5/9/2013

ND = None Detected RL = Reporting Limit MCL = Maximum Contaminant Level

CERTIFICATE OF ANALYSIS

Barnstable County Health Laboratory (M-MA009)

Report Prepared For: **Report Dated:** 5/29/2013

Mr. David Bennett, Re: Landfil
Bennett Environmental Associates, Inc.
1573 Main Street, P O Box 1743
Brewster, MA 02631

Order No.: G1373514

Laboratory ID #: 1373514-03 **Description:** Water - Monitoring Well

Sample #: **Sample Location:** BCH #13 **Collected:** 05/08/2013

Collected by: LKMP/LAM **Received:** 05/08/2013

Test Parameters

ITEM	RESULT	UNITS	RL	MCL	METHOD #	TESTED
COD	**61**	mg/L	3.0		HACH 8000	5/14/2013
Cyanide, Total	**ND**	mg/L	0.010		SM4500-CN-E	5/16/2013

Landfill Metals_Dissolved

ITEM	RESULT	UNITS	RL	MCL	METHOD #	TESTED
Arsenic	**0.079**	mg/L	0.0030	0.01	EPA 6020A	5/13/2013
Barium	**0.098**	mg/L	0.0030	2.0	EPA 6020A	5/13/2013
Cadmium	**ND**	mg/L	0.0030	0.005	EPA 6020A	5/13/2013
Chromium	**0.0062**	mg/L	0.0030	0.1	EPA 6020A	5/13/2013
Copper	**ND**	mg/L	0.0030		EPA 6020A	5/13/2013
Iron	**41**	mg/L	0.10		EPA 6020A	5/16/2013
Lead	**ND**	mg/L	0.0030	0.015	EPA 6020A	5/13/2013
Manganese	**1.3**	mg/L	0.0030		EPA 6020A	5/13/2013
Mercury	**ND**	mg/L	0.0005	0.002	EPA 245.1	5/15/2013
Selenium	**ND**	mg/L	0.015	0.05	EPA 6020A	5/13/2013
Silver	**ND**	mg/L	0.0030		EPA 6020A	5/13/2013
Zinc	**ND**	mg/L	0.060		EPA 6020A	5/13/2013

Landfill Inorganics_01

ITEM	RESULT	UNITS	RL	MCL	METHOD #	TESTED
Nitrate as Nitrogen	**0.88**	mg/L	0.10	10	EPA 300.0	5/9/2013
Alkalinity	**870**	mg/L as CaCO	2.0		SM 2320B	5/8/2013
Chloride	**99**	mg/L	1.0		EPA 300.0	5/9/2013
Sulfate	**67**	mg/L	1.0		EPA 300.0	5/9/2013
Total Dissolved Solids	**1,400**	mg/L	7.0		SM 2540C	5/9/2013

Attached please find the laboratory certified parameter list.

Approved By: Jongmin Lei
(Lab Director)
6/4/2013

ND = None Detected RL = Reporting Limit MCL = Maximum Contaminant Level

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW 3I

Lab Name: BARNSTABLE COUNTY LAB Contract:

Lab Code: MA00009 Case No.: SAS No.: SDG No.: 73514

Matrix: (soil/water) WATER Lab Sample ID: 73514-01

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: 05081314

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 05/08/13

GC Column: DB-624 ID: 2.50 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-35-4	1 1-Dichloroethene	0.50	U
75-09-2	Methylene Chloride	0.50	U
156-60-5	trans-1 2-Dichloroethene	0.50	U
75-34-3	1 1-Dichloroethane	0.50	U
156-59-2	cis-1 2-Dichloroethene	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1 1 1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1 2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1 2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
108-88-3	Toluene	0.50	U
79-00-5	1 1 2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
124-48-1	Dibromochloromethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethyl Benzene	0.50	U
106-42-3	m,p-Xylene	0.50	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
79-34-5	1 1 2 2-tetrachloroethane	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
67-64-1	Acetone	5.0	U
78-93-3	2-Butanone	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW 3I

Lab Name: BARNSTABLE COUNTY LAB Contract:

Lab Code: MA00009 Case No.: SAS No.: SDG No.: 73514

Matrix: (soil/water) WATER Lab Sample ID: 73514-01

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: 05081314

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 05/08/13

GC Column: DB-624 ID: 2.50 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-10-1	4-Methyl-2-Pentanone	5.0	U
591-78-6	2-Hexanone	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW 3D

Lab Name: BARNSTABLE COUNTY LAB Contract:

Lab Code: MA00009 Case No.: SAS No.: SDG No.: 73514

Matrix: (soil/water) WATER Lab Sample ID: 73514-02

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: 05081315

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 05/08/13

GC Column: DB-624 ID: 2.50 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-35-4	1 1-Dichloroethene	0.50	U
75-09-2	Methylene Chloride	0.50	U
156-60-5	trans-1 2-Dichloroethene	0.50	U
75-34-3	1 1-Dichloroethane	0.50	U
156-59-2	cis-1 2-Dichloroethene	1.1	
67-66-3	Chloroform	0.50	U
71-55-6	1 1 1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.91	
107-06-2	1 2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1 2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
108-88-3	Toluene	0.50	U
79-00-5	1 1 2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
124-48-1	Dibromochloromethane	0.50	U
108-90-7	Chlorobenzene	1.4	
100-41-4	Ethyl Benzene	0.50	U
106-42-3	m,p-Xylene	0.50	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
79-34-5	1 1 2 2-tetrachloroethane	0.50	U
1634-04-4	Methyl tert-butyl ether	1.1	
10061-01-5	cis-1,3-Dichloropropene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
67-64-1	Acetone	5.0	U
78-93-3	2-Butanone	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW 3D

Lab Name: BARNSTABLE COUNTY LAB Contract:

Lab Code: MA00009 Case No.: SAS No.: SDG No.: 73514

Matrix: (soil/water) WATER Lab Sample ID: 73514-02

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: 05081315

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 05/08/13

GC Column: DB-624 ID: 2.50 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-10-1	4-Methyl-2-Pentanone	5.0	U
591-78-6	2-Hexanone	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

BCH #13

Lab Name: BARNSTABLE COUNTY LAB Contract:

Lab Code: MA00009 Case No.: SAS No.: SDG No.: 73514

Matrix: (soil/water) WATER Lab Sample ID: 73514-03

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: 05081316

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 05/08/13

GC Column: DB-624 ID: 2.50 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-35-4	1 1-Dichloroethene	0.50	U
75-09-2	Methylene Chloride	0.50	U
156-60-5	trans-1 2-Dichloroethene	0.50	U
75-34-3	1 1-Dichloroethane	0.50	U
156-59-2	cis-1 2-Dichloroethene	1.4	
67-66-3	Chloroform	0.50	U
71-55-6	1 1 1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	1.0	
107-06-2	1 2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1 2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
108-88-3	Toluene	0.50	U
79-00-5	1 1 2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
124-48-1	Dibromochloromethane	0.50	U
108-90-7	Chlorobenzene	1.6	
100-41-4	Ethyl Benzene	0.50	U
106-42-3	m,p-Xylene	0.50	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
79-34-5	1 1 2 2-tetrachloroethane	0.50	U
1634-04-4	Methyl tert-butyl ether	1.4	
10061-01-5	cis-1,3-Dichloropropene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
67-64-1	Acetone	5.0	U
78-93-3	2-Butanone	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

BCH #13

Lab Name: BARNSTABLE COUNTY LAB Contract:

Lab Code: MA00009 Case No.: SAS No.: SDG No.: 73514

Matrix: (soil/water) WATER Lab Sample ID: 73514-03

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: 05081316

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 05/08/13

GC Column: DB-624 ID: 2.50 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-10-1	4-Methyl-2-Pentanone	5.0	U
591-78-6	2-Hexanone	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB

Lab Name: BARNSTABLE COUNTY LAB Contract:

Lab Code: MA00009 Case No.: SAS No.: SDG No.: 73514

Matrix: (soil/water) WATER Lab Sample ID: 73514-04

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: 05081317

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 05/08/13

GC Column: DB-624 ID: 2.50 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-35-4	1 1-Dichloroethene	0.50	U
75-09-2	Methylene Chloride	0.50	U
156-60-5	trans-1 2-Dichloroethene	0.50	U
75-34-3	1 1-Dichloroethane	0.50	U
156-59-2	cis-1 2-Dichloroethene	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1 1 1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1 2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1 2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
108-88-3	Toluene	0.50	U
79-00-5	1 1 2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
124-48-1	Dibromochloromethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethyl Benzene	0.50	U
106-42-3	m,p-Xylene	0.50	U
95-47-6	o-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
79-34-5	1 1 2 2-tetrachloroethane	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
67-64-1	Acetone	5.0	U
78-93-3	2-Butanone	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB

Lab Name: BARNSTABLE COUNTY LAB Contract:

Lab Code: MA00009 Case No.: SAS No.: SDG No.: 73514

Matrix: (soil/water) WATER Lab Sample ID: 73514-04

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: 05081317

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 05/08/13

GC Column: DB-624 ID: 2.50 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-10-1	4-Methyl-2-Pentanone	5.0	U
591-78-6	2-Hexanone	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW 3 I

Lab Name: BARNSTABLE COUNTY LAB Contract:

Lab Code: MA00009 Case No.: SAS No.: SDG No.: 73514

Matrix: (soil/water) WATER Lab Sample ID: 73514-01

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: 06071324

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 06/07/13

GC Column: DB-624 ID: 2.50 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
123-91-1	1,4-Dioxane	2.5	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW 3D

Lab Name: BARNSTABLE COUNTY LAB Contract:

Lab Code: MA00009 Case No.: SAS No.: SDG No.: 73514

Matrix: (soil/water) WATER Lab Sample ID: 73514-02

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: 06071325

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 06/07/13

GC Column: DB-624 ID: 2.50 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
123-91-1	1,4-Dioxane	17	

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

BCH #13

Lab Name: BARNSTABLE COUNTY LAB Contract:

Lab Code: MA00009 Case No.: SAS No.: SDG No.: 73514

Matrix: (soil/water) WATER Lab Sample ID: 73514-03

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: 06071326

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 06/07/13

GC Column: DB-624 ID: 2.50 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
123-91-1	1,4-Dioxane	18	

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TB

Lab Name: BARNSTABLE COUNTY LAB Contract:

Lab Code: MA00009 Case No.: SAS No.: SDG No.: 73514

Matrix: (soil/water) WATER Lab Sample ID: 73514-04

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: 06071327

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 06/07/13

GC Column: DB-624 ID: 2.50 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
123-91-1	1,4-Dioxane	2.5	U

BARNSTABLE COUNTY LABORATORY

Project Narrative

Project: Landfill
Client: Town of Eastham

Lab ID: G1373514
Received: 5/8/2013

1. Documentation and Client Communication

A: No documentation discrepancies, changes, or amendments were noted.

2. Method Modifications, Non-Conformances and Observations

A: No documentation discrepancies, changes, or amendments were noted.

3. Laboratories Which Performed Analyses

EPA 8260	Barnstable County Laboratory
HACH 8000	Barnstable County Laboratory
EPA 300.0	Barnstable County Laboratory
SM 2540C	Barnstable County Laboratory
SM 2320B	Barnstable County Laboratory
EPA 6020A	Barnstable County Laboratory
EPA 245.1	Rhode Island Analytical Lab
SM 4500-CN	Premier Lab

73514 (01-02)

Barnstable County Department of Health and the Environment

Superior Court House
P. O. Box 427
Barnstable, MA 02630
(508) 375-6605;6612

pg 1 of 2

CHAIN OF CUSTODY

CLIENT NAME: Eastham DF

ADDRESS: Report to Bennett Environmental

PROJECT NAME: _____ **PROJECT NUMBER:** _____

PROJECT SITE: _____ **SAMPLER:** LKMP/LAM

	DATE/ TIME:	SAMPLE NUMBER	SAMPLE LOCATION	NO. OF SAMPLES	ANALYSES REQUIRED	COMMENTS
1	5/8/13 1045	500 ✓	mw 3i	1	NIT/AMM TDS SO4 Cl-	
		501 ✓			Fe Mn Cu Pb Zn Cd Cr As Ag Se Ba	FALT
		502 ✓		↓	COD	
		503, 504, 505 ✓		3	8260+ Ketones	
		506 ✓		1	TCN	TO PPSM
	↓	507 ✓	↓	↓	Hg	FALT, TOTAL
2	1045	508 ✓	mw 3D		NIT/AMM TDS SO4 Cl-	
		509 ✓			Fe Mn Cu Pb Zn Cd Cr As Ag Se Ba	FALT
		510 ✓		↓	COD	
		511, 512, 513 ✓		3	8260+ Ketones	
		514 ✓		1	TCN	TO PPSM
	↓	515 ✓	↓	↓	Hg	FALT, TOTAL

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
[signature]	5/8/13	E J Hughes	5-8-13 1515
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:

Rec 4 (3) 40 mL Amber w/HCl
(3) 500 mL ice
(6) 250 mL w/HNO3
(3) 200 mL w/NAOH

73514 (03-04)

Barnstable County Department of Health and the Environment

Superior Court House
P. O. Box 427
Barnstable, MA 02630
(508) 375-6605;6612

Pg 2 of 2

CHAIN OF CUSTODY

CLIENT NAME: EASTHAM UF

ADDRESS: Report to Bennett Env.

PROJECT NAME: _____ **PROJECT NUMBER:** _____

PROJECT SITE: _____ **SAMPLER:** LKMP | LAM

DATE/ TIME:	SAMPLE NUMBER	SAMPLE LOCATION	NO. OF SAMPLES	ANALYSES REQUIRED	COMMENTS
3 5/8/13 1015	S16	BCH #13	1	NITRATE TDS SO4 Cl-	
	S17			Fe Mn Cu Pb Zn Cd Cr As Ag Se Ba	FAIL
	S18		↓	coli	
	S19, S20, S21		3	8260+ Ketones	
	S22		1	TCN	TO PRGM
↓ ↓	S23	↓	↓	Hg	FAIL TOTAL
4 900	East 1, 2, 3,	TRIP BLK	3	8260 Ketones	

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
[signature]	5/8/13	Ed Hughes	5-8-13 15 15
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:

The Commonwealth of Massachusetts

Department of Environmental Protection

Division of Environmental Analysis
Senator William X. Wall Experiment Station

certifies

M-MA009

BARNSTABLE COUNTY HEALTH & ENV DEPT
3195 MAIN ST
RTE 6A, SUPERIOR CT HOUSE
BARNSTABLE, MA 02630-0000

Laboratory Director: **GONGMIN LEI**

for the analysis of

NON POTABLE WATER (MICROBIOLOGY)
POTABLE WATER (CHEMISTRY)
NON POTABLE WATER (CHEMISTRY)
POTABLE WATER (MICROBIOLOGY)

pursuant to 310 CMR 42.00

This certificate supersedes all previous Massachusetts certificates issued to this laboratory. The laboratory is regulated by and shall be responsible for being in compliance with Massachusetts regulations at 310 CMR 42.00.

This certificate is valid only when accompanied by the latest dated Certified Parameter List as issued by the Massachusetts D.E.P. Contact the Division of Environmental Analysis to verify the current certification status of the laboratory.

Certification is no guarantee of the validity of the data. This certification is subject to unannounced laboratory inspections.

Issued: **01 JUL 2012**

Expires: **30 JUN 2013**

Oscar C. Jacobs

Director, Division of Environmental Analysis

COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Certified Parameter List as of: 01 JUL 2012

M-MA009 BARNSTABLE COUNTY HEALTH & ENV DEPT
BARNSTABLE MA

POTABLE WATER (CHEMISTRY) **Effective Date** **01 JUL 2012** **Expiration Date** **30 JUN 2013**

Analytes	Methods
ANTIMONY	EPA 200.8
ARSENIC	EPA 200.8
BARIUM	EPA 200.8
BERYLLIUM	EPA 200.8
CADMIUM	EPA 200.8
CHROMIUM	EPA 200.8
COPPER	EPA 200.8
COPPER	SM 3111B
LEAD	EPA 200.8
MERCURY	EPA 200.8
NICKEL	EPA 200.8
NICKEL	SM 3111B
SELENIUM	EPA 200.8
SILVER	EPA 200.8
THALLIUM	EPA 200.8
NITRATE-N	EPA 300.0
NITRITE-N	EPA 300.0
FLUORIDE	EPA 300.0
SODIUM	SM 3111B
SULFATE	EPA 300.0
TURBIDITY	EPA 180.1
CALCIUM	SM 3111B
ALKALINITY, TOTAL	SM 2320B
TOTAL DISSOLVED SOLIDS	SM 2540C
PH	SM 4500-H-B
TRIHALOMETHANES	EPA 524.2
VOLATILE ORGANIC COMPOUNDS	EPA 524.2
1,2-DIBROMOETHANE	EPA 504.1
1,2-DIBROMO-3-CHLOROPROPANE	EPA 504.1
PERCHLORATE	EPA 314.0

COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Certified Parameter List as of: 01 JUL 2012

M-MA009 **BARNSTABLE COUNTY HEALTH & ENV DEPT**
BARNSTABLE MA

NON POTABLE WATER (CHEMISTRY) **Effective Date** **01 JUL 2012** **Expiration Date** **30 JUN 2013**

Analytes	Methods
ALUMINUM	EPA 200.8
ANTIMONY	EPA 200.8
ARSENIC	EPA 200.8
BERYLLIUM	EPA 200.8
CADMIUM	EPA 200.8
CHROMIUM	EPA 200.8
COBALT	EPA 200.8
COPPER	SM 3111B
COPPER	EPA 200.8
IRON	SM 3111B
LEAD	EPA 200.8
MANGANESE	SM 3111B
MANGANESE	EPA 200.8
NICKEL	SM 3111B
NICKEL	EPA 200.8
SELENIUM	EPA 200.8
SILVER	EPA 200.8
THALLIUM	EPA 200.8
VANADIUM	EPA 200.8
ZINC	SM 3111B
ZINC	EPA 200.8
PH	SM 4500-H-B
SPECIFIC CONDUCTIVITY	EPA 120.1
SPECIFIC CONDUCTIVITY	SM 2510B
TOTAL DISSOLVED SOLIDS	SM 2540C
HARDNESS (CACO3), TOTAL	SM 2340B
CALCIUM	SM 3111B
MAGNESIUM	SM 3111B
SODIUM	SM 3111B
POTASSIUM	SM 3111B
ALKALINITY, TOTAL	SM 2320B
CHLORIDE	EPA 300.0
SULFATE	EPA 300.0
NITRATE-N	EPA 300.0
CHEMICAL OXYGEN DEMAND	HACH METHOD 8000
BIOCHEMICAL OXYGEN DEMAND	SM 5210B
TOTAL ORGANIC CARBON	SM 5310B
NON-FILTERABLE RESIDUE	SM 2540D
VOLATILE HALOCARBONS	EPA 624
VOLATILE AROMATICS	EPA 624

POTABLE WATER (CHEMISTRY) **Effective Date** **01 JUL 2012** **Expiration Date** **30 JUN 2013**

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-38132-1
Client Project/Site: Eastham Landfill IRA

For:
Bennett Environmental Associates, Inc.
1573 Main St.
Brewster, Massachusetts 02631

Attn: David Bennett

Authorized for release by:
5/17/2013 12:30:43 PM

Steve Hartmann, Lab Director
steve.hartmann@testamericainc.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38132-1

Qualifiers

GC/MS VOA

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-38132-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-38132-1

Receipt
The samples were received on 5/11/2013 6:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.9º C.

Receipt Exceptions:
All 522 samples were received at the laboratory outside the required temperature criteria. Cooler was received with a recored temperature of 11.8ºC. Client was notified and requested 522 analysis be canceled.

GC/MS VOA
Method(s) 524.2: The continuing calibration verification (CCV) for 2-Methyl-2-propanol associated with batch 118231 recovered above the upper control limit. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method(s) 524.2: The following sample(s) contained residual chlorine upon receipt at approximately 0.1ppm: 21 Smith Ln. (480-38132-1).

No other analytical or quality issues were noted.

Detection Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38132-1

Client Sample ID: 21 Smith Ln. — Lab Sample ID: 480-38132-1

No Detections.

Client Sample ID: 555 Schoolhouse Rd — Lab Sample ID: 480-38132-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.72		0.50	0.14	ug/L	1		524.2	Total/NA

Client Sample ID: 40 Fairview Ave. — Lab Sample ID: 480-38132-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.37	J	0.50	0.14	ug/L	1		524.2	Total/NA

Client Sample ID: Community Well-Old Orchard Rd. — Lab Sample ID: 480-38132-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.25	J	0.50	0.14	ug/L	1		524.2	Total/NA

Client Sample ID: 10 Sharon Cir. — Lab Sample ID: 480-38132-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.26	J	0.50	0.14	ug/L	1		524.2	Total/NA
Chloromethane	0.084	J	0.50	0.063	ug/L	1		524.2	Total/NA

Client Sample ID: 400 Schoolhouse Rd. — Lab Sample ID: 480-38132-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloromethane	0.071	J	0.50	0.063	ug/L	1		524.2	Total/NA

Client Sample ID: 45 Chokeberry Dr. — Lab Sample ID: 480-38132-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.58		0.50	0.14	ug/L	1		524.2	Total/NA

Client Sample ID: 3 Whidah Ln. — Lab Sample ID: 480-38132-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.38	J	0.50	0.14	ug/L	1		524.2	Total/NA
Chloromethane	0.099	J	0.50	0.063	ug/L	1		524.2	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 480-38132-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	1.5	J	2.5	0.25	ug/L	1		524.2	Total/NA
Acetone	5.8		2.5	0.54	ug/L	1		524.2	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38132-1

Client Sample ID: 21 Smith Ln.
Date Collected: 05/09/13 10:10
Date Received: 05/11/13 06:00

Lab Sample ID: 480-38132-1
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/13/13 11:17	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/13/13 11:17	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/13/13 11:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/13/13 11:17	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/13/13 11:17	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/13/13 11:17	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/13/13 11:17	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/13/13 11:17	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/13/13 11:17	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/13/13 11:17	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/13/13 11:17	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/13/13 11:17	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/13/13 11:17	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/13/13 11:17	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/13/13 11:17	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/13/13 11:17	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/13/13 11:17	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/13/13 11:17	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/13/13 11:17	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/13/13 11:17	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/13/13 11:17	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/13/13 11:17	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/13/13 11:17	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/13/13 11:17	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/13/13 11:17	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/13/13 11:17	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/13/13 11:17	1
Acetone	ND		2.5	0.54	ug/L			05/13/13 11:17	1
Benzene	ND		0.50	0.13	ug/L			05/13/13 11:17	1
Bromobenzene	ND		0.50	0.13	ug/L			05/13/13 11:17	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/13/13 11:17	1
Bromoform	ND		0.50	0.13	ug/L			05/13/13 11:17	1
Bromomethane	ND		0.50	0.051	ug/L			05/13/13 11:17	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/13/13 11:17	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/13/13 11:17	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/13/13 11:17	1
Chloroethane	ND		0.50	0.070	ug/L			05/13/13 11:17	1
Chloroform	ND		0.50	0.14	ug/L			05/13/13 11:17	1
Chloromethane	ND		0.50	0.063	ug/L			05/13/13 11:17	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/13/13 11:17	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/13/13 11:17	1
Dibromomethane	ND		0.50	0.17	ug/L			05/13/13 11:17	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/13/13 11:17	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/13/13 11:17	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/13/13 11:17	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/13/13 11:17	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/13/13 11:17	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/13/13 11:17	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/13/13 11:17	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38132-1

Client Sample ID: 21 Smith Ln.

Lab Sample ID: 480-38132-1

Date Collected: 05/09/13 10:10

Matrix: Water

Date Received: 05/11/13 06:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/13/13 11:17	1
Naphthalene	ND		0.50	0.060	ug/L			05/13/13 11:17	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/13/13 11:17	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/13/13 11:17	1
o-Xylene	ND		0.50	0.044	ug/L			05/13/13 11:17	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/13/13 11:17	1
Styrene	ND		0.50	0.044	ug/L			05/13/13 11:17	1
t-Butanol	ND		10	2.5	ug/L			05/13/13 11:17	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/13/13 11:17	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/13/13 11:17	1
Toluene	ND		0.50	0.10	ug/L			05/13/13 11:17	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/13/13 11:17	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/13/13 11:17	1
Trichloroethene	ND		0.50	0.060	ug/L			05/13/13 11:17	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/13/13 11:17	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/13/13 11:17	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/13/13 11:17	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/13/13 11:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*107*		*80 - 120*		*05/13/13 11:17*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*05/13/13 11:17*	*1*

Client Sample ID: 555 Schoolhouse Rd

Lab Sample ID: 480-38132-3

Date Collected: 05/09/13 11:45

Matrix: Water

Date Received: 05/11/13 06:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/13/13 12:07	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/13/13 12:07	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/13/13 12:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/13/13 12:07	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/13/13 12:07	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/13/13 12:07	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/13/13 12:07	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/13/13 12:07	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/13/13 12:07	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/13/13 12:07	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/13/13 12:07	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/13/13 12:07	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/13/13 12:07	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/13/13 12:07	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/13/13 12:07	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/13/13 12:07	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/13/13 12:07	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/13/13 12:07	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/13/13 12:07	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/13/13 12:07	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/13/13 12:07	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38132-1

Client Sample ID: 555 Schoolhouse Rd
Date Collected: 05/09/13 11:45
Date Received: 05/11/13 06:00

Lab Sample ID: 480-38132-3
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/13/13 12:07	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/13/13 12:07	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/13/13 12:07	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/13/13 12:07	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/13/13 12:07	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/13/13 12:07	1
Acetone	ND		2.5	0.54	ug/L			05/13/13 12:07	1
Benzene	ND		0.50	0.13	ug/L			05/13/13 12:07	1
Bromobenzene	ND		0.50	0.13	ug/L			05/13/13 12:07	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/13/13 12:07	1
Bromoform	ND		0.50	0.13	ug/L			05/13/13 12:07	1
Bromomethane	ND		0.50	0.051	ug/L			05/13/13 12:07	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/13/13 12:07	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/13/13 12:07	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/13/13 12:07	1
Chloroethane	ND		0.50	0.070	ug/L			05/13/13 12:07	1
Chloroform	**0.72**		0.50	0.14	ug/L			05/13/13 12:07	1
Chloromethane	ND		0.50	0.063	ug/L			05/13/13 12:07	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/13/13 12:07	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/13/13 12:07	1
Dibromomethane	ND		0.50	0.17	ug/L			05/13/13 12:07	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/13/13 12:07	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/13/13 12:07	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/13/13 12:07	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/13/13 12:07	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/13/13 12:07	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/13/13 12:07	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/13/13 12:07	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/13/13 12:07	1
Naphthalene	ND		0.50	0.060	ug/L			05/13/13 12:07	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/13/13 12:07	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/13/13 12:07	1
o-Xylene	ND		0.50	0.044	ug/L			05/13/13 12:07	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/13/13 12:07	1
Styrene	ND		0.50	0.044	ug/L			05/13/13 12:07	1
t-Butanol	ND		10	2.5	ug/L			05/13/13 12:07	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/13/13 12:07	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/13/13 12:07	1
Toluene	ND		0.50	0.10	ug/L			05/13/13 12:07	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/13/13 12:07	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/13/13 12:07	1
Trichloroethene	ND		0.50	0.060	ug/L			05/13/13 12:07	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/13/13 12:07	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/13/13 12:07	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/13/13 12:07	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/13/13 12:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*106*		*80 - 120*		*05/13/13 12:07*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*05/13/13 12:07*	*1*

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38132-1

Client Sample ID: 40 Fairview Ave.
Date Collected: 05/09/13 12:35
Date Received: 05/11/13 06:00

Lab Sample ID: 480-38132-5
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/13/13 12:56	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/13/13 12:56	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/13/13 12:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/13/13 12:56	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/13/13 12:56	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/13/13 12:56	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/13/13 12:56	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/13/13 12:56	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/13/13 12:56	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/13/13 12:56	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/13/13 12:56	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/13/13 12:56	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/13/13 12:56	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/13/13 12:56	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/13/13 12:56	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/13/13 12:56	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/13/13 12:56	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/13/13 12:56	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/13/13 12:56	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/13/13 12:56	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/13/13 12:56	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/13/13 12:56	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/13/13 12:56	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/13/13 12:56	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/13/13 12:56	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/13/13 12:56	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/13/13 12:56	1
Acetone	ND		2.5	0.54	ug/L			05/13/13 12:56	1
Benzene	ND		0.50	0.13	ug/L			05/13/13 12:56	1
Bromobenzene	ND		0.50	0.13	ug/L			05/13/13 12:56	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/13/13 12:56	1
Bromoform	ND		0.50	0.13	ug/L			05/13/13 12:56	1
Bromomethane	ND		0.50	0.051	ug/L			05/13/13 12:56	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/13/13 12:56	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/13/13 12:56	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/13/13 12:56	1
Chloroethane	ND		0.50	0.070	ug/L			05/13/13 12:56	1
Chloroform	**0.37**	**J**	0.50	0.14	ug/L			05/13/13 12:56	1
Chloromethane	ND		0.50	0.063	ug/L			05/13/13 12:56	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/13/13 12:56	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/13/13 12:56	1
Dibromomethane	ND		0.50	0.17	ug/L			05/13/13 12:56	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/13/13 12:56	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/13/13 12:56	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/13/13 12:56	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/13/13 12:56	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/13/13 12:56	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/13/13 12:56	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/13/13 12:56	1

Client Sample ID: 40 Fairview Ave.
Date Collected: 05/09/13 12:35
Date Received: 05/11/13 06:00

Lab Sample ID: 480-38132-5
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/13/13 12:56	1
Naphthalene	ND		0.50	0.060	ug/L			05/13/13 12:56	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/13/13 12:56	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/13/13 12:56	1
o-Xylene	ND		0.50	0.044	ug/L			05/13/13 12:56	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/13/13 12:56	1
Styrene	ND		0.50	0.044	ug/L			05/13/13 12:56	1
t-Butanol	ND		10	2.5	ug/L			05/13/13 12:56	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/13/13 12:56	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/13/13 12:56	1
Toluene	ND		0.50	0.10	ug/L			05/13/13 12:56	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/13/13 12:56	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/13/13 12:56	1
Trichloroethene	ND		0.50	0.060	ug/L			05/13/13 12:56	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/13/13 12:56	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/13/13 12:56	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/13/13 12:56	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/13/13 12:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*107*		*80 - 120*		*05/13/13 12:56*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*05/13/13 12:56*	*1*

Client Sample ID: Community Well-Old Orchard Rd.
Date Collected: 05/09/13 13:30
Date Received: 05/11/13 06:00

Lab Sample ID: 480-38132-7
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/13/13 13:45	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/13/13 13:45	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/13/13 13:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/13/13 13:45	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/13/13 13:45	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/13/13 13:45	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/13/13 13:45	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/13/13 13:45	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/13/13 13:45	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/13/13 13:45	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/13/13 13:45	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/13/13 13:45	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/13/13 13:45	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/13/13 13:45	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/13/13 13:45	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/13/13 13:45	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/13/13 13:45	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/13/13 13:45	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/13/13 13:45	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/13/13 13:45	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/13/13 13:45	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38132-1

Client Sample ID: Community Well-Old Orchard Rd.
Date Collected: 05/09/13 13:30
Date Received: 05/11/13 06:00

Lab Sample ID: 480-38132-7
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/13/13 13:45	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/13/13 13:45	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/13/13 13:45	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/13/13 13:45	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/13/13 13:45	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/13/13 13:45	1
Acetone	ND		2.5	0.54	ug/L			05/13/13 13:45	1
Benzene	ND		0.50	0.13	ug/L			05/13/13 13:45	1
Bromobenzene	ND		0.50	0.13	ug/L			05/13/13 13:45	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/13/13 13:45	1
Bromoform	ND		0.50	0.13	ug/L			05/13/13 13:45	1
Bromomethane	ND		0.50	0.051	ug/L			05/13/13 13:45	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/13/13 13:45	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/13/13 13:45	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/13/13 13:45	1
Chloroethane	ND		0.50	0.070	ug/L			05/13/13 13:45	1
Chloroform	**0.25**	**J**	0.50	0.14	ug/L			05/13/13 13:45	1
Chloromethane	ND		0.50	0.063	ug/L			05/13/13 13:45	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/13/13 13:45	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/13/13 13:45	1
Dibromomethane	ND		0.50	0.17	ug/L			05/13/13 13:45	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/13/13 13:45	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/13/13 13:45	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/13/13 13:45	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/13/13 13:45	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/13/13 13:45	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/13/13 13:45	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/13/13 13:45	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/13/13 13:45	1
Naphthalene	ND		0.50	0.060	ug/L			05/13/13 13:45	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/13/13 13:45	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/13/13 13:45	1
o-Xylene	ND		0.50	0.044	ug/L			05/13/13 13:45	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/13/13 13:45	1
Styrene	ND		0.50	0.044	ug/L			05/13/13 13:45	1
t-Butanol	ND		10	2.5	ug/L			05/13/13 13:45	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/13/13 13:45	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/13/13 13:45	1
Toluene	ND		0.50	0.10	ug/L			05/13/13 13:45	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/13/13 13:45	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/13/13 13:45	1
Trichloroethene	ND		0.50	0.060	ug/L			05/13/13 13:45	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/13/13 13:45	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/13/13 13:45	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/13/13 13:45	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/13/13 13:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*106*		*80 - 120*		*05/13/13 13:45*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*05/13/13 13:45*	*1*

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38132-1

Client Sample ID: 10 Sharon Cir.
Date Collected: 05/09/13 14:15
Date Received: 05/11/13 06:00

Lab Sample ID: 480-38132-9
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/13/13 14:35	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/13/13 14:35	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/13/13 14:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/13/13 14:35	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/13/13 14:35	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/13/13 14:35	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/13/13 14:35	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/13/13 14:35	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/13/13 14:35	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/13/13 14:35	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/13/13 14:35	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/13/13 14:35	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/13/13 14:35	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/13/13 14:35	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/13/13 14:35	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/13/13 14:35	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/13/13 14:35	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/13/13 14:35	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/13/13 14:35	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/13/13 14:35	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/13/13 14:35	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/13/13 14:35	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/13/13 14:35	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/13/13 14:35	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/13/13 14:35	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/13/13 14:35	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/13/13 14:35	1
Acetone	ND		2.5	0.54	ug/L			05/13/13 14:35	1
Benzene	ND		0.50	0.13	ug/L			05/13/13 14:35	1
Bromobenzene	ND		0.50	0.13	ug/L			05/13/13 14:35	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/13/13 14:35	1
Bromoform	ND		0.50	0.13	ug/L			05/13/13 14:35	1
Bromomethane	ND		0.50	0.051	ug/L			05/13/13 14:35	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/13/13 14:35	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/13/13 14:35	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/13/13 14:35	1
Chloroethane	ND		0.50	0.070	ug/L			05/13/13 14:35	1
Chloroform	**0.26**	**J**	0.50	0.14	ug/L			05/13/13 14:35	1
Chloromethane	**0.084**	**J**	0.50	0.063	ug/L			05/13/13 14:35	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/13/13 14:35	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/13/13 14:35	1
Dibromomethane	ND		0.50	0.17	ug/L			05/13/13 14:35	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/13/13 14:35	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/13/13 14:35	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/13/13 14:35	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/13/13 14:35	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/13/13 14:35	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/13/13 14:35	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/13/13 14:35	1

Client Sample ID: 10 Sharon Cir.
Date Collected: 05/09/13 14:15
Date Received: 05/11/13 06:00

Lab Sample ID: 480-38132-9
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/13/13 14:35	1
Naphthalene	ND		0.50	0.060	ug/L			05/13/13 14:35	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/13/13 14:35	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/13/13 14:35	1
o-Xylene	ND		0.50	0.044	ug/L			05/13/13 14:35	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/13/13 14:35	1
Styrene	ND		0.50	0.044	ug/L			05/13/13 14:35	1
t-Butanol	ND		10	2.5	ug/L			05/13/13 14:35	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/13/13 14:35	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/13/13 14:35	1
Toluene	ND		0.50	0.10	ug/L			05/13/13 14:35	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/13/13 14:35	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/13/13 14:35	1
Trichloroethene	ND		0.50	0.060	ug/L			05/13/13 14:35	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/13/13 14:35	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/13/13 14:35	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/13/13 14:35	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/13/13 14:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*106*		*80 - 120*		*05/13/13 14:35*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*05/13/13 14:35*	*1*

Client Sample ID: 400 Schoolhouse Rd.
Date Collected: 05/09/13 11:30
Date Received: 05/11/13 06:00

Lab Sample ID: 480-38132-11
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/13/13 15:24	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/13/13 15:24	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/13/13 15:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/13/13 15:24	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/13/13 15:24	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/13/13 15:24	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/13/13 15:24	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/13/13 15:24	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/13/13 15:24	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/13/13 15:24	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/13/13 15:24	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/13/13 15:24	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/13/13 15:24	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/13/13 15:24	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/13/13 15:24	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/13/13 15:24	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/13/13 15:24	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/13/13 15:24	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/13/13 15:24	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/13/13 15:24	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/13/13 15:24	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38132-1

Client Sample ID: 400 Schoolhouse Rd.
Date Collected: 05/09/13 11:30
Date Received: 05/11/13 06:00

Lab Sample ID: 480-38132-11
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/13/13 15:24	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/13/13 15:24	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/13/13 15:24	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/13/13 15:24	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/13/13 15:24	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/13/13 15:24	1
Acetone	ND		2.5	0.54	ug/L			05/13/13 15:24	1
Benzene	ND		0.50	0.13	ug/L			05/13/13 15:24	1
Bromobenzene	ND		0.50	0.13	ug/L			05/13/13 15:24	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/13/13 15:24	1
Bromoform	ND		0.50	0.13	ug/L			05/13/13 15:24	1
Bromomethane	ND		0.50	0.051	ug/L			05/13/13 15:24	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/13/13 15:24	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/13/13 15:24	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/13/13 15:24	1
Chloroethane	ND		0.50	0.070	ug/L			05/13/13 15:24	1
Chloroform	ND		0.50	0.14	ug/L			05/13/13 15:24	1
Chloromethane	**0.071**	**J**	0.50	0.063	ug/L			05/13/13 15:24	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/13/13 15:24	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/13/13 15:24	1
Dibromomethane	ND		0.50	0.17	ug/L			05/13/13 15:24	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/13/13 15:24	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/13/13 15:24	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/13/13 15:24	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/13/13 15:24	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/13/13 15:24	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/13/13 15:24	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/13/13 15:24	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/13/13 15:24	1
Naphthalene	ND		0.50	0.060	ug/L			05/13/13 15:24	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/13/13 15:24	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/13/13 15:24	1
o-Xylene	ND		0.50	0.044	ug/L			05/13/13 15:24	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/13/13 15:24	1
Styrene	ND		0.50	0.044	ug/L			05/13/13 15:24	1
t-Butanol	ND		10	2.5	ug/L			05/13/13 15:24	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/13/13 15:24	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/13/13 15:24	1
Toluene	ND		0.50	0.10	ug/L			05/13/13 15:24	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/13/13 15:24	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/13/13 15:24	1
Trichloroethene	ND		0.50	0.060	ug/L			05/13/13 15:24	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/13/13 15:24	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/13/13 15:24	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/13/13 15:24	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/13/13 15:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*106*		*80 - 120*		*05/13/13 15:24*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*05/13/13 15:24*	*1*

Client Sample ID: 45 Chokeberry Dr.
Date Collected: 05/09/13 12:05
Date Received: 05/11/13 06:00

Lab Sample ID: 480-38132-13
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/13/13 16:12	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/13/13 16:12	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/13/13 16:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/13/13 16:12	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/13/13 16:12	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/13/13 16:12	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/13/13 16:12	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/13/13 16:12	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/13/13 16:12	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/13/13 16:12	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/13/13 16:12	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/13/13 16:12	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/13/13 16:12	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/13/13 16:12	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/13/13 16:12	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/13/13 16:12	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/13/13 16:12	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/13/13 16:12	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/13/13 16:12	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/13/13 16:12	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/13/13 16:12	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/13/13 16:12	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/13/13 16:12	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/13/13 16:12	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/13/13 16:12	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/13/13 16:12	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/13/13 16:12	1
Acetone	ND		2.5	0.54	ug/L			05/13/13 16:12	1
Benzene	ND		0.50	0.13	ug/L			05/13/13 16:12	1
Bromobenzene	ND		0.50	0.13	ug/L			05/13/13 16:12	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/13/13 16:12	1
Bromoform	ND		0.50	0.13	ug/L			05/13/13 16:12	1
Bromomethane	ND		0.50	0.051	ug/L			05/13/13 16:12	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/13/13 16:12	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/13/13 16:12	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/13/13 16:12	1
Chloroethane	ND		0.50	0.070	ug/L			05/13/13 16:12	1
Chloroform	**0.58**		0.50	0.14	ug/L			05/13/13 16:12	1
Chloromethane	ND		0.50	0.063	ug/L			05/13/13 16:12	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/13/13 16:12	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/13/13 16:12	1
Dibromomethane	ND		0.50	0.17	ug/L			05/13/13 16:12	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/13/13 16:12	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/13/13 16:12	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/13/13 16:12	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/13/13 16:12	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/13/13 16:12	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/13/13 16:12	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/13/13 16:12	1

Client Sample ID: 45 Chokeberry Dr.
Date Collected: 05/09/13 12:05
Date Received: 05/11/13 06:00

Lab Sample ID: 480-38132-13
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/13/13 16:12	1
Naphthalene	ND		0.50	0.060	ug/L			05/13/13 16:12	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/13/13 16:12	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/13/13 16:12	1
o-Xylene	ND		0.50	0.044	ug/L			05/13/13 16:12	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/13/13 16:12	1
Styrene	ND		0.50	0.044	ug/L			05/13/13 16:12	1
t-Butanol	ND		10	2.5	ug/L			05/13/13 16:12	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/13/13 16:12	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/13/13 16:12	1
Toluene	ND		0.50	0.10	ug/L			05/13/13 16:12	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/13/13 16:12	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/13/13 16:12	1
Trichloroethene	ND		0.50	0.060	ug/L			05/13/13 16:12	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/13/13 16:12	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/13/13 16:12	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/13/13 16:12	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/13/13 16:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*105*		*80 - 120*		*05/13/13 16:12*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*05/13/13 16:12*	*1*

Client Sample ID: 3 Whidah Ln.
Date Collected: 05/09/13 12:40
Date Received: 05/11/13 06:00

Lab Sample ID: 480-38132-15
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/13/13 17:02	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/13/13 17:02	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/13/13 17:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/13/13 17:02	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/13/13 17:02	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/13/13 17:02	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/13/13 17:02	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/13/13 17:02	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/13/13 17:02	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/13/13 17:02	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/13/13 17:02	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/13/13 17:02	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/13/13 17:02	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/13/13 17:02	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/13/13 17:02	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/13/13 17:02	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/13/13 17:02	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/13/13 17:02	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/13/13 17:02	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/13/13 17:02	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/13/13 17:02	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38132-1

Client Sample ID: 3 Whidah Ln.
Date Collected: 05/09/13 12:40
Date Received: 05/11/13 06:00

Lab Sample ID: 480-38132-15
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/13/13 17:02	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/13/13 17:02	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/13/13 17:02	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/13/13 17:02	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/13/13 17:02	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/13/13 17:02	1
Acetone	ND		2.5	0.54	ug/L			05/13/13 17:02	1
Benzene	ND		0.50	0.13	ug/L			05/13/13 17:02	1
Bromobenzene	ND		0.50	0.13	ug/L			05/13/13 17:02	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/13/13 17:02	1
Bromoform	ND		0.50	0.13	ug/L			05/13/13 17:02	1
Bromomethane	ND		0.50	0.051	ug/L			05/13/13 17:02	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/13/13 17:02	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/13/13 17:02	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/13/13 17:02	1
Chloroethane	ND		0.50	0.070	ug/L			05/13/13 17:02	1
Chloroform	**0.38**	**J**	0.50	0.14	ug/L			05/13/13 17:02	1
Chloromethane	**0.099**	**J**	0.50	0.063	ug/L			05/13/13 17:02	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/13/13 17:02	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/13/13 17:02	1
Dibromomethane	ND		0.50	0.17	ug/L			05/13/13 17:02	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/13/13 17:02	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/13/13 17:02	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/13/13 17:02	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/13/13 17:02	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/13/13 17:02	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/13/13 17:02	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/13/13 17:02	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/13/13 17:02	1
Naphthalene	ND		0.50	0.060	ug/L			05/13/13 17:02	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/13/13 17:02	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/13/13 17:02	1
o-Xylene	ND		0.50	0.044	ug/L			05/13/13 17:02	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/13/13 17:02	1
Styrene	ND		0.50	0.044	ug/L			05/13/13 17:02	1
t-Butanol	ND		10	2.5	ug/L			05/13/13 17:02	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/13/13 17:02	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/13/13 17:02	1
Toluene	ND		0.50	0.10	ug/L			05/13/13 17:02	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/13/13 17:02	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/13/13 17:02	1
Trichloroethene	ND		0.50	0.060	ug/L			05/13/13 17:02	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/13/13 17:02	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/13/13 17:02	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/13/13 17:02	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/13/13 17:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*109*		*80 - 120*		*05/13/13 17:02*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*05/13/13 17:02*	*1*

Client Sample ID: Trip Blank
Date Collected: 05/09/13 08:05
Date Received: 05/11/13 06:00

Lab Sample ID: 480-38132-17
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/13/13 17:51	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/13/13 17:51	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/13/13 17:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/13/13 17:51	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/13/13 17:51	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/13/13 17:51	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/13/13 17:51	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/13/13 17:51	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/13/13 17:51	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/13/13 17:51	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/13/13 17:51	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/13/13 17:51	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/13/13 17:51	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/13/13 17:51	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/13/13 17:51	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/13/13 17:51	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/13/13 17:51	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/13/13 17:51	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/13/13 17:51	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/13/13 17:51	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/13/13 17:51	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/13/13 17:51	1
2-Butanone (MEK)	**1.5**	**J**	2.5	0.25	ug/L			05/13/13 17:51	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/13/13 17:51	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/13/13 17:51	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/13/13 17:51	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/13/13 17:51	1
Acetone	**5.8**		2.5	0.54	ug/L			05/13/13 17:51	1
Benzene	ND		0.50	0.13	ug/L			05/13/13 17:51	1
Bromobenzene	ND		0.50	0.13	ug/L			05/13/13 17:51	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/13/13 17:51	1
Bromoform	ND		0.50	0.13	ug/L			05/13/13 17:51	1
Bromomethane	ND		0.50	0.051	ug/L			05/13/13 17:51	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/13/13 17:51	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/13/13 17:51	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/13/13 17:51	1
Chloroethane	ND		0.50	0.070	ug/L			05/13/13 17:51	1
Chloroform	ND		0.50	0.14	ug/L			05/13/13 17:51	1
Chloromethane	ND		0.50	0.063	ug/L			05/13/13 17:51	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/13/13 17:51	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/13/13 17:51	1
Dibromomethane	ND		0.50	0.17	ug/L			05/13/13 17:51	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/13/13 17:51	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/13/13 17:51	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/13/13 17:51	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/13/13 17:51	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/13/13 17:51	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/13/13 17:51	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/13/13 17:51	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38132-1

Client Sample ID: Trip Blank
Date Collected: 05/09/13 08:05
Date Received: 05/11/13 06:00

Lab Sample ID: 480-38132-17
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/13/13 17:51	1
Naphthalene	ND		0.50	0.060	ug/L			05/13/13 17:51	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/13/13 17:51	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/13/13 17:51	1
o-Xylene	ND		0.50	0.044	ug/L			05/13/13 17:51	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/13/13 17:51	1
Styrene	ND		0.50	0.044	ug/L			05/13/13 17:51	1
t-Butanol	ND		10	2.5	ug/L			05/13/13 17:51	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/13/13 17:51	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/13/13 17:51	1
Toluene	ND		0.50	0.10	ug/L			05/13/13 17:51	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/13/13 17:51	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/13/13 17:51	1
Trichloroethene	ND		0.50	0.060	ug/L			05/13/13 17:51	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/13/13 17:51	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/13/13 17:51	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/13/13 17:51	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/13/13 17:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*108*		*80 - 120*		*05/13/13 17:51*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*05/13/13 17:51*	*1*

Surrogate Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38132-1

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)											
		12DCB	BFB										
Lab Sample ID	Client Sample ID	(80-120)	(80-120)										
480-38132-1	21 Smith Ln.	107	101										
480-38132-3	555 Schoolhouse Rd	106	103										
480-38132-5	40 Fairview Ave.	107	103										
480-38132-7	Community Well-Old Orchard Rd.	106	103										
480-38132-9	10 Sharon Cir.	106	103										
480-38132-11	400 Schoolhouse Rd.	106	104										
480-38132-13	45 Chokeberry Dr.	105	103										
480-38132-15	3 Whidah Ln.	109	104										
480-38132-17	Trip Blank	108	105										
LCS 480-118231/4	Lab Control Sample	108	105										
MB 480-118231/5	Method Blank	107	103										

Surrogate Legend

12DCB = 1,2-Dichlorobenzene-d4

BFB = 4-Bromofluorobenzene (Surr)

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-118231/5
Matrix: Water
Analysis Batch: 118231

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/13/13 10:42	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/13/13 10:42	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/13/13 10:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/13/13 10:42	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/13/13 10:42	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/13/13 10:42	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/13/13 10:42	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/13/13 10:42	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/13/13 10:42	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/13/13 10:42	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/13/13 10:42	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/13/13 10:42	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/13/13 10:42	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/13/13 10:42	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/13/13 10:42	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/13/13 10:42	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/13/13 10:42	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/13/13 10:42	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/13/13 10:42	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/13/13 10:42	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/13/13 10:42	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/13/13 10:42	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/13/13 10:42	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/13/13 10:42	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/13/13 10:42	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/13/13 10:42	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/13/13 10:42	1
Acetone	ND		2.5	0.54	ug/L			05/13/13 10:42	1
Benzene	ND		0.50	0.13	ug/L			05/13/13 10:42	1
Bromobenzene	ND		0.50	0.13	ug/L			05/13/13 10:42	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/13/13 10:42	1
Bromoform	ND		0.50	0.13	ug/L			05/13/13 10:42	1
Bromomethane	ND		0.50	0.051	ug/L			05/13/13 10:42	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/13/13 10:42	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/13/13 10:42	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/13/13 10:42	1
Chloroethane	ND		0.50	0.070	ug/L			05/13/13 10:42	1
Chloroform	ND		0.50	0.14	ug/L			05/13/13 10:42	1
Chloromethane	ND		0.50	0.063	ug/L			05/13/13 10:42	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/13/13 10:42	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/13/13 10:42	1
Dibromomethane	ND		0.50	0.17	ug/L			05/13/13 10:42	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/13/13 10:42	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/13/13 10:42	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/13/13 10:42	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/13/13 10:42	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/13/13 10:42	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/13/13 10:42	1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-118231/5
Matrix: Water
Analysis Batch: 118231

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		0.50	0.25	ug/L			05/13/13 10:42	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/13/13 10:42	1
Naphthalene	ND		0.50	0.060	ug/L			05/13/13 10:42	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/13/13 10:42	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/13/13 10:42	1
o-Xylene	ND		0.50	0.044	ug/L			05/13/13 10:42	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/13/13 10:42	1
Styrene	ND		0.50	0.044	ug/L			05/13/13 10:42	1
t-Butanol	ND		10	2.5	ug/L			05/13/13 10:42	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/13/13 10:42	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/13/13 10:42	1
Toluene	ND		0.50	0.10	ug/L			05/13/13 10:42	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/13/13 10:42	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/13/13 10:42	1
Trichloroethene	ND		0.50	0.060	ug/L			05/13/13 10:42	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/13/13 10:42	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/13/13 10:42	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/13/13 10:42	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/13/13 10:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*107*		*80 - 120*		*05/13/13 10:42*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*05/13/13 10:42*	*1*

Lab Sample ID: LCS 480-118231/4
Matrix: Water
Analysis Batch: 118231

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	4.00	3.63		ug/L		91	70 - 130
1,1,1-Trichloroethane	4.00	3.52		ug/L		88	70 - 130
1,1,2,2-Tetrachloroethane	4.00	3.67		ug/L		92	70 - 130
1,1,2-Trichloroethane	4.00	3.77		ug/L		94	70 - 130
1,1-Dichloroethane	4.00	3.64		ug/L		91	70 - 130
1,1-Dichloroethene	4.00	2.93		ug/L		73	70 - 130
1,1-Dichloropropene	4.00	3.69		ug/L		92	70 - 130
1,2,3-Trichlorobenzene	4.00	3.98		ug/L		99	70 - 130
1,2,3-Trichloropropane	4.00	3.61		ug/L		90	70 - 130
1,2,4-Trichlorobenzene	4.00	3.92		ug/L		98	70 - 130
1,2,4-Trimethylbenzene	4.00	3.76		ug/L		94	70 - 130
1,2-Dibromo-3-Chloropropane	4.00	4.31		ug/L		108	70 - 130
1,2-Dibromoethane	4.00	3.58		ug/L		90	70 - 130
1,2-Dichlorobenzene	4.00	3.64		ug/L		91	70 - 130
1,2-Dichloroethane	4.00	3.90		ug/L		98	70 - 130
1,2-Dichloropropane	4.00	4.04		ug/L		101	70 - 130
1,3,5-Trimethylbenzene	4.00	3.75		ug/L		94	70 - 130
1,3-Dichlorobenzene	4.00	3.51		ug/L		88	70 - 130
1,3-Dichloropropane	4.00	3.71		ug/L		93	70 - 130

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-118231/4
Matrix: Water
Analysis Batch: 118231

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	4.00	3.57		ug/L		89	70 - 130
2,2-Dichloropropane	4.00	3.20		ug/L		80	70 - 130
2-Butanone (MEK)	20.0	23.4		ug/L		117	70 - 130
2-Chlorotoluene	4.00	3.75		ug/L		94	70 - 130
4-Chlorotoluene	4.00	3.59		ug/L		90	70 - 130
4-Isopropyltoluene	4.00	3.71		ug/L		93	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	23.3		ug/L		116	70 - 130
Acetone	20.0	25.5		ug/L		128	70 - 130
Benzene	4.00	3.49		ug/L		87	70 - 130
Bromobenzene	4.00	3.45		ug/L		86	70 - 130
Bromochloromethane	4.00	3.29		ug/L		82	70 - 130
Bromoform	4.00	3.50		ug/L		88	70 - 130
Bromomethane	4.00	3.21		ug/L		80	70 - 130
Carbon tetrachloride	4.00	3.39		ug/L		85	70 - 130
Chlorobenzene	4.00	3.50		ug/L		88	70 - 130
Chlorodibromomethane	4.00	3.53		ug/L		88	70 - 130
Chloroethane	4.00	4.05		ug/L		101	70 - 130
Chloroform	4.00	3.38		ug/L		84	70 - 130
Chloromethane	4.00	3.69		ug/L		92	70 - 130
cis-1,2-Dichloroethene	4.00	3.88		ug/L		97	70 - 130
cis-1,3-Dichloropropene	4.00	3.63		ug/L		91	70 - 130
Dibromomethane	4.00	3.65		ug/L		91	70 - 130
Dichlorobromomethane	4.00	3.73		ug/L		93	70 - 130
Dichlorodifluoromethane	4.00	3.61		ug/L		90	70 - 130
Ethylbenzene	4.00	3.60		ug/L		90	70 - 130
Hexachlorobutadiene	4.00	3.60		ug/L		90	70 - 130
Isopropylbenzene	4.00	3.75		ug/L		94	70 - 130
Methyl tert-butyl ether	4.00	3.45		ug/L		86	70 - 130
Methylene Chloride	4.00	3.24		ug/L		81	70 - 130
Naphthalene	4.00	4.18		ug/L		104	70 - 130
n-Butylbenzene	4.00	3.95		ug/L		99	70 - 130
N-Propylbenzene	4.00	3.70		ug/L		92	70 - 130
sec-Butylbenzene	4.00	3.85		ug/L		96	70 - 130
Styrene	4.00	3.57		ug/L		89	70 - 130
tert-Butylbenzene	4.00	3.68		ug/L		92	70 - 130
Tetrachloroethene	4.00	3.35		ug/L		84	70 - 130
Toluene	4.00	3.63		ug/L		91	70 - 130
trans-1,2-Dichloroethene	4.00	3.23		ug/L		81	70 - 130
trans-1,3-Dichloropropene	4.00	3.47		ug/L		87	70 - 130
Trichloroethene	4.00	3.35		ug/L		84	70 - 130
Trichlorofluoromethane	4.00	3.77		ug/L		94	70 - 130
Vinyl chloride	4.00	4.11		ug/L		103	70 - 130
Xylenes, Total	12.0	11.0		ug/L		91	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichlorobenzene-d4	*108*		*80 - 120*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*

QC Association Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38132-1

GC/MS VOA

Analysis Batch: 118231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-38132-1	21 Smith Ln.	Total/NA	Water	524.2	
480-38132-3	555 Schoolhouse Rd	Total/NA	Water	524.2	
480-38132-5	40 Fairview Ave.	Total/NA	Water	524.2	
480-38132-7	Community Well-Old Orchard Rd.	Total/NA	Water	524.2	
480-38132-9	10 Sharon Cir.	Total/NA	Water	524.2	
480-38132-11	400 Schoolhouse Rd.	Total/NA	Water	524.2	
480-38132-13	45 Chokeberry Dr.	Total/NA	Water	524.2	
480-38132-15	3 Whidah Ln.	Total/NA	Water	524.2	
480-38132-17	Trip Blank	Total/NA	Water	524.2	
LCS 480-118231/4	Lab Control Sample	Total/NA	Water	524.2	
MB 480-118231/5	Method Blank	Total/NA	Water	524.2	

Lab Chronicle

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38132-1

Client Sample ID: 21 Smith Ln.

Lab Sample ID: 480-38132-1
Matrix: Water
Date Collected: 05/09/13 10:10
Date Received: 05/11/13 06:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	118231	05/13/13 11:17	CDC	TAL BUF

Client Sample ID: 555 Schoolhouse Rd

Lab Sample ID: 480-38132-3
Matrix: Water
Date Collected: 05/09/13 11:45
Date Received: 05/11/13 06:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	118231	05/13/13 12:07	CDC	TAL BUF

Client Sample ID: 40 Fairview Ave.

Lab Sample ID: 480-38132-5
Matrix: Water
Date Collected: 05/09/13 12:35
Date Received: 05/11/13 06:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	118231	05/13/13 12:56	CDC	TAL BUF

Client Sample ID: Community Well-Old Orchard Rd.

Lab Sample ID: 480-38132-7
Matrix: Water
Date Collected: 05/09/13 13:30
Date Received: 05/11/13 06:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	118231	05/13/13 13:45	CDC	TAL BUF

Client Sample ID: 10 Sharon Cir.

Lab Sample ID: 480-38132-9
Matrix: Water
Date Collected: 05/09/13 14:15
Date Received: 05/11/13 06:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	118231	05/13/13 14:35	CDC	TAL BUF

Client Sample ID: 400 Schoolhouse Rd.

Lab Sample ID: 480-38132-11
Matrix: Water
Date Collected: 05/09/13 11:30
Date Received: 05/11/13 06:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	118231	05/13/13 15:24	CDC	TAL BUF

Lab Chronicle

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38132-1

Client Sample ID: 45 Chokeberry Dr.

Lab Sample ID: 480-38132-13

Date Collected: 05/09/13 12:05
Matrix: Water
Date Received: 05/11/13 06:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	118231	05/13/13 16:12	CDC	TAL BUF

Client Sample ID: 3 Whidah Ln.

Lab Sample ID: 480-38132-15

Date Collected: 05/09/13 12:40
Matrix: Water
Date Received: 05/11/13 06:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	118231	05/13/13 17:02	CDC	TAL BUF

Client Sample ID: Trip Blank

Lab Sample ID: 480-38132-17

Date Collected: 05/09/13 08:05
Matrix: Water
Date Received: 05/11/13 06:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	118231	05/13/13 17:51	CDC	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Certification Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38132-1

Laboratory: TestAmerica Buffalo

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-13
California	NELAP	9	1169CA	09-30-13
Connecticut	State Program	1	PH-0568	09-30-14
Florida	NELAP	4	E87672	06-30-13
Georgia	State Program	4	N/A	03-31-14
Georgia	State Program	4	956	06-30-13
Georgia	State Program	4	956	03-31-14
Illinois	NELAP	5	200003	09-30-13
Iowa	State Program	7	374	03-15-15
Kansas	NELAP	7	E-10187	01-31-14
Kentucky	State Program	4	90029	12-31-13
Kentucky (UST)	State Program	4	30	04-01-14
Louisiana	NELAP	6	02031	06-30-13
Maine	State Program	1	NY00044	12-04-13
Maryland	State Program	3	294	03-31-14
Massachusetts	State Program	1	M-NY044	06-30-13
Michigan	State Program	5	9937	04-01-13 *
Minnesota	NELAP	5	036-999-337	12-31-13
New Hampshire	NELAP	1	2973	09-11-13
New Hampshire	NELAP	1	2337	11-17-13
New Jersey	NELAP	2	NY455	06-30-13
New York	NELAP	2	10026	04-01-14
North Dakota	State Program	8	R-176	03-31-14
Oklahoma	State Program	6	9421	08-31-13
Oregon	NELAP	10	NY200003	06-09-13
Pennsylvania	NELAP	3	68-00281	07-31-13
Rhode Island	State Program	1	LAO00328	12-31-13
Tennessee	State Program	4	TN02970	04-01-14
Texas	NELAP	6	T104704412-11-2	07-31-13
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAP	3	460185	09-14-13
Washington	State Program	10	C784	02-10-14
West Virginia DEP	State Program	3	252	09-30-13
Wisconsin	State Program	5	998310390	08-31-13

* Expired certification is currently pending renewal and is considered valid.

Method Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38132-1

Method	Method Description	Protocol	Laboratory
524.2	Volatile Organic Compounds (GC/MS)	EPA-DW	TAL BUF

Protocol References:

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38132-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-38132-1	21 Smith Ln.	Water	05/09/13 10:10	05/11/13 06:00
480-38132-3	555 Schoolhouse Rd	Water	05/09/13 11:45	05/11/13 06:00
480-38132-5	40 Fairview Ave.	Water	05/09/13 12:35	05/11/13 06:00
480-38132-7	Community Well-Old Orchard Rd.	Water	05/09/13 13:30	05/11/13 06:00
480-38132-9	10 Sharon Cir.	Water	05/09/13 14:15	05/11/13 06:00
480-38132-11	400 Schoolhouse Rd.	Water	05/09/13 11:30	05/11/13 06:00
480-38132-13	45 Chokeberry Dr.	Water	05/09/13 12:05	05/11/13 06:00
480-38132-15	3 Whidah Ln.	Water	05/09/13 12:40	05/11/13 06:00
480-38132-17	Trip Blank	Water	05/09/13 08:05	05/11/13 06:00

TestAmerica Westfield
53 Southampton Road

Westfield, MA 01085
phone 413.572.4000 fax 413.572.3707

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other: **MA MCP**

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: David Bennett	Site Contact:	Date:	COC No:
Bennett Environmental Associates, Inc.	Tel/Fax: 508-896-1706	Lab Contact:	Carrier:	1 of 2 COCs
Address 1573 Main St. / P.O. Box 1743	Analysis Turnaround Time			For Lab Use Only:
City/State/Zip Brewster, MA 02631	Calendar (C) or Work Days (W) C			Walk-in Client:
508-896-1706 Phone	TAT if different from Below			Lab Sampling:
508-896-5109 FAX	☑ 2 weeks			
Project Name: Eastham Landfill	☐ 1 week			Job / SDG No.:
Site: Town of Eastham	☐ 2 days			
P O # BEA09-10104	☐ 1 day			Sampler: JTW/LMP

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample (Y / N)	Composite = C / Grab = G	VOCs via 524.2	1,4-Dioxane via 522.1 Mod	Sample Specific Notes:
21 Smith Ln.	5/9/2013	10:10 AM	G	W	5	N	G	3	2	
21 Smith Ln. Duplicate	5/9/2013	10:10 AM	G	W	4	N	G	3	1	
555 Schoolhouse Rd.	5/9/2013	11:45 am	G	W	5	N	G	3	2	
555 Schoolhouse Rd. Duplicate	5/9/2013	11:45 am	G	W	4	N	G	3	1	
40 Fairview Ave.	5/9/2013	12:35 pm	G	W	5	N	G	3	2	
40 Fairview Ave. Duplicate	5/9/2013	12:35 pm	G	W	4	N	G	3	1	
Community Well - Old Orchard Rd.	5/9/2013	1:30 pm	G	W	5	N	G	3	2	
Community Well Duplicate	5/9/2013	1:30 pm	G	W	4	N	G	3	1	
10 Sharon Cir.	5/9/2013	2:15 pm	G	W	5	N	G	3	2	
10 Sharon Cir. Duplicate	5/9/2013	2:15 pm	G	W	4	N	G	3	1	
400 Schoolhouse Rd.	5/9/2013	11:30 am	G	W	5	N	G	3	2	
400 Schoolhouse Rd. Duplicate	5/9/2013	11:30 am	G	W	4	N	G	3	1	
								1,2	1,2	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments: Please email results to dbennett@bennett-ea.com

	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	BEA	5/9/13 900			
Relinquished by:	BEA	5/10/13 1400		TA	5/10/13 1000
Relinquished by:		5/10/13 1630	Received in Laboratory by:	TA Rush	5-11-13 0600

Form No. CA-C-WI-002, Rev. 4, dated 10/25/2012

5/17/2013

TestAmerica Westfield
53 Southampton Road

Westfield, MA 01085
phone 413.572.4000 fax 413.572.3707

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other: **MA MCP**

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: David Bennett	Site Contact:	Date:	COC No:
Bennett Environmental Associates, Inc.	Tel/Fax: 508-896-1706	Lab Contact:	Carrier:	2 of 2 COCs
Address 1573 Main St. / P.O. Box 1743	Analysis Turnaround Time			For Lab Use Only:
City/State/Zip Brewster, MA 02631	Calendar (C) or Work Days (W) C			Walk-in Client:
508-896-1706 Phone	TAT if different from Below			Lab Sampling:
508-896-5109 FAX	☑ 2 weeks			
Project Name: Eastham Landfill	☐ 1 week			Job / SDG No.:
Site: Town of Eastham	☐ 2 days			
P O # BEA09-10104	☐ 1 day			Sampler: JTW/LMP

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample (Y/N)	Composite = C / Grab = G	VOCs via 524.2	1,4-Dioxane via 522.1 Mod	Sample Specific Notes:
45 Chokeberry Dr.	5/9/2013	12:05 PM	G	W	5	N	G	3	2	
45 Chokeberry Dr. Duplicate	5/9/2013	12:05 PM	G	W	4	N	G	3	1	
3 Whidah Ln.	5/9/2013	12:40 pm	G	W	5	N	G	3	2	
3 Whidah Ln. Duplicate	5/9/2013	12:40 pm	G	W	4	N	G	3	1	
Trip Blank	5/9/2013	8:05 AM	G	W	5	N	G	3	2	
								1,2	1,2	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments: Please email results to dbennett@bennett-ea.com

	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	BEA	5/9/13 4:00pm	BEA Sample Fridge		
Relinquished by:	BEA	5/10/13 1000		TA	5/10/13 1000
Relinquished by:		5-10 1650	Received in Laboratory by:	TA BNH	5.11.13 0600

Form No. CA-C-WI-002, Rev. 4, dated 10/25/2012

2.9 #1

5/17/2013

Login Sample Receipt Checklist

Client: Bennett Environmental Associates, Inc.

Job Number: 480-38132-1

Login Number: 38132

List Source: TestAmerica Buffalo

List Number: 1

Creator: Wienke, Robert

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	BEA
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	True	Lab to check

						Sample ID	21 Smith Ln.	555 Schoolhouse Rd	40 Fairview Ave.	Community Well-Old Orchard Rd.	10 Sharon Cir.	400 Schoolhouse Rd.	45 Chokeberry Dr.	3 Whidah Ln.	Trip Blank
						Sampled By									
						Sample Collection Date	05/09/2013 10:10	05/09/2013 11:45	05/09/2013 12:35	05/09/2013 13:30	05/09/2013 14:15	05/09/2013 11:30	05/09/2013 12:05	05/09/2013 12:40	05/09/2013 08:05
						Laboratory Order Number	480-38132-1	480-38132-3	480-38132-5	480-38132-7	480-38132-9	480-38132-11	480-38132-13	480-38132-15	480-38132-17
Parameter	**Reporting Units**	**GW1**	**GW2**	**RCGW1**	**RCGW2**	**DW MMCL**									
Volatiles by 524.2															
1,1,1,2-Tetrachloroethane	ug/l	5	10	5	10	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1,1-Trichloroethane	ug/l	200	4000	200	4000	200	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1,2,2-Tetrachloroethane	ug/l	2	9	2	9	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1,2-Trichloroethane	ug/l	5	900	5	900	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1-Dichloroethane	ug/l	70	1000	70	1000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1-Dichloroethene	ug/l	7	80	7	80	7	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1-Dichloropropene	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2,3-Trichlorobenzene	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2,3-Trichloropropane	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2,4-Trichlorobenzene	ug/l	70	2000	70	2000	70	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2,4-Trimethylbenzene	ug/l	NA	NA	10000	100000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dibromo-3-Chloropropane	ug/l	NA	NA	100	1000	0.2	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**
1,2-Dibromoethane	ug/l	0.02	2	0.02	2	0.02	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**
1,2-Dichlorobenzene	ug/l	600	2000	600	2000	600	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichloroethane	ug/l	5	5	5	5	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichloropropane	ug/l	5	3	3	3	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,3,5-Trimethylbenzene	ug/l	NA	NA	100	1000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,3-Dichlorobenzene	ug/l	40	2000	40	2000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,3-Dichloropropane	ug/l	NA	NA	5000	50000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,4-Dichlorobenzene	ug/l	5	200	5	200	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,2-Dichloropropane	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Butanone (MEK)	ug/l	4000	50000	4000	50000	NA	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	1.5J
2-Chlorotoluene	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Chlorotoluene	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Isopropyltoluene	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Methyl-2-pentanone (MIBK)	ug/l	350	50000	350	50000	NA	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
Acetone	ug/l	6300	50000	6300	50000	NA	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	5.8
Benzene	ug/l	5	2000	5	2000	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromobenzene	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromochloromethane	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromoform	ug/l	4	700	4	700	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromomethane	ug/l	10	7	7	7	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Carbon tetrachloride	ug/l	5	2	2	2	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chlorobenzene	ug/l	100	200	100	200	100	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chlorodibromomethane	ug/l	2	20	2	20	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chloroethane	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chloroform	ug/l	70	50	50	50	NA	< 0.50	0.72	0.37J	0.25J	0.26J	< 0.50	0.58	0.38J	< 0.50
Chloromethane	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	0.084J	0.071J	< 0.50	0.099J	< 0.50
cis-1,2-Dichloroethene	ug/l	70	100	70	100	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
cis-1,3-Dichloropropene	ug/l	NA	NA	0.5	5	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dibromomethane	ug/l	NA	NA	5000	50000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dichlorobromomethane	ug/l	3	6	3	6	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dichlorodifluoromethane	ug/l	NA	NA	10000	100000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Ethylbenzene	ug/l	700	20000	700	5000	700	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachlorobutadiene	ug/l	0.6	1	0.6	1	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Isopropylbenzene	ug/l	NA	NA	10000	100000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Methyl tert-butyl ether	ug/l	70	50000	70	5000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Methylene Chloride	ug/l	5	10000	5	10000	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
m-Xylene & p-Xylene	ug/l	10000	9000	5000	5000	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene	ug/l	140	1000	140	1000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
n-Butylbenzene	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
N-Propylbenzene	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
o-Xylene	ug/l	10000	9000	5000	5000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Styrene	ug/l	100	100	100	100	100	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
t-Butanol	ug/l	NA	NA	NA	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
tert-Butylbenzene	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Tetrachloroethene	ug/l	5	50	5	50	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Toluene	ug/l	1000	50000	1000	40000	1000	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
trans-1,2-Dichloroethene	ug/l	100	90	90	90	100	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
trans-1,3-Dichloropropene	ug/l	NA	NA	0.5	5	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Trichloroethene	ug/l	5	30	5	30	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Trichlorofluoromethane	ug/l	NA	NA	10000	100000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Trihalomethanes, Total	ug/l	NA	NA	NA	NA	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Vinyl chloride	ug/l	2	2	2	2	2	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Xylenes, Total	ug/l	10000	9000	5000	5000	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Notes:
ug/l - micrograms/liter
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
GW1 - Concentrations based on the use of groundwater as drinking water, either currently or in the foreseeable future.
GW2 - Concentrations based on the potential for volatile material to migrate into indoor air.
GW3 - Concentrations based on the potential environmental effects resulting from contaminated groundwater discharging to surface water.
RC - Risk Characterization approach, Standards may be supplemented or modified with site- and chemical-specific information.
UCL - Upper Concentration Limits in groundwater and soil are promulgated to minimize potential risks associated with uncontrolled environmental contamination, and the costs associated with cumulative anthropogenic contributions to background.

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as a row across sample columns, an intuitive analyte trending tool, auto-fill search functions and exports data into Excel, while keeping its original format.
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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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TestAmerica Job ID: 480-38213-1
Client Project/Site: Eastham Landfill IRA

For:
Bennett Environmental Associates, Inc.
1573 Main St.
Brewster, Massachusetts 02631

Attn: David Bennett

Authorized for release by:
5/20/2013 5:05:19 PM

Steve Hartmann, Lab Director
steve.hartmann@testamericainc.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38213-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-38213-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-38213-1

Receipt
The samples were received on 5/14/2013 1:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.4º C.

Receipt Exceptions:

The following samples were listed on the Chain of Custody (COC); however, no sample(s) was received: 7 Eldia Way (480-38213-1), 7 Eldia Way Duplicate (480-38213-2), Trip Blank (480-38213-17).

GC/MS VOA (524.2)
No analytical or quality issues were noted.

GC/MS Semi VOA (522MOD)
No analytical or quality issues were noted.

Detection Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38213-1

Client Sample ID: 7 Eldia Way — Lab Sample ID: 480-38213-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.045	J	0.20	0.041	ug/L	1		522 MOD	Total/NA

Client Sample ID: 225 Meetinghouse Rd. — Lab Sample ID: 480-38213-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.65	J	2.5	0.54	ug/L	1		524.2	Total/NA
Chloroform	0.44	J	0.50	0.14	ug/L	1		524.2	Total/NA
1,4-Dioxane	0.13	J	0.20	0.041	ug/L	1		522 MOD	Total/NA

Client Sample ID: 3 Fairview Ave. — Lab Sample ID: 480-38213-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.1	J	2.5	0.54	ug/L	1		524.2	Total/NA

Client Sample ID: 50 Chokeberry Dr. — Lab Sample ID: 480-38213-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.2	J	2.5	0.54	ug/L	1		524.2	Total/NA
Chloroform	0.16	J	0.50	0.14	ug/L	1		524.2	Total/NA
1,4-Dioxane	0.058	J	0.20	0.041	ug/L	1		522 MOD	Total/NA

Client Sample ID: 13 Starlight Ln. — Lab Sample ID: 480-38213-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.62	J	2.5	0.54	ug/L	1		524.2	Total/NA
Chloroform	0.21	J	0.50	0.14	ug/L	1		524.2	Total/NA

Client Sample ID: Vacant Lot @ corner of Old Orchard Rd. and Starlight Ln. — Lab Sample ID: 480-38213-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.79	J	2.5	0.54	ug/L	1		524.2	Total/NA

Client Sample ID: Wallace vacant lot on Meetinghouse — Lab Sample ID: 480-38213-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.74	J	2.5	0.54	ug/L	1		524.2	Total/NA
Methyl tert-butyl ether	0.14	J	0.50	0.12	ug/L	1		524.2	Total/NA
1,4-Dioxane	0.11	J	0.20	0.041	ug/L	1		522 MOD	Total/NA

Client Sample ID: 10 Turtle Pond Rd. — Lab Sample ID: 480-38213-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.63	J	2.5	0.54	ug/L	1		524.2	Total/NA
Chloroform	0.50		0.50	0.14	ug/L	1		524.2	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 480-38213-17

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38213-1

Client Sample ID: 7 Eldia Way

Lab Sample ID: 480-38213-1

Date Collected: 05/10/13 09:35

Matrix: Water

Date Received: 05/14/13 01:00

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.045	J	0.20	0.041	ug/L		05/14/13 21:31	05/15/13 12:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*83*		*70 - 130*	*05/14/13 21:31*	*05/15/13 12:26*	*1*

Client Sample ID: 225 Meetinghouse Rd.

Lab Sample ID: 480-38213-3

Date Collected: 05/10/13 10:20

Matrix: Water

Date Received: 05/14/13 01:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/14/13 11:48	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/14/13 11:48	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/14/13 11:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/14/13 11:48	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/14/13 11:48	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/14/13 11:48	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/14/13 11:48	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/14/13 11:48	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/14/13 11:48	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/14/13 11:48	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/14/13 11:48	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/14/13 11:48	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/14/13 11:48	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/14/13 11:48	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/14/13 11:48	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/14/13 11:48	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/14/13 11:48	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/14/13 11:48	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/14/13 11:48	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/14/13 11:48	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/14/13 11:48	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/14/13 11:48	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/14/13 11:48	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/14/13 11:48	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/14/13 11:48	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/14/13 11:48	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/14/13 11:48	1
Acetone	0.65	J	2.5	0.54	ug/L			05/14/13 11:48	1
Benzene	ND		0.50	0.13	ug/L			05/14/13 11:48	1
Bromobenzene	ND		0.50	0.13	ug/L			05/14/13 11:48	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/14/13 11:48	1
Bromoform	ND		0.50	0.13	ug/L			05/14/13 11:48	1
Bromomethane	ND		0.50	0.051	ug/L			05/14/13 11:48	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/14/13 11:48	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/14/13 11:48	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/14/13 11:48	1
Chloroethane	ND		0.50	0.070	ug/L			05/14/13 11:48	1
Chloroform	0.44	J	0.50	0.14	ug/L			05/14/13 11:48	1
Chloromethane	ND		0.50	0.063	ug/L			05/14/13 11:48	1

Client Sample ID: 225 Meetinghouse Rd.
Date Collected: 05/10/13 10:20
Date Received: 05/14/13 01:00

Lab Sample ID: 480-38213-3
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/14/13 11:48	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/14/13 11:48	1
Dibromomethane	ND		0.50	0.17	ug/L			05/14/13 11:48	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/14/13 11:48	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/14/13 11:48	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/14/13 11:48	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/14/13 11:48	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/14/13 11:48	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/14/13 11:48	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/14/13 11:48	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/14/13 11:48	1
Naphthalene	ND		0.50	0.060	ug/L			05/14/13 11:48	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/14/13 11:48	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/14/13 11:48	1
o-Xylene	ND		0.50	0.044	ug/L			05/14/13 11:48	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/14/13 11:48	1
Styrene	ND		0.50	0.044	ug/L			05/14/13 11:48	1
t-Butanol	ND		10	2.5	ug/L			05/14/13 11:48	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/14/13 11:48	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/14/13 11:48	1
Toluene	ND		0.50	0.10	ug/L			05/14/13 11:48	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/14/13 11:48	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/14/13 11:48	1
Trichloroethene	ND		0.50	0.060	ug/L			05/14/13 11:48	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/14/13 11:48	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/14/13 11:48	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/14/13 11:48	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/14/13 11:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*103*		*80 - 120*		*05/14/13 11:48*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*05/14/13 11:48*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.13	J	0.20	0.041	ug/L		05/14/13 21:31	05/15/13 12:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*86*		*70 - 130*	*05/14/13 21:31*	*05/15/13 12:42*	*1*

Client Sample ID: 3 Fairview Ave.
Date Collected: 05/10/13 11:40
Date Received: 05/14/13 01:00

Lab Sample ID: 480-38213-5
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/14/13 12:39	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/14/13 12:39	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/14/13 12:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/14/13 12:39	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38213-1

Client Sample ID: 3 Fairview Ave.
Date Collected: 05/10/13 11:40
Date Received: 05/14/13 01:00

Lab Sample ID: 480-38213-5
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/14/13 12:39	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/14/13 12:39	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/14/13 12:39	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/14/13 12:39	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/14/13 12:39	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/14/13 12:39	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/14/13 12:39	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/14/13 12:39	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/14/13 12:39	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/14/13 12:39	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/14/13 12:39	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/14/13 12:39	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/14/13 12:39	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/14/13 12:39	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/14/13 12:39	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/14/13 12:39	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/14/13 12:39	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/14/13 12:39	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/14/13 12:39	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/14/13 12:39	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/14/13 12:39	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/14/13 12:39	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/14/13 12:39	1
Acetone	1.1	J	2.5	0.54	ug/L			05/14/13 12:39	1
Benzene	ND		0.50	0.13	ug/L			05/14/13 12:39	1
Bromobenzene	ND		0.50	0.13	ug/L			05/14/13 12:39	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/14/13 12:39	1
Bromoform	ND		0.50	0.13	ug/L			05/14/13 12:39	1
Bromomethane	ND		0.50	0.051	ug/L			05/14/13 12:39	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/14/13 12:39	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/14/13 12:39	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/14/13 12:39	1
Chloroethane	ND		0.50	0.070	ug/L			05/14/13 12:39	1
Chloroform	ND		0.50	0.14	ug/L			05/14/13 12:39	1
Chloromethane	ND		0.50	0.063	ug/L			05/14/13 12:39	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/14/13 12:39	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/14/13 12:39	1
Dibromomethane	ND		0.50	0.17	ug/L			05/14/13 12:39	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/14/13 12:39	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/14/13 12:39	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/14/13 12:39	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/14/13 12:39	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/14/13 12:39	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/14/13 12:39	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/14/13 12:39	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/14/13 12:39	1
Naphthalene	ND		0.50	0.060	ug/L			05/14/13 12:39	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/14/13 12:39	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/14/13 12:39	1

Client Sample ID: 3 Fairview Ave.

Lab Sample ID: 480-38213-5

Date Collected: 05/10/13 11:40

Matrix: Water

Date Received: 05/14/13 01:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		0.50	0.044	ug/L			05/14/13 12:39	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/14/13 12:39	1
Styrene	ND		0.50	0.044	ug/L			05/14/13 12:39	1
t-Butanol	ND		10	2.5	ug/L			05/14/13 12:39	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/14/13 12:39	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/14/13 12:39	1
Toluene	ND		0.50	0.10	ug/L			05/14/13 12:39	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/14/13 12:39	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/14/13 12:39	1
Trichloroethene	ND		0.50	0.060	ug/L			05/14/13 12:39	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/14/13 12:39	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/14/13 12:39	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/14/13 12:39	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/14/13 12:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*103*		*80 - 120*		*05/14/13 12:39*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*05/14/13 12:39*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		05/14/13 21:31	05/15/13 12:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*84*		*70 - 130*	*05/14/13 21:31*	*05/15/13 12:58*	*1*

Client Sample ID: 50 Chokeberry Dr.

Lab Sample ID: 480-38213-7

Date Collected: 05/10/13 13:00

Matrix: Water

Date Received: 05/14/13 01:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/14/13 13:30	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/14/13 13:30	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/14/13 13:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/14/13 13:30	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/14/13 13:30	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/14/13 13:30	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/14/13 13:30	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/14/13 13:30	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/14/13 13:30	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/14/13 13:30	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/14/13 13:30	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/14/13 13:30	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/14/13 13:30	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/14/13 13:30	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/14/13 13:30	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/14/13 13:30	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/14/13 13:30	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/14/13 13:30	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38213-1

Client Sample ID: 50 Chokeberry Dr.
Date Collected: 05/10/13 13:00
Date Received: 05/14/13 01:00

Lab Sample ID: 480-38213-7
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/14/13 13:30	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/14/13 13:30	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/14/13 13:30	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/14/13 13:30	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/14/13 13:30	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/14/13 13:30	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/14/13 13:30	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/14/13 13:30	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/14/13 13:30	1
Acetone	**1.2**	**J**	2.5	0.54	ug/L			05/14/13 13:30	1
Benzene	ND		0.50	0.13	ug/L			05/14/13 13:30	1
Bromobenzene	ND		0.50	0.13	ug/L			05/14/13 13:30	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/14/13 13:30	1
Bromoform	ND		0.50	0.13	ug/L			05/14/13 13:30	1
Bromomethane	ND		0.50	0.051	ug/L			05/14/13 13:30	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/14/13 13:30	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/14/13 13:30	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/14/13 13:30	1
Chloroethane	ND		0.50	0.070	ug/L			05/14/13 13:30	1
Chloroform	**0.16**	**J**	0.50	0.14	ug/L			05/14/13 13:30	1
Chloromethane	ND		0.50	0.063	ug/L			05/14/13 13:30	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/14/13 13:30	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/14/13 13:30	1
Dibromomethane	ND		0.50	0.17	ug/L			05/14/13 13:30	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/14/13 13:30	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/14/13 13:30	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/14/13 13:30	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/14/13 13:30	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/14/13 13:30	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/14/13 13:30	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/14/13 13:30	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/14/13 13:30	1
Naphthalene	ND		0.50	0.060	ug/L			05/14/13 13:30	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/14/13 13:30	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/14/13 13:30	1
o-Xylene	ND		0.50	0.044	ug/L			05/14/13 13:30	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/14/13 13:30	1
Styrene	ND		0.50	0.044	ug/L			05/14/13 13:30	1
t-Butanol	ND		10	2.5	ug/L			05/14/13 13:30	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/14/13 13:30	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/14/13 13:30	1
Toluene	ND		0.50	0.10	ug/L			05/14/13 13:30	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/14/13 13:30	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/14/13 13:30	1
Trichloroethene	ND		0.50	0.060	ug/L			05/14/13 13:30	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/14/13 13:30	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/14/13 13:30	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/14/13 13:30	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/14/13 13:30	1

Client Sample ID: 50 Chokeberry Dr.

Lab Sample ID: 480-38213-7

Date Collected: 05/10/13 13:00

Matrix: Water

Date Received: 05/14/13 01:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	104		80 - 120		05/14/13 13:30	1
4-Bromofluorobenzene (Surr)	96		80 - 120		05/14/13 13:30	1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.058	J	0.20	0.041	ug/L		05/15/13 21:57	05/16/13 22:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	83		70 - 130	05/15/13 21:57	05/16/13 22:44	1

Client Sample ID: 13 Starlight Ln.

Lab Sample ID: 480-38213-9

Date Collected: 05/10/13 13:40

Matrix: Water

Date Received: 05/14/13 01:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/14/13 14:21	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/14/13 14:21	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/14/13 14:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/14/13 14:21	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/14/13 14:21	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/14/13 14:21	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/14/13 14:21	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/14/13 14:21	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/14/13 14:21	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/14/13 14:21	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/14/13 14:21	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/14/13 14:21	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/14/13 14:21	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/14/13 14:21	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/14/13 14:21	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/14/13 14:21	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/14/13 14:21	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/14/13 14:21	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/14/13 14:21	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/14/13 14:21	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/14/13 14:21	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/14/13 14:21	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/14/13 14:21	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/14/13 14:21	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/14/13 14:21	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/14/13 14:21	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/14/13 14:21	1
Acetone	0.62	J	2.5	0.54	ug/L			05/14/13 14:21	1
Benzene	ND		0.50	0.13	ug/L			05/14/13 14:21	1
Bromobenzene	ND		0.50	0.13	ug/L			05/14/13 14:21	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/14/13 14:21	1
Bromoform	ND		0.50	0.13	ug/L			05/14/13 14:21	1
Bromomethane	ND		0.50	0.051	ug/L			05/14/13 14:21	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/14/13 14:21	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/14/13 14:21	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38213-1

Client Sample ID: 13 Starlight Ln.
Date Collected: 05/10/13 13:40
Date Received: 05/14/13 01:00

Lab Sample ID: 480-38213-9
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/14/13 14:21	1
Chloroethane	ND		0.50	0.070	ug/L			05/14/13 14:21	1
Chloroform	**0.21**	**J**	0.50	0.14	ug/L			05/14/13 14:21	1
Chloromethane	ND		0.50	0.063	ug/L			05/14/13 14:21	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/14/13 14:21	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/14/13 14:21	1
Dibromomethane	ND		0.50	0.17	ug/L			05/14/13 14:21	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/14/13 14:21	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/14/13 14:21	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/14/13 14:21	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/14/13 14:21	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/14/13 14:21	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/14/13 14:21	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/14/13 14:21	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/14/13 14:21	1
Naphthalene	ND		0.50	0.060	ug/L			05/14/13 14:21	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/14/13 14:21	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/14/13 14:21	1
o-Xylene	ND		0.50	0.044	ug/L			05/14/13 14:21	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/14/13 14:21	1
Styrene	ND		0.50	0.044	ug/L			05/14/13 14:21	1
t-Butanol	ND		10	2.5	ug/L			05/14/13 14:21	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/14/13 14:21	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/14/13 14:21	1
Toluene	ND		0.50	0.10	ug/L			05/14/13 14:21	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/14/13 14:21	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/14/13 14:21	1
Trichloroethene	ND		0.50	0.060	ug/L			05/14/13 14:21	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/14/13 14:21	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/14/13 14:21	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/14/13 14:21	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/14/13 14:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*106*		*80 - 120*		*05/14/13 14:21*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*05/14/13 14:21*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		05/14/13 21:31	05/15/13 13:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*85*		*70 - 130*	*05/14/13 21:31*	*05/15/13 13:31*	*1*

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38213-1

Client Sample ID: Vacant Lot @ corner of Old Orchard Rd. and Starlight Ln.

Lab Sample ID: 480-38213-11

Date Collected: 05/10/13 14:45

Matrix: Water

Date Received: 05/14/13 01:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/14/13 15:11	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/14/13 15:11	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/14/13 15:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/14/13 15:11	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/14/13 15:11	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/14/13 15:11	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/14/13 15:11	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/14/13 15:11	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/14/13 15:11	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/14/13 15:11	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/14/13 15:11	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/14/13 15:11	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/14/13 15:11	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/14/13 15:11	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/14/13 15:11	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/14/13 15:11	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/14/13 15:11	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/14/13 15:11	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/14/13 15:11	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/14/13 15:11	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/14/13 15:11	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/14/13 15:11	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/14/13 15:11	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/14/13 15:11	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/14/13 15:11	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/14/13 15:11	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/14/13 15:11	1
Acetone	**0.79**	**J**	2.5	0.54	ug/L			05/14/13 15:11	1
Benzene	ND		0.50	0.13	ug/L			05/14/13 15:11	1
Bromobenzene	ND		0.50	0.13	ug/L			05/14/13 15:11	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/14/13 15:11	1
Bromoform	ND		0.50	0.13	ug/L			05/14/13 15:11	1
Bromomethane	ND		0.50	0.051	ug/L			05/14/13 15:11	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/14/13 15:11	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/14/13 15:11	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/14/13 15:11	1
Chloroethane	ND		0.50	0.070	ug/L			05/14/13 15:11	1
Chloroform	ND		0.50	0.14	ug/L			05/14/13 15:11	1
Chloromethane	ND		0.50	0.063	ug/L			05/14/13 15:11	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/14/13 15:11	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/14/13 15:11	1
Dibromomethane	ND		0.50	0.17	ug/L			05/14/13 15:11	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/14/13 15:11	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/14/13 15:11	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/14/13 15:11	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/14/13 15:11	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/14/13 15:11	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/14/13 15:11	1

Client Sample ID: Vacant Lot @ corner of Old Orchard Rd. and Starlight Ln.
Lab Sample ID: 480-38213-11
Date Collected: 05/10/13 14:45
Matrix: Water
Date Received: 05/14/13 01:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		0.50	0.25	ug/L			05/14/13 15:11	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/14/13 15:11	1
Naphthalene	ND		0.50	0.060	ug/L			05/14/13 15:11	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/14/13 15:11	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/14/13 15:11	1
o-Xylene	ND		0.50	0.044	ug/L			05/14/13 15:11	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/14/13 15:11	1
Styrene	ND		0.50	0.044	ug/L			05/14/13 15:11	1
t-Butanol	ND		10	2.5	ug/L			05/14/13 15:11	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/14/13 15:11	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/14/13 15:11	1
Toluene	ND		0.50	0.10	ug/L			05/14/13 15:11	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/14/13 15:11	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/14/13 15:11	1
Trichloroethene	ND		0.50	0.060	ug/L			05/14/13 15:11	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/14/13 15:11	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/14/13 15:11	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/14/13 15:11	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/14/13 15:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*104*		*80 - 120*		*05/14/13 15:11*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*05/14/13 15:11*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		05/14/13 21:31	05/15/13 13:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*88*		*70 - 130*	*05/14/13 21:31*	*05/15/13 13:47*	*1*

Client Sample ID: Wallace vacant lot on Meetinghouse
Lab Sample ID: 480-38213-13
Date Collected: 05/10/13 16:05
Matrix: Water
Date Received: 05/14/13 01:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/14/13 16:01	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/14/13 16:01	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/14/13 16:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/14/13 16:01	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/14/13 16:01	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/14/13 16:01	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/14/13 16:01	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/14/13 16:01	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/14/13 16:01	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/14/13 16:01	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/14/13 16:01	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/14/13 16:01	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38213-1

Client Sample ID: Wallace vacant lot on Meetinghouse
Date Collected: 05/10/13 16:05
Date Received: 05/14/13 01:00

Lab Sample ID: 480-38213-13
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/14/13 16:01	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/14/13 16:01	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/14/13 16:01	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/14/13 16:01	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/14/13 16:01	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/14/13 16:01	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/14/13 16:01	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/14/13 16:01	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/14/13 16:01	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/14/13 16:01	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/14/13 16:01	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/14/13 16:01	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/14/13 16:01	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/14/13 16:01	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/14/13 16:01	1
Acetone	**0.74**	**J**	2.5	0.54	ug/L			05/14/13 16:01	1
Benzene	ND		0.50	0.13	ug/L			05/14/13 16:01	1
Bromobenzene	ND		0.50	0.13	ug/L			05/14/13 16:01	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/14/13 16:01	1
Bromoform	ND		0.50	0.13	ug/L			05/14/13 16:01	1
Bromomethane	ND		0.50	0.051	ug/L			05/14/13 16:01	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/14/13 16:01	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/14/13 16:01	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/14/13 16:01	1
Chloroethane	ND		0.50	0.070	ug/L			05/14/13 16:01	1
Chloroform	ND		0.50	0.14	ug/L			05/14/13 16:01	1
Chloromethane	ND		0.50	0.063	ug/L			05/14/13 16:01	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/14/13 16:01	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/14/13 16:01	1
Dibromomethane	ND		0.50	0.17	ug/L			05/14/13 16:01	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/14/13 16:01	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/14/13 16:01	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/14/13 16:01	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/14/13 16:01	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/14/13 16:01	1
Methyl tert-butyl ether	**0.14**	**J**	0.50	0.12	ug/L			05/14/13 16:01	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/14/13 16:01	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/14/13 16:01	1
Naphthalene	ND		0.50	0.060	ug/L			05/14/13 16:01	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/14/13 16:01	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/14/13 16:01	1
o-Xylene	ND		0.50	0.044	ug/L			05/14/13 16:01	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/14/13 16:01	1
Styrene	ND		0.50	0.044	ug/L			05/14/13 16:01	1
t-Butanol	ND		10	2.5	ug/L			05/14/13 16:01	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/14/13 16:01	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/14/13 16:01	1
Toluene	ND		0.50	0.10	ug/L			05/14/13 16:01	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/14/13 16:01	1

Client Sample ID: Wallace vacant lot on Meetinghouse

Lab Sample ID: 480-38213-13

Date Collected: 05/10/13 16:05

Matrix: Water

Date Received: 05/14/13 01:00

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/14/13 16:01	1
Trichloroethene	ND		0.50	0.060	ug/L			05/14/13 16:01	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/14/13 16:01	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/14/13 16:01	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/14/13 16:01	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/14/13 16:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*106*		*80 - 120*		*05/14/13 16:01*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*05/14/13 16:01*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.11	J	0.20	0.041	ug/L		05/14/13 21:31	05/15/13 14:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*89*		*70 - 130*	*05/14/13 21:31*	*05/15/13 14:04*	*1*

Client Sample ID: 10 Turtle Pond Rd.

Lab Sample ID: 480-38213-15

Date Collected: 05/10/13 17:00

Matrix: Water

Date Received: 05/14/13 01:00

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/14/13 16:52	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/14/13 16:52	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/14/13 16:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/14/13 16:52	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/14/13 16:52	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/14/13 16:52	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/14/13 16:52	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/14/13 16:52	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/14/13 16:52	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/14/13 16:52	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/14/13 16:52	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/14/13 16:52	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/14/13 16:52	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/14/13 16:52	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/14/13 16:52	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/14/13 16:52	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/14/13 16:52	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/14/13 16:52	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/14/13 16:52	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/14/13 16:52	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/14/13 16:52	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/14/13 16:52	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/14/13 16:52	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/14/13 16:52	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/14/13 16:52	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/14/13 16:52	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38213-1

Client Sample ID: 10 Turtle Pond Rd.
Date Collected: 05/10/13 17:00
Date Received: 05/14/13 01:00

Lab Sample ID: 480-38213-15
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/14/13 16:52	1
Acetone	**0.63**	**J**	2.5	0.54	ug/L			05/14/13 16:52	1
Benzene	ND		0.50	0.13	ug/L			05/14/13 16:52	1
Bromobenzene	ND		0.50	0.13	ug/L			05/14/13 16:52	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/14/13 16:52	1
Bromoform	ND		0.50	0.13	ug/L			05/14/13 16:52	1
Bromomethane	ND		0.50	0.051	ug/L			05/14/13 16:52	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/14/13 16:52	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/14/13 16:52	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/14/13 16:52	1
Chloroethane	ND		0.50	0.070	ug/L			05/14/13 16:52	1
Chloroform	**0.50**		0.50	0.14	ug/L			05/14/13 16:52	1
Chloromethane	ND		0.50	0.063	ug/L			05/14/13 16:52	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/14/13 16:52	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/14/13 16:52	1
Dibromomethane	ND		0.50	0.17	ug/L			05/14/13 16:52	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/14/13 16:52	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/14/13 16:52	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/14/13 16:52	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/14/13 16:52	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/14/13 16:52	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/14/13 16:52	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/14/13 16:52	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/14/13 16:52	1
Naphthalene	ND		0.50	0.060	ug/L			05/14/13 16:52	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/14/13 16:52	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/14/13 16:52	1
o-Xylene	ND		0.50	0.044	ug/L			05/14/13 16:52	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/14/13 16:52	1
Styrene	ND		0.50	0.044	ug/L			05/14/13 16:52	1
t-Butanol	ND		10	2.5	ug/L			05/14/13 16:52	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/14/13 16:52	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/14/13 16:52	1
Toluene	ND		0.50	0.10	ug/L			05/14/13 16:52	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/14/13 16:52	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/14/13 16:52	1
Trichloroethene	ND		0.50	0.060	ug/L			05/14/13 16:52	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/14/13 16:52	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/14/13 16:52	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/14/13 16:52	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/14/13 16:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*105*		*80 - 120*		*05/14/13 16:52*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*05/14/13 16:52*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		05/14/13 21:31	05/15/13 14:20	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38213-1

Client Sample ID: 10 Turtle Pond Rd.

Lab Sample ID: 480-38213-15

Date Collected: 05/10/13 17:00

Matrix: Water

Date Received: 05/14/13 01:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*89*		*70 - 130*	*05/14/13 21:31*	*05/15/13 14:20*	*1*

Client Sample ID: Trip Blank

Lab Sample ID: 480-38213-17

Date Collected: 05/10/13 08:05

Matrix: Water

Date Received: 05/14/13 01:00

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		05/14/13 21:31	05/15/13 14:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*90*		*70 - 130*	*05/14/13 21:31*	*05/15/13 14:36*	*1*

Surrogate Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38213-1

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)									
		12DCB	BFB								
Lab Sample ID	Client Sample ID	(80-120)	(80-120)								
480-38213-3	225 Meetinghouse Rd.	103	100								
480-38213-5	3 Fairview Ave.	103	94								
480-38213-7	50 Chokeberry Dr.	104	96								
480-38213-9	13 Starlight Ln.	106	95								
480-38213-11	Vacant Lot @ corner of Old Orchard	104	94								
480-38213-13	Wallace vacant lot on Meetinghouse	106	97								
480-38213-15	10 Turtle Pond Rd.	105	97								
LCS 480-118419/4	Lab Control Sample	101	99								
MB 480-118419/5	Method Blank	104	97								

Surrogate Legend

12DCB = 1,2-Dichlorobenzene-d4

BFB = 4-Bromofluorobenzene (Surr)

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)									
		14DD8									
Lab Sample ID	Client Sample ID	(70-130)									
480-38213-1	7 Eldia Way	83									
480-38213-3	225 Meetinghouse Rd.	86									
480-38213-5	3 Fairview Ave.	84									
480-38213-7	50 Chokeberry Dr.	83									
480-38213-9	13 Starlight Ln.	85									
480-38213-11	Vacant Lot @ corner of Old Orchard	88									
480-38213-13	Wallace vacant lot on Meetinghouse	89									
480-38213-15	10 Turtle Pond Rd.	89									
480-38213-17	Trip Blank	90									
LCS 200-55549/2-A	Lab Control Sample	83									
LCS 200-55587/2-A	Lab Control Sample	84									
MB 200-55549/1-A	Method Blank	82									
MB 200-55587/1-A	Method Blank	83									

Surrogate Legend

14DD8 = 1,4-Dioxane-d8 (Surr)

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-118419/5
Matrix: Water
Analysis Batch: 118419

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/14/13 11:14	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/14/13 11:14	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/14/13 11:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/14/13 11:14	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/14/13 11:14	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/14/13 11:14	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/14/13 11:14	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/14/13 11:14	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/14/13 11:14	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/14/13 11:14	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/14/13 11:14	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/14/13 11:14	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/14/13 11:14	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/14/13 11:14	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/14/13 11:14	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/14/13 11:14	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/14/13 11:14	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/14/13 11:14	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/14/13 11:14	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/14/13 11:14	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/14/13 11:14	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/14/13 11:14	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/14/13 11:14	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/14/13 11:14	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/14/13 11:14	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/14/13 11:14	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/14/13 11:14	1
Acetone	ND		2.5	0.54	ug/L			05/14/13 11:14	1
Benzene	ND		0.50	0.13	ug/L			05/14/13 11:14	1
Bromobenzene	ND		0.50	0.13	ug/L			05/14/13 11:14	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/14/13 11:14	1
Bromoform	ND		0.50	0.13	ug/L			05/14/13 11:14	1
Bromomethane	ND		0.50	0.051	ug/L			05/14/13 11:14	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/14/13 11:14	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/14/13 11:14	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/14/13 11:14	1
Chloroethane	ND		0.50	0.070	ug/L			05/14/13 11:14	1
Chloroform	ND		0.50	0.14	ug/L			05/14/13 11:14	1
Chloromethane	ND		0.50	0.063	ug/L			05/14/13 11:14	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/14/13 11:14	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/14/13 11:14	1
Dibromomethane	ND		0.50	0.17	ug/L			05/14/13 11:14	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/14/13 11:14	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/14/13 11:14	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/14/13 11:14	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/14/13 11:14	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/14/13 11:14	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/14/13 11:14	1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-118419/5
Matrix: Water
Analysis Batch: 118419

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		0.50	0.25	ug/L			05/14/13 11:14	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/14/13 11:14	1
Naphthalene	ND		0.50	0.060	ug/L			05/14/13 11:14	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/14/13 11:14	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/14/13 11:14	1
o-Xylene	ND		0.50	0.044	ug/L			05/14/13 11:14	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/14/13 11:14	1
Styrene	ND		0.50	0.044	ug/L			05/14/13 11:14	1
t-Butanol	ND		10	2.5	ug/L			05/14/13 11:14	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/14/13 11:14	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/14/13 11:14	1
Toluene	ND		0.50	0.10	ug/L			05/14/13 11:14	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/14/13 11:14	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/14/13 11:14	1
Trichloroethene	ND		0.50	0.060	ug/L			05/14/13 11:14	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/14/13 11:14	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/14/13 11:14	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/14/13 11:14	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/14/13 11:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*104*		*80 - 120*		*05/14/13 11:14*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*05/14/13 11:14*	*1*

Lab Sample ID: LCS 480-118419/4
Matrix: Water
Analysis Batch: 118419

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	4.00	4.22		ug/L		106	70 - 130
1,1,1-Trichloroethane	4.00	4.27		ug/L		107	70 - 130
1,1,2,2-Tetrachloroethane	4.00	3.77		ug/L		94	70 - 130
1,1,2-Trichloroethane	4.00	3.71		ug/L		93	70 - 130
1,1-Dichloroethane	4.00	3.96		ug/L		99	70 - 130
1,1-Dichloroethene	4.00	3.39		ug/L		85	70 - 130
1,1-Dichloropropene	4.00	4.21		ug/L		105	70 - 130
1,2,3-Trichlorobenzene	4.00	3.77		ug/L		94	70 - 130
1,2,3-Trichloropropane	4.00	4.04		ug/L		101	70 - 130
1,2,4-Trichlorobenzene	4.00	3.71		ug/L		93	70 - 130
1,2,4-Trimethylbenzene	4.00	4.00		ug/L		100	70 - 130
1,2-Dibromo-3-Chloropropane	4.00	3.98		ug/L		100	70 - 130
1,2-Dibromoethane	4.00	3.90		ug/L		98	70 - 130
1,2-Dichlorobenzene	4.00	3.99		ug/L		100	70 - 130
1,2-Dichloroethane	4.00	4.25		ug/L		106	70 - 130
1,2-Dichloropropane	4.00	3.73		ug/L		93	70 - 130
1,3,5-Trimethylbenzene	4.00	3.91		ug/L		98	70 - 130
1,3-Dichlorobenzene	4.00	3.89		ug/L		97	70 - 130
1,3-Dichloropropane	4.00	3.90		ug/L		97	70 - 130

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-118419/4
Matrix: Water
Analysis Batch: 118419

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	4.00	3.85		ug/L		96	70 - 130
2,2-Dichloropropane	4.00	3.89		ug/L		97	70 - 130
2-Butanone (MEK)	20.0	19.0		ug/L		95	70 - 130
2-Chlorotoluene	4.00	3.90		ug/L		98	70 - 130
4-Chlorotoluene	4.00	3.81		ug/L		95	70 - 130
4-Isopropyltoluene	4.00	3.92		ug/L		98	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	17.5		ug/L		87	70 - 130
Acetone	20.0	19.1		ug/L		95	70 - 130
Benzene	4.00	3.94		ug/L		98	70 - 130
Bromobenzene	4.00	3.97		ug/L		99	70 - 130
Bromochloromethane	4.00	4.13		ug/L		103	70 - 130
Bromoform	4.00	2.88		ug/L		72	70 - 130
Bromomethane	4.00	4.08		ug/L		102	70 - 130
Carbon tetrachloride	4.00	4.72		ug/L		118	70 - 130
Chlorobenzene	4.00	3.93		ug/L		98	70 - 130
Chlorodibromomethane	4.00	3.45		ug/L		86	70 - 130
Chloroethane	4.00	4.05		ug/L		101	70 - 130
Chloroform	4.00	3.92		ug/L		98	70 - 130
Chloromethane	4.00	3.67		ug/L		92	70 - 130
cis-1,2-Dichloroethene	4.00	3.96		ug/L		99	70 - 130
cis-1,3-Dichloropropene	4.00	3.62		ug/L		91	70 - 130
Dibromomethane	4.00	3.99		ug/L		100	70 - 130
Dichlorobromomethane	4.00	3.80		ug/L		95	70 - 130
Dichlorodifluoromethane	4.00	4.12		ug/L		103	70 - 130
Ethylbenzene	4.00	3.96		ug/L		99	70 - 130
Hexachlorobutadiene	4.00	3.80		ug/L		95	70 - 130
Isopropylbenzene	4.00	4.06		ug/L		101	70 - 130
Methyl tert-butyl ether	4.00	3.66		ug/L		92	70 - 130
Methylene Chloride	4.00	3.67		ug/L		92	70 - 130
Naphthalene	4.00	3.98		ug/L		99	70 - 130
n-Butylbenzene	4.00	3.95		ug/L		99	70 - 130
N-Propylbenzene	4.00	3.93		ug/L		98	70 - 130
sec-Butylbenzene	4.00	3.88		ug/L		97	70 - 130
Styrene	4.00	3.98		ug/L		100	70 - 130
tert-Butylbenzene	4.00	4.07		ug/L		102	70 - 130
Tetrachloroethene	4.00	4.11		ug/L		103	70 - 130
Toluene	4.00	3.82		ug/L		96	70 - 130
trans-1,2-Dichloroethene	4.00	3.78		ug/L		94	70 - 130
trans-1,3-Dichloropropene	4.00	3.07		ug/L		77	70 - 130
Trichloroethene	4.00	3.93		ug/L		98	70 - 130
Trichlorofluoromethane	4.00	4.98		ug/L		124	70 - 130
Vinyl chloride	4.00	4.26		ug/L		107	70 - 130
Xylenes, Total	12.0	12.1		ug/L		101	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichlorobenzene-d4	*101*		*80 - 120*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38213-1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Lab Sample ID: MB 200-55549/1-A
Matrix: Water
Analysis Batch: 55559

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 55549

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		05/14/13 21:31	05/15/13 11:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*82*		*70 - 130*	*05/14/13 21:31*	*05/15/13 11:54*	*1*

Lab Sample ID: LCS 200-55549/2-A
Matrix: Water
Analysis Batch: 55559

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 55549

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	0.200	0.202		ug/L		101	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,4-Dioxane-d8 (Surr)	*83*		*70 - 130*

Lab Sample ID: MB 200-55587/1-A
Matrix: Water
Analysis Batch: 55641

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 55587

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.041	ug/L		05/15/13 21:57	05/16/13 18:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*83*		*70 - 130*	*05/15/13 21:57*	*05/16/13 18:09*	*1*

Lab Sample ID: LCS 200-55587/2-A
Matrix: Water
Analysis Batch: 55641

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 55587

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	2.00	1.76		ug/L		88	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,4-Dioxane-d8 (Surr)	*84*		*70 - 130*

GC/MS VOA

Analysis Batch: 118419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-38213-3	225 Meetinghouse Rd.	Total/NA	Water	524.2	
480-38213-5	3 Fairview Ave.	Total/NA	Water	524.2	
480-38213-7	50 Chokeberry Dr.	Total/NA	Water	524.2	
480-38213-9	13 Starlight Ln.	Total/NA	Water	524.2	
480-38213-11	Vacant Lot @ corner of Old Orchard Rd. and Starlight L	Total/NA	Water	524.2	
480-38213-13	Wallace vacant lot on Meetinghouse	Total/NA	Water	524.2	
480-38213-15	10 Turtle Pond Rd.	Total/NA	Water	524.2	
LCS 480-118419/4	Lab Control Sample	Total/NA	Water	524.2	
MB 480-118419/5	Method Blank	Total/NA	Water	524.2	

GC/MS Semi VOA

Prep Batch: 55549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-38213-1	7 Eldia Way	Total/NA	Water	3535A	
480-38213-3	225 Meetinghouse Rd.	Total/NA	Water	3535A	
480-38213-5	3 Fairview Ave.	Total/NA	Water	3535A	
480-38213-9	13 Starlight Ln.	Total/NA	Water	3535A	
480-38213-11	Vacant Lot @ corner of Old Orchard Rd. and Starlight L	Total/NA	Water	3535A	
480-38213-13	Wallace vacant lot on Meetinghouse	Total/NA	Water	3535A	
480-38213-15	10 Turtle Pond Rd.	Total/NA	Water	3535A	
480-38213-17	Trip Blank	Total/NA	Water	3535A	
LCS 200-55549/2-A	Lab Control Sample	Total/NA	Water	3535A	
MB 200-55549/1-A	Method Blank	Total/NA	Water	3535A	

Analysis Batch: 55559

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-38213-1	7 Eldia Way	Total/NA	Water	522 MOD	55549
480-38213-3	225 Meetinghouse Rd.	Total/NA	Water	522 MOD	55549
480-38213-5	3 Fairview Ave.	Total/NA	Water	522 MOD	55549
480-38213-9	13 Starlight Ln.	Total/NA	Water	522 MOD	55549
480-38213-11	Vacant Lot @ corner of Old Orchard Rd. and Starlight L	Total/NA	Water	522 MOD	55549
480-38213-13	Wallace vacant lot on Meetinghouse	Total/NA	Water	522 MOD	55549
480-38213-15	10 Turtle Pond Rd.	Total/NA	Water	522 MOD	55549
480-38213-17	Trip Blank	Total/NA	Water	522 MOD	55549
LCS 200-55549/2-A	Lab Control Sample	Total/NA	Water	522 MOD	55549
MB 200-55549/1-A	Method Blank	Total/NA	Water	522 MOD	55549

Prep Batch: 55587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-38213-7	50 Chokeberry Dr.	Total/NA	Water	3535A	
LCS 200-55587/2-A	Lab Control Sample	Total/NA	Water	3535A	
MB 200-55587/1-A	Method Blank	Total/NA	Water	3535A	

Analysis Batch: 55641

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-38213-7	50 Chokeberry Dr.	Total/NA	Water	522 MOD	55587
LCS 200-55587/2-A	Lab Control Sample	Total/NA	Water	522 MOD	55587
MB 200-55587/1-A	Method Blank	Total/NA	Water	522 MOD	55587

Lab Chronicle

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38213-1

Client Sample ID: 7 Eldia Way

Lab Sample ID: 480-38213-1

Date Collected: 05/10/13 09:35

Matrix: Water

Date Received: 05/14/13 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535A			55549	05/14/13 21:31	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	55559	05/15/13 12:26	RJH	TAL BUR

Client Sample ID: 225 Meetinghouse Rd.

Lab Sample ID: 480-38213-3

Date Collected: 05/10/13 10:20

Matrix: Water

Date Received: 05/14/13 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	118419	05/14/13 11:48	TRB	TAL BUF
Total/NA	Prep	3535A			55549	05/14/13 21:31	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	55559	05/15/13 12:42	RJH	TAL BUR

Client Sample ID: 3 Fairview Ave.

Lab Sample ID: 480-38213-5

Date Collected: 05/10/13 11:40

Matrix: Water

Date Received: 05/14/13 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	118419	05/14/13 12:39	TRB	TAL BUF
Total/NA	Prep	3535A			55549	05/14/13 21:31	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	55559	05/15/13 12:58	RJH	TAL BUR

Client Sample ID: 50 Chokeberry Dr.

Lab Sample ID: 480-38213-7

Date Collected: 05/10/13 13:00

Matrix: Water

Date Received: 05/14/13 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	118419	05/14/13 13:30	TRB	TAL BUF
Total/NA	Prep	3535A			55587	05/15/13 21:57	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	55641	05/16/13 22:44	RJH	TAL BUR

Client Sample ID: 13 Starlight Ln.

Lab Sample ID: 480-38213-9

Date Collected: 05/10/13 13:40

Matrix: Water

Date Received: 05/14/13 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	118419	05/14/13 14:21	TRB	TAL BUF
Total/NA	Prep	3535A			55549	05/14/13 21:31	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	55559	05/15/13 13:31	RJH	TAL BUR

Lab Chronicle

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38213-1

Client Sample ID: Vacant Lot @ corner of Old Orchard Rd. and Starlight Ln.

Lab Sample ID: 480-38213-11

Date Collected: 05/10/13 14:45
Matrix: Water
Date Received: 05/14/13 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	118419	05/14/13 15:11	TRB	TAL BUF
Total/NA	Prep	3535A			55549	05/14/13 21:31	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	55559	05/15/13 13:47	RJH	TAL BUR

Client Sample ID: Wallace vacant lot on Meetinghouse

Lab Sample ID: 480-38213-13

Date Collected: 05/10/13 16:05
Matrix: Water
Date Received: 05/14/13 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	118419	05/14/13 16:01	TRB	TAL BUF
Total/NA	Prep	3535A			55549	05/14/13 21:31	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	55559	05/15/13 14:04	RJH	TAL BUR

Client Sample ID: 10 Turtle Pond Rd.

Lab Sample ID: 480-38213-15

Date Collected: 05/10/13 17:00
Matrix: Water
Date Received: 05/14/13 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	118419	05/14/13 16:52	TRB	TAL BUF
Total/NA	Prep	3535A			55549	05/14/13 21:31	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	55559	05/15/13 14:20	RJH	TAL BUR

Client Sample ID: Trip Blank

Lab Sample ID: 480-38213-17

Date Collected: 05/10/13 08:05
Matrix: Water
Date Received: 05/14/13 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535A			55549	05/14/13 21:31	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	55559	05/15/13 14:36	RJH	TAL BUR

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Certification Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38213-1

Laboratory: TestAmerica Buffalo

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-13
California	NELAP	9	1169CA	09-30-13
Connecticut	State Program	1	PH-0568	09-30-14
Florida	NELAP	4	E87672	06-30-13
Georgia	State Program	4	N/A	03-31-14
Georgia	State Program	4	956	06-30-13
Georgia	State Program	4	956	03-31-14
Illinois	NELAP	5	200003	09-30-13
Iowa	State Program	7	374	03-15-15
Kansas	NELAP	7	E-10187	01-31-14
Kentucky	State Program	4	90029	12-31-13
Kentucky (UST)	State Program	4	30	04-01-14
Louisiana	NELAP	6	02031	06-30-13
Maine	State Program	1	NY00044	12-04-13
Maryland	State Program	3	294	03-31-14
Massachusetts	State Program	1	M-NY044	06-30-13
Michigan	State Program	5	9937	04-01-13 *
Minnesota	NELAP	5	036-999-337	12-31-13
New Hampshire	NELAP	1	2973	09-11-13
New Hampshire	NELAP	1	2337	11-17-13
New Jersey	NELAP	2	NY455	06-30-13
New York	NELAP	2	10026	04-01-14
North Dakota	State Program	8	R-176	03-31-14
Oklahoma	State Program	6	9421	08-31-13
Oregon	NELAP	10	NY200003	06-09-13
Pennsylvania	NELAP	3	68-00281	07-31-13
Rhode Island	State Program	1	LAO00328	12-31-13
Tennessee	State Program	4	TN02970	04-01-14
Texas	NELAP	6	T104704412-11-2	07-31-13
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAP	3	460185	09-14-13
Washington	State Program	10	C784	02-10-14
West Virginia DEP	State Program	3	252	09-30-13
Wisconsin	State Program	5	998310390	08-31-13

Laboratory: TestAmerica Burlington

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Connecticut	State Program	1	PH-0751	09-30-13
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-13-15
Florida	NELAP	4	E87467	06-30-13
L-A-B	DoD ELAP		L2336	10-26-13
Louisiana	NELAP	6	176292	06-30-13
Minnesota	NELAP	5	050-999-436	12-31-13
New Hampshire	NELAP	1	2006	12-18-13
New Jersey	NELAP	2	VT972	06-30-13
New York	NELAP	2	10391	04-01-14
Pennsylvania	NELAP	3	68-00489	04-30-14
USDA	Federal		P330-11-00093	02-17-14

* Expired certification is currently pending renewal and is considered valid.

Certification Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38213-1

Laboratory: TestAmerica Burlington (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Vermont	State Program	1	VT-4000	12-31-13
Virginia	NELAP	3	460209	12-14-13

Method Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38213-1

Method	Method Description	Protocol	Laboratory
524.2	Volatile Organic Compounds (GC/MS)	EPA-DW	TAL BUF
522 MOD	1,4 Dioxane (GC/MS SIM)	EPA	TAL BUR

Protocol References:

EPA = US Environmental Protection Agency

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38213-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-38213-1	7 Eldia Way	Water	05/10/13 09:35	05/14/13 01:00
480-38213-3	225 Meetinghouse Rd.	Water	05/10/13 10:20	05/14/13 01:00
480-38213-5	3 Fairview Ave.	Water	05/10/13 11:40	05/14/13 01:00
480-38213-7	50 Chokeberry Dr.	Water	05/10/13 13:00	05/14/13 01:00
480-38213-9	13 Starlight Ln.	Water	05/10/13 13:40	05/14/13 01:00
480-38213-11	Vacant Lot @ corner of Old Orchard Rd. and Starlight Ln.	Water	05/10/13 14:45	05/14/13 01:00
480-38213-13	Wallace vacant lot on Meetinghouse	Water	05/10/13 16:05	05/14/13 01:00
480-38213-15	10 Turtle Pond Rd.	Water	05/10/13 17:00	05/14/13 01:00
480-38213-17	Trip Blank	Water	05/10/13 08:05	05/14/13 01:00

TestAmerica Westfield
53 Southampton Road

Westfield, MA 01085
phone 413.572.4000 fax 413.572.3707

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other: **MA MCP**

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: David Bennett	Site Contact:	Date:	COC No:
Bennett Environmental Associates, Inc.	Tel/Fax: 508-896-1706	Lab Contact:	Carrier:	1 of 2 COCs
Address 1573 Main St. / P.O. Box 1743	Analysis Turnaround Time			For Lab Use Only:
City/State/Zip Brewster, MA 02631	Calendar (C) or Work Days (W) C			Walk-in Client:
508-896-1706 Phone	TAT if different from Below			Lab Sampling:
508-896-5109 FAX	☑ 2 weeks			
Project Name: Eastham Landfill	☐ 1 week			Job / SDG No.:
Site: Town of Eastham	☐ 2 days			
P O # BEA09-10104	☐ 1 day			Sampler: JTW

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample (Y / N)	Composite = C / Grab = G	VOCs via 524.2	1,4-Dioxane via 522.1 Mod	Sample Specific Notes:
7 Eldia Way	5/10/2013	9:35 AM	G	W	5	N	G	3	2	
7 Eldia Way Duplicate	5/10/2013	9:35 AM	G	W	4	N	G	3	1	
225 Meetinghouse Rd.	5/10/2013	10:20 am	G	W	5	N	G	3	2	
225 Meetinghouse Rd. Duplicate	5/10/2013	10:20 am	G	W	4	N	G	3	1	
3 Fairview Ave.	5/10/2013	11:40 am	G	W	5	N	G	3	2	
3 Fairview Ave. Duplicate	5/10/2013	11:40 am	G	W	4	N	G	3	1	
50 Chokeberry Dr.	5/10/2013	1:00 pm	G	W	5	N	G	3	2	
50 Chokeberry Dr. Duplicate	5/10/2013	1:00 pm	G	W	4	N	G	3	1	
13 Starlight Ln.	5/10/2013	1:40 pm	G	W	5	N	G	3	2	
13 Starlight Ln. Duplicate	5/10/2013	1:40 pm	G	W	4	N	G	3	1	
Vacant Lot @ corner of Old Orchard Rd. and Starlight Ln.	5/10/2013	2:45 pm	G	W	5	N	G	3	2	
Vacant Lot @ corner of Old Orchard Rd. and Starlight Ln. Dup.	5/10/2013	2:45 pm	G	W	4	N	G	3	1	
								1,2	1,2	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments: Please email results to dbennett@bennett-ea.com

	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	BEA	5/10/13 6:00	BEA Sample Fridge		
Relinquished by:	BEA	5/13/13 @ 9AM		TAL	5/13/13 10:41
Relinquished by:	TAL	5/13/13	Received in Laboratory by:	TA Buff	5.14.13 0100

Form No. CA-C-WI-002, Rev. 4, dated 10/25/2012

5/20/2013

TestAmerica Westfield
53 Southampton Road

Westfield, MA 01085
phone 413.572.4000 fax 413.572.3707

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other: **MA MCP**

TestAmerica Laboratories, Inc.

Client Contact	**Project Manager: David Bennett**	**Site Contact:**	**Date:**	COC No:
Bennett Environmental Associates, Inc.	**Tel/Fax: 508-896-1706**	**Lab Contact:**	**Carrier:**	2 of 2 COCs
Address 1573 Main St. / P.O. Box 1743	**Analysis Turnaround Time**			**For Lab Use Only:**
City/State/Zip Brewster, MA 02631	Calendar (C) or Work Days (W) C			Walk-in Client:
508-896-1706 Phone	TAT if different from Below			Lab Sampling:
508-896-5109 FAX	☑ 2 weeks			
Project Name: Eastham Landfill	☐ 1 week			Job / SDG No.:
Site: Town of Eastham	☐ 2 days			
P O # BEA09-10104	☐ 1 day			Sampler: JTW

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample (Y / N)	Composite = C / Grab = G	VOCs via 524.2	1,4-Dioxane via 522.1 Mod	Sample Specific Notes:
Wallace vacant lot on Meetinghouse	5/10/2013	4:05 PM	G	W	5	N	G	3	2	
Wallace vacant lot on Meetinghouse Duplicate	5/10/2013	4:05 PM	G	W	4	N	G	3	1	
10 Turtle Pond Rd.	5/10/2013	5:00 pm	G	W	5	N	G	3	2	
10 Turtle Pond Rd. Duplicate	5/10/2013	5:00 pm	G	W	4	N	G	3	1	
Trip Blank	5/10/2013	8:05 AM	G	W	5	N	G	3	2	
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other								1,2	1,2	

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments: Please email results to dbennett@bennett-ea.com

	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	BEA	5/10/13 6:00pm	BEA samples for dlvy.		
Relinquished by:	BEA	5/13/13 9:45 hr		TAC	5/13/13 10:41
Relinquished by:	TAC	5/13/13	Received in Laboratory by:	TA Westfield	5.14.13 0100

Form No. CA-C-WI-002, Rev. 4, dated 10/25/2012

2 of 4 #1

5/20/2013

Login Sample Receipt Checklist

Client: Bennett Environmental Associates, Inc.

Job Number: 480-38213-1

Login Number: 38213

List Source: TestAmerica Buffalo

List Number: 1

Creator: Wienke, Robert

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	BEA
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	True	Lab to check

Login Sample Receipt Checklist

Client: Bennett Environmental Associates, Inc.

Job Number: 480-38213-1

Login Number: 38213
List Number: 1
Creator: Gagne, Eric

List Source: TestAmerica Burlington
List Creation: 05/14/13 02:24 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	No NUMBERS
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.0ºC IR GUN ID 181. CF 0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

						Sample ID	7 Eldia Way	225 Meetinghouse Rd.	3 Fairview Ave.	50 Chokeberry Dr.	13 Starlight Ln.	Vacant Lot @ corner of Old Orchard Rd. and Starlight Ln.	Wallace vacant lot on Meetinghouse	10 Turtle Pond Rd.	Trip Blank
						Sampled By									
						Sample Collection Date	05/10/2013 09:35	05/10/2013 10:20	05/10/2013 11:40	05/10/2013 13:00	05/10/2013 13:40	05/10/2013 14:45	05/10/2013 16:05	05/10/2013 17:00	05/10/2013 08:05
						Laboratory Order Number	480-38213-1	480-38213-3	480-38213-5	480-38213-7	480-38213-9	480-38213-11	480-38213-13	480-38213-15	480-38213-17
Parameter	**Reporting Units**	**GW1**	**GW2**	**RCGW1**	**RCGW2**	**DW MMCL**									
Volatiles by 524.2															
1,1,1,2-Tetrachloroethane	ug/l	5	10	5	10	NA		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
1,1,1-Trichloroethane	ug/l	200	4000	200	4000	200		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
1,1,2,2-Tetrachloroethane	ug/l	2	9	2	9	NA		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/l	NA	NA	NA	NA	NA		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
1,1,2-Trichloroethane	ug/l	5	900	5	900	5		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
1,1-Dichloroethane	ug/l	70	1000	70	1000	NA		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
1,1-Dichloroethene	ug/l	7	80	7	80	7		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
1,1-Dichloropropene	ug/l	NA	NA	NA	NA	NA		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
1,2,3-Trichlorobenzene	ug/l	NA	NA	NA	NA	NA		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
1,2,3-Trichloropropane	ug/l	NA	NA	1000	10000	NA		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
1,2,4-Trichlorobenzene	ug/l	70	2000	70	2000	70		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
1,2,4-Trimethylbenzene	ug/l	NA	NA	10000	100000	NA		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
1,2-Dibromo-3-Chloropropane	ug/l	NA	NA	100	1000	0.2		**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	
1,2-Dibromoethane	ug/l	0.02	2	0.02	2	0.02		**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	
1,2-Dichlorobenzene	ug/l	600	2000	600	2000	600		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
1,2-Dichloroethane	ug/l	5	5	5	5	5		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
1,2-Dichloropropane	ug/l	5	3	3	3	5		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
1,3,5-Trimethylbenzene	ug/l	NA	NA	100	1000	NA		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
1,3-Dichlorobenzene	ug/l	40	2000	40	2000	NA		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
1,3-Dichloropropane	ug/l	NA	NA	5000	50000	NA		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
1,4-Dichlorobenzene	ug/l	5	200	5	200	5		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
2,2-Dichloropropane	ug/l	NA	NA	NA	NA	NA		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
2-Butanone (MEK)	ug/l	4000	50000	4000	50000	NA		< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	
2-Chlorotoluene	ug/l	NA	NA	1000	10000	NA		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
4-Chlorotoluene	ug/l	NA	NA	NA	NA	NA		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
4-Isopropyltoluene	ug/l	NA	NA	1000	10000	NA		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
4-Methyl-2-pentanone (MIBK)	ug/l	350	50000	350	50000	NA		< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	
Acetone	ug/l	6300	50000	6300	50000	NA		0.65J	1.1J	1.2J	0.62J	0.79J	0.74J	0.63J	
Benzene	ug/l	5	2000	5	2000	5		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Bromobenzene	ug/l	NA	NA	1000	10000	NA		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Bromochloromethane	ug/l	NA	NA	NA	NA	NA		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Bromoform	ug/l	4	700	4	700	NA		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Bromomethane	ug/l	10	7	7	7	NA		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Carbon tetrachloride	ug/l	5	2	2	2	5		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Chlorobenzene	ug/l	100	200	100	200	100		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Chlorodibromomethane	ug/l	2	20	2	20	NA		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Chloroethane	ug/l	NA	NA	1000	10000	NA		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Chloroform	ug/l	70	50	50	50	NA		0.44J	< 0.50	0.16J	0.21J	< 0.50	< 0.50	0.50	
Chloromethane	ug/l	NA	NA	1000	10000	NA		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
cis-1,2-Dichloroethene	ug/l	70	100	70	100	NA		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
cis-1,3-Dichloropropene	ug/l	NA	NA	0.5	5	NA		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Dibromomethane	ug/l	NA	NA	5000	50000	NA		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Dichlorobromomethane	ug/l	3	6	3	6	NA		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Dichlorodifluoromethane	ug/l	NA	NA	10000	100000	NA		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Ethylbenzene	ug/l	700	20000	700	5000	700		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Hexachlorobutadiene	ug/l	0.6	1	0.6	1	NA		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Isopropylbenzene	ug/l	NA	NA	10000	100000	NA		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Methyl tert-butyl ether	ug/l	70	50000	70	5000	NA		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.14J	< 0.50	
Methylene Chloride	ug/l	5	10000	5	10000	5		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
m-Xylene & p-Xylene	ug/l	10000	9000	5000	5000	NA		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Naphthalene	ug/l	140	1000	140	1000	NA		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
n-Butylbenzene	ug/l	NA	NA	NA	NA	NA		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
N-Propylbenzene	ug/l	NA	NA	1000	10000	NA		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
o-Xylene	ug/l	10000	9000	5000	5000	NA		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Styrene	ug/l	100	100	100	100	100		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
t-Butanol	ug/l	NA	NA	NA	NA	NA		< 10	< 10	< 10	< 10	< 10	< 10	< 10	
tert-Butylbenzene	ug/l	NA	NA	1000	10000	NA		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Tetrachloroethene	ug/l	5	50	5	50	5		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Toluene	ug/l	1000	50000	1000	40000	1000		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
trans-1,2-Dichloroethene	ug/l	100	90	90	90	100		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
trans-1,3-Dichloropropene	ug/l	NA	NA	0.5	5	NA		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Trichloroethene	ug/l	5	30	5	30	5		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Trichlorofluoromethane	ug/l	NA	NA	10000	100000	NA		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Trihalomethanes, Total	ug/l	NA	NA	NA	NA	NA		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
Vinyl chloride	ug/l	2	2	2	2	2		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Xylenes, Total	ug/l	10000	9000	5000	5000	NA		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Semivolatiles by 522 MOD															
1,4-Dioxane	ug/l	3	6000	3	6000	NA	0.045J	0.13J	< 0.20	0.058J	< 0.20	< 0.20	0.11J	< 0.20	< 0.20

Notes:
ug/l - micrograms/liter
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
GW1 - Concentrations based on the use of groundwater as drinking water, either currently or in the foreseeable future.
GW2 - Concentrations based on the potential for volatile material to migrate into indoor air.
GW3 - Concentrations based on the potential environmental effects resulting from contaminated groundwater discharging to surface water.
RC - Risk Characterization approach, Standards may be supplemented or modified with site- and chemical-specific information.
UCL - Upper Concentration Limits in groundwater and soil are promulgated to minimize potential risks associated with uncontrolled environmental contamination, and the costs associated with cumulative anthropogenic contributions to background.

TestAmerica's TotalAccess, is our online data management tool. Features include, a cross-tab view displaying each analyte
as a row across sample columns, an intuitive analyte trending tool, auto-fill search functions and exports data into Excel, while keeping its original format.
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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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TestAmerica Buffalo
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TestAmerica Job ID: 480-38608-1
Client Project/Site: Eastham Landfill IRA

For:
Bennett Environmental Associates, Inc.
1573 Main St.
Brewster, Massachusetts 02631

Attn: David Bennett

Authorized for release by:
5/24/2013 6:04:53 PM

Steve Hartmann, Lab Director
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LINKS

Review your project results through TotalAccess

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD exceeds the control limits

GC/MS Semi VOA

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-38608-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-38608-1

Receipt
The samples were received on 5/18/2013 6:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.8º C.

GC/MS VOA (524.2, 8260MCP)
Method(s) 524.2: The continuing calibration verification (CCV) for Trichlorofluoromethane, 1,1,1-Trichloroethane and Carbon Tetrachloride associated with batch 119548 and Acetone, 2-Butanone, 2-Hexanone, 4-Methyl-2-pentanone, Tetrahydrofuran and Isopropyl Ether associated with batch 120103 recovered above the upper control limit. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method(s) 524.2: The laboratory control sample (LCS) for batch 119548 recovered outside control limits for the following analytes: Dichlorodifluoromethane and Trichlorofluoromethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260C: The laboratory control sample (LCS) and / or the laboratory control sample duplicate (LCSD) for batch 120103 exceeded control limits for the following analytes: Tetrahydrofuran, 4-Methyl-2-pentanone and Acetone. MCP protocol allows for 10% of the target compounds to be outside of the limits provided the recoveries are over 10%.

With the exception of diluted samples, per question G on the MassDEP Analytical Protocol Certification Form, TestAmerica's routine reporting limits do not achieve the CAM reporting limits specified in this CAM protocol for 1,2-dibromo-3-chloropropane, Carbon Disulfide, Isopropyl Ether, Naphthalene, tert-Butyl Ethyl Ether, tert-Amyl Methyl Ether, & Tetrahydrofuran.

No other analytical or quality issues were noted.

GC/MS Semi VOA (522MOD)
No analytical or quality issues were noted.

MassDEP Analytical Protocol Certification Form

Laboratory Name: **TestAmerica Buffalo** Project #: **480-38608**

Project Location: **Eastham** RTN:

This form provides certifications for the following data set: list Laboratory Sample ID Number(s):

480-38608-[3-4]

Matrices: [X] Groundwater/Surface Water [ ] Soil/Sediment [ ] Drinking Water [ ] Air [ ] Other:

CAM Protocols (check all that apply below):

8260 VOC CAM II A [X]	7470/7471 Hg CAM III B [ ]	Mass DEP VPH CAM IV A [ ]	8081 Pesticides CAM V B [ ]	7196 Hex Cr CAM VI B [ ]	Mass DEP APH CAM IX A [ ]
8270 SVOC CAM II B [ ]	7010 Metals CAM III C [ ]	Mass DEP EPH CAM IV B [ ]	8151 Herbicides CAM V C [ ]	8330 Explosives CAM VIII A [ ]	TO-15 VOC CAM IX B [ ]
6010 Metals CAM III A [ ]	6020 Metals CAM III D [ ]	8082 PCB CAM V A [ ]	9014 Total Cyanide/PAC CAM VI A [ ]	6860 Perchlorate CAM VIII B [ ]	

Affirmative Responses to Questions A through F are 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 time.	[X] Yes [ ] No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	[X] Yes [ ] No
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?	[X] Yes [ ] No
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"?	[X] Yes [ ] No
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). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	[ ] Yes [ ] No [ ] Yes [ ] No
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)?	[X] Yes [ ] No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

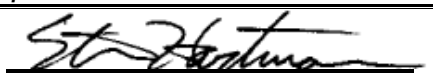
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	[ ] Yes [X] No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WCS-07-350**

H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	[ ] Yes [X] No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s) ?	[X] Yes [ ] No[1]

[1] All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.

Signature:  Position: Service Center Manager/Lab Director-TestAmerica Westfield

Printed Name: Steven C. Hartmann Date: 5/24/13 18:01

This form has been electronically signed and approved

Detection Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38608-1

Client Sample ID: 7 Eldia Way — Lab Sample ID: 480-38608-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.14	J	0.50	0.14	ug/L	1		524.2	Total/NA

Client Sample ID: MW-21S — Lab Sample ID: 480-38608-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.40	J	10	0.19	ug/L	1		8260C	Total/NA
Methyl tert-butyl ether	0.16	J	1.0	0.16	ug/L	1		8260C	Total/NA
1,4-Dioxane	0.33		0.20	0.040	ug/L	1		522 MOD	Total/NA

Client Sample ID: 275 Alston Ave. — Lab Sample ID: 480-38608-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.56	J	2.5	0.54	ug/L	1		524.2	Total/NA
Chloroform	0.75		0.50	0.14	ug/L	1		524.2	Total/NA
1,4-Dioxane	1.3		0.20	0.040	ug/L	1		522 MOD	Total/NA

Client Sample ID: 400 Schoolhouse Rd. — Lab Sample ID: 480-38608-7

No Detections.

Client Sample ID: 40 Fairview Ave. — Lab Sample ID: 480-38608-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.065	J	0.20	0.040	ug/L	1		522 MOD	Total/NA

Client Sample ID: 45 Chokeberry Dr. — Lab Sample ID: 480-38608-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.11	J	0.20	0.040	ug/L	1		522 MOD	Total/NA

Client Sample ID: 3 Whidah Ln. — Lab Sample ID: 480-38608-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.071	J	0.20	0.040	ug/L	1		522 MOD	Total/NA

Client Sample ID: Community Well — Lab Sample ID: 480-38608-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.068	J	0.20	0.040	ug/L	1		522 MOD	Total/NA

Client Sample ID: 10 Sharon Circle — Lab Sample ID: 480-38608-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.088	J	0.20	0.040	ug/L	1		522 MOD	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 480-38608-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	4.0		2.5	0.54	ug/L	1		524.2	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38608-1

Client Sample ID: Trip Blank — Lab Sample ID: 480-38608-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.047	J	0.20	0.040	ug/L	1		522 MOD	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 480-38608-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	5.0		2.5	0.54	ug/L	1		524.2	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38608-1

Client Sample ID: 7 Eldia Way
Date Collected: 05/10/13 09:35
Date Received: 05/18/13 06:30

Lab Sample ID: 480-38608-1
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/20/13 18:40	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/20/13 18:40	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/20/13 18:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/20/13 18:40	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/20/13 18:40	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/20/13 18:40	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/20/13 18:40	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/20/13 18:40	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/20/13 18:40	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/20/13 18:40	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/20/13 18:40	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/20/13 18:40	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/20/13 18:40	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/20/13 18:40	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/20/13 18:40	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/20/13 18:40	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/20/13 18:40	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/20/13 18:40	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/20/13 18:40	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/20/13 18:40	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/20/13 18:40	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/20/13 18:40	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/20/13 18:40	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/20/13 18:40	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/20/13 18:40	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/20/13 18:40	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/20/13 18:40	1
Acetone	ND		2.5	0.54	ug/L			05/20/13 18:40	1
Benzene	ND		0.50	0.13	ug/L			05/20/13 18:40	1
Bromobenzene	ND		0.50	0.13	ug/L			05/20/13 18:40	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/20/13 18:40	1
Bromoform	ND		0.50	0.13	ug/L			05/20/13 18:40	1
Bromomethane	ND		0.50	0.051	ug/L			05/20/13 18:40	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/20/13 18:40	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/20/13 18:40	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/20/13 18:40	1
Chloroethane	ND		0.50	0.070	ug/L			05/20/13 18:40	1
Chloroform	**0.14**	**J**	0.50	0.14	ug/L			05/20/13 18:40	1
Chloromethane	ND		0.50	0.063	ug/L			05/20/13 18:40	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/20/13 18:40	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/20/13 18:40	1
Dibromomethane	ND		0.50	0.17	ug/L			05/20/13 18:40	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/20/13 18:40	1
Dichlorodifluoromethane	ND	*	0.50	0.070	ug/L			05/20/13 18:40	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/20/13 18:40	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/20/13 18:40	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/20/13 18:40	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/20/13 18:40	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/20/13 18:40	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38608-1

Client Sample ID: 7 Eldia Way

Lab Sample ID: 480-38608-1

Date Collected: 05/10/13 09:35

Matrix: Water

Date Received: 05/18/13 06:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/20/13 18:40	1
Naphthalene	ND		0.50	0.060	ug/L			05/20/13 18:40	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/20/13 18:40	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/20/13 18:40	1
o-Xylene	ND		0.50	0.044	ug/L			05/20/13 18:40	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/20/13 18:40	1
Styrene	ND		0.50	0.044	ug/L			05/20/13 18:40	1
t-Butanol	ND		10	2.5	ug/L			05/20/13 18:40	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/20/13 18:40	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/20/13 18:40	1
Toluene	ND		0.50	0.10	ug/L			05/20/13 18:40	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/20/13 18:40	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/20/13 18:40	1
Trichloroethene	ND		0.50	0.060	ug/L			05/20/13 18:40	1
Trichlorofluoromethane	ND	*	0.50	0.044	ug/L			05/20/13 18:40	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/20/13 18:40	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/20/13 18:40	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/20/13 18:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*107*		*80 - 120*		*05/20/13 18:40*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*05/20/13 18:40*	*1*

Client Sample ID: MW-21S

Lab Sample ID: 480-38608-3

Date Collected: 05/16/13 09:30

Matrix: Water

Date Received: 05/18/13 06:30

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.35	ug/L			05/22/13 23:17	1
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			05/22/13 23:17	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.21	ug/L			05/22/13 23:17	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			05/22/13 23:17	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			05/22/13 23:17	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			05/22/13 23:17	1
1,1-Dichloropropene	ND		1.0	0.72	ug/L			05/22/13 23:17	1
1,2,3-Trichlorobenzene	ND		1.0	0.41	ug/L			05/22/13 23:17	1
1,2,3-Trichloropropane	ND		1.0	0.89	ug/L			05/22/13 23:17	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			05/22/13 23:17	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			05/22/13 23:17	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.39	ug/L			05/22/13 23:17	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			05/22/13 23:17	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			05/22/13 23:17	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			05/22/13 23:17	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			05/22/13 23:17	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			05/22/13 23:17	1
1,3-Dichloropropane	ND		1.0	0.75	ug/L			05/22/13 23:17	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			05/22/13 23:17	1
1,4-Dioxane	ND		50	9.3	ug/L			05/22/13 23:17	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			05/22/13 23:17	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38608-1

Client Sample ID: MW-21S
Date Collected: 05/16/13 09:30
Date Received: 05/18/13 06:30

Lab Sample ID: 480-38608-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		10	1.3	ug/L			05/22/13 23:17	1
2-Chlorotoluene	ND		1.0	0.86	ug/L			05/22/13 23:17	1
2-Hexanone	ND		10	1.2	ug/L			05/22/13 23:17	1
4-Chlorotoluene	ND		1.0	0.84	ug/L			05/22/13 23:17	1
4-Isopropyltoluene	ND		1.0	0.31	ug/L			05/22/13 23:17	1
4-Methyl-2-pentanone (MIBK)	ND	*	10	2.1	ug/L			05/22/13 23:17	1
Acetone	ND	*	50	3.0	ug/L			05/22/13 23:17	1
Benzene	ND		1.0	0.41	ug/L			05/22/13 23:17	1
Bromobenzene	ND		1.0	0.80	ug/L			05/22/13 23:17	1
Bromoform	ND		1.0	0.26	ug/L			05/22/13 23:17	1
Bromomethane	ND		2.0	0.69	ug/L			05/22/13 23:17	1
Carbon disulfide	**0.40**	**J**	10	0.19	ug/L			05/22/13 23:17	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			05/22/13 23:17	1
Chlorobenzene	ND		1.0	0.75	ug/L			05/22/13 23:17	1
Chlorobromomethane	ND		1.0	0.87	ug/L			05/22/13 23:17	1
Chlorodibromomethane	ND		0.50	0.32	ug/L			05/22/13 23:17	1
Chloroethane	ND		2.0	0.32	ug/L			05/22/13 23:17	1
Chloroform	ND		1.0	0.34	ug/L			05/22/13 23:17	1
Chloromethane	ND		2.0	0.35	ug/L			05/22/13 23:17	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			05/22/13 23:17	1
cis-1,3-Dichloropropene	ND		0.40	0.36	ug/L			05/22/13 23:17	1
Dichlorobromomethane	ND		0.50	0.39	ug/L			05/22/13 23:17	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			05/22/13 23:17	1
Ethyl ether	ND		1.0	0.72	ug/L			05/22/13 23:17	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/22/13 23:17	1
Ethylene Dibromide	ND		1.0	0.73	ug/L			05/22/13 23:17	1
Hexachlorobutadiene	ND		0.40	0.28	ug/L			05/22/13 23:17	1
Isopropyl ether	ND		10	0.59	ug/L			05/22/13 23:17	1
Isopropylbenzene	ND		1.0	0.79	ug/L			05/22/13 23:17	1
Methyl tert-butyl ether	**0.16**	**J**	1.0	0.16	ug/L			05/22/13 23:17	1
Methylene Chloride	ND		1.0	0.44	ug/L			05/22/13 23:17	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			05/22/13 23:17	1
Naphthalene	ND		5.0	0.43	ug/L			05/22/13 23:17	1
n-Butylbenzene	ND		1.0	0.64	ug/L			05/22/13 23:17	1
N-Propylbenzene	ND		1.0	0.69	ug/L			05/22/13 23:17	1
o-Xylene	ND		1.0	0.76	ug/L			05/22/13 23:17	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			05/22/13 23:17	1
Styrene	ND		1.0	0.73	ug/L			05/22/13 23:17	1
Tert-amyl methyl ether	ND		5.0	0.27	ug/L			05/22/13 23:17	1
Tert-butyl ethyl ether	ND		5.0	0.29	ug/L			05/22/13 23:17	1
tert-Butylbenzene	ND		1.0	0.81	ug/L			05/22/13 23:17	1
Tetrachloroethene	ND		1.0	0.36	ug/L			05/22/13 23:17	1
Tetrahydrofuran	ND	*	10	1.3	ug/L			05/22/13 23:17	1
Toluene	ND		1.0	0.51	ug/L			05/22/13 23:17	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			05/22/13 23:17	1
trans-1,3-Dichloropropene	ND		0.40	0.37	ug/L			05/22/13 23:17	1
Trichloroethene	ND		1.0	0.46	ug/L			05/22/13 23:17	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			05/22/13 23:17	1
Vinyl chloride	ND		1.0	0.90	ug/L			05/22/13 23:17	1

Client Sample ID: MW-21S

Lab Sample ID: 480-38608-3

Date Collected: 05/16/13 09:30

Matrix: Water

Date Received: 05/18/13 06:30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	ND		1.0	0.41	ug/L			05/22/13 23:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*70 - 130*		*05/22/13 23:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*80*		*70 - 130*		*05/22/13 23:17*	*1*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*		*05/22/13 23:17*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**0.33**		0.20	0.040	ug/L		05/20/13 11:42	05/21/13 15:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*90*		*70 - 130*	*05/20/13 11:42*	*05/21/13 15:26*	*1*

Client Sample ID: 275 Alston Ave.

Lab Sample ID: 480-38608-5

Date Collected: 05/16/13 10:25

Matrix: Water

Date Received: 05/18/13 06:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/20/13 19:05	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/20/13 19:05	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/20/13 19:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/20/13 19:05	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/20/13 19:05	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/20/13 19:05	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/20/13 19:05	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/20/13 19:05	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/20/13 19:05	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/20/13 19:05	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/20/13 19:05	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/20/13 19:05	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/20/13 19:05	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/20/13 19:05	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/20/13 19:05	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/20/13 19:05	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/20/13 19:05	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/20/13 19:05	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/20/13 19:05	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/20/13 19:05	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/20/13 19:05	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/20/13 19:05	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/20/13 19:05	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/20/13 19:05	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/20/13 19:05	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/20/13 19:05	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/20/13 19:05	1
Acetone	**0.56**	**J**	2.5	0.54	ug/L			05/20/13 19:05	1
Benzene	ND		0.50	0.13	ug/L			05/20/13 19:05	1
Bromobenzene	ND		0.50	0.13	ug/L			05/20/13 19:05	1

Client Sample ID: 275 Alston Ave.
Date Collected: 05/16/13 10:25
Date Received: 05/18/13 06:30

Lab Sample ID: 480-38608-5
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromochloromethane	ND		0.50	0.11	ug/L			05/20/13 19:05	1
Bromoform	ND		0.50	0.13	ug/L			05/20/13 19:05	1
Bromomethane	ND		0.50	0.051	ug/L			05/20/13 19:05	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/20/13 19:05	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/20/13 19:05	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/20/13 19:05	1
Chloroethane	ND		0.50	0.070	ug/L			05/20/13 19:05	1
Chloroform	**0.75**		0.50	0.14	ug/L			05/20/13 19:05	1
Chloromethane	ND		0.50	0.063	ug/L			05/20/13 19:05	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/20/13 19:05	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/20/13 19:05	1
Dibromomethane	ND		0.50	0.17	ug/L			05/20/13 19:05	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/20/13 19:05	1
Dichlorodifluoromethane	ND	*	0.50	0.070	ug/L			05/20/13 19:05	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/20/13 19:05	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/20/13 19:05	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/20/13 19:05	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/20/13 19:05	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/20/13 19:05	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/20/13 19:05	1
Naphthalene	ND		0.50	0.060	ug/L			05/20/13 19:05	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/20/13 19:05	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/20/13 19:05	1
o-Xylene	ND		0.50	0.044	ug/L			05/20/13 19:05	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/20/13 19:05	1
Styrene	ND		0.50	0.044	ug/L			05/20/13 19:05	1
t-Butanol	ND		10	2.5	ug/L			05/20/13 19:05	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/20/13 19:05	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/20/13 19:05	1
Toluene	ND		0.50	0.10	ug/L			05/20/13 19:05	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/20/13 19:05	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/20/13 19:05	1
Trichloroethene	ND		0.50	0.060	ug/L			05/20/13 19:05	1
Trichlorofluoromethane	ND	*	0.50	0.044	ug/L			05/20/13 19:05	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/20/13 19:05	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/20/13 19:05	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/20/13 19:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*107*		*80 - 120*		*05/20/13 19:05*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*05/20/13 19:05*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**1.3**		0.20	0.040	ug/L		05/20/13 11:42	05/21/13 15:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*102*		*70 - 130*	*05/20/13 11:42*	*05/21/13 15:50*	*1*

Client Sample ID: 400 Schoolhouse Rd.

Lab Sample ID: 480-38608-7

Date Collected: 05/16/13 11:15
Matrix: Water
Date Received: 05/18/13 06:30

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		05/20/13 11:42	05/21/13 16:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*84*		*70 - 130*	*05/20/13 11:42*	*05/21/13 16:13*	*1*

Client Sample ID: 40 Fairview Ave.

Lab Sample ID: 480-38608-9

Date Collected: 05/16/13 11:45
Matrix: Water
Date Received: 05/18/13 06:30

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.065	J	0.20	0.040	ug/L		05/20/13 11:42	05/21/13 16:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*93*		*70 - 130*	*05/20/13 11:42*	*05/21/13 16:36*	*1*

Client Sample ID: 45 Chokeberry Dr.

Lab Sample ID: 480-38608-11

Date Collected: 05/16/13 12:15
Matrix: Water
Date Received: 05/18/13 06:30

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.11	J	0.20	0.040	ug/L		05/20/13 11:42	05/21/13 16:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*89*		*70 - 130*	*05/20/13 11:42*	*05/21/13 16:59*	*1*

Client Sample ID: 3 Whidah Ln.

Lab Sample ID: 480-38608-13

Date Collected: 05/16/13 12:50
Matrix: Water
Date Received: 05/18/13 06:30

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.071	J	0.20	0.040	ug/L		05/20/13 11:42	05/21/13 17:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*86*		*70 - 130*	*05/20/13 11:42*	*05/21/13 17:21*	*1*

Client Sample ID: Community Well

Lab Sample ID: 480-38608-15

Date Collected: 05/16/13 13:35
Matrix: Water
Date Received: 05/18/13 06:30

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.068	J	0.20	0.040	ug/L		05/20/13 11:42	05/21/13 17:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*92*		*70 - 130*	*05/20/13 11:42*	*05/21/13 17:44*	*1*

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38608-1

Client Sample ID: 10 Sharon Circle

Lab Sample ID: 480-38608-17

Date Collected: 05/16/13 14:15
Matrix: Water
Date Received: 05/18/13 06:30

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.088	J	0.20	0.040	ug/L		05/20/13 11:42	05/21/13 18:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*91*		*70 - 130*	*05/20/13 11:42*	*05/21/13 18:07*	*1*

Client Sample ID: Trip Blank

Lab Sample ID: 480-38608-19

Date Collected: 05/10/13 08:05
Matrix: Water
Date Received: 05/18/13 06:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/20/13 19:30	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/20/13 19:30	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/20/13 19:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/20/13 19:30	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/20/13 19:30	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/20/13 19:30	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/20/13 19:30	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/20/13 19:30	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/20/13 19:30	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/20/13 19:30	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/20/13 19:30	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/20/13 19:30	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/20/13 19:30	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/20/13 19:30	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/20/13 19:30	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/20/13 19:30	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/20/13 19:30	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/20/13 19:30	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/20/13 19:30	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/20/13 19:30	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/20/13 19:30	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/20/13 19:30	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/20/13 19:30	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/20/13 19:30	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/20/13 19:30	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/20/13 19:30	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/20/13 19:30	1
Acetone	4.0		2.5	0.54	ug/L			05/20/13 19:30	1
Benzene	ND		0.50	0.13	ug/L			05/20/13 19:30	1
Bromobenzene	ND		0.50	0.13	ug/L			05/20/13 19:30	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/20/13 19:30	1
Bromoform	ND		0.50	0.13	ug/L			05/20/13 19:30	1
Bromomethane	ND		0.50	0.051	ug/L			05/20/13 19:30	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/20/13 19:30	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/20/13 19:30	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/20/13 19:30	1
Chloroethane	ND		0.50	0.070	ug/L			05/20/13 19:30	1
Chloroform	ND		0.50	0.14	ug/L			05/20/13 19:30	1
Chloromethane	ND		0.50	0.063	ug/L			05/20/13 19:30	1

Client Sample ID: Trip Blank

Lab Sample ID: 480-38608-19

Date Collected: 05/10/13 08:05

Matrix: Water

Date Received: 05/18/13 06:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/20/13 19:30	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/20/13 19:30	1
Dibromomethane	ND		0.50	0.17	ug/L			05/20/13 19:30	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/20/13 19:30	1
Dichlorodifluoromethane	ND	*	0.50	0.070	ug/L			05/20/13 19:30	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/20/13 19:30	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/20/13 19:30	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/20/13 19:30	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/20/13 19:30	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/20/13 19:30	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/20/13 19:30	1
Naphthalene	ND		0.50	0.060	ug/L			05/20/13 19:30	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/20/13 19:30	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/20/13 19:30	1
o-Xylene	ND		0.50	0.044	ug/L			05/20/13 19:30	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/20/13 19:30	1
Styrene	ND		0.50	0.044	ug/L			05/20/13 19:30	1
t-Butanol	ND		10	2.5	ug/L			05/20/13 19:30	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/20/13 19:30	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/20/13 19:30	1
Toluene	ND		0.50	0.10	ug/L			05/20/13 19:30	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/20/13 19:30	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/20/13 19:30	1
Trichloroethene	ND		0.50	0.060	ug/L			05/20/13 19:30	1
Trichlorofluoromethane	ND	*	0.50	0.044	ug/L			05/20/13 19:30	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/20/13 19:30	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/20/13 19:30	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/20/13 19:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*107*		*80 - 120*		*05/20/13 19:30*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*05/20/13 19:30*	*1*

Client Sample ID: Trip Blank

Lab Sample ID: 480-38608-20

Date Collected: 05/14/13 00:00

Matrix: Water

Date Received: 05/18/13 06:30

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.047	J	0.20	0.040	ug/L		05/20/13 11:42	05/21/13 18:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*89*		*70 - 130*	*05/20/13 11:42*	*05/21/13 18:30*	*1*

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38608-1

Client Sample ID: Trip Blank
Date Collected: 05/16/13 08:05
Date Received: 05/18/13 06:30

Lab Sample ID: 480-38608-21
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/20/13 19:55	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/20/13 19:55	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/20/13 19:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/20/13 19:55	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/20/13 19:55	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/20/13 19:55	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/20/13 19:55	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/20/13 19:55	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/20/13 19:55	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/20/13 19:55	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/20/13 19:55	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/20/13 19:55	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/20/13 19:55	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/20/13 19:55	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/20/13 19:55	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/20/13 19:55	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/20/13 19:55	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/20/13 19:55	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/20/13 19:55	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/20/13 19:55	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/20/13 19:55	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/20/13 19:55	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/20/13 19:55	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/20/13 19:55	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/20/13 19:55	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/20/13 19:55	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/20/13 19:55	1
Acetone	**5.0**		2.5	0.54	ug/L			05/20/13 19:55	1
Benzene	ND		0.50	0.13	ug/L			05/20/13 19:55	1
Bromobenzene	ND		0.50	0.13	ug/L			05/20/13 19:55	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/20/13 19:55	1
Bromoform	ND		0.50	0.13	ug/L			05/20/13 19:55	1
Bromomethane	ND		0.50	0.051	ug/L			05/20/13 19:55	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/20/13 19:55	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/20/13 19:55	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/20/13 19:55	1
Chloroethane	ND		0.50	0.070	ug/L			05/20/13 19:55	1
Chloroform	ND		0.50	0.14	ug/L			05/20/13 19:55	1
Chloromethane	ND		0.50	0.063	ug/L			05/20/13 19:55	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/20/13 19:55	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/20/13 19:55	1
Dibromomethane	ND		0.50	0.17	ug/L			05/20/13 19:55	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/20/13 19:55	1
Dichlorodifluoromethane	ND	*	0.50	0.070	ug/L			05/20/13 19:55	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/20/13 19:55	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/20/13 19:55	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/20/13 19:55	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/20/13 19:55	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/20/13 19:55	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38608-1

Client Sample ID: Trip Blank
Date Collected: 05/16/13 08:05
Date Received: 05/18/13 06:30

Lab Sample ID: 480-38608-21
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/20/13 19:55	1
Naphthalene	ND		0.50	0.060	ug/L			05/20/13 19:55	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/20/13 19:55	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/20/13 19:55	1
o-Xylene	ND		0.50	0.044	ug/L			05/20/13 19:55	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/20/13 19:55	1
Styrene	ND		0.50	0.044	ug/L			05/20/13 19:55	1
t-Butanol	ND		10	2.5	ug/L			05/20/13 19:55	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/20/13 19:55	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/20/13 19:55	1
Toluene	ND		0.50	0.10	ug/L			05/20/13 19:55	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/20/13 19:55	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/20/13 19:55	1
Trichloroethene	ND		0.50	0.060	ug/L			05/20/13 19:55	1
Trichlorofluoromethane	ND	*	0.50	0.044	ug/L			05/20/13 19:55	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/20/13 19:55	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/20/13 19:55	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/20/13 19:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*108*		*80 - 120*		*05/20/13 19:55*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*05/20/13 19:55*	*1*

Surrogate Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38608-1

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		12DCB	BFB
Lab Sample ID	Client Sample ID	(80-120)	(80-120)
480-38608-1	7 Eldia Way	107	93
480-38608-5	275 Alston Ave.	107	93
480-38608-19	Trip Blank	107	93
480-38608-21	Trip Blank	108	94
LCS 480-119548/4	Lab Control Sample	103	97
MB 480-119548/5	Method Blank	106	97

Surrogate Legend

12DCB = 1,2-Dichlorobenzene-d4

BFB = 4-Bromofluorobenzene (Surr)

Method: 8260C - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		TOL	12DCE	BFB
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)
480-38608-3	MW-21S	96	80	108
LCS 480-120103/6	Lab Control Sample	95	81	109
LCSD 480-120103/7	Lab Control Sample Dup	96	81	107
MB 480-120103/9	Method Blank	96	82	108

Surrogate Legend

TOL = Toluene-d8 (Surr)

12DCE = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)
		14DD8
Lab Sample ID	Client Sample ID	(70-130)
480-38608-3	MW-21S	90
480-38608-5	275 Alston Ave.	102
480-38608-7	400 Schoolhouse Rd.	84
480-38608-9	40 Fairview Ave.	93
480-38608-11	45 Chokeberry Dr.	89
480-38608-13	3 Whidah Ln.	86
480-38608-15	Community Well	92
480-38608-17	10 Sharon Circle	91
480-38608-20	Trip Blank	89
LCS 200-55732/2-A	Lab Control Sample	99
MB 200-55732/1-A	Method Blank	98

Surrogate Legend

14DD8 = 1,4-Dioxane-d8 (Surr)

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-119548/5
Matrix: Water
Analysis Batch: 119548

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/20/13 11:17	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/20/13 11:17	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/20/13 11:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/20/13 11:17	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/20/13 11:17	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/20/13 11:17	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/20/13 11:17	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/20/13 11:17	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/20/13 11:17	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/20/13 11:17	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/20/13 11:17	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/20/13 11:17	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/20/13 11:17	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/20/13 11:17	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/20/13 11:17	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/20/13 11:17	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/20/13 11:17	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/20/13 11:17	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/20/13 11:17	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/20/13 11:17	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/20/13 11:17	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/20/13 11:17	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/20/13 11:17	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/20/13 11:17	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/20/13 11:17	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/20/13 11:17	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/20/13 11:17	1
Acetone	ND		2.5	0.54	ug/L			05/20/13 11:17	1
Benzene	ND		0.50	0.13	ug/L			05/20/13 11:17	1
Bromobenzene	ND		0.50	0.13	ug/L			05/20/13 11:17	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/20/13 11:17	1
Bromoform	ND		0.50	0.13	ug/L			05/20/13 11:17	1
Bromomethane	ND		0.50	0.051	ug/L			05/20/13 11:17	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/20/13 11:17	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/20/13 11:17	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/20/13 11:17	1
Chloroethane	ND		0.50	0.070	ug/L			05/20/13 11:17	1
Chloroform	ND		0.50	0.14	ug/L			05/20/13 11:17	1
Chloromethane	ND		0.50	0.063	ug/L			05/20/13 11:17	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/20/13 11:17	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/20/13 11:17	1
Dibromomethane	ND		0.50	0.17	ug/L			05/20/13 11:17	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/20/13 11:17	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/20/13 11:17	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/20/13 11:17	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/20/13 11:17	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/20/13 11:17	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/20/13 11:17	1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-119548/5
Matrix: Water
Analysis Batch: 119548

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		0.50	0.25	ug/L			05/20/13 11:17	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/20/13 11:17	1
Naphthalene	ND		0.50	0.060	ug/L			05/20/13 11:17	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/20/13 11:17	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/20/13 11:17	1
o-Xylene	ND		0.50	0.044	ug/L			05/20/13 11:17	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/20/13 11:17	1
Styrene	ND		0.50	0.044	ug/L			05/20/13 11:17	1
t-Butanol	ND		10	2.5	ug/L			05/20/13 11:17	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/20/13 11:17	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/20/13 11:17	1
Toluene	ND		0.50	0.10	ug/L			05/20/13 11:17	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/20/13 11:17	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/20/13 11:17	1
Trichloroethene	ND		0.50	0.060	ug/L			05/20/13 11:17	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/20/13 11:17	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/20/13 11:17	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/20/13 11:17	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/20/13 11:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*106*		*80 - 120*		*05/20/13 11:17*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*05/20/13 11:17*	*1*

Lab Sample ID: LCS 480-119548/4
Matrix: Water
Analysis Batch: 119548

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	4.00	4.34		ug/L		109	70 - 130
1,1,1-Trichloroethane	4.00	4.44		ug/L		111	70 - 130
1,1,2,2-Tetrachloroethane	4.00	3.74		ug/L		94	70 - 130
1,1,2-Trichloroethane	4.00	3.59		ug/L		90	70 - 130
1,1-Dichloroethane	4.00	3.78		ug/L		94	70 - 130
1,1-Dichloroethene	4.00	3.25		ug/L		81	70 - 130
1,1-Dichloropropene	4.00	4.07		ug/L		102	70 - 130
1,2,3-Trichlorobenzene	4.00	3.74		ug/L		93	70 - 130
1,2,3-Trichloropropane	4.00	4.22		ug/L		106	70 - 130
1,2,4-Trichlorobenzene	4.00	3.66		ug/L		92	70 - 130
1,2,4-Trimethylbenzene	4.00	4.01		ug/L		100	70 - 130
1,2-Dibromo-3-Chloropropane	4.00	3.95		ug/L		99	70 - 130
1,2-Dibromoethane	4.00	3.76		ug/L		94	70 - 130
1,2-Dichlorobenzene	4.00	3.86		ug/L		96	70 - 130
1,2-Dichloroethane	4.00	4.33		ug/L		108	70 - 130
1,2-Dichloropropane	4.00	3.51		ug/L		88	70 - 130
1,3,5-Trimethylbenzene	4.00	3.99		ug/L		100	70 - 130
1,3-Dichlorobenzene	4.00	3.75		ug/L		94	70 - 130
1,3-Dichloropropane	4.00	3.77		ug/L		94	70 - 130

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-119548/4
Matrix: Water
Analysis Batch: 119548

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	4.00	3.70		ug/L		92	70 - 130
2,2-Dichloropropane	4.00	3.98		ug/L		99	70 - 130
2-Butanone (MEK)	20.0	19.0		ug/L		95	70 - 130
2-Chlorotoluene	4.00	3.91		ug/L		98	70 - 130
4-Chlorotoluene	4.00	3.76		ug/L		94	70 - 130
4-Isopropyltoluene	4.00	3.89		ug/L		97	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	18.2		ug/L		91	70 - 130
Acetone	20.0	23.6		ug/L		118	70 - 130
Benzene	4.00	3.75		ug/L		94	70 - 130
Bromobenzene	4.00	3.83		ug/L		96	70 - 130
Bromochloromethane	4.00	4.08		ug/L		102	70 - 130
Bromoform	4.00	3.08		ug/L		77	70 - 130
Bromomethane	4.00	4.24		ug/L		106	70 - 130
Carbon tetrachloride	4.00	4.96		ug/L		124	70 - 130
Chlorobenzene	4.00	3.82		ug/L		96	70 - 130
Chlorodibromomethane	4.00	3.45		ug/L		86	70 - 130
Chloroethane	4.00	4.20		ug/L		105	70 - 130
Chloroform	4.00	4.04		ug/L		101	70 - 130
Chloromethane	4.00	4.17		ug/L		104	70 - 130
cis-1,2-Dichloroethene	4.00	3.85		ug/L		96	70 - 130
cis-1,3-Dichloropropene	4.00	3.44		ug/L		86	70 - 130
Dibromomethane	4.00	3.90		ug/L		98	70 - 130
Dichlorobromomethane	4.00	3.83		ug/L		96	70 - 130
Dichlorodifluoromethane	4.00	5.38	*	ug/L		134	70 - 130
Ethylbenzene	4.00	3.82		ug/L		96	70 - 130
Hexachlorobutadiene	4.00	3.70		ug/L		92	70 - 130
Isopropylbenzene	4.00	3.95		ug/L		99	70 - 130
Methyl tert-butyl ether	4.00	3.87		ug/L		97	70 - 130
Methylene Chloride	4.00	3.48		ug/L		87	70 - 130
Naphthalene	4.00	3.82		ug/L		96	70 - 130
n-Butylbenzene	4.00	3.84		ug/L		96	70 - 130
N-Propylbenzene	4.00	3.89		ug/L		97	70 - 130
sec-Butylbenzene	4.00	3.86		ug/L		97	70 - 130
Styrene	4.00	3.84		ug/L		96	70 - 130
tert-Butylbenzene	4.00	4.02		ug/L		100	70 - 130
Tetrachloroethene	4.00	3.91		ug/L		98	70 - 130
Toluene	4.00	3.67		ug/L		92	70 - 130
trans-1,2-Dichloroethene	4.00	3.73		ug/L		93	70 - 130
trans-1,3-Dichloropropene	4.00	2.96		ug/L		74	70 - 130
Trichloroethene	4.00	3.76		ug/L		94	70 - 130
Trichlorofluoromethane	4.00	5.54	*	ug/L		139	70 - 130
Vinyl chloride	4.00	4.51		ug/L		113	70 - 130
Xylenes, Total	12.0	11.8		ug/L		98	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichlorobenzene-d4	*103*		*80 - 120*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*

Method: 8260C - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-120103/9
Matrix: Water
Analysis Batch: 120103

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.35	ug/L			05/22/13 22:42	1
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			05/22/13 22:42	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.21	ug/L			05/22/13 22:42	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			05/22/13 22:42	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			05/22/13 22:42	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			05/22/13 22:42	1
1,1-Dichloropropene	ND		1.0	0.72	ug/L			05/22/13 22:42	1
1,2,3-Trichlorobenzene	ND		1.0	0.41	ug/L			05/22/13 22:42	1
1,2,3-Trichloropropane	ND		1.0	0.89	ug/L			05/22/13 22:42	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			05/22/13 22:42	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			05/22/13 22:42	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.39	ug/L			05/22/13 22:42	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			05/22/13 22:42	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			05/22/13 22:42	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			05/22/13 22:42	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			05/22/13 22:42	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			05/22/13 22:42	1
1,3-Dichloropropane	ND		1.0	0.75	ug/L			05/22/13 22:42	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			05/22/13 22:42	1
1,4-Dioxane	ND		50	9.3	ug/L			05/22/13 22:42	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			05/22/13 22:42	1
2-Butanone (MEK)	ND		10	1.3	ug/L			05/22/13 22:42	1
2-Chlorotoluene	ND		1.0	0.86	ug/L			05/22/13 22:42	1
2-Hexanone	ND		10	1.2	ug/L			05/22/13 22:42	1
4-Chlorotoluene	ND		1.0	0.84	ug/L			05/22/13 22:42	1
4-Isopropyltoluene	ND		1.0	0.31	ug/L			05/22/13 22:42	1
4-Methyl-2-pentanone (MIBK)	ND		10	2.1	ug/L			05/22/13 22:42	1
Acetone	ND		50	3.0	ug/L			05/22/13 22:42	1
Benzene	ND		1.0	0.41	ug/L			05/22/13 22:42	1
Bromobenzene	ND		1.0	0.80	ug/L			05/22/13 22:42	1
Bromoform	ND		1.0	0.26	ug/L			05/22/13 22:42	1
Bromomethane	ND		2.0	0.69	ug/L			05/22/13 22:42	1
Carbon disulfide	ND		10	0.19	ug/L			05/22/13 22:42	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			05/22/13 22:42	1
Chlorobenzene	ND		1.0	0.75	ug/L			05/22/13 22:42	1
Chlorobromomethane	ND		1.0	0.87	ug/L			05/22/13 22:42	1
Chlorodibromomethane	ND		0.50	0.32	ug/L			05/22/13 22:42	1
Chloroethane	ND		2.0	0.32	ug/L			05/22/13 22:42	1
Chloroform	ND		1.0	0.34	ug/L			05/22/13 22:42	1
Chloromethane	ND		2.0	0.35	ug/L			05/22/13 22:42	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			05/22/13 22:42	1
cis-1,3-Dichloropropene	ND		0.40	0.36	ug/L			05/22/13 22:42	1
Dichlorobromomethane	ND		0.50	0.39	ug/L			05/22/13 22:42	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			05/22/13 22:42	1
Ethyl ether	ND		1.0	0.72	ug/L			05/22/13 22:42	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/22/13 22:42	1
Ethylene Dibromide	ND		1.0	0.73	ug/L			05/22/13 22:42	1
Hexachlorobutadiene	ND		0.40	0.28	ug/L			05/22/13 22:42	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-120103/9
Matrix: Water
Analysis Batch: 120103

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropyl ether	ND		10	0.59	ug/L			05/22/13 22:42	1
Isopropylbenzene	ND		1.0	0.79	ug/L			05/22/13 22:42	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/22/13 22:42	1
Methylene Chloride	ND		1.0	0.44	ug/L			05/22/13 22:42	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			05/22/13 22:42	1
Naphthalene	ND		5.0	0.43	ug/L			05/22/13 22:42	1
n-Butylbenzene	ND		1.0	0.64	ug/L			05/22/13 22:42	1
N-Propylbenzene	ND		1.0	0.69	ug/L			05/22/13 22:42	1
o-Xylene	ND		1.0	0.76	ug/L			05/22/13 22:42	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			05/22/13 22:42	1
Styrene	ND		1.0	0.73	ug/L			05/22/13 22:42	1
Tert-amyl methyl ether	ND		5.0	0.27	ug/L			05/22/13 22:42	1
Tert-butyl ethyl ether	ND		5.0	0.29	ug/L			05/22/13 22:42	1
tert-Butylbenzene	ND		1.0	0.81	ug/L			05/22/13 22:42	1
Tetrachloroethene	ND		1.0	0.36	ug/L			05/22/13 22:42	1
Tetrahydrofuran	ND		10	1.3	ug/L			05/22/13 22:42	1
Toluene	ND		1.0	0.51	ug/L			05/22/13 22:42	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			05/22/13 22:42	1
trans-1,3-Dichloropropene	ND		0.40	0.37	ug/L			05/22/13 22:42	1
Trichloroethene	ND		1.0	0.46	ug/L			05/22/13 22:42	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			05/22/13 22:42	1
Vinyl chloride	ND		1.0	0.90	ug/L			05/22/13 22:42	1
Dibromomethane	ND		1.0	0.41	ug/L			05/22/13 22:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*70 - 130*		*05/22/13 22:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*82*		*70 - 130*		*05/22/13 22:42*	*1*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*		*05/22/13 22:42*	*1*

Lab Sample ID: LCS 480-120103/6
Matrix: Water
Analysis Batch: 120103

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	28.5		ug/L		114	70 - 130
1,1,1-Trichloroethane	25.0	25.2		ug/L		101	70 - 130
1,1,2,2-Tetrachloroethane	25.0	23.8		ug/L		95	70 - 130
1,1,2-Trichloroethane	25.0	24.6		ug/L		98	70 - 130
1,1-Dichloroethane	25.0	22.8		ug/L		91	70 - 130
1,1-Dichloroethene	25.0	29.8		ug/L		119	70 - 130
1,1-Dichloropropene	25.0	24.4		ug/L		98	70 - 130
1,2,3-Trichlorobenzene	25.0	25.5		ug/L		102	70 - 130
1,2,3-Trichloropropane	25.0	24.1		ug/L		96	70 - 130
1,2,4-Trichlorobenzene	25.0	26.9		ug/L		108	70 - 130
1,2,4-Trimethylbenzene	25.0	24.0		ug/L		96	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	20.6		ug/L		83	70 - 130
1,2-Dichlorobenzene	25.0	26.5		ug/L		106	70 - 130
1,2-Dichloroethane	25.0	21.4		ug/L		86	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-120103/6
Matrix: Water
Analysis Batch: 120103

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	25.0	22.8		ug/L		91	70 - 130
1,3,5-Trimethylbenzene	25.0	24.6		ug/L		99	70 - 130
1,3-Dichlorobenzene	25.0	26.0		ug/L		104	70 - 130
1,3-Dichloropropane	25.0	23.6		ug/L		94	70 - 130
1,4-Dichlorobenzene	25.0	25.8		ug/L		103	70 - 130
1,4-Dioxane	1000	798		ug/L		80	70 - 130
2,2-Dichloropropane	25.0	22.2		ug/L		89	70 - 130
2-Butanone (MEK)	125	127		ug/L		102	70 - 130
2-Chlorotoluene	25.0	26.5		ug/L		106	70 - 130
2-Hexanone	125	87.7		ug/L		70	70 - 130
4-Chlorotoluene	25.0	23.4		ug/L		94	70 - 130
4-Isopropyltoluene	25.0	25.9		ug/L		103	70 - 130
4-Methyl-2-pentanone (MIBK)	125	86.9		ug/L		70	70 - 130
Acetone	125	87.2		ug/L		70	70 - 130
Benzene	25.0	25.3		ug/L		101	70 - 130
Bromobenzene	25.0	27.5		ug/L		110	70 - 130
Bromoform	25.0	27.0		ug/L		108	70 - 130
Bromomethane	25.0	27.3		ug/L		109	70 - 130
Carbon disulfide	25.0	25.6		ug/L		102	70 - 130
Carbon tetrachloride	25.0	31.0		ug/L		124	70 - 130
Chlorobenzene	25.0	27.0		ug/L		108	70 - 130
Chlorobromomethane	25.0	27.9		ug/L		112	70 - 130
Chlorodibromomethane	25.0	25.7		ug/L		103	70 - 130
Chloroethane	25.0	26.8		ug/L		107	70 - 130
Chloroform	25.0	23.8		ug/L		95	70 - 130
Chloromethane	25.0	19.8		ug/L		79	70 - 130
cis-1,2-Dichloroethene	25.0	26.2		ug/L		105	70 - 130
cis-1,3-Dichloropropene	25.0	24.5		ug/L		98	70 - 130
Dichlorobromomethane	25.0	26.0		ug/L		104	70 - 130
Dichlorodifluoromethane	50.0	50.3		ug/L		101	70 - 130
Ethyl ether	25.0	23.2		ug/L		93	70 - 130
Ethylbenzene	25.0	25.5		ug/L		102	70 - 130
Ethylene Dibromide	25.0	26.2		ug/L		105	70 - 130
Hexachlorobutadiene	25.0	24.5		ug/L		98	70 - 130
Isopropyl ether	25.0	18.8		ug/L		75	70 - 130
Isopropylbenzene	25.0	24.5		ug/L		98	70 - 130
Methyl tert-butyl ether	25.0	24.7		ug/L		99	70 - 130
Methylene Chloride	25.0	25.3		ug/L		101	70 - 130
m-Xylene & p-Xylene	50.0	53.0		ug/L		106	70 - 130
Naphthalene	25.0	25.3		ug/L		101	70 - 130
n-Butylbenzene	25.0	23.9		ug/L		96	70 - 130
N-Propylbenzene	25.0	24.2		ug/L		97	70 - 130
o-Xylene	25.0	25.9		ug/L		104	70 - 130
sec-Butylbenzene	25.0	24.6		ug/L		98	70 - 130
Styrene	25.0	25.9		ug/L		104	70 - 130
Tert-amyl methyl ether	25.0	23.6		ug/L		94	70 - 130
Tert-butyl ethyl ether	25.0	20.4		ug/L		82	70 - 130
tert-Butylbenzene	25.0	26.8		ug/L		107	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-120103/6
Matrix: Water
Analysis Batch: 120103

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethene	25.0	30.3		ug/L		121	70 - 130
Tetrahydrofuran	125	86.7	*	ug/L		69	70 - 130
Toluene	25.0	25.2		ug/L		101	70 - 130
trans-1,2-Dichloroethene	25.0	26.0		ug/L		104	70 - 130
trans-1,3-Dichloropropene	25.0	22.7		ug/L		91	70 - 130
Trichloroethene	25.0	26.3		ug/L		105	70 - 130
Trichlorofluoromethane	25.0	29.1		ug/L		116	70 - 130
Vinyl chloride	25.0	23.8		ug/L		95	70 - 130
Dibromomethane	25.0	25.9		ug/L		103	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*95*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*81*		*70 - 130*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*

Lab Sample ID: LCSD 480-120103/7
Matrix: Water
Analysis Batch: 120103

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	25.0	28.8		ug/L		115	70 - 130	1	20
1,1,1-Trichloroethane	25.0	24.5		ug/L		98	70 - 130	3	20
1,1,2,2-Tetrachloroethane	25.0	23.8		ug/L		95	70 - 130	0	20
1,1,2-Trichloroethane	25.0	24.8		ug/L		99	70 - 130	1	20
1,1-Dichloroethane	25.0	21.7		ug/L		87	70 - 130	5	20
1,1-Dichloroethene	25.0	27.4		ug/L		110	70 - 130	8	20
1,1-Dichloropropene	25.0	23.5		ug/L		94	70 - 130	4	20
1,2,3-Trichlorobenzene	25.0	25.9		ug/L		104	70 - 130	1	20
1,2,3-Trichloropropane	25.0	23.9		ug/L		95	70 - 130	1	20
1,2,4-Trichlorobenzene	25.0	26.4		ug/L		106	70 - 130	2	20
1,2,4-Trimethylbenzene	25.0	23.5		ug/L		94	70 - 130	2	20
1,2-Dibromo-3-Chloropropane	25.0	20.8		ug/L		83	70 - 130	1	20
1,2-Dichlorobenzene	25.0	26.4		ug/L		105	70 - 130	1	20
1,2-Dichloroethane	25.0	20.8		ug/L		83	70 - 130	3	20
1,2-Dichloropropane	25.0	21.9		ug/L		88	70 - 130	4	20
1,3,5-Trimethylbenzene	25.0	24.1		ug/L		96	70 - 130	2	20
1,3-Dichlorobenzene	25.0	26.5		ug/L		106	70 - 130	2	20
1,3-Dichloropropane	25.0	23.9		ug/L		96	70 - 130	1	20
1,4-Dichlorobenzene	25.0	25.4		ug/L		102	70 - 130	2	20
1,4-Dioxane	1000	803		ug/L		80	70 - 130	1	20
2,2-Dichloropropane	25.0	21.0		ug/L		84	70 - 130	6	20
2-Butanone (MEK)	125	124		ug/L		99	70 - 130	3	20
2-Chlorotoluene	25.0	25.7		ug/L		103	70 - 130	3	20
2-Hexanone	125	87.3		ug/L		70	70 - 130	0	20
4-Chlorotoluene	25.0	22.9		ug/L		92	70 - 130	2	20
4-Isopropyltoluene	25.0	25.4		ug/L		101	70 - 130	2	20
4-Methyl-2-pentanone (MIBK)	125	85.9	*	ug/L		69	70 - 130	1	20
Acetone	125	83.0	*	ug/L		66	70 - 130	5	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-120103/7
Matrix: Water
Analysis Batch: 120103

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	25.0	24.3		ug/L		97	70 - 130	4	20
Bromobenzene	25.0	26.4		ug/L		106	70 - 130	4	20
Bromoform	25.0	27.3		ug/L		109	70 - 130	1	20
Bromomethane	25.0	26.8		ug/L		107	70 - 130	2	20
Carbon disulfide	25.0	23.9		ug/L		96	70 - 130	7	20
Carbon tetrachloride	25.0	29.0		ug/L		116	70 - 130	7	20
Chlorobenzene	25.0	26.8		ug/L		107	70 - 130	1	20
Chlorobromomethane	25.0	26.9		ug/L		108	70 - 130	4	20
Chlorodibromomethane	25.0	25.3		ug/L		101	70 - 130	2	20
Chloroethane	25.0	25.4		ug/L		101	70 - 130	6	20
Chloroform	25.0	23.0		ug/L		92	70 - 130	3	20
Chloromethane	25.0	18.5		ug/L		74	70 - 130	7	20
cis-1,2-Dichloroethene	25.0	26.0		ug/L		104	70 - 130	1	20
cis-1,3-Dichloropropene	25.0	23.6		ug/L		94	70 - 130	4	20
Dichlorobromomethane	25.0	24.6		ug/L		98	70 - 130	5	20
Dichlorodifluoromethane	50.0	48.1		ug/L		96	70 - 130	4	20
Ethyl ether	25.0	22.4		ug/L		90	70 - 130	4	20
Ethylbenzene	25.0	24.7		ug/L		99	70 - 130	3	20
Ethylene Dibromide	25.0	26.8		ug/L		107	70 - 130	2	20
Hexachlorobutadiene	25.0	23.4		ug/L		94	70 - 130	5	20
Isopropyl ether	25.0	18.4		ug/L		73	70 - 130	2	20
Isopropylbenzene	25.0	23.6		ug/L		94	70 - 130	4	20
Methyl tert-butyl ether	25.0	23.9		ug/L		95	70 - 130	3	20
Methylene Chloride	25.0	24.2		ug/L		97	70 - 130	4	20
m-Xylene & p-Xylene	50.0	52.8		ug/L		106	70 - 130	0	20
Naphthalene	25.0	25.3		ug/L		101	70 - 130	0	20
n-Butylbenzene	25.0	23.2		ug/L		93	70 - 130	3	20
N-Propylbenzene	25.0	23.4		ug/L		94	70 - 130	3	20
o-Xylene	25.0	25.5		ug/L		102	70 - 130	2	20
sec-Butylbenzene	25.0	23.9		ug/L		95	70 - 130	3	20
Styrene	25.0	25.8		ug/L		103	70 - 130	0	20
Tert-amyl methyl ether	25.0	23.2		ug/L		93	70 - 130	2	20
Tert-butyl ethyl ether	25.0	19.7		ug/L		79	70 - 130	4	20
tert-Butylbenzene	25.0	26.1		ug/L		105	70 - 130	2	20
Tetrachloroethene	25.0	29.5		ug/L		118	70 - 130	3	20
Tetrahydrofuran	125	85.8	*	ug/L		69	70 - 130	1	20
Toluene	25.0	25.3		ug/L		101	70 - 130	0	20
trans-1,2-Dichloroethene	25.0	24.6		ug/L		98	70 - 130	6	20
trans-1,3-Dichloropropene	25.0	23.1		ug/L		92	70 - 130	2	20
Trichloroethene	25.0	25.9		ug/L		104	70 - 130	2	20
Trichlorofluoromethane	25.0	27.6		ug/L		110	70 - 130	5	20
Vinyl chloride	25.0	22.1		ug/L		88	70 - 130	8	20
Dibromomethane	25.0	25.0		ug/L		100	70 - 130	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*96*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*81*		*70 - 130*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38608-1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Lab Sample ID: MB 200-55732/1-A
Matrix: Water
Analysis Batch: 55777

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 55732

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		05/20/13 11:42	05/21/13 10:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*98*		*70 - 130*	*05/20/13 11:42*	*05/21/13 10:33*	*1*

Lab Sample ID: LCS 200-55732/2-A
Matrix: Water
Analysis Batch: 55777

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 55732

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane			0.200	0.224		ug/L		112	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,4-Dioxane-d8 (Surr)	*99*		*70 - 130*

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38608-1

GC/MS VOA

Analysis Batch: 119548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-38608-1	7 Eldia Way	Total/NA	Water	524.2	
480-38608-5	275 Alston Ave.	Total/NA	Water	524.2	
480-38608-19	Trip Blank	Total/NA	Water	524.2	
480-38608-21	Trip Blank	Total/NA	Water	524.2	
LCS 480-119548/4	Lab Control Sample	Total/NA	Water	524.2	
MB 480-119548/5	Method Blank	Total/NA	Water	524.2	

Analysis Batch: 120103

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-38608-3	MW-21S	Total/NA	Water	8260C	
LCS 480-120103/6	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-120103/7	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 480-120103/9	Method Blank	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 55732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-38608-3	MW-21S	Total/NA	Water	3535A	
480-38608-5	275 Alston Ave.	Total/NA	Water	3535A	
480-38608-7	400 Schoolhouse Rd.	Total/NA	Water	3535A	
480-38608-9	40 Fairview Ave.	Total/NA	Water	3535A	
480-38608-11	45 Chokeberry Dr.	Total/NA	Water	3535A	
480-38608-13	3 Whidah Ln.	Total/NA	Water	3535A	
480-38608-15	Community Well	Total/NA	Water	3535A	
480-38608-17	10 Sharon Circle	Total/NA	Water	3535A	
480-38608-20	Trip Blank	Total/NA	Water	3535A	
LCS 200-55732/2-A	Lab Control Sample	Total/NA	Water	3535A	
MB 200-55732/1-A	Method Blank	Total/NA	Water	3535A	

Analysis Batch: 55777

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-38608-3	MW-21S	Total/NA	Water	522 MOD	55732
480-38608-5	275 Alston Ave.	Total/NA	Water	522 MOD	55732
480-38608-7	400 Schoolhouse Rd.	Total/NA	Water	522 MOD	55732
480-38608-9	40 Fairview Ave.	Total/NA	Water	522 MOD	55732
480-38608-11	45 Chokeberry Dr.	Total/NA	Water	522 MOD	55732
480-38608-13	3 Whidah Ln.	Total/NA	Water	522 MOD	55732
480-38608-15	Community Well	Total/NA	Water	522 MOD	55732
480-38608-17	10 Sharon Circle	Total/NA	Water	522 MOD	55732
480-38608-20	Trip Blank	Total/NA	Water	522 MOD	55732
LCS 200-55732/2-A	Lab Control Sample	Total/NA	Water	522 MOD	55732
MB 200-55732/1-A	Method Blank	Total/NA	Water	522 MOD	55732

Lab Chronicle

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38608-1

Client Sample ID: 7 Eldia Way — Lab Sample ID: 480-38608-1

Date Collected: 05/10/13 09:35 — **Matrix: Water**
Date Received: 05/18/13 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	119548	05/20/13 18:40	TRB	TAL BUF

Client Sample ID: MW-21S — Lab Sample ID: 480-38608-3

Date Collected: 05/16/13 09:30 — **Matrix: Water**
Date Received: 05/18/13 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	120103	05/22/13 23:17	LH	TAL BUF
Total/NA	Prep	3535A			55732	05/20/13 11:42	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55777	05/21/13 15:26	RJH	TAL BUR

Client Sample ID: 275 Alston Ave. — Lab Sample ID: 480-38608-5

Date Collected: 05/16/13 10:25 — **Matrix: Water**
Date Received: 05/18/13 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	119548	05/20/13 19:05	TRB	TAL BUF
Total/NA	Prep	3535A			55732	05/20/13 11:42	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55777	05/21/13 15:50	RJH	TAL BUR

Client Sample ID: 400 Schoolhouse Rd. — Lab Sample ID: 480-38608-7

Date Collected: 05/16/13 11:15 — **Matrix: Water**
Date Received: 05/18/13 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535A			55732	05/20/13 11:42	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55777	05/21/13 16:13	RJH	TAL BUR

Client Sample ID: 40 Fairview Ave. — Lab Sample ID: 480-38608-9

Date Collected: 05/16/13 11:45 — **Matrix: Water**
Date Received: 05/18/13 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535A			55732	05/20/13 11:42	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55777	05/21/13 16:36	RJH	TAL BUR

Client Sample ID: 45 Chokeberry Dr. — Lab Sample ID: 480-38608-11

Date Collected: 05/16/13 12:15 — **Matrix: Water**
Date Received: 05/18/13 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535A			55732	05/20/13 11:42	JAB	TAL BUR

Lab Chronicle

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38608-1

Client Sample ID: 45 Chokeberry Dr.

Lab Sample ID: 480-38608-11

Date Collected: 05/16/13 12:15

Matrix: Water

Date Received: 05/18/13 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	522 MOD		1	55777	05/21/13 16:59	RJH	TAL BUR

Client Sample ID: 3 Whidah Ln.

Lab Sample ID: 480-38608-13

Date Collected: 05/16/13 12:50

Matrix: Water

Date Received: 05/18/13 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535A			55732	05/20/13 11:42	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55777	05/21/13 17:21	RJH	TAL BUR

Client Sample ID: Community Well

Lab Sample ID: 480-38608-15

Date Collected: 05/16/13 13:35

Matrix: Water

Date Received: 05/18/13 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535A			55732	05/20/13 11:42	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55777	05/21/13 17:44	RJH	TAL BUR

Client Sample ID: 10 Sharon Circle

Lab Sample ID: 480-38608-17

Date Collected: 05/16/13 14:15

Matrix: Water

Date Received: 05/18/13 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535A			55732	05/20/13 11:42	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55777	05/21/13 18:07	RJH	TAL BUR

Client Sample ID: Trip Blank

Lab Sample ID: 480-38608-19

Date Collected: 05/10/13 08:05

Matrix: Water

Date Received: 05/18/13 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	119548	05/20/13 19:30	TRB	TAL BUF

Client Sample ID: Trip Blank

Lab Sample ID: 480-38608-20

Date Collected: 05/14/13 00:00

Matrix: Water

Date Received: 05/18/13 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535A			55732	05/20/13 11:42	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	55777	05/21/13 18:30	RJH	TAL BUR

Lab Chronicle

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38608-1

Client Sample ID: Trip Blank
Date Collected: 05/16/13 08:05
Date Received: 05/18/13 06:30

Lab Sample ID: 480-38608-21
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	119548	05/20/13 19:55	TRB	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Certification Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38608-1

Laboratory: TestAmerica Buffalo

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-13
California	NELAP	9	1169CA	09-30-13
Connecticut	State Program	1	PH-0568	09-30-14
Florida	NELAP	4	E87672	06-30-13
Georgia	State Program	4	N/A	03-31-14
Georgia	State Program	4	956	06-30-13
Georgia	State Program	4	956	03-31-14
Illinois	NELAP	5	200003	09-30-13
Iowa	State Program	7	374	03-15-15
Kansas	NELAP	7	E-10187	01-31-14
Kentucky	State Program	4	90029	12-31-13
Kentucky (UST)	State Program	4	30	04-01-14
Louisiana	NELAP	6	02031	06-30-13
Maine	State Program	1	NY00044	12-04-13
Maryland	State Program	3	294	03-31-14
Massachusetts	State Program	1	M-NY044	06-30-13
Michigan	State Program	5	9937	04-01-13 *
Minnesota	NELAP	5	036-999-337	12-31-13
New Hampshire	NELAP	1	2973	09-11-13
New Hampshire	NELAP	1	2337	11-17-13
New Jersey	NELAP	2	NY455	06-30-13
New York	NELAP	2	10026	04-01-14
North Dakota	State Program	8	R-176	03-31-14
Oklahoma	State Program	6	9421	08-31-13
Oregon	NELAP	10	NY200003	06-09-13
Pennsylvania	NELAP	3	68-00281	07-31-13
Rhode Island	State Program	1	LAO00328	12-31-13
Tennessee	State Program	4	TN02970	04-01-14
Texas	NELAP	6	T104704412-11-2	07-31-13
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAP	3	460185	09-14-13
Washington	State Program	10	C784	02-10-14
West Virginia DEP	State Program	3	252	09-30-13
Wisconsin	State Program	5	998310390	08-31-13

Laboratory: TestAmerica Burlington

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Connecticut	State Program	1	PH-0751	09-30-13
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-13-15
Florida	NELAP	4	E87467	06-30-13
L-A-B	DoD ELAP		L2336	10-26-13
Louisiana	NELAP	6	176292	06-30-13
Minnesota	NELAP	5	050-999-436	12-31-13
New Hampshire	NELAP	1	2006	12-18-13
New Jersey	NELAP	2	VT972	06-30-13
New York	NELAP	2	10391	04-01-14
Pennsylvania	NELAP	3	68-00489	04-30-14
USDA	Federal		P330-11-00093	02-17-14

* Expired certification is currently pending renewal and is considered valid.

Certification Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38608-1

Laboratory: TestAmerica Burlington (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Vermont	State Program	1	VT-4000	12-31-13
Virginia	NELAP	3	460209	12-14-13

Method Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38608-1

Method	Method Description	Protocol	Laboratory
524.2	Volatile Organic Compounds (GC/MS)	EPA-DW	TAL BUF
8260C	Volatile Organic Compounds (GC/MS)	MA DEP	TAL BUF
522 MOD	1,4 Dioxane (GC/MS SIM)	EPA	TAL BUR

Protocol References:

EPA = US Environmental Protection Agency

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

MA DEP = Massachusetts Department Of Environmental Protection

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38608-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-38608-1	7 Eldia Way	Water	05/10/13 09:35	05/18/13 06:30
480-38608-3	MW-21S	Water	05/16/13 09:30	05/18/13 06:30
480-38608-5	275 Alston Ave.	Water	05/16/13 10:25	05/18/13 06:30
480-38608-7	400 Schoolhouse Rd.	Water	05/16/13 11:15	05/18/13 06:30
480-38608-9	40 Fairview Ave.	Water	05/16/13 11:45	05/18/13 06:30
480-38608-11	45 Chokeberry Dr.	Water	05/16/13 12:15	05/18/13 06:30
480-38608-13	3 Whidah Ln.	Water	05/16/13 12:50	05/18/13 06:30
480-38608-15	Community Well	Water	05/16/13 13:35	05/18/13 06:30
480-38608-17	10 Sharon Circle	Water	05/16/13 14:15	05/18/13 06:30
480-38608-19	Trip Blank	Water	05/10/13 08:05	05/18/13 06:30
480-38608-20	Trip Blank	Water	05/14/13 00:00	05/18/13 06:30
480-38608-21	Trip Blank	Water	05/16/13 08:05	05/18/13 06:30

TestAmerica Westfield
53 Southampton Road

Westfield, MA 01085
phone 413.572.4000 fax 413.572.3707

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other: **MA MCP**

TestAmerica Laboratories, Inc.

Client Contact	**Project Manager: David Bennett**	**Site Contact:**	**Date:**	COC No:
Bennett Environmental Associates, Inc.	**Tel/Fax: 508-896-1706**	**Lab Contact:**	**Carrier:**	1 of 2 COCs
Address 1573 Main St. / P.O. Box 1743	**Analysis Turnaround Time**			**For Lab Use Only:**
City/State/Zip Brewster, MA 02631	Calendar (C) or Work Days (W) C			Walk-in Client:
508-896-1706 Phone	TAT if different from Below			Lab Sampling:
508-896-5109 FAX	☑ 2 weeks			
Project Name: Eastham Landfill	☐ 1 week			Job / SDG No.:
Site: Town of Eastham	☐ 2 days			
P O # BEA09-10104	☐ 1 day			Sampler: JTW

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample (Y / N)	Composite = C / Grab = G	VOCs via 524.2	1,4-Dioxane via 522.1 Mod	VOCs via 8260	Sample Specific Notes:
7 Eldia Way	5/10/2013	9:35 AM	G	W	3	N	G	3			
7 Eldia Way Duplicate	5/10/2013	9:35 AM	G	W	3	N	G	3			
MW-21S	5/16/2013	9:30 am	G	W	5	N	G		2	3	
~~MW-21S Duplicate~~	~~5/16/2013~~	~~9:30 am~~	~~G~~	~~W~~	~~4~~	~~N~~	~~G~~		~~1~~	~~3~~	
275 Alston Ave.	5/16/2013	10:25 am	G	W	5	N	G	3	2		
275 Alston Ave. Duplicate	5/16/2013	10:25 am	G	W	4	N	G	3	1		
400 Schoolhouse Rd.	5/16/2013	11:15 am	G	W	2	N	G		2		
400 Schoolhouse Rd. Duplicate	5/16/2013	11:15 am	G	W	1	N	G		1		
40 Fairview Ave.	5/16/2013	11:45 am	G	W	2	N	G		2		
40 Fairview Ave. Duplicate	5/16/2013	11:45 am	G	W	1	N	G		1		
45 Chokeberry Dr.	5/16/2013	12:15 pm	G	W	2	N	G		2		
45 Chokeberry Dr. Duplicate	5/16/2013	12:15 pm	G	W	1	N	G		1		
								1,2	1,2		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments: Please email results to dbennett@bennett-ea.com

Relinquished by:	Company: BEA	Date/Time: 5/16/13 1000	Received by:	Company:	Date/Time:
Relinquished by:	Company: BEA	Date/Time: 5/17/13 1000	Received by:	Company: TA	Date/Time: 5.17.13 1000
Relinquished by:	Company:	Date/Time: 5/17/13 1300	Received in Laboratory by:	Company: TA Bx42	Date/Time: 5.18.13 0630

Form No. CA-C-WI-002, Rev. 4, dated 10/25/2012

2 of #1

TestAmerica Westfield
53 Southampton Road

Westfield, MA 01085
phone 413.572.4000 fax 413.572.3707

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other: **MA MCP**

Client Contact	**Project Manager: David Bennett**	**Site Contact:**	**Date:**	COC No:
Bennett Environmental Associates, Inc.	**Tel/Fax: 508-896-1706**	**Lab Contact:**	**Carrier:**	2 of 2 COCs
Address 1573 Main St. / P.O. Box 1743	**Analysis Turnaround Time**			**For Lab Use Only:**
City/State/Zip Brewster, MA 02631	Calendar (C) or Work Days (W) C			Walk-in Client:
508-896-1706 Phone	TAT if different from Below			Lab Sampling:
508-896-5109 FAX	☑ 2 weeks			
Project Name: Eastham Landfill	☐ 1 week			Job / SDG No.:
Site: Town of Eastham	☐ 2 days			
P O # BEA09-10104	☐ 1 day			Sampler: JTW

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample (Y / N)	Composite = C / Grab = G	VOCs via 524.2	1,4-Dioxane via 522.1 Mod	Sample Specific Notes:
3 Whidah Ln.	5/16/2013	12:50 PM	G	W	2	N	G		2	
3 Whidah Ln. Duplicate	5/16/2013	12:50 PM	G	W	1	N	G		1	
Community Well	5/16/2013	1:35 pm	G	W	2	N	G		2	
Community Well Duplicate	5/16/2013	1:35 pm	G	W	1	N	G		1	
10 Sharon Circle	5/16/2013	2:15 PM	G	W	2	N	G		2	
10 Sharon Circle	5/16/2013	2:15 PM	G	W	1	N	G		1	
Trip Blank	5/10/2013	8:05 AM	G	W	3	N	G	3		
Trip Blank	5/14/2013		G	W	2	N	G		2	From Lab
Trip Blank	5/16/2013	8:05 AM	G	W	3	N	G	3		
								JJ 8/17/13		
								1,2	1,2	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments: Please email results to dbennett@bennett-ea.com

Relinquished by:	Company: BEA	Date/Time: 5/16/13 4:00	Received by:	Company:	Date/Time:
Relinquished by:	Company: BEA	Date/Time: 5/17/13	Received by:	Company: TA	Date/Time: 5/17/13 1000
Relinquished by:	Company:	Date/Time: 5/17/13 1301	Received in Laboratory by:	Company: TA Boston	Date/Time: 5/18/13 0830

Form No. CA-C-WI-002, Rev. 4, dated 10/25/2012

2 of #1

Login Sample Receipt Checklist

Client: Bennett Environmental Associates, Inc.

Job Number: 480-38608-1

Login Number: 38608

List Source: TestAmerica Buffalo

List Number: 1

Creator: Janish, Carl

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	bea
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

Login Sample Receipt Checklist

Client: Bennett Environmental Associates, Inc.

Job Number: 480-38608-1

Login Number: 38608
List Number: 1
Creator: Poucher, Stephanie A

List Source: TestAmerica Burlington
List Creation: 05/20/13 10:04 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	Not present
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.4ºC IR GUN ID 181. CF 0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.

						Sample ID	7 Eldia Way	MW-21S	275 Alston Ave.	400 Schoolhouse Rd.	40 Fairview Ave.	45 Chokeberry Dr.	3 Whidah Ln.	Community Well	10 Sharon Circle	Trip Blank	Trip Blank	Trip Blank
						Sampled By												
						Sample Collection Date	05/10/2013 09:35	05/16/2013 09:30	05/16/2013 10:25	05/16/2013 11:15	05/16/2013 11:45	05/16/2013 12:15	05/16/2013 12:50	05/16/2013 13:35	05/16/2013 14:15	05/10/2013 08:05	05/14/2013 00:00	05/16/2013 08:05
						Laboratory Order Number	480-38608-1	480-38608-3	480-38608-5	480-38608-7	480-38608-9	480-38608-11	480-38608-13	480-38608-15	480-38608-17	480-38608-19	480-38608-20	480-38608-21
Parameter	**Reporting Units**	**GW1**	**GW2**	**RCGW1**	**RCGW2**	**DW MMCL**												
Volatiles by 524.2																		
1,1,1,2-Tetrachloroethane	ug/l	5	10	5	10	NA	< 0.50		< 0.50							< 0.50		< 0.50
1,1,1-Trichloroethane	ug/l	200	4000	200	4000	200	< 0.50		< 0.50							< 0.50		< 0.50
1,1,2,2-Tetrachloroethane	ug/l	2	9	2	9	NA	< 0.50		< 0.50							< 0.50		< 0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/l	NA	NA	NA	NA	NA	< 0.50		< 0.50							< 0.50		< 0.50
1,1,2-Trichloroethane	ug/l	5	900	5	900	5	< 0.50		< 0.50							< 0.50		< 0.50
1,1-Dichloroethane	ug/l	70	1000	70	1000	NA	< 0.50		< 0.50							< 0.50		< 0.50
1,1-Dichloroethene	ug/l	7	80	7	80	7	< 0.50		< 0.50							< 0.50		< 0.50
1,1-Dichloropropene	ug/l	NA	NA	NA	NA	NA	< 0.50		< 0.50							< 0.50		< 0.50
1,2,3-Trichlorobenzene	ug/l	NA	NA	NA	NA	NA	< 0.50		< 0.50							< 0.50		< 0.50
1,2,3-Trichloropropane	ug/l	NA	NA	1000	10000	NA	< 0.50		< 0.50							< 0.50		< 0.50
1,2,4-Trichlorobenzene	ug/l	70	2000	70	2000	70	< 0.50		< 0.50							< 0.50		< 0.50
1,2,4-Trimethylbenzene	ug/l	NA	NA	10000	100000	NA	< 0.50		< 0.50							< 0.50		< 0.50
1,2-Dibromo-3-Chloropropane	ug/l	NA	NA	100	1000	0.2	**< 0.50**		**< 0.50**							**< 0.50**		**< 0.50**
1,2-Dibromoethane	ug/l	0.02	2	0.02	2	0.02	**< 0.50**		**< 0.50**							**< 0.50**		**< 0.50**
1,2-Dichlorobenzene	ug/l	600	2000	600	2000	600	< 0.50		< 0.50							< 0.50		< 0.50
1,2-Dichloroethane	ug/l	5	5	5	5	5	< 0.50		< 0.50							< 0.50		< 0.50
1,2-Dichloropropane	ug/l	5	3	3	3	5	< 0.50		< 0.50							< 0.50		< 0.50
1,3,5-Trimethylbenzene	ug/l	NA	NA	100	1000	NA	< 0.50		< 0.50							< 0.50		< 0.50
1,3-Dichlorobenzene	ug/l	40	2000	40	2000	NA	< 0.50		< 0.50							< 0.50		< 0.50
1,3-Dichloropropane	ug/l	NA	NA	5000	50000	NA	< 0.50		< 0.50							< 0.50		< 0.50
1,4-Dichlorobenzene	ug/l	5	200	5	200	5	< 0.50		< 0.50							< 0.50		< 0.50
2,2-Dichloropropane	ug/l	NA	NA	NA	NA	NA	< 0.50		< 0.50							< 0.50		< 0.50
2-Butanone (MEK)	ug/l	4000	50000	4000	50000	NA	< 2.5		< 2.5							< 2.5		< 2.5
2-Chlorotoluene	ug/l	NA	NA	1000	10000	NA	< 0.50		< 0.50							< 0.50		< 0.50
4-Chlorotoluene	ug/l	NA	NA	NA	NA	NA	< 0.50		< 0.50							< 0.50		< 0.50
4-Isopropyltoluene	ug/l	NA	NA	1000	10000	NA	< 0.50		< 0.50							< 0.50		< 0.50
4-Methyl-2-pentanone (MIBK)	ug/l	350	50000	350	50000	NA	< 2.5		< 2.5							< 2.5		< 2.5
Acetone	ug/l	6300	50000	6300	50000	NA	< 2.5		0.56J							4.0		5.0
Benzene	ug/l	5	2000	5	2000	5	< 0.50		< 0.50							< 0.50		< 0.50
Bromobenzene	ug/l	NA	NA	1000	10000	NA	< 0.50		< 0.50							< 0.50		< 0.50
Bromochloromethane	ug/l	NA	NA	NA	NA	NA	< 0.50		< 0.50							< 0.50		< 0.50
Bromoform	ug/l	4	700	4	700	NA	< 0.50		< 0.50							< 0.50		< 0.50
Bromomethane	ug/l	10	7	7	7	NA	< 0.50		< 0.50							< 0.50		< 0.50
Carbon tetrachloride	ug/l	5	2	2	2	5	< 0.50		< 0.50							< 0.50		< 0.50
Chlorobenzene	ug/l	100	200	100	200	100	< 0.50		< 0.50							< 0.50		< 0.50
Chlorodibromomethane	ug/l	2	20	2	20	NA	< 0.50		< 0.50							< 0.50		< 0.50
Chloroethane	ug/l	NA	NA	1000	10000	NA	< 0.50		< 0.50							< 0.50		< 0.50
Chloroform	ug/l	70	50	50	50	NA	0.14J		0.75							< 0.50		< 0.50
Chloromethane	ug/l	NA	NA	1000	10000	NA	< 0.50		< 0.50							< 0.50		< 0.50
cis-1,2-Dichloroethene	ug/l	70	100	70	100	NA	< 0.50		< 0.50							< 0.50		< 0.50
cis-1,3-Dichloropropene	ug/l	NA	NA	0.5	5	NA	< 0.50		< 0.50							< 0.50		< 0.50
Dibromomethane	ug/l	NA	NA	5000	50000	NA	< 0.50		< 0.50							< 0.50		< 0.50
Dichlorobromomethane	ug/l	3	6	3	6	NA	< 0.50		< 0.50							< 0.50		< 0.50
Dichlorodifluoromethane	ug/l	NA	NA	10000	100000	NA	< 0.50		< 0.50							< 0.50		< 0.50
Ethylbenzene	ug/l	700	20000	700	5000	700	< 0.50		< 0.50							< 0.50		< 0.50
Hexachlorobutadiene	ug/l	0.6	1	0.6	1	NA	< 0.50		< 0.50							< 0.50		< 0.50
Isopropylbenzene	ug/l	NA	NA	10000	100000	NA	< 0.50		< 0.50							< 0.50		< 0.50
Methyl tert-butyl ether	ug/l	70	50000	70	5000	NA	< 0.50		< 0.50							< 0.50		< 0.50
Methylene Chloride	ug/l	5	10000	5	10000	5	< 0.50		< 0.50							< 0.50		< 0.50
m-Xylene & p-Xylene	ug/l	10000	9000	5000	5000	NA	< 1.0		< 1.0							< 1.0		< 1.0
Naphthalene	ug/l	140	1000	140	1000	NA	< 0.50		< 0.50							< 0.50		< 0.50
n-Butylbenzene	ug/l	NA	NA	NA	NA	NA	< 0.50		< 0.50							< 0.50		< 0.50
N-Propylbenzene	ug/l	NA	NA	1000	10000	NA	< 0.50		< 0.50							< 0.50		< 0.50
o-Xylene	ug/l	10000	9000	5000	5000	NA	< 0.50		< 0.50							< 0.50		< 0.50
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	< 0.50		< 0.50							< 0.50		< 0.50
Styrene	ug/l	100	100	100	100	100	< 0.50		< 0.50							< 0.50		< 0.50
t-Butanol	ug/l	NA	NA	NA	NA	NA	< 10		< 10							< 10		< 10
tert-Butylbenzene	ug/l	NA	NA	1000	10000	NA	< 0.50		< 0.50							< 0.50		< 0.50
Tetrachloroethene	ug/l	5	50	5	50	5	< 0.50		< 0.50							< 0.50		< 0.50
Toluene	ug/l	1000	50000	1000	40000	1000	< 0.50		< 0.50							< 0.50		< 0.50
trans-1,2-Dichloroethene	ug/l	100	90	90	90	100	< 0.50		< 0.50							< 0.50		< 0.50
trans-1,3-Dichloropropene	ug/l	NA	NA	0.5	5	NA	< 0.50		< 0.50							< 0.50		< 0.50
Trichloroethene	ug/l	5	30	5	30	5	< 0.50		< 0.50							< 0.50		< 0.50
Trichlorofluoromethane	ug/l	NA	NA	10000	100000	NA	< 0.50		< 0.50							< 0.50		< 0.50
Trihalomethanes, Total	ug/l	NA	NA	NA	NA	NA	< 2.0		< 2.0							< 2.0		< 2.0
Vinyl chloride	ug/l	2	2	2	2	2	< 0.50		< 0.50							< 0.50		< 0.50
Xylenes, Total	ug/l	10000	9000	5000	5000	NA	< 1.0		< 1.0							< 1.0		< 1.0
Volatiles by 8260C																		
1,1,1,2-Tetrachloroethane	ug/l	5	10	5	10	NA		< 1.0										
1,1,1-Trichloroethane	ug/l	200	4000	200	4000	200		< 1.0										
1,1,2,2-Tetrachloroethane	ug/l	2	9	2	9	NA		< 0.50										
1,1,2-Trichloroethane	ug/l	5	900	5	900	5		< 1.0										
1,1-Dichloroethane	ug/l	70	1000	70	1000	NA		< 1.0										
1,1-Dichloroethene	ug/l	7	80	7	80	7		< 1.0										
1,1-Dichloropropene	ug/l	NA	NA	NA	NA	NA		< 1.0										
1,2,3-Trichlorobenzene	ug/l	NA	NA	NA	NA	NA		< 1.0										
1,2,3-Trichloropropane	ug/l	NA	NA	1000	10000	NA		< 1.0										
1,2,4-Trichlorobenzene	ug/l	70	2000	70	2000	70		< 1.0										
1,2,4-Trimethylbenzene	ug/l	NA	NA	10000	100000	NA		< 1.0										
1,2-Dibromo-3-Chloropropane	ug/l	NA	NA	100	1000	0.2		**< 5.0**										
1,2-Dichlorobenzene	ug/l	600	2000	600	2000	600		< 1.0										
1,2-Dichloroethane	ug/l	5	5	5	5	5		< 1.0										
1,2-Dichloropropane	ug/l	5	3	3	3	5		< 1.0										
1,3,5-Trimethylbenzene	ug/l	NA	NA	100	1000	NA		< 1.0										
1,3-Dichlorobenzene	ug/l	40	2000	40	2000	NA		< 1.0										
1,3-Dichloropropane	ug/l	NA	NA	5000	50000	NA		< 1.0										
1,4-Dichlorobenzene	ug/l	5	200	5	200	5		< 1.0										
1,4-Dioxane	ug/l	3	6000	3	6000	NA		**< 50**										
2,2-Dichloropropane	ug/l	NA	NA	NA	NA	NA		< 1.0										
2-Butanone (MEK)	ug/l	4000	50000	4000	50000	NA		< 10										
2-Chlorotoluene	ug/l	NA	NA	1000	10000	NA		< 1.0										
2-Hexanone	ug/l	NA	NA	1000	10000	NA		< 10										
4-Chlorotoluene	ug/l	NA	NA	NA	NA	NA		< 1.0										
4-Isopropyltoluene	ug/l	NA	NA	1000	10000	NA		< 1.0										
4-Methyl-2-pentanone (MIBK)	ug/l	350	50000	350	50000	NA		< 10										
Acetone	ug/l	6300	50000	6300	50000	NA		< 50										
Benzene	ug/l	5	2000	5	2000	5		< 1.0										
Bromobenzene	ug/l	NA	NA	1000	10000	NA		< 1.0										
Bromoform	ug/l	4	700	4	700	NA		< 1.0										
Bromomethane	ug/l	10	7	7	7	NA		< 2.0										
Carbon disulfide	ug/l	NA	NA	1000	10000	NA		0.40J										
Carbon tetrachloride	ug/l	5	2	2	2	5		< 1.0										
Chlorobenzene	ug/l	100	200	100	200	100		< 1.0										
Chlorobromomethane	ug/l	NA	NA	NA	NA	NA		< 1.0										
Chlorodibromomethane	ug/l	2	20	2	20	NA		< 0.50										
Chloroethane	ug/l	NA	NA	1000	10000	NA		< 2.0										
Chloroform	ug/l	70	50	50	50	NA		< 1.0										
Chloromethane	ug/l	NA	NA	1000	10000	NA		< 2.0										
cis-1,2-Dichloroethene	ug/l	70	100	70	100	NA		< 1.0										
cis-1,3-Dichloropropene	ug/l	NA	NA	0.5	5	NA		< 0.40										
Dibromomethane	ug/l	NA	NA	5000	50000	NA		< 1.0										
Dichlorobromomethane	ug/l	3	6	3	6	NA		< 0.50										
Dichlorodifluoromethane	ug/l	NA	NA	10000	100000	NA		< 1.0										
Ethyl ether	ug/l	NA	NA	1000	10000	NA		< 1.0										
Ethylbenzene	ug/l	700	20000	700	5000	700		< 1.0										
Ethylene Dibromide	ug/l	0.02	2	0.02	2	0.02		**< 1.0**										
Hexachlorobutadiene	ug/l	0.6	1	0.6	1	NA		< 0.40										
Isopropyl ether	ug/l	NA	NA	1000	10000	NA		< 10										
Isopropylbenzene	ug/l	NA	NA	10000	100000	NA		< 1.0										
Methyl tert-butyl ether	ug/l	70	50000	70	5000	NA		0.16J										
Methylene Chloride	ug/l	5	10000	5	10000	5		< 1.0										
m-Xylene & p-Xylene	ug/l	10000	9000	5000	5000	NA		< 2.0										
Naphthalene	ug/l	140	1000	140	1000	NA		< 5.0										
n-Butylbenzene	ug/l	NA	NA	NA	NA	NA		< 1.0										
N-Propylbenzene	ug/l	NA	NA	1000	10000	NA		< 1.0										
o-Xylene	ug/l	10000	9000	5000	5000	NA		< 1.0										
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA		< 1.0										
Styrene	ug/l	100	100	100	100	100		< 1.0										
Tert-amyl methyl ether	ug/l	NA	NA	NA	NA	NA		< 5.0										
Tert-butyl ethyl ether	ug/l	NA	NA	NA	NA	NA		< 5.0										
tert-Butylbenzene	ug/l	NA	NA	1000	10000	NA		< 1.0										
Tetrachloroethene	ug/l	5	50	5	50	5		< 1.0										
Tetrahydrofuran	ug/l	NA	NA	5000	50000	NA		< 10										
Toluene	ug/l	1000	50000	1000	40000	1000		< 1.0										
trans-1,2-Dichloroethene	ug/l	100	90	90	90	100		< 1.0										
trans-1,3-Dichloropropene	ug/l	NA	NA	0.5	5	NA		< 0.40										
Trichloroethene	ug/l	5	30	5	30	5		< 1.0										
Trichlorofluoromethane	ug/l	NA	NA	10000	100000	NA		< 1.0										
Vinyl chloride	ug/l	2	2	2	2	2		< 1.0										
Semivolatiles by 522 MOD																		
1,4-Dioxane	ug/l	3	6000	3	6000	NA		0.33	1.3	< 0.20	0.065J	0.11J	0.071J	0.068J	0.088J		0.047J	

Notes:
ug/l - micrograms/liter
* - LCS or LCSD exceeds the control limits
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
GW1 - Concentrations based on the use of groundwater as drinking water, either currently or in the foreseeable future.
GW2 - Concentrations based on the potential for volatile material to migrate into indoor air.
GW3 - Concentrations based on the potential environmental effects resulting from contaminated groundwater discharging to surface water.
RC - Risk Characterization approach, Standards may be supplemented or modified with site- and chemical-specific information.
UCL - Upper Concentration Limits in groundwater and soil are promulgated to minimize potential risks associated with uncontrolled environmental contamination, and the costs associated with cumulative anthropogenic contributions to background.

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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TestAmerica Job ID: 480-38608-2
Client Project/Site: Eastham Landfill IRA

For:
Bennett Environmental Associates, Inc.
1573 Main St.
Brewster, Massachusetts 02631

Attn: David Bennett

Authorized for release by:
6/6/2013 4:35:19 PM

Steve Hartmann, Lab Director
steve.hartmann@testamericainc.com

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Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38608-2

Qualifiers

GC/MS VOA

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-38608-2

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-38608-2

Comments
This is a stand alone report for Sample 275 Alston Ave. duplicate (480-38608-6) that was activated for analysis on 5/29/13. This analysis was originally on hold per client request.

Receipt
The samples were received on 5/18/2013 6:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.8º C.

GC/MS VOA (524.2)
Method(s) 524.2: The continuing calibration verification (CCV) for Carbon Tetrachloride and Trichlorofluoromethane associated with batch 121133 recovered above the upper control limit. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

No other analytical or quality issues were noted.

GC/MS Semi VOA (522MOD)
No analytical or quality issues were noted.

Detection Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38608-2

Client Sample ID: 275 Alston Ave. Duplicate

Lab Sample ID: 480-38608-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.1	J	2.5	0.54	ug/L	1		524.2	Total/NA
Chloroform	0.72		0.50	0.14	ug/L	1		524.2	Total/NA
1,4-Dioxane	0.99		0.20	0.040	ug/L	1		522 MOD	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38608-2

Client Sample ID: 275 Alston Ave. Duplicate
Date Collected: 05/16/13 10:25
Date Received: 05/18/13 06:30

Lab Sample ID: 480-38608-6
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/30/13 12:17	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/30/13 12:17	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/30/13 12:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/30/13 12:17	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/30/13 12:17	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/30/13 12:17	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/30/13 12:17	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/30/13 12:17	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/30/13 12:17	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/30/13 12:17	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/30/13 12:17	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/30/13 12:17	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/30/13 12:17	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/30/13 12:17	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/30/13 12:17	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/30/13 12:17	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/30/13 12:17	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/30/13 12:17	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/30/13 12:17	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/30/13 12:17	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/30/13 12:17	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/30/13 12:17	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/30/13 12:17	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/30/13 12:17	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/30/13 12:17	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/30/13 12:17	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/30/13 12:17	1
Acetone	**1.1**	**J**	2.5	0.54	ug/L			05/30/13 12:17	1
Benzene	ND		0.50	0.13	ug/L			05/30/13 12:17	1
Bromobenzene	ND		0.50	0.13	ug/L			05/30/13 12:17	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/30/13 12:17	1
Bromoform	ND		0.50	0.13	ug/L			05/30/13 12:17	1
Bromomethane	ND		0.50	0.051	ug/L			05/30/13 12:17	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/30/13 12:17	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/30/13 12:17	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/30/13 12:17	1
Chloroethane	ND		0.50	0.070	ug/L			05/30/13 12:17	1
Chloroform	**0.72**		0.50	0.14	ug/L			05/30/13 12:17	1
Chloromethane	ND		0.50	0.063	ug/L			05/30/13 12:17	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/30/13 12:17	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/30/13 12:17	1
Dibromomethane	ND		0.50	0.17	ug/L			05/30/13 12:17	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/30/13 12:17	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/30/13 12:17	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/30/13 12:17	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/30/13 12:17	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/30/13 12:17	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/30/13 12:17	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/30/13 12:17	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38608-2

Client Sample ID: 275 Alston Ave. Duplicate
Date Collected: 05/16/13 10:25
Date Received: 05/18/13 06:30

Lab Sample ID: 480-38608-6
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/30/13 12:17	1
Naphthalene	ND		0.50	0.060	ug/L			05/30/13 12:17	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/30/13 12:17	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/30/13 12:17	1
o-Xylene	ND		0.50	0.044	ug/L			05/30/13 12:17	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/30/13 12:17	1
Styrene	ND		0.50	0.044	ug/L			05/30/13 12:17	1
t-Butanol	ND		10	2.5	ug/L			05/30/13 12:17	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/30/13 12:17	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/30/13 12:17	1
Toluene	ND		0.50	0.10	ug/L			05/30/13 12:17	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/30/13 12:17	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/30/13 12:17	1
Trichloroethene	ND		0.50	0.060	ug/L			05/30/13 12:17	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/30/13 12:17	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/30/13 12:17	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/30/13 12:17	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/30/13 12:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*107*		*80 - 120*		*05/30/13 12:17*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*05/30/13 12:17*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**0.99**		0.20	0.040	ug/L		06/01/13 12:30	06/04/13 16:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*73*		*70 - 130*	*06/01/13 12:30*	*06/04/13 16:46*	*1*

Surrogate Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38608-2

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)								
		12DCB	BFB							
Lab Sample ID	Client Sample ID	(80-120)	(80-120)							
480-38608-6	275 Alston Ave. Duplicate	107	93							
LCS 480-121133/5	Lab Control Sample	100	97							
MB 480-121133/6	Method Blank	104	92							

Surrogate Legend

12DCB = 1,2-Dichlorobenzene-d4

BFB = 4-Bromofluorobenzene (Surr)

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)								
		14DD8								
Lab Sample ID	Client Sample ID	(70-130)								
480-38608-6	275 Alston Ave. Duplicate	73								
LCS 200-56386/2-A	Lab Control Sample	82								
MB 200-56386/1-A	Method Blank	79								

Surrogate Legend

14DD8 = 1,4-Dioxane-d8 (Surr)

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38608-2

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-121133/6
Matrix: Water
Analysis Batch: 121133

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/30/13 11:43	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/30/13 11:43	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/30/13 11:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/30/13 11:43	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/30/13 11:43	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/30/13 11:43	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/30/13 11:43	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/30/13 11:43	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/30/13 11:43	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/30/13 11:43	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/30/13 11:43	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/30/13 11:43	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/30/13 11:43	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/30/13 11:43	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/30/13 11:43	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/30/13 11:43	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/30/13 11:43	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/30/13 11:43	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/30/13 11:43	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/30/13 11:43	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/30/13 11:43	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/30/13 11:43	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/30/13 11:43	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/30/13 11:43	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/30/13 11:43	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/30/13 11:43	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/30/13 11:43	1
Acetone	ND		2.5	0.54	ug/L			05/30/13 11:43	1
Benzene	ND		0.50	0.13	ug/L			05/30/13 11:43	1
Bromobenzene	ND		0.50	0.13	ug/L			05/30/13 11:43	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/30/13 11:43	1
Bromoform	ND		0.50	0.13	ug/L			05/30/13 11:43	1
Bromomethane	ND		0.50	0.051	ug/L			05/30/13 11:43	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/30/13 11:43	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/30/13 11:43	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/30/13 11:43	1
Chloroethane	ND		0.50	0.070	ug/L			05/30/13 11:43	1
Chloroform	ND		0.50	0.14	ug/L			05/30/13 11:43	1
Chloromethane	ND		0.50	0.063	ug/L			05/30/13 11:43	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/30/13 11:43	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/30/13 11:43	1
Dibromomethane	ND		0.50	0.17	ug/L			05/30/13 11:43	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/30/13 11:43	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/30/13 11:43	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/30/13 11:43	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/30/13 11:43	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/30/13 11:43	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/30/13 11:43	1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-121133/6
Matrix: Water
Analysis Batch: 121133

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		0.50	0.25	ug/L			05/30/13 11:43	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/30/13 11:43	1
Naphthalene	ND		0.50	0.060	ug/L			05/30/13 11:43	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/30/13 11:43	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/30/13 11:43	1
o-Xylene	ND		0.50	0.044	ug/L			05/30/13 11:43	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/30/13 11:43	1
Styrene	ND		0.50	0.044	ug/L			05/30/13 11:43	1
t-Butanol	ND		10	2.5	ug/L			05/30/13 11:43	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/30/13 11:43	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/30/13 11:43	1
Toluene	ND		0.50	0.10	ug/L			05/30/13 11:43	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/30/13 11:43	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/30/13 11:43	1
Trichloroethene	ND		0.50	0.060	ug/L			05/30/13 11:43	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/30/13 11:43	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/30/13 11:43	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/30/13 11:43	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/30/13 11:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*104*		*80 - 120*		*05/30/13 11:43*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*05/30/13 11:43*	*1*

Lab Sample ID: LCS 480-121133/5
Matrix: Water
Analysis Batch: 121133

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	4.00	3.82		ug/L		96	70 - 130
1,1,1-Trichloroethane	4.00	4.06		ug/L		102	70 - 130
1,1,2,2-Tetrachloroethane	4.00	3.45		ug/L		86	70 - 130
1,1,2-Trichloroethane	4.00	3.70		ug/L		92	70 - 130
1,1-Dichloroethane	4.00	3.39		ug/L		85	70 - 130
1,1-Dichloroethene	4.00	2.88		ug/L		72	70 - 130
1,1-Dichloropropene	4.00	3.68		ug/L		92	70 - 130
1,2,3-Trichlorobenzene	4.00	3.51		ug/L		88	70 - 130
1,2,3-Trichloropropane	4.00	3.89		ug/L		97	70 - 130
1,2,4-Trichlorobenzene	4.00	3.22		ug/L		80	70 - 130
1,2,4-Trimethylbenzene	4.00	3.62		ug/L		90	70 - 130
1,2-Dibromo-3-Chloropropane	4.00	3.26		ug/L		82	70 - 130
1,2-Dibromoethane	4.00	3.65		ug/L		91	70 - 130
1,2-Dichlorobenzene	4.00	3.49		ug/L		87	70 - 130
1,2-Dichloroethane	4.00	4.21		ug/L		105	70 - 130
1,2-Dichloropropane	4.00	3.31		ug/L		83	70 - 130
1,3,5-Trimethylbenzene	4.00	3.62		ug/L		90	70 - 130
1,3-Dichlorobenzene	4.00	3.42		ug/L		86	70 - 130
1,3-Dichloropropane	4.00	3.77		ug/L		94	70 - 130

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-121133/5
Matrix: Water
Analysis Batch: 121133

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	4.00	3.41		ug/L		85	70 - 130
2,2-Dichloropropane	4.00	3.41		ug/L		85	70 - 130
2-Butanone (MEK)	20.0	16.8		ug/L		84	70 - 130
2-Chlorotoluene	4.00	3.56		ug/L		89	70 - 130
4-Chlorotoluene	4.00	3.47		ug/L		87	70 - 130
4-Isopropyltoluene	4.00	3.51		ug/L		88	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	16.0		ug/L		80	70 - 130
Acetone	20.0	20.4		ug/L		102	70 - 130
Benzene	4.00	3.47		ug/L		87	70 - 130
Bromobenzene	4.00	3.64		ug/L		91	70 - 130
Bromochloromethane	4.00	3.68		ug/L		92	70 - 130
Bromoform	4.00	2.86		ug/L		72	70 - 130
Bromomethane	4.00	3.85		ug/L		96	70 - 130
Carbon tetrachloride	4.00	4.70		ug/L		118	70 - 130
Chlorobenzene	4.00	3.51		ug/L		88	70 - 130
Chlorodibromomethane	4.00	3.22		ug/L		81	70 - 130
Chloroethane	4.00	3.56		ug/L		89	70 - 130
Chloroform	4.00	3.63		ug/L		91	70 - 130
Chloromethane	4.00	3.55		ug/L		89	70 - 130
cis-1,2-Dichloroethene	4.00	3.45		ug/L		86	70 - 130
cis-1,3-Dichloropropene	4.00	3.46		ug/L		86	70 - 130
Dibromomethane	4.00	3.76		ug/L		94	70 - 130
Dichlorobromomethane	4.00	3.63		ug/L		91	70 - 130
Dichlorodifluoromethane	4.00	4.49		ug/L		112	70 - 130
Ethylbenzene	4.00	3.45		ug/L		86	70 - 130
Hexachlorobutadiene	4.00	3.53		ug/L		88	70 - 130
Isopropylbenzene	4.00	3.41		ug/L		85	70 - 130
Methyl tert-butyl ether	4.00	3.25		ug/L		81	70 - 130
Methylene Chloride	4.00	3.21		ug/L		80	70 - 130
Naphthalene	4.00	3.30		ug/L		83	70 - 130
n-Butylbenzene	4.00	3.39		ug/L		85	70 - 130
N-Propylbenzene	4.00	3.53		ug/L		88	70 - 130
sec-Butylbenzene	4.00	3.52		ug/L		88	70 - 130
Styrene	4.00	3.46		ug/L		87	70 - 130
tert-Butylbenzene	4.00	3.69		ug/L		92	70 - 130
Tetrachloroethene	4.00	3.48		ug/L		87	70 - 130
Toluene	4.00	3.59		ug/L		90	70 - 130
trans-1,2-Dichloroethene	4.00	3.29		ug/L		82	70 - 130
trans-1,3-Dichloropropene	4.00	3.22		ug/L		80	70 - 130
Trichloroethene	4.00	3.38		ug/L		85	70 - 130
Trichlorofluoromethane	4.00	4.66		ug/L		116	70 - 130
Vinyl chloride	4.00	4.01		ug/L		100	70 - 130
Xylenes, Total	12.0	10.6		ug/L		88	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichlorobenzene-d4	*100*		*80 - 120*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38608-2

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Lab Sample ID: MB 200-56386/1-A
Matrix: Water
Analysis Batch: 56518

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 56386

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		06/01/13 12:30	06/04/13 16:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*79*		*70 - 130*	*06/01/13 12:30*	*06/04/13 16:23*	*1*

Lab Sample ID: LCS 200-56386/2-A
Matrix: Water
Analysis Batch: 56518

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 56386

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane			2.00	1.95		ug/L		98	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,4-Dioxane-d8 (Surr)	*82*		*70 - 130*

QC Association Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38608-2

GC/MS VOA

Analysis Batch: 121133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-38608-6	275 Alston Ave. Duplicate	Total/NA	Water	524.2	
LCS 480-121133/5	Lab Control Sample	Total/NA	Water	524.2	
MB 480-121133/6	Method Blank	Total/NA	Water	524.2	

GC/MS Semi VOA

Prep Batch: 56386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-38608-6	275 Alston Ave. Duplicate	Total/NA	Water	3535A	
LCS 200-56386/2-A	Lab Control Sample	Total/NA	Water	3535A	
MB 200-56386/1-A	Method Blank	Total/NA	Water	3535A	

Analysis Batch: 56518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-38608-6	275 Alston Ave. Duplicate	Total/NA	Water	522 MOD	56386
LCS 200-56386/2-A	Lab Control Sample	Total/NA	Water	522 MOD	56386
MB 200-56386/1-A	Method Blank	Total/NA	Water	522 MOD	56386

Lab Chronicle

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38608-2

Client Sample ID: 275 Alston Ave. Duplicate
Date Collected: 05/16/13 10:25
Date Received: 05/18/13 06:30

Lab Sample ID: 480-38608-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	121133	05/30/13 12:17	TRB	TAL BUF
Total/NA	Prep	3535A			56386	06/01/13 12:30	MLT	TAL BUR
Total/NA	Analysis	522 MOD		1	56518	06/04/13 16:46	RJH	TAL BUR

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Certification Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38608-2

Laboratory: TestAmerica Buffalo

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-13
California	NELAP	9	1169CA	09-30-13
Connecticut	State Program	1	PH-0568	09-30-14
Florida	NELAP	4	E87672	06-30-13
Georgia	State Program	4	N/A	03-31-14
Georgia	State Program	4	956	06-30-13
Georgia	State Program	4	956	03-31-14
Illinois	NELAP	5	200003	09-30-13
Iowa	State Program	7	374	03-15-15
Kansas	NELAP	7	E-10187	01-31-14
Kentucky	State Program	4	90029	12-31-13
Kentucky (UST)	State Program	4	30	04-01-14
Louisiana	NELAP	6	02031	06-30-13
Maine	State Program	1	NY00044	12-04-13
Maryland	State Program	3	294	03-31-14
Massachusetts	State Program	1	M-NY044	06-30-13
Michigan	State Program	5	9937	04-01-13 *
Minnesota	NELAP	5	036-999-337	12-31-13
New Hampshire	NELAP	1	2973	09-11-13
New Hampshire	NELAP	1	2337	11-17-13
New Jersey	NELAP	2	NY455	06-30-13
New York	NELAP	2	10026	04-01-14
North Dakota	State Program	8	R-176	03-31-14
Oklahoma	State Program	6	9421	08-31-13
Oregon	NELAP	10	NY200003	06-09-14
Pennsylvania	NELAP	3	68-00281	07-31-13
Rhode Island	State Program	1	LAO00328	12-31-13
Tennessee	State Program	4	TN02970	04-01-14
Texas	NELAP	6	T104704412-11-2	07-31-13
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAP	3	460185	09-14-13
Washington	State Program	10	C784	02-10-14
West Virginia DEP	State Program	3	252	09-30-13
Wisconsin	State Program	5	998310390	08-31-13

Laboratory: TestAmerica Burlington

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Connecticut	State Program	1	PH-0751	09-30-13
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-13-15
Florida	NELAP	4	E87467	06-30-13
L-A-B	DoD ELAP		L2336	10-26-13
Louisiana	NELAP	6	176292	06-30-13
Minnesota	NELAP	5	050-999-436	12-31-13
New Hampshire	NELAP	1	2006	12-18-13
New Jersey	NELAP	2	VT972	06-30-13
New York	NELAP	2	10391	04-01-14
Pennsylvania	NELAP	3	68-00489	04-30-14
Rhode Island	State Program	1	LAO00298	12-30-13

* Expired certification is currently pending renewal and is considered valid.

Certification Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38608-2

Laboratory: TestAmerica Burlington (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
US Fish & Wildlife	Federal		LE-058448-0	02-28-14
USDA	Federal		P330-11-00093	02-17-14
Vermont	State Program	1	VT-4000	12-31-13
Virginia	NELAP	3	460209	12-14-13

Method Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38608-2

Method	Method Description	Protocol	Laboratory
524.2	Volatile Organic Compounds (GC/MS)	EPA-DW	TAL BUF
522 MOD	1,4 Dioxane (GC/MS SIM)	EPA	TAL BUR

Protocol References:

EPA = US Environmental Protection Agency

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-38608-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-38608-6	275 Alston Ave. Duplicate	Water	05/16/13 10:25	05/18/13 06:30

TestAmerica Westfield
53 Southampton Road

Westfield, MA 01085
phone 413.572.4000 fax 413.572.3707

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other: **MA MCP**

TestAmerica Laboratories, Inc.

Client Contact	**Project Manager: David Bennett**	**Site Contact:**	**Date:**	COC No:
Bennett Environmental Associates, Inc.	**Tel/Fax: 508-896-1706**	**Lab Contact:**	**Carrier:**	1 of 2 COCs
Address 1573 Main St. / P.O. Box 1743	**Analysis Turnaround Time**			**For Lab Use Only:**
City/State/Zip Brewster, MA 02631	Calendar (C) or Work Days (W) C			Walk-in Client:
508-896-1706 Phone	TAT if different from Below			Lab Sampling:
508-896-5109 FAX	☑ 2 weeks			
Project Name: Eastham Landfill	☐ 1 week			Job / SDG No.:
Site: Town of Eastham	☐ 2 days			
P O # BEA09-10104	☐ 1 day			Sampler: JTW

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample (Y / N)	Composite = C / Grab = G	VOCs via 524.2	1,4-Dioxane via 522.1 Mod	VOCs via 8260	Sample Specific Notes:
7 Eldia Way	5/10/2013	9:35 AM	G	W	3	N	G	3			
7 Eldia Way Duplicate	5/10/2013	9:35 AM	G	W	3	N	G	3			
MW-21S	5/16/2013	9:30 am	G	W	5	N	G		2	3	
~~MW-21S Duplicate~~	~~5/16/2013~~	~~9:30 am~~	~~G~~	~~W~~	~~4~~	~~N~~	~~G~~		~~1~~	~~3~~	
275 Alston Ave.	5/16/2013	10:25 am	G	W	5	N	G	3	2		
275 Alston Ave. Duplicate	5/16/2013	10:25 am	G	W	4	N	G	3	1		
400 Schoolhouse Rd.	5/16/2013	11:15 am	G	W	2	N	G		2		
400 Schoolhouse Rd. Duplicate	5/16/2013	11:15 am	G	W	1	N	G		1		
40 Fairview Ave.	5/16/2013	11:45 am	G	W	2	N	G		2		
40 Fairview Ave. Duplicate	5/16/2013	11:45 am	G	W	1	N	G		1		
45 Chokeberry Dr.	5/16/2013	12:15 pm	G	W	2	N	G		2		
45 Chokeberry Dr. Duplicate	5/16/2013	12:15 pm	G	W	1	N	G		1		
								1,2	1,2		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments: Please email results to dbennett@bennett-ea.com

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company: BEA	Date/Time: 5.17.13 1000	Received by:	Company: TA	Date/Time: 5.17.13 1000
Relinquished by:	Company:	Date/Time: 5.17.13 1300	Received in Laboratory by:	Company: TA Buff	Date/Time: 5.18.13 0630

Form No. CA-C-WI-002, Rev. 4, dated 10/25/2012

2. of #1

6/6/2013

TestAmerica Westfield
53 Southampton Road

Westfield, MA 01085
phone 413.572.4000 fax 413.572.3707

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other: **MA MCP**

Client Contact	**Project Manager: David Bennett**	**Site Contact:**	**Date:**	COC No:
Bennett Environmental Associates, Inc.	**Tel/Fax: 508-896-1706**	**Lab Contact:**	**Carrier:**	2 of 2 COCs
Address 1573 Main St. / P.O. Box 1743	**Analysis Turnaround Time**			**For Lab Use Only:**
City/State/Zip Brewster, MA 02631	Calendar (C) or Work Days (W) C			Walk-in Client:
508-896-1706 Phone	TAT if different from Below			Lab Sampling:
508-896-5109 FAX	☑ 2 weeks			
Project Name: Eastham Landfill	☐ 1 week			Job / SDG No.:
Site: Town of Eastham	☐ 2 days			
P O # BEA09-10104	☐ 1 day			Sampler: JTW

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample (Y / N)	Composite = C / Grab = G	VOCs via 524.2	1,4-Dioxane via 522.1 Mod	Sample Specific Notes:
3 Whidah Ln.	5/16/2013	12:50 PM	G	W	2	N	G		2	
3 Whidah Ln. Duplicate	5/16/2013	12:50 PM	G	W	1	N	G		1	
Community Well	5/16/2013	1:35 pm	G	W	2	N	G		2	
Community Well Duplicate	5/16/2013	1:35 pm	G	W	1	N	G		1	
10 Sharon Circle	5/16/2013	2:15 PM	G	W	2	N	G		2	
10 Sharon Circle	5/16/2013	2:15 PM	G	W	1	N	G		1	
Trip Blank	5/10/2013	8:05 AM	G	W	3	N	G	3		
Trip Blank	5/14/2013		G	W	2	N	G		2	From Lab
Trip Blank	5/16/2013	8:05 AM	G	W	3	N	G	3		
								JJ 8/17/13		
								1,2	1,2	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments: Please email results to dbennett@bennett-ea.com

Relinquished by:	Company: BEA	Date/Time: 5/16/13 4:00	Received by:	Company:	Date/Time:
Relinquished by:	Company: BEA	Date/Time: 5/17/13	Received by:	Company: TA	Date/Time: 5/17/13 1000
Relinquished by:	Company:	Date/Time: 5/17/13 1301	Received in Laboratory by:	Company: TA Boston	Date/Time: 5/18/13 0830

Form No. CA-C-WI-002, Rev. 4, dated 10/25/2012

2 of #1

6/6/2013

Login Sample Receipt Checklist

Client: Bennett Environmental Associates, Inc.

Job Number: 480-38608-2

Login Number: 38608

List Source: TestAmerica Buffalo

List Number: 1

Creator: Janish, Carl

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	bea
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

Login Sample Receipt Checklist

Client: Bennett Environmental Associates, Inc.

Job Number: 480-38608-2

Login Number: 38608
List Number: 1
Creator: Poucher, Stephanie A

List Source: TestAmerica Burlington
List Creation: 05/20/13 10:04 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	Not present
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.4ºC IR GUN ID 181. CF 0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.

						Sample ID	275 Alston Ave. Duplicate
						Sampled By	
						Sample Collection Date	05/16/2013 10:25
						Laboratory Order Number	480-38608-6
Parameter	**Reporting Units**	**GW1**	**GW2**	**RCGW1**	**RCGW2**	**DW MMCL**	
Volatiles by 524.2							
1,1,1,2-Tetrachloroethane	ug/l	5	10	5	10	NA	< 0.50
1,1,1-Trichloroethane	ug/l	200	4000	200	4000	200	< 0.50
1,1,2,2-Tetrachloroethane	ug/l	2	9	2	9	NA	< 0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/l	NA	NA	NA	NA	NA	< 0.50
1,1,2-Trichloroethane	ug/l	5	900	5	900	5	< 0.50
1,1-Dichloroethane	ug/l	70	1000	70	1000	NA	< 0.50
1,1-Dichloroethene	ug/l	7	80	7	80	7	< 0.50
1,1-Dichloropropene	ug/l	NA	NA	NA	NA	NA	< 0.50
1,2,3-Trichlorobenzene	ug/l	NA	NA	NA	NA	NA	< 0.50
1,2,3-Trichloropropane	ug/l	NA	NA	1000	10000	NA	< 0.50
1,2,4-Trichlorobenzene	ug/l	70	2000	70	2000	70	< 0.50
1,2,4-Trimethylbenzene	ug/l	NA	NA	10000	100000	NA	< 0.50
1,2-Dibromo-3-Chloropropane	ug/l	NA	NA	100	1000	0.2	**< 0.50**
1,2-Dibromoethane	ug/l	0.02	2	0.02	2	0.02	**< 0.50**
1,2-Dichlorobenzene	ug/l	600	2000	600	2000	600	< 0.50
1,2-Dichloroethane	ug/l	5	5	5	5	5	< 0.50
1,2-Dichloropropane	ug/l	5	3	3	3	5	< 0.50
1,3,5-Trimethylbenzene	ug/l	NA	NA	100	1000	NA	< 0.50
1,3-Dichlorobenzene	ug/l	40	2000	40	2000	NA	< 0.50
1,3-Dichloropropane	ug/l	NA	NA	5000	50000	NA	< 0.50
1,4-Dichlorobenzene	ug/l	5	200	5	200	5	< 0.50
2,2-Dichloropropane	ug/l	NA	NA	NA	NA	NA	< 0.50
2-Butanone (MEK)	ug/l	4000	50000	4000	50000	NA	< 2.5
2-Chlorotoluene	ug/l	NA	NA	1000	10000	NA	< 0.50
4-Chlorotoluene	ug/l	NA	NA	NA	NA	NA	< 0.50
4-Isopropyltoluene	ug/l	NA	NA	1000	10000	NA	< 0.50
4-Methyl-2-pentanone (MIBK)	ug/l	350	50000	350	50000	NA	< 2.5
Acetone	ug/l	6300	50000	6300	50000	NA	1.1J
Benzene	ug/l	5	2000	5	2000	5	< 0.50
Bromobenzene	ug/l	NA	NA	1000	10000	NA	< 0.50
Bromochloromethane	ug/l	NA	NA	NA	NA	NA	< 0.50
Bromoform	ug/l	4	700	4	700	NA	< 0.50
Bromomethane	ug/l	10	7	7	7	NA	< 0.50
Carbon tetrachloride	ug/l	5	2	2	2	5	< 0.50
Chlorobenzene	ug/l	100	200	100	200	100	< 0.50
Chlorodibromomethane	ug/l	2	20	2	20	NA	< 0.50
Chloroethane	ug/l	NA	NA	1000	10000	NA	< 0.50
Chloroform	ug/l	70	50	50	50	NA	0.72
Chloromethane	ug/l	NA	NA	1000	10000	NA	< 0.50
cis-1,2-Dichloroethene	ug/l	70	100	70	100	NA	< 0.50
cis-1,3-Dichloropropene	ug/l	NA	NA	0.5	5	NA	< 0.50
Dibromomethane	ug/l	NA	NA	5000	50000	NA	< 0.50
Dichlorobromomethane	ug/l	3	6	3	6	NA	< 0.50
Dichlorodifluoromethane	ug/l	NA	NA	10000	100000	NA	< 0.50
Ethylbenzene	ug/l	700	20000	700	5000	700	< 0.50
Hexachlorobutadiene	ug/l	0.6	1	0.6	1	NA	< 0.50
Isopropylbenzene	ug/l	NA	NA	10000	100000	NA	< 0.50
Methyl tert-butyl ether	ug/l	70	50000	70	5000	NA	< 0.50
Methylene Chloride	ug/l	5	10000	5	10000	5	< 0.50
m-Xylene & p-Xylene	ug/l	10000	9000	5000	5000	NA	< 1.0
Naphthalene	ug/l	140	1000	140	1000	NA	< 0.50
n-Butylbenzene	ug/l	NA	NA	NA	NA	NA	< 0.50
N-Propylbenzene	ug/l	NA	NA	1000	10000	NA	< 0.50
o-Xylene	ug/l	10000	9000	5000	5000	NA	< 0.50
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	< 0.50
Styrene	ug/l	100	100	100	100	100	< 0.50
t-Butanol	ug/l	NA	NA	NA	NA	NA	< 10
tert-Butylbenzene	ug/l	NA	NA	1000	10000	NA	< 0.50
Tetrachloroethene	ug/l	5	50	5	50	5	< 0.50
Toluene	ug/l	1000	50000	1000	40000	1000	< 0.50
trans-1,2-Dichloroethene	ug/l	100	90	90	90	100	< 0.50
trans-1,3-Dichloropropene	ug/l	NA	NA	0.5	5	NA	< 0.50
Trichloroethene	ug/l	5	30	5	30	5	< 0.50
Trichlorofluoromethane	ug/l	NA	NA	10000	100000	NA	< 0.50
Trihalomethanes, Total	ug/l	NA	NA	NA	NA	NA	< 2.0
Vinyl chloride	ug/l	2	2	2	2	2	< 0.50
Xylenes, Total	ug/l	10000	9000	5000	5000	NA	< 1.0

Semivolatiles by 522 MOD							
1,4-Dioxane	ug/l	3	6000	3	6000	NA	0.99

Notes:
ug/l - micrograms/liter
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
GW1 - Concentrations based on the use of groundwater as drinking water, either currently or in the foreseeable future.
GW2 - Concentrations based on the potential for volatile material to migrate into indoor air.
GW3 - Concentrations based on the potential environmental effects resulting from contaminated groundwater discharging to surface water.
RC - Risk Characterization approach, Standards may be supplemented or modified with site- and chemical-specific information.
UCL - Upper Concentration Limits in groundwater and soil are promulgated to minimize potential risks associated with uncontrolled environmental contamination, and the costs associated with cumulative anthropogenic contrit

TestAmerica's TotalAccess, is our online data management tool. Features include, a cross-tab view displaying each analyte
as a row across sample columns, an intuitive analyte trending tool, auto-fill search functions and exports data into Excel, while keeping its original format.
Other features include a redesign and simplification in selecting regulatory limits, Work Order and Results page layout redesign, and available data columns in the Results and Budgets pages.
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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-39233-1
Client Project/Site: Eastham Landfill IRA

For:
Bennett Environmental Associates, Inc.
1573 Main St.
Brewster, Massachusetts 02631

Attn: David Bennett

Authorized for release by:
6/7/2013 12:50:14 PM

Steve Hartmann, Lab Director
steve.hartmann@testamericainc.com

LINKS

Review your project results through TotalAccess

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-39233-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-39233-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-39233-1

Receipt
The samples were received on 5/31/2013 2:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.9º C.

GC/MS VOA (524.2)
Method(s) 524.2: The continuing calibration verification (CCV) for Carbon tetrachloride associated with batch 121529 recovered above the upper control limit. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

No other analytical or quality issues were noted.

GC/MS Semi VOA (522MOD)
No analytical or quality issues were noted.

Detection Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-39233-1

Client Sample ID: 25 Knowles St. — Lab Sample ID: 480-39233-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.20	J	0.50	0.074	ug/L	1		524.2	Total/NA
Chloroethane	0.19	J	0.50	0.070	ug/L	1		524.2	Total/NA
Chloroform	0.37	J	0.50	0.14	ug/L	1		524.2	Total/NA
cis-1,2-Dichloroethene	1.7		0.50	0.12	ug/L	1		524.2	Total/NA
Methyl tert-butyl ether	0.25	J	0.50	0.12	ug/L	1		524.2	Total/NA
t-Butanol	2.8	J	10	2.5	ug/L	1		524.2	Total/NA
1,4-Dioxane	2.7		0.20	0.040	ug/L	1		522 MOD	Total/NA

Client Sample ID: 30 Knowles St. — Lab Sample ID: 480-39233-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.37	J	0.50	0.074	ug/L	1		524.2	Total/NA
Acetone	0.86	J	2.5	0.54	ug/L	1		524.2	Total/NA
Benzene	0.31	J	0.50	0.13	ug/L	1		524.2	Total/NA
Chloroethane	0.44	J	0.50	0.070	ug/L	1		524.2	Total/NA
Chloroform	0.21	J	0.50	0.14	ug/L	1		524.2	Total/NA
cis-1,2-Dichloroethene	1.8		0.50	0.12	ug/L	1		524.2	Total/NA
Methyl tert-butyl ether	0.79		0.50	0.12	ug/L	1		524.2	Total/NA
t-Butanol	8.6	J	10	2.5	ug/L	1		524.2	Total/NA
1,4-Dioxane	4.9		0.20	0.040	ug/L	1		522 MOD	Total/NA

Client Sample ID: 325 Schoolhouse Rd. Raw Water — Lab Sample ID: 480-39233-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.44	J	0.50	0.074	ug/L	1		524.2	Total/NA
Acetone	0.68	J	2.5	0.54	ug/L	1		524.2	Total/NA
Benzene	0.65		0.50	0.13	ug/L	1		524.2	Total/NA
Chloroethane	0.51		0.50	0.070	ug/L	1		524.2	Total/NA
cis-1,2-Dichloroethene	2.4		0.50	0.12	ug/L	1		524.2	Total/NA
Methyl tert-butyl ether	1.6		0.50	0.12	ug/L	1		524.2	Total/NA
t-Butanol	15		10	2.5	ug/L	1		524.2	Total/NA
1,4-Dioxane	7.8		0.20	0.040	ug/L	1		522 MOD	Total/NA

Client Sample ID: 325 Schoolhouse Rd. Intermediate — Lab Sample ID: 480-39233-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.6	J	2.5	0.54	ug/L	1		524.2	Total/NA

Client Sample ID: 325 Schoolhouse Rd. Effluent — Lab Sample ID: 480-39233-9

No Detections.

Client Sample ID: 50 Alston Ave. — Lab Sample ID: 480-39233-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.25	J	0.50	0.074	ug/L	1		524.2	Total/NA
1,4-Dioxane	0.20		0.20	0.040	ug/L	1		522 MOD	Total/NA

Client Sample ID: 11 Eldia Way — Lab Sample ID: 480-39233-13

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-39233-1

Client Sample ID: 11 Eldia Way (Continued) — Lab Sample ID: 480-39233-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.20	J	0.50	0.074	ug/L	1		524.2	Total/NA
Acetone	0.63	J	2.5	0.54	ug/L	1		524.2	Total/NA
Benzene	0.20	J	0.50	0.13	ug/L	1		524.2	Total/NA
Chloroethane	0.32	J	0.50	0.070	ug/L	1		524.2	Total/NA
cis-1,2-Dichloroethene	0.79		0.50	0.12	ug/L	1		524.2	Total/NA
Methyl tert-butyl ether	1.2		0.50	0.12	ug/L	1		524.2	Total/NA
t-Butanol	6.3	J	10	2.5	ug/L	1		524.2	Total/NA
Vinyl chloride	0.23	J	0.50	0.059	ug/L	1		524.2	Total/NA
1,4-Dioxane	4.3		0.20	0.040	ug/L	1		522 MOD	Total/NA

Client Sample ID: 555 Schoolhouse Rd. — Lab Sample ID: 480-39233-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.048	J	0.20	0.040	ug/L	1		522 MOD	Total/NA

Client Sample ID: 20 Candlewood Dr. — Lab Sample ID: 480-39233-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.0	J	2.5	0.54	ug/L	1		524.2	Total/NA
1,4-Dioxane	0.056	J	0.20	0.040	ug/L	1		522 MOD	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 480-39233-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	0.87	J	2.5	0.25	ug/L	1		524.2	Total/NA
Acetone	3.6		2.5	0.54	ug/L	1		524.2	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 480-39233-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.048	J	0.20	0.040	ug/L	1		522 MOD	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-39233-1

Client Sample ID: 25 Knowles St.
Date Collected: 05/29/13 10:25
Date Received: 05/31/13 02:30

Lab Sample ID: 480-39233-1
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/31/13 23:50	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/31/13 23:50	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/31/13 23:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/31/13 23:50	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/31/13 23:50	1
1,1-Dichloroethane	**0.20**	**J**	0.50	0.074	ug/L			05/31/13 23:50	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/31/13 23:50	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/31/13 23:50	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/31/13 23:50	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/31/13 23:50	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/31/13 23:50	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/31/13 23:50	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/31/13 23:50	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/31/13 23:50	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/31/13 23:50	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/31/13 23:50	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/31/13 23:50	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/31/13 23:50	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/31/13 23:50	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/31/13 23:50	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/31/13 23:50	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/31/13 23:50	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/31/13 23:50	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/31/13 23:50	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/31/13 23:50	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/31/13 23:50	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/31/13 23:50	1
Acetone	ND		2.5	0.54	ug/L			05/31/13 23:50	1
Benzene	ND		0.50	0.13	ug/L			05/31/13 23:50	1
Bromobenzene	ND		0.50	0.13	ug/L			05/31/13 23:50	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/31/13 23:50	1
Bromoform	ND		0.50	0.13	ug/L			05/31/13 23:50	1
Bromomethane	ND		0.50	0.051	ug/L			05/31/13 23:50	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/31/13 23:50	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/31/13 23:50	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/31/13 23:50	1
Chloroethane	**0.19**	**J**	0.50	0.070	ug/L			05/31/13 23:50	1
Chloroform	**0.37**	**J**	0.50	0.14	ug/L			05/31/13 23:50	1
Chloromethane	ND		0.50	0.063	ug/L			05/31/13 23:50	1
cis-1,2-Dichloroethene	**1.7**		0.50	0.12	ug/L			05/31/13 23:50	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/31/13 23:50	1
Dibromomethane	ND		0.50	0.17	ug/L			05/31/13 23:50	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/31/13 23:50	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/31/13 23:50	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/31/13 23:50	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/31/13 23:50	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/31/13 23:50	1
Methyl tert-butyl ether	**0.25**	**J**	0.50	0.12	ug/L			05/31/13 23:50	1
Methylene Chloride	ND		0.50	0.25	ug/L			05/31/13 23:50	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-39233-1

Client Sample ID: 25 Knowles St.

Lab Sample ID: 480-39233-1

Date Collected: 05/29/13 10:25

Matrix: Water

Date Received: 05/31/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/31/13 23:50	1
Naphthalene	ND		0.50	0.060	ug/L			05/31/13 23:50	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/31/13 23:50	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/31/13 23:50	1
o-Xylene	ND		0.50	0.044	ug/L			05/31/13 23:50	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/31/13 23:50	1
Styrene	ND		0.50	0.044	ug/L			05/31/13 23:50	1
t-Butanol	**2.8**	**J**	10	2.5	ug/L			05/31/13 23:50	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/31/13 23:50	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/31/13 23:50	1
Toluene	ND		0.50	0.10	ug/L			05/31/13 23:50	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/31/13 23:50	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/31/13 23:50	1
Trichloroethene	ND		0.50	0.060	ug/L			05/31/13 23:50	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/31/13 23:50	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/31/13 23:50	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/31/13 23:50	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/31/13 23:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*104*		*80 - 120*		*05/31/13 23:50*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*05/31/13 23:50*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**2.7**		0.20	0.040	ug/L		06/01/13 12:30	06/04/13 17:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*71*		*70 - 130*	*06/01/13 12:30*	*06/04/13 17:07*	*1*

Client Sample ID: 30 Knowles St.

Lab Sample ID: 480-39233-3

Date Collected: 05/29/13 11:30

Matrix: Water

Date Received: 05/31/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			06/01/13 00:41	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			06/01/13 00:41	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			06/01/13 00:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			06/01/13 00:41	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			06/01/13 00:41	1
1,1-Dichloroethane	**0.37**	**J**	0.50	0.074	ug/L			06/01/13 00:41	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			06/01/13 00:41	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			06/01/13 00:41	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			06/01/13 00:41	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			06/01/13 00:41	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			06/01/13 00:41	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			06/01/13 00:41	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			06/01/13 00:41	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			06/01/13 00:41	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-39233-1

Client Sample ID: 30 Knowles St.
Date Collected: 05/29/13 11:30
Date Received: 05/31/13 02:30

Lab Sample ID: 480-39233-3
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			06/01/13 00:41	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			06/01/13 00:41	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			06/01/13 00:41	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			06/01/13 00:41	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			06/01/13 00:41	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			06/01/13 00:41	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			06/01/13 00:41	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			06/01/13 00:41	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			06/01/13 00:41	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			06/01/13 00:41	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			06/01/13 00:41	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			06/01/13 00:41	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			06/01/13 00:41	1
Acetone	**0.86**	**J**	2.5	0.54	ug/L			06/01/13 00:41	1
Benzene	**0.31**	**J**	0.50	0.13	ug/L			06/01/13 00:41	1
Bromobenzene	ND		0.50	0.13	ug/L			06/01/13 00:41	1
Bromochloromethane	ND		0.50	0.11	ug/L			06/01/13 00:41	1
Bromoform	ND		0.50	0.13	ug/L			06/01/13 00:41	1
Bromomethane	ND		0.50	0.051	ug/L			06/01/13 00:41	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			06/01/13 00:41	1
Chlorobenzene	ND		0.50	0.12	ug/L			06/01/13 00:41	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			06/01/13 00:41	1
Chloroethane	**0.44**	**J**	0.50	0.070	ug/L			06/01/13 00:41	1
Chloroform	**0.21**	**J**	0.50	0.14	ug/L			06/01/13 00:41	1
Chloromethane	ND		0.50	0.063	ug/L			06/01/13 00:41	1
cis-1,2-Dichloroethene	**1.8**		0.50	0.12	ug/L			06/01/13 00:41	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			06/01/13 00:41	1
Dibromomethane	ND		0.50	0.17	ug/L			06/01/13 00:41	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			06/01/13 00:41	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			06/01/13 00:41	1
Ethylbenzene	ND		0.50	0.11	ug/L			06/01/13 00:41	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			06/01/13 00:41	1
Isopropylbenzene	ND		0.50	0.053	ug/L			06/01/13 00:41	1
Methyl tert-butyl ether	**0.79**		0.50	0.12	ug/L			06/01/13 00:41	1
Methylene Chloride	ND		0.50	0.25	ug/L			06/01/13 00:41	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			06/01/13 00:41	1
Naphthalene	ND		0.50	0.060	ug/L			06/01/13 00:41	1
n-Butylbenzene	ND		0.50	0.081	ug/L			06/01/13 00:41	1
N-Propylbenzene	ND		0.50	0.057	ug/L			06/01/13 00:41	1
o-Xylene	ND		0.50	0.044	ug/L			06/01/13 00:41	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			06/01/13 00:41	1
Styrene	ND		0.50	0.044	ug/L			06/01/13 00:41	1
t-Butanol	**8.6**	**J**	10	2.5	ug/L			06/01/13 00:41	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			06/01/13 00:41	1
Tetrachloroethene	ND		0.50	0.067	ug/L			06/01/13 00:41	1
Toluene	ND		0.50	0.10	ug/L			06/01/13 00:41	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			06/01/13 00:41	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			06/01/13 00:41	1
Trichloroethene	ND		0.50	0.060	ug/L			06/01/13 00:41	1

Client Sample ID: 30 Knowles St.

Lab Sample ID: 480-39233-3

Date Collected: 05/29/13 11:30

Matrix: Water

Date Received: 05/31/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		0.50	0.044	ug/L			06/01/13 00:41	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			06/01/13 00:41	1
Vinyl chloride	ND		0.50	0.059	ug/L			06/01/13 00:41	1
Xylenes, Total	ND		1.0	0.20	ug/L			06/01/13 00:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*102*		*80 - 120*		*06/01/13 00:41*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*06/01/13 00:41*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**4.9**		0.20	0.040	ug/L		06/01/13 12:30	06/04/13 17:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*73*		*70 - 130*	*06/01/13 12:30*	*06/04/13 17:37*	*1*

Client Sample ID: 325 Schoolhouse Rd. Raw Water

Lab Sample ID: 480-39233-5

Date Collected: 05/29/13 12:55

Matrix: Water

Date Received: 05/31/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			06/01/13 01:31	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			06/01/13 01:31	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			06/01/13 01:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			06/01/13 01:31	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			06/01/13 01:31	1
1,1-Dichloroethane	**0.44**	**J**	0.50	0.074	ug/L			06/01/13 01:31	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			06/01/13 01:31	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			06/01/13 01:31	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			06/01/13 01:31	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			06/01/13 01:31	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			06/01/13 01:31	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			06/01/13 01:31	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			06/01/13 01:31	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			06/01/13 01:31	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			06/01/13 01:31	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			06/01/13 01:31	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			06/01/13 01:31	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			06/01/13 01:31	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			06/01/13 01:31	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			06/01/13 01:31	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			06/01/13 01:31	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			06/01/13 01:31	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			06/01/13 01:31	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			06/01/13 01:31	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			06/01/13 01:31	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			06/01/13 01:31	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			06/01/13 01:31	1
Acetone	**0.68**	**J**	2.5	0.54	ug/L			06/01/13 01:31	1

Client Sample ID: 325 Schoolhouse Rd. Raw Water
Date Collected: 05/29/13 12:55
Date Received: 05/31/13 02:30

Lab Sample ID: 480-39233-5
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.65**		0.50	0.13	ug/L			06/01/13 01:31	1
Bromobenzene	ND		0.50	0.13	ug/L			06/01/13 01:31	1
Bromochloromethane	ND		0.50	0.11	ug/L			06/01/13 01:31	1
Bromoform	ND		0.50	0.13	ug/L			06/01/13 01:31	1
Bromomethane	ND		0.50	0.051	ug/L			06/01/13 01:31	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			06/01/13 01:31	1
Chlorobenzene	ND		0.50	0.12	ug/L			06/01/13 01:31	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			06/01/13 01:31	1
Chloroethane	**0.51**		0.50	0.070	ug/L			06/01/13 01:31	1
Chloroform	ND		0.50	0.14	ug/L			06/01/13 01:31	1
Chloromethane	ND		0.50	0.063	ug/L			06/01/13 01:31	1
cis-1,2-Dichloroethene	**2.4**		0.50	0.12	ug/L			06/01/13 01:31	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			06/01/13 01:31	1
Dibromomethane	ND		0.50	0.17	ug/L			06/01/13 01:31	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			06/01/13 01:31	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			06/01/13 01:31	1
Ethylbenzene	ND		0.50	0.11	ug/L			06/01/13 01:31	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			06/01/13 01:31	1
Isopropylbenzene	ND		0.50	0.053	ug/L			06/01/13 01:31	1
Methyl tert-butyl ether	**1.6**		0.50	0.12	ug/L			06/01/13 01:31	1
Methylene Chloride	ND		0.50	0.25	ug/L			06/01/13 01:31	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			06/01/13 01:31	1
Naphthalene	ND		0.50	0.060	ug/L			06/01/13 01:31	1
n-Butylbenzene	ND		0.50	0.081	ug/L			06/01/13 01:31	1
N-Propylbenzene	ND		0.50	0.057	ug/L			06/01/13 01:31	1
o-Xylene	ND		0.50	0.044	ug/L			06/01/13 01:31	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			06/01/13 01:31	1
Styrene	ND		0.50	0.044	ug/L			06/01/13 01:31	1
t-Butanol	**15**		10	2.5	ug/L			06/01/13 01:31	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			06/01/13 01:31	1
Tetrachloroethene	ND		0.50	0.067	ug/L			06/01/13 01:31	1
Toluene	ND		0.50	0.10	ug/L			06/01/13 01:31	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			06/01/13 01:31	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			06/01/13 01:31	1
Trichloroethene	ND		0.50	0.060	ug/L			06/01/13 01:31	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			06/01/13 01:31	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			06/01/13 01:31	1
Vinyl chloride	ND		0.50	0.059	ug/L			06/01/13 01:31	1
Xylenes, Total	ND		1.0	0.20	ug/L			06/01/13 01:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*107*		*80 - 120*		*06/01/13 01:31*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*06/01/13 01:31*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**7.8**		0.20	0.040	ug/L		06/01/13 12:30	06/04/13 18:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*72*		*70 - 130*	*06/01/13 12:30*	*06/04/13 18:00*	*1*

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-39233-1

Client Sample ID: 325 Schoolhouse Rd. Intermediate
Date Collected: 05/29/13 13:05
Date Received: 05/31/13 02:30

Lab Sample ID: 480-39233-7
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			06/04/13 03:10	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			06/04/13 03:10	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			06/04/13 03:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			06/04/13 03:10	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			06/04/13 03:10	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			06/04/13 03:10	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			06/04/13 03:10	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			06/04/13 03:10	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			06/04/13 03:10	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			06/04/13 03:10	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			06/04/13 03:10	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			06/04/13 03:10	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			06/04/13 03:10	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			06/04/13 03:10	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			06/04/13 03:10	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			06/04/13 03:10	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			06/04/13 03:10	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			06/04/13 03:10	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			06/04/13 03:10	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			06/04/13 03:10	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			06/04/13 03:10	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			06/04/13 03:10	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			06/04/13 03:10	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			06/04/13 03:10	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			06/04/13 03:10	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			06/04/13 03:10	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			06/04/13 03:10	1
Acetone	**1.6**	**J**	2.5	0.54	ug/L			06/04/13 03:10	1
Benzene	ND		0.50	0.13	ug/L			06/04/13 03:10	1
Bromobenzene	ND		0.50	0.13	ug/L			06/04/13 03:10	1
Bromochloromethane	ND		0.50	0.11	ug/L			06/04/13 03:10	1
Bromoform	ND		0.50	0.13	ug/L			06/04/13 03:10	1
Bromomethane	ND		0.50	0.051	ug/L			06/04/13 03:10	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			06/04/13 03:10	1
Chlorobenzene	ND		0.50	0.12	ug/L			06/04/13 03:10	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			06/04/13 03:10	1
Chloroethane	ND		0.50	0.070	ug/L			06/04/13 03:10	1
Chloroform	ND		0.50	0.14	ug/L			06/04/13 03:10	1
Chloromethane	ND		0.50	0.063	ug/L			06/04/13 03:10	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			06/04/13 03:10	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			06/04/13 03:10	1
Dibromomethane	ND		0.50	0.17	ug/L			06/04/13 03:10	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			06/04/13 03:10	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			06/04/13 03:10	1
Ethylbenzene	ND		0.50	0.11	ug/L			06/04/13 03:10	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			06/04/13 03:10	1
Isopropylbenzene	ND		0.50	0.053	ug/L			06/04/13 03:10	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			06/04/13 03:10	1
Methylene Chloride	ND		0.50	0.25	ug/L			06/04/13 03:10	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-39233-1

Client Sample ID: 325 Schoolhouse Rd. Intermediate

Lab Sample ID: 480-39233-7

Date Collected: 05/29/13 13:05
Matrix: Water
Date Received: 05/31/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			06/04/13 03:10	1
Naphthalene	ND		0.50	0.060	ug/L			06/04/13 03:10	1
n-Butylbenzene	ND		0.50	0.081	ug/L			06/04/13 03:10	1
N-Propylbenzene	ND		0.50	0.057	ug/L			06/04/13 03:10	1
o-Xylene	ND		0.50	0.044	ug/L			06/04/13 03:10	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			06/04/13 03:10	1
Styrene	ND		0.50	0.044	ug/L			06/04/13 03:10	1
t-Butanol	ND		10	2.5	ug/L			06/04/13 03:10	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			06/04/13 03:10	1
Tetrachloroethene	ND		0.50	0.067	ug/L			06/04/13 03:10	1
Toluene	ND		0.50	0.10	ug/L			06/04/13 03:10	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			06/04/13 03:10	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			06/04/13 03:10	1
Trichloroethene	ND		0.50	0.060	ug/L			06/04/13 03:10	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			06/04/13 03:10	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			06/04/13 03:10	1
Vinyl chloride	ND		0.50	0.059	ug/L			06/04/13 03:10	1
Xylenes, Total	ND		1.0	0.20	ug/L			06/04/13 03:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*104*		*80 - 120*		*06/04/13 03:10*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*06/04/13 03:10*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		06/01/13 12:30	06/04/13 18:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*83*		*70 - 130*	*06/01/13 12:30*	*06/04/13 18:21*	*1*

Client Sample ID: 325 Schoolhouse Rd. Effluent

Lab Sample ID: 480-39233-9

Date Collected: 05/29/13 13:20
Matrix: Water
Date Received: 05/31/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			06/04/13 04:01	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			06/04/13 04:01	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			06/04/13 04:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			06/04/13 04:01	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			06/04/13 04:01	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			06/04/13 04:01	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			06/04/13 04:01	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			06/04/13 04:01	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			06/04/13 04:01	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			06/04/13 04:01	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			06/04/13 04:01	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			06/04/13 04:01	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			06/04/13 04:01	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			06/04/13 04:01	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-39233-1

Client Sample ID: 325 Schoolhouse Rd. Effluent
Date Collected: 05/29/13 13:20
Date Received: 05/31/13 02:30

Lab Sample ID: 480-39233-9
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			06/04/13 04:01	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			06/04/13 04:01	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			06/04/13 04:01	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			06/04/13 04:01	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			06/04/13 04:01	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			06/04/13 04:01	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			06/04/13 04:01	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			06/04/13 04:01	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			06/04/13 04:01	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			06/04/13 04:01	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			06/04/13 04:01	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			06/04/13 04:01	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			06/04/13 04:01	1
Acetone	ND		2.5	0.54	ug/L			06/04/13 04:01	1
Benzene	ND		0.50	0.13	ug/L			06/04/13 04:01	1
Bromobenzene	ND		0.50	0.13	ug/L			06/04/13 04:01	1
Bromochloromethane	ND		0.50	0.11	ug/L			06/04/13 04:01	1
Bromoform	ND		0.50	0.13	ug/L			06/04/13 04:01	1
Bromomethane	ND		0.50	0.051	ug/L			06/04/13 04:01	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			06/04/13 04:01	1
Chlorobenzene	ND		0.50	0.12	ug/L			06/04/13 04:01	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			06/04/13 04:01	1
Chloroethane	ND		0.50	0.070	ug/L			06/04/13 04:01	1
Chloroform	ND		0.50	0.14	ug/L			06/04/13 04:01	1
Chloromethane	ND		0.50	0.063	ug/L			06/04/13 04:01	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			06/04/13 04:01	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			06/04/13 04:01	1
Dibromomethane	ND		0.50	0.17	ug/L			06/04/13 04:01	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			06/04/13 04:01	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			06/04/13 04:01	1
Ethylbenzene	ND		0.50	0.11	ug/L			06/04/13 04:01	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			06/04/13 04:01	1
Isopropylbenzene	ND		0.50	0.053	ug/L			06/04/13 04:01	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			06/04/13 04:01	1
Methylene Chloride	ND		0.50	0.25	ug/L			06/04/13 04:01	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			06/04/13 04:01	1
Naphthalene	ND		0.50	0.060	ug/L			06/04/13 04:01	1
n-Butylbenzene	ND		0.50	0.081	ug/L			06/04/13 04:01	1
N-Propylbenzene	ND		0.50	0.057	ug/L			06/04/13 04:01	1
o-Xylene	ND		0.50	0.044	ug/L			06/04/13 04:01	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			06/04/13 04:01	1
Styrene	ND		0.50	0.044	ug/L			06/04/13 04:01	1
t-Butanol	ND		10	2.5	ug/L			06/04/13 04:01	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			06/04/13 04:01	1
Tetrachloroethene	ND		0.50	0.067	ug/L			06/04/13 04:01	1
Toluene	ND		0.50	0.10	ug/L			06/04/13 04:01	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			06/04/13 04:01	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			06/04/13 04:01	1
Trichloroethene	ND		0.50	0.060	ug/L			06/04/13 04:01	1

Client Sample ID: 325 Schoolhouse Rd. Effluent

Lab Sample ID: 480-39233-9

Date Collected: 05/29/13 13:20

Matrix: Water

Date Received: 05/31/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		0.50	0.044	ug/L			06/04/13 04:01	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			06/04/13 04:01	1
Vinyl chloride	ND		0.50	0.059	ug/L			06/04/13 04:01	1
Xylenes, Total	ND		1.0	0.20	ug/L			06/04/13 04:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*106*		*80 - 120*		*06/04/13 04:01*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*06/04/13 04:01*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		06/01/13 12:30	06/04/13 18:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*81*		*70 - 130*	*06/01/13 12:30*	*06/04/13 18:44*	*1*

Client Sample ID: 50 Alston Ave.

Lab Sample ID: 480-39233-11

Date Collected: 05/29/13 14:30

Matrix: Water

Date Received: 05/31/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			06/04/13 04:52	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			06/04/13 04:52	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			06/04/13 04:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			06/04/13 04:52	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			06/04/13 04:52	1
1,1-Dichloroethane	**0.25**	**J**	0.50	0.074	ug/L			06/04/13 04:52	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			06/04/13 04:52	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			06/04/13 04:52	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			06/04/13 04:52	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			06/04/13 04:52	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			06/04/13 04:52	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			06/04/13 04:52	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			06/04/13 04:52	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			06/04/13 04:52	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			06/04/13 04:52	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			06/04/13 04:52	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			06/04/13 04:52	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			06/04/13 04:52	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			06/04/13 04:52	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			06/04/13 04:52	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			06/04/13 04:52	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			06/04/13 04:52	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			06/04/13 04:52	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			06/04/13 04:52	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			06/04/13 04:52	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			06/04/13 04:52	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			06/04/13 04:52	1
Acetone	ND		2.5	0.54	ug/L			06/04/13 04:52	1

Client Sample ID: 50 Alston Ave.
Date Collected: 05/29/13 14:30
Date Received: 05/31/13 02:30

Lab Sample ID: 480-39233-11
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.13	ug/L			06/04/13 04:52	1
Bromobenzene	ND		0.50	0.13	ug/L			06/04/13 04:52	1
Bromochloromethane	ND		0.50	0.11	ug/L			06/04/13 04:52	1
Bromoform	ND		0.50	0.13	ug/L			06/04/13 04:52	1
Bromomethane	ND		0.50	0.051	ug/L			06/04/13 04:52	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			06/04/13 04:52	1
Chlorobenzene	ND		0.50	0.12	ug/L			06/04/13 04:52	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			06/04/13 04:52	1
Chloroethane	ND		0.50	0.070	ug/L			06/04/13 04:52	1
Chloroform	ND		0.50	0.14	ug/L			06/04/13 04:52	1
Chloromethane	ND		0.50	0.063	ug/L			06/04/13 04:52	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			06/04/13 04:52	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			06/04/13 04:52	1
Dibromomethane	ND		0.50	0.17	ug/L			06/04/13 04:52	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			06/04/13 04:52	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			06/04/13 04:52	1
Ethylbenzene	ND		0.50	0.11	ug/L			06/04/13 04:52	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			06/04/13 04:52	1
Isopropylbenzene	ND		0.50	0.053	ug/L			06/04/13 04:52	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			06/04/13 04:52	1
Methylene Chloride	ND		0.50	0.25	ug/L			06/04/13 04:52	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			06/04/13 04:52	1
Naphthalene	ND		0.50	0.060	ug/L			06/04/13 04:52	1
n-Butylbenzene	ND		0.50	0.081	ug/L			06/04/13 04:52	1
N-Propylbenzene	ND		0.50	0.057	ug/L			06/04/13 04:52	1
o-Xylene	ND		0.50	0.044	ug/L			06/04/13 04:52	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			06/04/13 04:52	1
Styrene	ND		0.50	0.044	ug/L			06/04/13 04:52	1
t-Butanol	ND		10	2.5	ug/L			06/04/13 04:52	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			06/04/13 04:52	1
Tetrachloroethene	ND		0.50	0.067	ug/L			06/04/13 04:52	1
Toluene	ND		0.50	0.10	ug/L			06/04/13 04:52	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			06/04/13 04:52	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			06/04/13 04:52	1
Trichloroethene	ND		0.50	0.060	ug/L			06/04/13 04:52	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			06/04/13 04:52	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			06/04/13 04:52	1
Vinyl chloride	ND		0.50	0.059	ug/L			06/04/13 04:52	1
Xylenes, Total	ND		1.0	0.20	ug/L			06/04/13 04:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*102*		*80 - 120*		*06/04/13 04:52*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*06/04/13 04:52*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**0.20**		0.20	0.040	ug/L		06/01/13 12:30	06/04/13 19:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*86*		*70 - 130*	*06/01/13 12:30*	*06/04/13 19:05*	*1*

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-39233-1

Client Sample ID: 11 Eldia Way
Date Collected: 05/29/13 15:25
Date Received: 05/31/13 02:30

Lab Sample ID: 480-39233-13
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			06/04/13 05:43	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			06/04/13 05:43	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			06/04/13 05:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			06/04/13 05:43	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			06/04/13 05:43	1
1,1-Dichloroethane	**0.20**	**J**	0.50	0.074	ug/L			06/04/13 05:43	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			06/04/13 05:43	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			06/04/13 05:43	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			06/04/13 05:43	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			06/04/13 05:43	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			06/04/13 05:43	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			06/04/13 05:43	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			06/04/13 05:43	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			06/04/13 05:43	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			06/04/13 05:43	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			06/04/13 05:43	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			06/04/13 05:43	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			06/04/13 05:43	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			06/04/13 05:43	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			06/04/13 05:43	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			06/04/13 05:43	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			06/04/13 05:43	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			06/04/13 05:43	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			06/04/13 05:43	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			06/04/13 05:43	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			06/04/13 05:43	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			06/04/13 05:43	1
Acetone	**0.63**	**J**	2.5	0.54	ug/L			06/04/13 05:43	1
Benzene	**0.20**	**J**	0.50	0.13	ug/L			06/04/13 05:43	1
Bromobenzene	ND		0.50	0.13	ug/L			06/04/13 05:43	1
Bromochloromethane	ND		0.50	0.11	ug/L			06/04/13 05:43	1
Bromoform	ND		0.50	0.13	ug/L			06/04/13 05:43	1
Bromomethane	ND		0.50	0.051	ug/L			06/04/13 05:43	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			06/04/13 05:43	1
Chlorobenzene	ND		0.50	0.12	ug/L			06/04/13 05:43	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			06/04/13 05:43	1
Chloroethane	**0.32**	**J**	0.50	0.070	ug/L			06/04/13 05:43	1
Chloroform	ND		0.50	0.14	ug/L			06/04/13 05:43	1
Chloromethane	ND		0.50	0.063	ug/L			06/04/13 05:43	1
cis-1,2-Dichloroethene	**0.79**		0.50	0.12	ug/L			06/04/13 05:43	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			06/04/13 05:43	1
Dibromomethane	ND		0.50	0.17	ug/L			06/04/13 05:43	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			06/04/13 05:43	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			06/04/13 05:43	1
Ethylbenzene	ND		0.50	0.11	ug/L			06/04/13 05:43	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			06/04/13 05:43	1
Isopropylbenzene	ND		0.50	0.053	ug/L			06/04/13 05:43	1
Methyl tert-butyl ether	**1.2**		0.50	0.12	ug/L			06/04/13 05:43	1
Methylene Chloride	ND		0.50	0.25	ug/L			06/04/13 05:43	1

Client Sample ID: 11 Eldia Way

Lab Sample ID: 480-39233-13

Date Collected: 05/29/13 15:25

Matrix: Water

Date Received: 05/31/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			06/04/13 05:43	1
Naphthalene	ND		0.50	0.060	ug/L			06/04/13 05:43	1
n-Butylbenzene	ND		0.50	0.081	ug/L			06/04/13 05:43	1
N-Propylbenzene	ND		0.50	0.057	ug/L			06/04/13 05:43	1
o-Xylene	ND		0.50	0.044	ug/L			06/04/13 05:43	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			06/04/13 05:43	1
Styrene	ND		0.50	0.044	ug/L			06/04/13 05:43	1
t-Butanol	**6.3**	**J**	10	2.5	ug/L			06/04/13 05:43	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			06/04/13 05:43	1
Tetrachloroethene	ND		0.50	0.067	ug/L			06/04/13 05:43	1
Toluene	ND		0.50	0.10	ug/L			06/04/13 05:43	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			06/04/13 05:43	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			06/04/13 05:43	1
Trichloroethene	ND		0.50	0.060	ug/L			06/04/13 05:43	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			06/04/13 05:43	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			06/04/13 05:43	1
Vinyl chloride	**0.23**	**J**	0.50	0.059	ug/L			06/04/13 05:43	1
Xylenes, Total	ND		1.0	0.20	ug/L			06/04/13 05:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*100*		*80 - 120*		*06/04/13 05:43*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*06/04/13 05:43*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**4.3**		0.20	0.040	ug/L		06/01/13 12:30	06/04/13 19:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*86*		*70 - 130*	*06/01/13 12:30*	*06/04/13 19:28*	*1*

Client Sample ID: 555 Schoolhouse Rd.

Lab Sample ID: 480-39233-15

Date Collected: 05/29/13 16:05

Matrix: Water

Date Received: 05/31/13 02:30

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**0.048**	**J**	0.20	0.040	ug/L		06/01/13 12:30	06/04/13 20:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*85*		*70 - 130*	*06/01/13 12:30*	*06/04/13 20:12*	*1*

Client Sample ID: 20 Candlewood Dr.

Lab Sample ID: 480-39233-17

Date Collected: 05/29/13 17:00

Matrix: Water

Date Received: 05/31/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			06/04/13 06:33	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			06/04/13 06:33	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			06/04/13 06:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			06/04/13 06:33	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-39233-1

Client Sample ID: 20 Candlewood Dr.
Date Collected: 05/29/13 17:00
Date Received: 05/31/13 02:30

Lab Sample ID: 480-39233-17
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			06/04/13 06:33	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			06/04/13 06:33	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			06/04/13 06:33	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			06/04/13 06:33	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			06/04/13 06:33	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			06/04/13 06:33	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			06/04/13 06:33	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			06/04/13 06:33	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			06/04/13 06:33	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			06/04/13 06:33	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			06/04/13 06:33	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			06/04/13 06:33	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			06/04/13 06:33	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			06/04/13 06:33	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			06/04/13 06:33	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			06/04/13 06:33	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			06/04/13 06:33	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			06/04/13 06:33	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			06/04/13 06:33	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			06/04/13 06:33	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			06/04/13 06:33	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			06/04/13 06:33	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			06/04/13 06:33	1
Acetone	**1.0**	**J**	2.5	0.54	ug/L			06/04/13 06:33	1
Benzene	ND		0.50	0.13	ug/L			06/04/13 06:33	1
Bromobenzene	ND		0.50	0.13	ug/L			06/04/13 06:33	1
Bromochloromethane	ND		0.50	0.11	ug/L			06/04/13 06:33	1
Bromoform	ND		0.50	0.13	ug/L			06/04/13 06:33	1
Bromomethane	ND		0.50	0.051	ug/L			06/04/13 06:33	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			06/04/13 06:33	1
Chlorobenzene	ND		0.50	0.12	ug/L			06/04/13 06:33	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			06/04/13 06:33	1
Chloroethane	ND		0.50	0.070	ug/L			06/04/13 06:33	1
Chloroform	ND		0.50	0.14	ug/L			06/04/13 06:33	1
Chloromethane	ND		0.50	0.063	ug/L			06/04/13 06:33	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			06/04/13 06:33	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			06/04/13 06:33	1
Dibromomethane	ND		0.50	0.17	ug/L			06/04/13 06:33	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			06/04/13 06:33	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			06/04/13 06:33	1
Ethylbenzene	ND		0.50	0.11	ug/L			06/04/13 06:33	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			06/04/13 06:33	1
Isopropylbenzene	ND		0.50	0.053	ug/L			06/04/13 06:33	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			06/04/13 06:33	1
Methylene Chloride	ND		0.50	0.25	ug/L			06/04/13 06:33	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			06/04/13 06:33	1
Naphthalene	ND		0.50	0.060	ug/L			06/04/13 06:33	1
n-Butylbenzene	ND		0.50	0.081	ug/L			06/04/13 06:33	1
N-Propylbenzene	ND		0.50	0.057	ug/L			06/04/13 06:33	1

Client Sample ID: 20 Candlewood Dr.

Lab Sample ID: 480-39233-17

Date Collected: 05/29/13 17:00

Matrix: Water

Date Received: 05/31/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		0.50	0.044	ug/L			06/04/13 06:33	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			06/04/13 06:33	1
Styrene	ND		0.50	0.044	ug/L			06/04/13 06:33	1
t-Butanol	ND		10	2.5	ug/L			06/04/13 06:33	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			06/04/13 06:33	1
Tetrachloroethene	ND		0.50	0.067	ug/L			06/04/13 06:33	1
Toluene	ND		0.50	0.10	ug/L			06/04/13 06:33	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			06/04/13 06:33	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			06/04/13 06:33	1
Trichloroethene	ND		0.50	0.060	ug/L			06/04/13 06:33	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			06/04/13 06:33	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			06/04/13 06:33	1
Vinyl chloride	ND		0.50	0.059	ug/L			06/04/13 06:33	1
Xylenes, Total	ND		1.0	0.20	ug/L			06/04/13 06:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*104*		*80 - 120*		*06/04/13 06:33*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*06/04/13 06:33*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.056	J	0.20	0.040	ug/L		06/01/13 12:30	06/04/13 20:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*77*		*70 - 130*	*06/01/13 12:30*	*06/04/13 20:33*	*1*

Client Sample ID: Trip Blank

Lab Sample ID: 480-39233-19

Date Collected: 05/28/13 15:45

Matrix: Water

Date Received: 05/31/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			06/04/13 07:24	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			06/04/13 07:24	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			06/04/13 07:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			06/04/13 07:24	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			06/04/13 07:24	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			06/04/13 07:24	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			06/04/13 07:24	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			06/04/13 07:24	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			06/04/13 07:24	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			06/04/13 07:24	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			06/04/13 07:24	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			06/04/13 07:24	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			06/04/13 07:24	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			06/04/13 07:24	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			06/04/13 07:24	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			06/04/13 07:24	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			06/04/13 07:24	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			06/04/13 07:24	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-39233-1

Client Sample ID: Trip Blank
Date Collected: 05/28/13 15:45
Date Received: 05/31/13 02:30

Lab Sample ID: 480-39233-19
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			06/04/13 07:24	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			06/04/13 07:24	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			06/04/13 07:24	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			06/04/13 07:24	1
2-Butanone (MEK)	**0.87**	**J**	2.5	0.25	ug/L			06/04/13 07:24	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			06/04/13 07:24	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			06/04/13 07:24	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			06/04/13 07:24	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			06/04/13 07:24	1
Acetone	**3.6**		2.5	0.54	ug/L			06/04/13 07:24	1
Benzene	ND		0.50	0.13	ug/L			06/04/13 07:24	1
Bromobenzene	ND		0.50	0.13	ug/L			06/04/13 07:24	1
Bromochloromethane	ND		0.50	0.11	ug/L			06/04/13 07:24	1
Bromoform	ND		0.50	0.13	ug/L			06/04/13 07:24	1
Bromomethane	ND		0.50	0.051	ug/L			06/04/13 07:24	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			06/04/13 07:24	1
Chlorobenzene	ND		0.50	0.12	ug/L			06/04/13 07:24	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			06/04/13 07:24	1
Chloroethane	ND		0.50	0.070	ug/L			06/04/13 07:24	1
Chloroform	ND		0.50	0.14	ug/L			06/04/13 07:24	1
Chloromethane	ND		0.50	0.063	ug/L			06/04/13 07:24	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			06/04/13 07:24	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			06/04/13 07:24	1
Dibromomethane	ND		0.50	0.17	ug/L			06/04/13 07:24	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			06/04/13 07:24	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			06/04/13 07:24	1
Ethylbenzene	ND		0.50	0.11	ug/L			06/04/13 07:24	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			06/04/13 07:24	1
Isopropylbenzene	ND		0.50	0.053	ug/L			06/04/13 07:24	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			06/04/13 07:24	1
Methylene Chloride	ND		0.50	0.25	ug/L			06/04/13 07:24	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			06/04/13 07:24	1
Naphthalene	ND		0.50	0.060	ug/L			06/04/13 07:24	1
n-Butylbenzene	ND		0.50	0.081	ug/L			06/04/13 07:24	1
N-Propylbenzene	ND		0.50	0.057	ug/L			06/04/13 07:24	1
o-Xylene	ND		0.50	0.044	ug/L			06/04/13 07:24	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			06/04/13 07:24	1
Styrene	ND		0.50	0.044	ug/L			06/04/13 07:24	1
t-Butanol	ND		10	2.5	ug/L			06/04/13 07:24	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			06/04/13 07:24	1
Tetrachloroethene	ND		0.50	0.067	ug/L			06/04/13 07:24	1
Toluene	ND		0.50	0.10	ug/L			06/04/13 07:24	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			06/04/13 07:24	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			06/04/13 07:24	1
Trichloroethene	ND		0.50	0.060	ug/L			06/04/13 07:24	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			06/04/13 07:24	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			06/04/13 07:24	1
Vinyl chloride	ND		0.50	0.059	ug/L			06/04/13 07:24	1
Xylenes, Total	ND		1.0	0.20	ug/L			06/04/13 07:24	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-39233-1

Client Sample ID: Trip Blank — **Lab Sample ID: 480-39233-19**
Date Collected: 05/28/13 15:45 — **Matrix: Water**
Date Received: 05/31/13 02:30

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	105		80 - 120		06/04/13 07:24	1
4-Bromofluorobenzene (Surr)	98		80 - 120		06/04/13 07:24	1

Client Sample ID: Trip Blank — **Lab Sample ID: 480-39233-20**
Date Collected: 05/28/13 15:45 — **Matrix: Water**
Date Received: 05/31/13 02:30

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.048	J	0.20	0.040	ug/L		06/01/13 12:30	06/04/13 20:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	92		70 - 130	06/01/13 12:30	06/04/13 20:55	1

Surrogate Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-39233-1

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		12DCB	BFB								
Lab Sample ID	Client Sample ID	(80-120)	(80-120)								
480-39233-1	25 Knowles St.	104	94								
480-39233-3	30 Knowles St.	102	96								
480-39233-5	325 Schoolhouse Rd. Raw Water	107	97								
480-39233-7	325 Schoolhouse Rd. Intermediate	104	100								
480-39233-9	325 Schoolhouse Rd. Effluent	106	104								
480-39233-11	50 Alston Ave.	102	100								
480-39233-13	11 Eldia Way	100	101								
480-39233-17	20 Candlewood Dr.	104	102								
480-39233-19	Trip Blank	105	98								
LCS 480-121529/4	Lab Control Sample	101	95								
LCS 480-121888/4	Lab Control Sample	101	102								
MB 480-121529/5	Method Blank	102	94								
MB 480-121888/5	Method Blank	102	103								

Surrogate Legend

12DCB = 1,2-Dichlorobenzene-d4

BFB = 4-Bromofluorobenzene (Surr)

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		14DD8									
Lab Sample ID	Client Sample ID	(70-130)									
480-39233-1	25 Knowles St.	71									
480-39233-3	30 Knowles St.	73									
480-39233-5	325 Schoolhouse Rd. Raw Water	72									
480-39233-7	325 Schoolhouse Rd. Intermediate	83									
480-39233-9	325 Schoolhouse Rd. Effluent	81									
480-39233-11	50 Alston Ave.	86									
480-39233-13	11 Eldia Way	86									
480-39233-15	555 Schoolhouse Rd.	85									
480-39233-17	20 Candlewood Dr.	77									
480-39233-20	Trip Blank	92									
LCS 200-56386/2-A	Lab Control Sample	82									
MB 200-56386/1-A	Method Blank	79									

Surrogate Legend

14DD8 = 1,4-Dioxane-d8 (Surr)

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-121529/5
Matrix: Water
Analysis Batch: 121529

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/31/13 16:53	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/31/13 16:53	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/31/13 16:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/31/13 16:53	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/31/13 16:53	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/31/13 16:53	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/31/13 16:53	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/31/13 16:53	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/31/13 16:53	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/31/13 16:53	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/31/13 16:53	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/31/13 16:53	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/31/13 16:53	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/31/13 16:53	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/31/13 16:53	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/31/13 16:53	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/31/13 16:53	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/31/13 16:53	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/31/13 16:53	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/31/13 16:53	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/31/13 16:53	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/31/13 16:53	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/31/13 16:53	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/31/13 16:53	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/31/13 16:53	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/31/13 16:53	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/31/13 16:53	1
Acetone	ND		2.5	0.54	ug/L			05/31/13 16:53	1
Benzene	ND		0.50	0.13	ug/L			05/31/13 16:53	1
Bromobenzene	ND		0.50	0.13	ug/L			05/31/13 16:53	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/31/13 16:53	1
Bromoform	ND		0.50	0.13	ug/L			05/31/13 16:53	1
Bromomethane	ND		0.50	0.051	ug/L			05/31/13 16:53	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/31/13 16:53	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/31/13 16:53	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/31/13 16:53	1
Chloroethane	ND		0.50	0.070	ug/L			05/31/13 16:53	1
Chloroform	ND		0.50	0.14	ug/L			05/31/13 16:53	1
Chloromethane	ND		0.50	0.063	ug/L			05/31/13 16:53	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/31/13 16:53	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/31/13 16:53	1
Dibromomethane	ND		0.50	0.17	ug/L			05/31/13 16:53	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/31/13 16:53	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/31/13 16:53	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/31/13 16:53	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/31/13 16:53	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/31/13 16:53	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/31/13 16:53	1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-121529/5
Matrix: Water
Analysis Batch: 121529

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		0.50	0.25	ug/L			05/31/13 16:53	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/31/13 16:53	1
Naphthalene	ND		0.50	0.060	ug/L			05/31/13 16:53	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/31/13 16:53	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/31/13 16:53	1
o-Xylene	ND		0.50	0.044	ug/L			05/31/13 16:53	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/31/13 16:53	1
Styrene	ND		0.50	0.044	ug/L			05/31/13 16:53	1
t-Butanol	ND		10	2.5	ug/L			05/31/13 16:53	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/31/13 16:53	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/31/13 16:53	1
Toluene	ND		0.50	0.10	ug/L			05/31/13 16:53	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/31/13 16:53	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/31/13 16:53	1
Trichloroethene	ND		0.50	0.060	ug/L			05/31/13 16:53	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/31/13 16:53	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/31/13 16:53	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/31/13 16:53	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/31/13 16:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*102*		*80 - 120*		*05/31/13 16:53*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*05/31/13 16:53*	*1*

Lab Sample ID: LCS 480-121529/4
Matrix: Water
Analysis Batch: 121529

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	4.00	4.12		ug/L		103	70 - 130
1,1,1-Trichloroethane	4.00	4.04		ug/L		101	70 - 130
1,1,2,2-Tetrachloroethane	4.00	4.09		ug/L		102	70 - 130
1,1,2-Trichloroethane	4.00	4.19		ug/L		105	70 - 130
1,1-Dichloroethane	4.00	3.75		ug/L		94	70 - 130
1,1-Dichloroethene	4.00	3.42		ug/L		86	70 - 130
1,1-Dichloropropene	4.00	4.09		ug/L		102	70 - 130
1,2,3-Trichlorobenzene	4.00	4.41		ug/L		110	70 - 130
1,2,3-Trichloropropane	4.00	4.22		ug/L		105	70 - 130
1,2,4-Trichlorobenzene	4.00	4.07		ug/L		102	70 - 130
1,2,4-Trimethylbenzene	4.00	4.06		ug/L		102	70 - 130
1,2-Dibromo-3-Chloropropane	4.00	4.40		ug/L		110	70 - 130
1,2-Dibromoethane	4.00	4.14		ug/L		103	70 - 130
1,2-Dichlorobenzene	4.00	3.93		ug/L		98	70 - 130
1,2-Dichloroethane	4.00	4.26		ug/L		106	70 - 130
1,2-Dichloropropane	4.00	3.86		ug/L		97	70 - 130
1,3,5-Trimethylbenzene	4.00	4.05		ug/L		101	70 - 130
1,3-Dichlorobenzene	4.00	3.90		ug/L		97	70 - 130
1,3-Dichloropropane	4.00	4.05		ug/L		101	70 - 130

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-121529/4
Matrix: Water
Analysis Batch: 121529

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	4.00	3.89		ug/L		97	70 - 130
2,2-Dichloropropane	4.00	2.84		ug/L		71	70 - 130
2-Butanone (MEK)	20.0	21.9		ug/L		109	70 - 130
2-Chlorotoluene	4.00	3.98		ug/L		99	70 - 130
4-Chlorotoluene	4.00	3.99		ug/L		100	70 - 130
4-Isopropyltoluene	4.00	4.07		ug/L		102	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	21.6		ug/L		108	70 - 130
Acetone	20.0	22.1		ug/L		111	70 - 130
Benzene	4.00	3.94		ug/L		98	70 - 130
Bromobenzene	4.00	4.22		ug/L		106	70 - 130
Bromochloromethane	4.00	4.08		ug/L		102	70 - 130
Bromoform	4.00	3.78		ug/L		95	70 - 130
Bromomethane	4.00	3.86		ug/L		96	70 - 130
Carbon tetrachloride	4.00	4.94		ug/L		123	70 - 130
Chlorobenzene	4.00	3.88		ug/L		97	70 - 130
Chlorodibromomethane	4.00	3.91		ug/L		98	70 - 130
Chloroethane	4.00	3.69		ug/L		92	70 - 130
Chloroform	4.00	3.86		ug/L		97	70 - 130
Chloromethane	4.00	3.42		ug/L		85	70 - 130
cis-1,2-Dichloroethene	4.00	3.70		ug/L		92	70 - 130
cis-1,3-Dichloropropene	4.00	3.90		ug/L		98	70 - 130
Dibromomethane	4.00	3.99		ug/L		100	70 - 130
Dichlorobromomethane	4.00	4.31		ug/L		108	70 - 130
Dichlorodifluoromethane	4.00	4.02		ug/L		101	70 - 130
Ethylbenzene	4.00	3.77		ug/L		94	70 - 130
Hexachlorobutadiene	4.00	4.22		ug/L		106	70 - 130
Isopropylbenzene	4.00	3.78		ug/L		95	70 - 130
Methyl tert-butyl ether	4.00	3.70		ug/L		92	70 - 130
Methylene Chloride	4.00	3.46		ug/L		87	70 - 130
Naphthalene	4.00	4.37		ug/L		109	70 - 130
n-Butylbenzene	4.00	4.00		ug/L		100	70 - 130
N-Propylbenzene	4.00	4.00		ug/L		100	70 - 130
sec-Butylbenzene	4.00	4.07		ug/L		102	70 - 130
Styrene	4.00	4.04		ug/L		101	70 - 130
tert-Butylbenzene	4.00	4.17		ug/L		104	70 - 130
Tetrachloroethene	4.00	3.78		ug/L		95	70 - 130
Toluene	4.00	4.08		ug/L		102	70 - 130
trans-1,2-Dichloroethene	4.00	3.64		ug/L		91	70 - 130
trans-1,3-Dichloropropene	4.00	3.49		ug/L		87	70 - 130
Trichloroethene	4.00	3.82		ug/L		95	70 - 130
Trichlorofluoromethane	4.00	4.42		ug/L		111	70 - 130
Vinyl chloride	4.00	3.96		ug/L		99	70 - 130
Xylenes, Total	12.0	11.6		ug/L		96	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichlorobenzene-d4	*101*		*80 - 120*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-121888/5
Matrix: Water
Analysis Batch: 121888

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			06/04/13 02:10	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			06/04/13 02:10	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			06/04/13 02:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			06/04/13 02:10	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			06/04/13 02:10	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			06/04/13 02:10	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			06/04/13 02:10	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			06/04/13 02:10	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			06/04/13 02:10	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			06/04/13 02:10	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			06/04/13 02:10	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			06/04/13 02:10	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			06/04/13 02:10	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			06/04/13 02:10	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			06/04/13 02:10	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			06/04/13 02:10	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			06/04/13 02:10	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			06/04/13 02:10	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			06/04/13 02:10	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			06/04/13 02:10	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			06/04/13 02:10	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			06/04/13 02:10	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			06/04/13 02:10	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			06/04/13 02:10	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			06/04/13 02:10	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			06/04/13 02:10	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			06/04/13 02:10	1
Acetone	ND		2.5	0.54	ug/L			06/04/13 02:10	1
Benzene	ND		0.50	0.13	ug/L			06/04/13 02:10	1
Bromobenzene	ND		0.50	0.13	ug/L			06/04/13 02:10	1
Bromochloromethane	ND		0.50	0.11	ug/L			06/04/13 02:10	1
Bromoform	ND		0.50	0.13	ug/L			06/04/13 02:10	1
Bromomethane	ND		0.50	0.051	ug/L			06/04/13 02:10	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			06/04/13 02:10	1
Chlorobenzene	ND		0.50	0.12	ug/L			06/04/13 02:10	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			06/04/13 02:10	1
Chloroethane	ND		0.50	0.070	ug/L			06/04/13 02:10	1
Chloroform	ND		0.50	0.14	ug/L			06/04/13 02:10	1
Chloromethane	ND		0.50	0.063	ug/L			06/04/13 02:10	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			06/04/13 02:10	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			06/04/13 02:10	1
Dibromomethane	ND		0.50	0.17	ug/L			06/04/13 02:10	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			06/04/13 02:10	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			06/04/13 02:10	1
Ethylbenzene	ND		0.50	0.11	ug/L			06/04/13 02:10	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			06/04/13 02:10	1
Isopropylbenzene	ND		0.50	0.053	ug/L			06/04/13 02:10	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			06/04/13 02:10	1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-121888/5
Matrix: Water
Analysis Batch: 121888

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		0.50	0.25	ug/L			06/04/13 02:10	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			06/04/13 02:10	1
Naphthalene	ND		0.50	0.060	ug/L			06/04/13 02:10	1
n-Butylbenzene	ND		0.50	0.081	ug/L			06/04/13 02:10	1
N-Propylbenzene	ND		0.50	0.057	ug/L			06/04/13 02:10	1
o-Xylene	ND		0.50	0.044	ug/L			06/04/13 02:10	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			06/04/13 02:10	1
Styrene	ND		0.50	0.044	ug/L			06/04/13 02:10	1
t-Butanol	ND		10	2.5	ug/L			06/04/13 02:10	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			06/04/13 02:10	1
Tetrachloroethene	ND		0.50	0.067	ug/L			06/04/13 02:10	1
Toluene	ND		0.50	0.10	ug/L			06/04/13 02:10	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			06/04/13 02:10	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			06/04/13 02:10	1
Trichloroethene	ND		0.50	0.060	ug/L			06/04/13 02:10	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			06/04/13 02:10	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			06/04/13 02:10	1
Vinyl chloride	ND		0.50	0.059	ug/L			06/04/13 02:10	1
Xylenes, Total	ND		1.0	0.20	ug/L			06/04/13 02:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*102*		*80 - 120*		*06/04/13 02:10*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*06/04/13 02:10*	*1*

Lab Sample ID: LCS 480-121888/4
Matrix: Water
Analysis Batch: 121888

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	4.00	3.86		ug/L		97	70 - 130
1,1,1-Trichloroethane	4.00	3.98		ug/L		100	70 - 130
1,1,2,2-Tetrachloroethane	4.00	3.65		ug/L		91	70 - 130
1,1,2-Trichloroethane	4.00	3.79		ug/L		95	70 - 130
1,1-Dichloroethane	4.00	3.70		ug/L		93	70 - 130
1,1-Dichloroethene	4.00	3.35		ug/L		84	70 - 130
1,1-Dichloropropene	4.00	4.04		ug/L		101	70 - 130
1,2,3-Trichlorobenzene	4.00	3.67		ug/L		92	70 - 130
1,2,3-Trichloropropane	4.00	3.85		ug/L		96	70 - 130
1,2,4-Trichlorobenzene	4.00	3.77		ug/L		94	70 - 130
1,2,4-Trimethylbenzene	4.00	3.93		ug/L		98	70 - 130
1,2-Dibromo-3-Chloropropane	4.00	3.61		ug/L		90	70 - 130
1,2-Dibromoethane	4.00	3.82		ug/L		96	70 - 130
1,2-Dichlorobenzene	4.00	3.78		ug/L		95	70 - 130
1,2-Dichloroethane	4.00	3.75		ug/L		94	70 - 130
1,2-Dichloropropane	4.00	3.77		ug/L		94	70 - 130
1,3,5-Trimethylbenzene	4.00	3.90		ug/L		97	70 - 130
1,3-Dichlorobenzene	4.00	3.80		ug/L		95	70 - 130
1,3-Dichloropropane	4.00	3.91		ug/L		98	70 - 130

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-121888/4
Matrix: Water
Analysis Batch: 121888

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	4.00	3.75		ug/L		94	70 - 130
2,2-Dichloropropane	4.00	3.99		ug/L		100	70 - 130
2-Butanone (MEK)	20.0	18.1		ug/L		90	70 - 130
2-Chlorotoluene	4.00	3.81		ug/L		95	70 - 130
4-Chlorotoluene	4.00	3.86		ug/L		97	70 - 130
4-Isopropyltoluene	4.00	3.87		ug/L		97	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	19.3		ug/L		97	70 - 130
Acetone	20.0	17.1		ug/L		85	70 - 130
Benzene	4.00	3.86		ug/L		96	70 - 130
Bromobenzene	4.00	3.85		ug/L		96	70 - 130
Bromochloromethane	4.00	3.72		ug/L		93	70 - 130
Bromoform	4.00	3.70		ug/L		93	70 - 130
Bromomethane	4.00	3.89		ug/L		97	70 - 130
Carbon tetrachloride	4.00	3.96		ug/L		99	70 - 130
Chlorobenzene	4.00	3.87		ug/L		97	70 - 130
Chlorodibromomethane	4.00	3.84		ug/L		96	70 - 130
Chloroethane	4.00	4.10		ug/L		102	70 - 130
Chloroform	4.00	3.71		ug/L		93	70 - 130
Chloromethane	4.00	3.76		ug/L		94	70 - 130
cis-1,2-Dichloroethene	4.00	3.75		ug/L		94	70 - 130
cis-1,3-Dichloropropene	4.00	3.88		ug/L		97	70 - 130
Dibromomethane	4.00	3.72		ug/L		93	70 - 130
Dichlorobromomethane	4.00	3.72		ug/L		93	70 - 130
Dichlorodifluoromethane	4.00	4.05		ug/L		101	70 - 130
Ethylbenzene	4.00	3.92		ug/L		98	70 - 130
Hexachlorobutadiene	4.00	4.59		ug/L		115	70 - 130
Isopropylbenzene	4.00	3.99		ug/L		100	70 - 130
Methyl tert-butyl ether	4.00	3.66		ug/L		91	70 - 130
Methylene Chloride	4.00	3.62		ug/L		90	70 - 130
Naphthalene	4.00	3.91		ug/L		98	70 - 130
n-Butylbenzene	4.00	4.03		ug/L		101	70 - 130
N-Propylbenzene	4.00	3.92		ug/L		98	70 - 130
sec-Butylbenzene	4.00	3.91		ug/L		98	70 - 130
Styrene	4.00	4.01		ug/L		100	70 - 130
tert-Butylbenzene	4.00	3.96		ug/L		99	70 - 130
Tetrachloroethene	4.00	3.86		ug/L		97	70 - 130
Toluene	4.00	3.92		ug/L		98	70 - 130
trans-1,2-Dichloroethene	4.00	3.66		ug/L		91	70 - 130
trans-1,3-Dichloropropene	4.00	3.05		ug/L		76	70 - 130
Trichloroethene	4.00	3.71		ug/L		93	70 - 130
Trichlorofluoromethane	4.00	3.87		ug/L		97	70 - 130
Vinyl chloride	4.00	4.13		ug/L		103	70 - 130
Xylenes, Total	12.0	11.9		ug/L		99	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichlorobenzene-d4	*101*		*80 - 120*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-39233-1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Lab Sample ID: MB 200-56386/1-A
Matrix: Water
Analysis Batch: 56518

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 56386

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.040	ug/L		06/01/13 12:30	06/04/13 16:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*79*		*70 - 130*	*06/01/13 12:30*	*06/04/13 16:23*	*1*

Lab Sample ID: LCS 200-56386/2-A
Matrix: Water
Analysis Batch: 56518

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 56386

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane			2.00	1.95		ug/L		98	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,4-Dioxane-d8 (Surr)	*82*		*70 - 130*

GC/MS VOA

Analysis Batch: 121529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-39233-1	25 Knowles St.	Total/NA	Water	524.2	
480-39233-3	30 Knowles St.	Total/NA	Water	524.2	
480-39233-5	325 Schoolhouse Rd. Raw Water	Total/NA	Water	524.2	
LCS 480-121529/4	Lab Control Sample	Total/NA	Water	524.2	
MB 480-121529/5	Method Blank	Total/NA	Water	524.2	

Analysis Batch: 121888

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-39233-7	325 Schoolhouse Rd. Intermediate	Total/NA	Water	524.2	
480-39233-9	325 Schoolhouse Rd. Effluent	Total/NA	Water	524.2	
480-39233-11	50 Alston Ave.	Total/NA	Water	524.2	
480-39233-13	11 Eldia Way	Total/NA	Water	524.2	
480-39233-17	20 Candlewood Dr.	Total/NA	Water	524.2	
480-39233-19	Trip Blank	Total/NA	Water	524.2	
LCS 480-121888/4	Lab Control Sample	Total/NA	Water	524.2	
MB 480-121888/5	Method Blank	Total/NA	Water	524.2	

GC/MS Semi VOA

Prep Batch: 56386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-39233-1	25 Knowles St.	Total/NA	Water	3535A	
480-39233-3	30 Knowles St.	Total/NA	Water	3535A	
480-39233-5	325 Schoolhouse Rd. Raw Water	Total/NA	Water	3535A	
480-39233-7	325 Schoolhouse Rd. Intermediate	Total/NA	Water	3535A	
480-39233-9	325 Schoolhouse Rd. Effluent	Total/NA	Water	3535A	
480-39233-11	50 Alston Ave.	Total/NA	Water	3535A	
480-39233-13	11 Eldia Way	Total/NA	Water	3535A	
480-39233-15	555 Schoolhouse Rd.	Total/NA	Water	3535A	
480-39233-17	20 Candlewood Dr.	Total/NA	Water	3535A	
480-39233-20	Trip Blank	Total/NA	Water	3535A	
LCS 200-56386/2-A	Lab Control Sample	Total/NA	Water	3535A	
MB 200-56386/1-A	Method Blank	Total/NA	Water	3535A	

Analysis Batch: 56518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-39233-1	25 Knowles St.	Total/NA	Water	522 MOD	56386
480-39233-3	30 Knowles St.	Total/NA	Water	522 MOD	56386
480-39233-5	325 Schoolhouse Rd. Raw Water	Total/NA	Water	522 MOD	56386
480-39233-7	325 Schoolhouse Rd. Intermediate	Total/NA	Water	522 MOD	56386
480-39233-9	325 Schoolhouse Rd. Effluent	Total/NA	Water	522 MOD	56386
480-39233-11	50 Alston Ave.	Total/NA	Water	522 MOD	56386
480-39233-13	11 Eldia Way	Total/NA	Water	522 MOD	56386
480-39233-15	555 Schoolhouse Rd.	Total/NA	Water	522 MOD	56386
480-39233-17	20 Candlewood Dr.	Total/NA	Water	522 MOD	56386
480-39233-20	Trip Blank	Total/NA	Water	522 MOD	56386
LCS 200-56386/2-A	Lab Control Sample	Total/NA	Water	522 MOD	56386
MB 200-56386/1-A	Method Blank	Total/NA	Water	522 MOD	56386

Client Sample ID: 25 Knowles St.

Lab Sample ID: 480-39233-1

Date Collected: 05/29/13 10:25

Matrix: Water

Date Received: 05/31/13 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	121529	05/31/13 23:50	CDC	TAL BUF
Total/NA	Prep	3535A			56386	06/01/13 12:30	MLT	TAL BUR
Total/NA	Analysis	522 MOD		1	56518	06/04/13 17:07	RJH	TAL BUR

Client Sample ID: 30 Knowles St.

Lab Sample ID: 480-39233-3

Date Collected: 05/29/13 11:30

Matrix: Water

Date Received: 05/31/13 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	121529	06/01/13 00:41	CDC	TAL BUF
Total/NA	Prep	3535A			56386	06/01/13 12:30	MLT	TAL BUR
Total/NA	Analysis	522 MOD		1	56518	06/04/13 17:37	RJH	TAL BUR

Client Sample ID: 325 Schoolhouse Rd. Raw Water

Lab Sample ID: 480-39233-5

Date Collected: 05/29/13 12:55

Matrix: Water

Date Received: 05/31/13 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	121529	06/01/13 01:31	CDC	TAL BUF
Total/NA	Prep	3535A			56386	06/01/13 12:30	MLT	TAL BUR
Total/NA	Analysis	522 MOD		1	56518	06/04/13 18:00	RJH	TAL BUR

Client Sample ID: 325 Schoolhouse Rd. Intermediate

Lab Sample ID: 480-39233-7

Date Collected: 05/29/13 13:05

Matrix: Water

Date Received: 05/31/13 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	121888	06/04/13 03:10	LH	TAL BUF
Total/NA	Prep	3535A			56386	06/01/13 12:30	MLT	TAL BUR
Total/NA	Analysis	522 MOD		1	56518	06/04/13 18:21	RJH	TAL BUR

Client Sample ID: 325 Schoolhouse Rd. Effluent

Lab Sample ID: 480-39233-9

Date Collected: 05/29/13 13:20

Matrix: Water

Date Received: 05/31/13 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	121888	06/04/13 04:01	LH	TAL BUF
Total/NA	Prep	3535A			56386	06/01/13 12:30	MLT	TAL BUR
Total/NA	Analysis	522 MOD		1	56518	06/04/13 18:44	RJH	TAL BUR

Lab Chronicle

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-39233-1

Client Sample ID: 50 Alston Ave.

Lab Sample ID: 480-39233-11

Date Collected: 05/29/13 14:30
Date Received: 05/31/13 02:30

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	121888	06/04/13 04:52	LH	TAL BUF
Total/NA	Prep	3535A			56386	06/01/13 12:30	MLT	TAL BUR
Total/NA	Analysis	522 MOD		1	56518	06/04/13 19:05	RJH	TAL BUR

Client Sample ID: 11 Eldia Way

Lab Sample ID: 480-39233-13

Date Collected: 05/29/13 15:25
Date Received: 05/31/13 02:30

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	121888	06/04/13 05:43	LH	TAL BUF
Total/NA	Prep	3535A			56386	06/01/13 12:30	MLT	TAL BUR
Total/NA	Analysis	522 MOD		1	56518	06/04/13 19:28	RJH	TAL BUR

Client Sample ID: 555 Schoolhouse Rd.

Lab Sample ID: 480-39233-15

Date Collected: 05/29/13 16:05
Date Received: 05/31/13 02:30

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535A			56386	06/01/13 12:30	MLT	TAL BUR
Total/NA	Analysis	522 MOD		1	56518	06/04/13 20:12	RJH	TAL BUR

Client Sample ID: 20 Candlewood Dr.

Lab Sample ID: 480-39233-17

Date Collected: 05/29/13 17:00
Date Received: 05/31/13 02:30

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	121888	06/04/13 06:33	LH	TAL BUF
Total/NA	Prep	3535A			56386	06/01/13 12:30	MLT	TAL BUR
Total/NA	Analysis	522 MOD		1	56518	06/04/13 20:33	RJH	TAL BUR

Client Sample ID: Trip Blank

Lab Sample ID: 480-39233-19

Date Collected: 05/28/13 15:45
Date Received: 05/31/13 02:30

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	121888	06/04/13 07:24	LH	TAL BUF

Lab Chronicle

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-39233-1

Client Sample ID: Trip Blank
Date Collected: 05/28/13 15:45
Date Received: 05/31/13 02:30

Lab Sample ID: 480-39233-20
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535A			56386	06/01/13 12:30	MLT	TAL BUR
Total/NA	Analysis	522 MOD		1	56518	06/04/13 20:55	RJH	TAL BUR

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Certification Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-39233-1

Laboratory: TestAmerica Buffalo

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-13
California	NELAP	9	1169CA	09-30-13
Connecticut	State Program	1	PH-0568	09-30-14
Florida	NELAP	4	E87672	06-30-13
Georgia	State Program	4	N/A	03-31-14
Georgia	State Program	4	956	06-30-13
Georgia	State Program	4	956	03-31-14
Illinois	NELAP	5	200003	09-30-13
Iowa	State Program	7	374	03-15-15
Kansas	NELAP	7	E-10187	01-31-14
Kentucky	State Program	4	90029	12-31-13
Kentucky (UST)	State Program	4	30	04-01-14
Louisiana	NELAP	6	02031	06-30-13
Maine	State Program	1	NY00044	12-04-13
Maryland	State Program	3	294	03-31-14
Massachusetts	State Program	1	M-NY044	06-30-13
Michigan	State Program	5	9937	04-01-13 *
Minnesota	NELAP	5	036-999-337	12-31-13
New Hampshire	NELAP	1	2973	09-11-13
New Hampshire	NELAP	1	2337	11-17-13
New Jersey	NELAP	2	NY455	06-30-13
New York	NELAP	2	10026	04-01-14
North Dakota	State Program	8	R-176	03-31-14
Oklahoma	State Program	6	9421	08-31-13
Oregon	NELAP	10	NY200003	06-09-14
Pennsylvania	NELAP	3	68-00281	07-31-13
Rhode Island	State Program	1	LAO00328	12-31-13
Tennessee	State Program	4	TN02970	04-01-14
Texas	NELAP	6	T104704412-11-2	07-31-13
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAP	3	460185	09-14-13
Washington	State Program	10	C784	02-10-14
West Virginia DEP	State Program	3	252	09-30-13
Wisconsin	State Program	5	998310390	08-31-13

Laboratory: TestAmerica Burlington

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Connecticut	State Program	1	PH-0751	09-30-13
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-13-15
Florida	NELAP	4	E87467	06-30-13
L-A-B	DoD ELAP		L2336	10-26-13
Louisiana	NELAP	6	176292	06-30-13
Minnesota	NELAP	5	050-999-436	12-31-13
New Hampshire	NELAP	1	2006	12-18-13
New Jersey	NELAP	2	VT972	06-30-13
New York	NELAP	2	10391	04-01-14
Pennsylvania	NELAP	3	68-00489	04-30-14
Rhode Island	State Program	1	LAO00298	12-30-13

* Expired certification is currently pending renewal and is considered valid.

Certification Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-39233-1

Laboratory: TestAmerica Burlington (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
US Fish & Wildlife	Federal		LE-058448-0	02-28-14
USDA	Federal		P330-11-00093	02-17-14
Vermont	State Program	1	VT-4000	12-31-13
Virginia	NELAP	3	460209	12-14-13

Method Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-39233-1

Method	Method Description	Protocol	Laboratory
524.2	Volatile Organic Compounds (GC/MS)	EPA-DW	TAL BUF
522 MOD	1,4 Dioxane (GC/MS SIM)	EPA	TAL BUR

Protocol References:

EPA = US Environmental Protection Agency

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-39233-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-39233-1	25 Knowles St.	Water	05/29/13 10:25	05/31/13 02:30
480-39233-3	30 Knowles St.	Water	05/29/13 11:30	05/31/13 02:30
480-39233-5	325 Schoolhouse Rd. Raw Water	Water	05/29/13 12:55	05/31/13 02:30
480-39233-7	325 Schoolhouse Rd. Intermediate	Water	05/29/13 13:05	05/31/13 02:30
480-39233-9	325 Schoolhouse Rd. Effluent	Water	05/29/13 13:20	05/31/13 02:30
480-39233-11	50 Alston Ave.	Water	05/29/13 14:30	05/31/13 02:30
480-39233-13	11 Eldia Way	Water	05/29/13 15:25	05/31/13 02:30
480-39233-15	555 Schoolhouse Rd.	Water	05/29/13 16:05	05/31/13 02:30
480-39233-17	20 Candlewood Dr.	Water	05/29/13 17:00	05/31/13 02:30
480-39233-19	Trip Blank	Water	05/28/13 15:45	05/31/13 02:30
480-39233-20	Trip Blank	Water	05/28/13 15:45	05/31/13 02:30

TestAmerica Westfield
53 Southampton Road

Westfield, MA 01085
phone 413.572.4000 fax 413.572.3707

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other: **MA MCP**

TestAmerica Laboratories, Inc.

Client Contact	**Project Manager: David Bennett**	**Site Contact:**	**Date:**	COC No:
Bennett Environmental Associates, Inc.	**Tel/Fax: 508-896-1706**	**Lab Contact:**	**Carrier:**	1 of 2 COCs
Address 1573 Main St. / P.O. Box 1743	**Analysis Turnaround Time**			**For Lab Use Only:**
City/State/Zip Brewster, MA 02631	Calendar (C) or Work Days (W) C			Walk-in Client:
508-896-1706 Phone	TAT if different from Below			Lab Sampling:
508-896-5109 FAX	☑ 2 weeks			
Project Name: Eastham Landfill	☐ 1 week			Job / SDG No.: BEA11-10104
Site: Town of Eastham	☐ 2 days			
P O # BEA09-10104	☐ 1 day			Sampler: JTW

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample (Y / N)	Composite = C / Grab = G	VOCs via 524.2	1,4-Dioxane via 522.1 Mod	Sample Specific Notes:
25 Knowles St.	5/29/2013	10:25 AM	G	W	5	N	G	3	2	
25 Knowles St. Duplicate	5/29/2013	10:25 AM	G	W	4	N	G	3	1	
30 Knowles St.	5/29/2013	11:30 am	G	W	5	N	G	3	2	
30 Knowles St. Duplicate	5/29/2013	11:30 am	G	W	4	N	G	3	1	
325 Schoolhouse Rd. Raw water	5/29/2013	12:55 pm	G	W	5	N	G	3	2	
325 Schoolhouse Rd. Raw water Duplicate	5/29/2013	12:55 pm	G	W	4	N	G	3	1	
325 Schoolhouse Rd. Intermediate	5/29/2013	1:05 pm	G	W	5	N	G	3	2	
325 Schoolhouse Rd. Intermediate Duplicate	5/29/2013	1:05 pm	G	W	4	N	G	3	1	
325 Schoolhouse Rd. Effluent	5/29/2013	1:20 pm	G	W	5	N	G	3	2	
325 Schoolhouse Rd. Effluent Duplicate	5/29/2013	1:20 pm	G	W	4	N	G	3	1	
50 Alston Ave.	5/29/2013	2:30 pm	G	W	5	N	G	3	2	
50 Alston Ave. Duplicate	5/29/2013	2:30 pm	G	W	4	N	G	3	1	
								1,2	1,2	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments: Please email results to dbennett@bennett-ea.com

	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	BEA	5/29/13 6:00 pm	BEA sample fridge.		
Relinquished by:	BEA	5/30/13 10:25 AM		TAL	5/30/13 10:25
Relinquished by:	TAL 163	5/30/13	Received in Laboratory by:	TA Bucl	5.31.13 0230

Form No. CA-C-WI-002, Rev. 4, dated 10/25/2012

2.9 #1

6/7/2013

TestAmerica Westfield
53 Southampton Road

Westfield, MA 01085
phone 413.572.4000 fax 413.572.3707

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other: **MA MCP**

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: David Bennett	Site Contact:	Date:	COC No:
Bennett Environmental Associates, Inc.	Tel/Fax: 508-896-1706	Lab Contact:	Carrier:	2 of 2 COCs
Address 1573 Main St. / P.O. Box 1743	**Analysis Turnaround Time**			For Lab Use Only:
City/State/Zip Brewster, MA 02631	Calendar (C) or Work Days (W) C			Walk-in Client:
508-896-1706 Phone	TAT if different from Below			Lab Sampling:
508-896-5109 FAX	☑ 2 weeks			
Project Name: Eastham Landfill	☐ 1 week			Job / SDG No.:
Site: Town of Eastham	☐ 2 days			
P O # BEA09-10104	☐ 1 day			Sampler: JTW

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample (Y / N)	Composite = C / Grab = G	VOCs via 524.2	1,4-Dioxane via 522.1 Mod	Sample Specific Notes:
11 Eldia Way	5/29/2013	3:25 PM	G	W	5	N	G	3	2	
11 Eldia Way Duplicate	5/29/2013	3:25 PM	G	W	4	N	G	3	1	
555 Schoolhouse Rd.	5/29/2013	4:05 pm	G	W	2	N	G		2	
555 Schoolhouse Rd. Duplicate	5/29/2013	4:05 pm	G	W	1	N	G		1	
20 Candlewood Dr.	5/29/2013	5:00 PM	G	W	5	N	G	3	2	
20 Candlewood Dr. Duplicate	5/29/2013	5:00 PM	G	W	4	N	G	3	1	
Trip Blank	5/28/2013	3:45 PM	G	W	3	N	G	3		
Trip Blank	5/28/2013	3:45 PM	G	W	2	N	G		2	
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other								1,2	1,2	

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments: Please email results to dbennett@bennett-ea.com

Relinquished by:	Company: BEA	Date/Time: 5/29/13 6:00	Received by: BEA fridge.	Company:	Date/Time:
Relinquished by:	Company: BEA	Date/Time: 5/30/13 10:25	Received by:	Company: TAL	Date/Time: 5/30/13 10:25
Relinquished by:	Company: TAL 1630	Date/Time: 5/30/13	Received in Laboratory by:	Company: TA BUFF	Date/Time: 5.31.13 0230

Form No. CA-C-WI-002, Rev. 4, dated 10/25/2012

2.9#1

6/7/2013

Login Sample Receipt Checklist

Client: Bennett Environmental Associates, Inc.

Job Number: 480-39233-1

Login Number: 39233

List Source: TestAmerica Buffalo

List Number: 1

Creator: Wienke, Robert

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	BEA
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	False	Lab to check

Login Sample Receipt Checklist

Client: Bennett Environmental Associates, Inc.

Job Number: 480-39233-1

Login Number: 39233
List Number: 1
Creator: Callahan, Christopher G

List Source: TestAmerica Burlington
List Creation: 05/31/13 01:58 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	NO NUMBERS
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.8ºC
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

						Sample ID	25 Knowles St.	30 Knowles St.	325 Schoolhouse Rd. Raw Water	325 Schoolhouse Rd. Intermediate	325 Schoolhouse Rd. Effluent	50 Alston Ave.	11 Eldia Way	555 Schoolhouse Rd.	20 Candlewood Dr.	Trip Blank	Trip Blank
						Sampled By											
						Sample Collection Date	05/29/2013 10:25	05/29/2013 11:30	05/29/2013 12:55	05/29/2013 13:05	05/29/2013 13:20	05/29/2013 14:30	05/29/2013 15:25	05/29/2013 16:05	05/29/2013 17:00	05/28/2013 15:45	05/28/2013 15:45
						Laboratory Order Number	480-39233-1	480-39233-3	480-39233-5	480-39233-7	480-39233-9	480-39233-11	480-39233-13	480-39233-15	480-39233-17	480-39233-19	480-39233-20
Parameter	**Reporting Units**	**GW1**	**GW2**	**RCGW1**	**RCGW2**	**DW MMCL**											
Volatiles by 524.2																	
1,1,1,2-Tetrachloroethane	ug/l	5	10	5	10	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
1,1,1-Trichloroethane	ug/l	200	4000	200	4000	200	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
1,1,2,2-Tetrachloroethane	ug/l	2	9	2	9	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
1,1,2-Trichloroethane	ug/l	5	900	5	900	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
1,1-Dichloroethane	ug/l	70	1000	70	1000	NA	0.20J	0.37J	0.44J	< 0.50	< 0.50	0.25J	0.20J		< 0.50	< 0.50	
1,1-Dichloroethene	ug/l	7	80	7	80	7	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
1,1-Dichloropropene	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
1,2,3-Trichlorobenzene	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
1,2,3-Trichloropropane	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
1,2,4-Trichlorobenzene	ug/l	70	2000	70	2000	70	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
1,2,4-Trimethylbenzene	ug/l	NA	NA	10000	100000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
1,2-Dibromo-3-Chloropropane	ug/l	NA	NA	100	1000	0.2	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**		**< 0.50**	**< 0.50**	
1,2-Dibromoethane	ug/l	0.02	2	0.02	2	0.02	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**		**< 0.50**	**< 0.50**	
1,2-Dichlorobenzene	ug/l	600	2000	600	2000	600	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
1,2-Dichloroethane	ug/l	5	5	5	5	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
1,2-Dichloropropane	ug/l	5	3	3	3	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
1,3,5-Trimethylbenzene	ug/l	NA	NA	100	1000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
1,3-Dichlorobenzene	ug/l	40	2000	40	2000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
1,3-Dichloropropane	ug/l	NA	NA	5000	50000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
1,4-Dichlorobenzene	ug/l	5	200	5	200	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
2,2-Dichloropropane	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
2-Butanone (MEK)	ug/l	4000	50000	4000	50000	NA	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5		< 2.5	0.87J	
2-Chlorotoluene	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
4-Chlorotoluene	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
4-Isopropyltoluene	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
4-Methyl-2-pentanone (MIBK)	ug/l	350	50000	350	50000	NA	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5		< 2.5	< 2.5	
Acetone	ug/l	6300	50000	6300	50000	NA	< 2.5	0.86J	0.68J	1.6J	< 2.5	< 2.5	0.63J		1.0J	3.6	
Benzene	ug/l	5	2000	5	2000	5	< 0.50	0.31J	0.65	< 0.50	< 0.50	< 0.50	0.20J		< 0.50	< 0.50	
Bromobenzene	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
Bromochloromethane	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
Bromoform	ug/l	4	700	4	700	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
Bromomethane	ug/l	10	7	7	7	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
Carbon tetrachloride	ug/l	5	2	2	2	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
Chlorobenzene	ug/l	100	200	100	200	100	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
Chlorodibromomethane	ug/l	2	20	2	20	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
Chloroethane	ug/l	NA	NA	1000	10000	NA	0.19J	0.44J	0.51	< 0.50	< 0.50	< 0.50	0.32J		< 0.50	< 0.50	
Chloroform	ug/l	70	50	50	50	NA	0.37J	0.21J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
Chloromethane	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
cis-1,2-Dichloroethene	ug/l	70	100	70	100	NA	1.7	1.8	2.4	< 0.50	< 0.50	< 0.50	0.79		< 0.50	< 0.50	
cis-1,3-Dichloropropene	ug/l	NA	NA	0.5	5	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
Dibromomethane	ug/l	NA	NA	5000	50000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
Dichlorobromomethane	ug/l	3	6	3	6	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
Dichlorodifluoromethane	ug/l	NA	NA	10000	100000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
Ethylbenzene	ug/l	700	20000	700	5000	700	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
Hexachlorobutadiene	ug/l	0.6	1	0.6	1	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
Isopropylbenzene	ug/l	NA	NA	10000	100000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
Methyl tert-butyl ether	ug/l	70	50000	70	5000	NA	0.25J	0.79	1.6	< 0.50	< 0.50	< 0.50	1.2		< 0.50	< 0.50	
Methylene Chloride	ug/l	5	10000	5	10000	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
m-Xylene & p-Xylene	ug/l	10000	9000	5000	5000	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0	
Naphthalene	ug/l	140	1000	140	1000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
n-Butylbenzene	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
N-Propylbenzene	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
o-Xylene	ug/l	10000	9000	5000	5000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
Styrene	ug/l	100	100	100	100	100	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
t-Butanol	ug/l	NA	NA	NA	NA	NA	2.8J	8.6J	15	< 10	< 10	< 10	6.3J		< 10	< 10	
tert-Butylbenzene	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
Tetrachloroethene	ug/l	5	50	5	50	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
Toluene	ug/l	1000	50000	1000	40000	1000	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
trans-1,2-Dichloroethene	ug/l	100	90	90	90	100	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
trans-1,3-Dichloropropene	ug/l	NA	NA	0.5	5	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
Trichloroethene	ug/l	5	30	5	30	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
Trichlorofluoromethane	ug/l	NA	NA	10000	100000	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	
Trihalomethanes, Total	ug/l	NA	NA	NA	NA	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0		< 2.0	< 2.0	
Vinyl chloride	ug/l	2	2	2	2	2	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.23J		< 0.50	< 0.50	
Xylenes, Total	ug/l	10000	9000	5000	5000	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0	
Semivolatiles by 522 MOD																	
1,4-Dioxane	ug/l	3	6000	3	6000	NA	2.7	4.9	7.8	< 0.20	< 0.20	0.20	4.3	0.048J	0.056J		0.048J

Notes:
ug/l - micrograms/liter
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
GW1 - Concentrations based on the use of groundwater as drinking water, either currently or in the foreseeable future.
GW2 - Concentrations based on the potential for volatile material to migrate into indoor air.
GW3 - Concentrations based on the potential environmental effects resulting from contaminated groundwater discharging to surface water.
RC - Risk Characterization approach, Standards may be supplemented or modified with site- and chemical-specific information.
UCL - Upper Concentration Limits in groundwater and soil are promulgated to minimize potential risks associated with uncontrolled environmental contamination, and the costs associated with cumulative anthropogenic contributions to background.

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as a row across sample columns, an intuitive analyte trending tool, auto-fill search functions and exports data into Excel, while keeping its original format.
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Client Name	*Bennett Environmental Assoc., Inc.*	**Location**	Town Of Eastham, 11 Eldia Way
Address	1573 Main St.		Eastham, MA
	PO Box 1743		
	Brewster, MA	**Sample Date**	05/31/13
Collected By	D. Bennett	**Sample Time**	13:40
Sample Type	Drinking Water	**Date Received**	05/31/13
Lab Order Number	DW-131293	**Well Specs**	NA

Location Source A	**Date Collected** 5/31/13	**Time Collected** 13:40	**Comments**			
Analysis Requested	***Units***	***Recommended Limits***	***Analysis Result***	***Method***	***Date Analyzed***	***Analyzed By***
Total Coliform	/100ml	0	0	SM9222B	5/31/2013	RS
pH	pH units	6.5-8.5	6.28	SM4500-H-B	5/31/2013	LL
Specific Conductance¤	umhos/cm	500	690	EPA 120.1	5/31/2013	LL
Nitrite-N	mg/L	1.00	<0.004	EPA 300.0	5/31/2013	LL
Nitrate-N	mg/L	10.0	0.08	EPA 300.0	5/31/2013	LL
Sodium	mg/L	20.0	54.2	EPA 200.7	6/4/2013	MC
Total Iron¤	mg/L	0.3	<0.05	EPA 200.7	6/4/2013	MC
Manganese¤	mg/L	0.05	1.26	EPA 200.7	6/4/2013	MC
Potassium¤	mg/L	20.0	5.5	EPA 200.7	6/4/2013	MC
Calcium	mg/L	N/A	42.0	EPA 200.7	6/4/2013	MC
Magnesium¤	mg/L	N/A	32.4	EPA 200.7	6/4/2013	MC
Total Hardness¤	mg/L	50-200	238	EPA 200.7	6/4/2013	MC
Alkalinity	mg/L	200	227	SM2320B	5/31/2013	LL
Sulfate	mg/L	250	48.3	EPA 300.0	5/31/2013	LL
Chloride¤	mg/L	250	68.4	EPA 300.0	5/31/2013	LL
Turbidity	NTU	5.0	<1.0	SM2130 B	5/31/2013	LL
Color¤	APC units	15	<5.0	SM2120 B	5/31/2013	LL
Free CO2	mg/L	50	335.3	Calculation	5/31/2013	LL

Comments:

pH is below recommended limit and may have corrosive characteristics.
Sodium level is not a health hazard, but if on a low soduim diet, consult a physician before drinking
Manganese is not a health hazard, but may cause staining and/or give water an odor or taste.

Water meets EPA standards and is suitable for drinking for parameters tested.

Date 6/5/13

Ronald J. Saari
Laboratory Director

BRL = Below Reportable Limits **See Attached*
¤Certification is not available for this analyte for non-potable water samples..

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-39233-2
Client Project/Site: Eastham Landfill IRA

For:
Bennett Environmental Associates, Inc.
1573 Main St.
Brewster, Massachusetts 02631

Attn: David Bennett

Authorized for release by:
6/14/2013 9:31:42 AM
Rich Emerich, Analyst V
rich.emerich@testamericainc.com

Designee for

Steve Hartmann, Lab Director
steve.hartmann@testamericainc.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-39233-2

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-39233-2

Laboratory: TestAmerica Buffalo

Narrative

Receipt
The samples were received on 5/31/2013 at 2:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.9º C.

Receipt Notes & Exceptions
The following samples were activated for 522 & 524 analysis by the client on 6/10/13: 11 Eldia Way Duplicate (480-39233-14), 25 Knowles St. Duplicate (480-39233-2), 30 Knowles St. Duplicate (480-39233-4) and 325 Schoolhouse Rd. Raw Water Duplicate (480-39233-6). This analysis was not originally requested on the chain-of-custody (COC).

GC/MS VOA
No analytical or quality issues were noted.

GC/MS Semi VOA
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-39233-2

Client Sample ID: 25 Knowles St. Duplicate — Lab Sample ID: 480-39233-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.21	J	0.50	0.074	ug/L	1		524.2	Total/NA
Chloroethane	0.15	J	0.50	0.070	ug/L	1		524.2	Total/NA
Chloroform	0.38	J	0.50	0.14	ug/L	1		524.2	Total/NA
cis-1,2-Dichloroethene	1.7		0.50	0.12	ug/L	1		524.2	Total/NA
Methyl tert-butyl ether	0.25	J	0.50	0.12	ug/L	1		524.2	Total/NA
t-Butanol	3.3	J	10	2.5	ug/L	1		524.2	Total/NA
1,4-Dioxane	2.8	B	0.20	0.040	ug/L	1		522 MOD	Total/NA

Client Sample ID: 30 Knowles St. Duplicate — Lab Sample ID: 480-39233-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.36	J	0.50	0.074	ug/L	1		524.2	Total/NA
Acetone	1.0	J	2.5	0.54	ug/L	1		524.2	Total/NA
Benzene	0.31	J	0.50	0.13	ug/L	1		524.2	Total/NA
Chloroethane	0.43	J	0.50	0.070	ug/L	1		524.2	Total/NA
Chloroform	0.20	J	0.50	0.14	ug/L	1		524.2	Total/NA
cis-1,2-Dichloroethene	1.8		0.50	0.12	ug/L	1		524.2	Total/NA
Methyl tert-butyl ether	0.81		0.50	0.12	ug/L	1		524.2	Total/NA
t-Butanol	9.4	J	10	2.5	ug/L	1		524.2	Total/NA
1,4-Dioxane	5.9	B	0.20	0.040	ug/L	1		522 MOD	Total/NA

Client Sample ID: 325 Schoolhouse Rd. Raw Water Duplicate — Lab Sample ID: 480-39233-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.41	J	0.50	0.074	ug/L	1		524.2	Total/NA
Benzene	0.58		0.50	0.13	ug/L	1		524.2	Total/NA
Chloroethane	0.64		0.50	0.070	ug/L	1		524.2	Total/NA
cis-1,2-Dichloroethene	2.3		0.50	0.12	ug/L	1		524.2	Total/NA
Methyl tert-butyl ether	1.6		0.50	0.12	ug/L	1		524.2	Total/NA
t-Butanol	14		10	2.5	ug/L	1		524.2	Total/NA
Vinyl chloride	0.27	J	0.50	0.059	ug/L	1		524.2	Total/NA
1,4-Dioxane	9.8	B	0.40	0.080	ug/L	2		522 MOD	Total/NA

Client Sample ID: 11 Eldia Way Duplicate — Lab Sample ID: 480-39233-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.20	J	0.50	0.074	ug/L	1		524.2	Total/NA
Acetone	0.56	J	2.5	0.54	ug/L	1		524.2	Total/NA
Benzene	0.19	J	0.50	0.13	ug/L	1		524.2	Total/NA
Chloroethane	0.36	J	0.50	0.070	ug/L	1		524.2	Total/NA
cis-1,2-Dichloroethene	0.85		0.50	0.12	ug/L	1		524.2	Total/NA
Methyl tert-butyl ether	1.3		0.50	0.12	ug/L	1		524.2	Total/NA
t-Butanol	7.2	J	10	2.5	ug/L	1		524.2	Total/NA
Vinyl chloride	0.24	J	0.50	0.059	ug/L	1		524.2	Total/NA
1,4-Dioxane	3.9	B	0.20	0.040	ug/L	1		522 MOD	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-39233-2

Client Sample ID: 25 Knowles St. Duplicate
Date Collected: 05/29/13 10:25
Date Received: 05/31/13 02:30

Lab Sample ID: 480-39233-2
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			06/01/13 00:15	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			06/01/13 00:15	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			06/01/13 00:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			06/01/13 00:15	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			06/01/13 00:15	1
1,1-Dichloroethane	**0.21**	**J**	0.50	0.074	ug/L			06/01/13 00:15	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			06/01/13 00:15	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			06/01/13 00:15	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			06/01/13 00:15	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			06/01/13 00:15	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			06/01/13 00:15	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			06/01/13 00:15	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			06/01/13 00:15	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			06/01/13 00:15	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			06/01/13 00:15	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			06/01/13 00:15	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			06/01/13 00:15	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			06/01/13 00:15	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			06/01/13 00:15	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			06/01/13 00:15	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			06/01/13 00:15	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			06/01/13 00:15	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			06/01/13 00:15	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			06/01/13 00:15	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			06/01/13 00:15	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			06/01/13 00:15	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			06/01/13 00:15	1
Acetone	ND		2.5	0.54	ug/L			06/01/13 00:15	1
Benzene	ND		0.50	0.13	ug/L			06/01/13 00:15	1
Bromobenzene	ND		0.50	0.13	ug/L			06/01/13 00:15	1
Bromochloromethane	ND		0.50	0.11	ug/L			06/01/13 00:15	1
Bromoform	ND		0.50	0.13	ug/L			06/01/13 00:15	1
Bromomethane	ND		0.50	0.051	ug/L			06/01/13 00:15	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			06/01/13 00:15	1
Chlorobenzene	ND		0.50	0.12	ug/L			06/01/13 00:15	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			06/01/13 00:15	1
Chloroethane	**0.15**	**J**	0.50	0.070	ug/L			06/01/13 00:15	1
Chloroform	**0.38**	**J**	0.50	0.14	ug/L			06/01/13 00:15	1
Chloromethane	ND		0.50	0.063	ug/L			06/01/13 00:15	1
cis-1,2-Dichloroethene	**1.7**		0.50	0.12	ug/L			06/01/13 00:15	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			06/01/13 00:15	1
Dibromomethane	ND		0.50	0.17	ug/L			06/01/13 00:15	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			06/01/13 00:15	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			06/01/13 00:15	1
Ethylbenzene	ND		0.50	0.11	ug/L			06/01/13 00:15	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			06/01/13 00:15	1
Isopropylbenzene	ND		0.50	0.053	ug/L			06/01/13 00:15	1
Methyl tert-butyl ether	**0.25**	**J**	0.50	0.12	ug/L			06/01/13 00:15	1
Methylene Chloride	ND		0.50	0.25	ug/L			06/01/13 00:15	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-39233-2

Client Sample ID: 25 Knowles St. Duplicate

Lab Sample ID: 480-39233-2

Date Collected: 05/29/13 10:25

Matrix: Water

Date Received: 05/31/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			06/01/13 00:15	1
Naphthalene	ND		0.50	0.060	ug/L			06/01/13 00:15	1
n-Butylbenzene	ND		0.50	0.081	ug/L			06/01/13 00:15	1
N-Propylbenzene	ND		0.50	0.057	ug/L			06/01/13 00:15	1
o-Xylene	ND		0.50	0.044	ug/L			06/01/13 00:15	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			06/01/13 00:15	1
Styrene	ND		0.50	0.044	ug/L			06/01/13 00:15	1
t-Butanol	**3.3**	**J**	10	2.5	ug/L			06/01/13 00:15	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			06/01/13 00:15	1
Tetrachloroethene	ND		0.50	0.067	ug/L			06/01/13 00:15	1
Toluene	ND		0.50	0.10	ug/L			06/01/13 00:15	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			06/01/13 00:15	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			06/01/13 00:15	1
Trichloroethene	ND		0.50	0.060	ug/L			06/01/13 00:15	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			06/01/13 00:15	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			06/01/13 00:15	1
Vinyl chloride	ND		0.50	0.059	ug/L			06/01/13 00:15	1
Xylenes, Total	ND		1.0	0.20	ug/L			06/01/13 00:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*103*		*80 - 120*		*06/01/13 00:15*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*06/01/13 00:15*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**2.8**	**B**	0.20	0.040	ug/L		06/11/13 08:41	06/11/13 19:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*79*		*70 - 130*	*06/11/13 08:41*	*06/11/13 19:16*	*1*

Client Sample ID: 30 Knowles St. Duplicate

Lab Sample ID: 480-39233-4

Date Collected: 05/29/13 11:30

Matrix: Water

Date Received: 05/31/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			06/01/13 01:06	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			06/01/13 01:06	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			06/01/13 01:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			06/01/13 01:06	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			06/01/13 01:06	1
1,1-Dichloroethane	**0.36**	**J**	0.50	0.074	ug/L			06/01/13 01:06	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			06/01/13 01:06	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			06/01/13 01:06	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			06/01/13 01:06	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			06/01/13 01:06	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			06/01/13 01:06	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			06/01/13 01:06	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			06/01/13 01:06	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			06/01/13 01:06	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-39233-2

Client Sample ID: 30 Knowles St. Duplicate
Date Collected: 05/29/13 11:30
Date Received: 05/31/13 02:30

Lab Sample ID: 480-39233-4
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			06/01/13 01:06	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			06/01/13 01:06	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			06/01/13 01:06	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			06/01/13 01:06	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			06/01/13 01:06	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			06/01/13 01:06	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			06/01/13 01:06	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			06/01/13 01:06	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			06/01/13 01:06	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			06/01/13 01:06	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			06/01/13 01:06	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			06/01/13 01:06	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			06/01/13 01:06	1
Acetone	**1.0**	**J**	2.5	0.54	ug/L			06/01/13 01:06	1
Benzene	**0.31**	**J**	0.50	0.13	ug/L			06/01/13 01:06	1
Bromobenzene	ND		0.50	0.13	ug/L			06/01/13 01:06	1
Bromochloromethane	ND		0.50	0.11	ug/L			06/01/13 01:06	1
Bromoform	ND		0.50	0.13	ug/L			06/01/13 01:06	1
Bromomethane	ND		0.50	0.051	ug/L			06/01/13 01:06	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			06/01/13 01:06	1
Chlorobenzene	ND		0.50	0.12	ug/L			06/01/13 01:06	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			06/01/13 01:06	1
Chloroethane	**0.43**	**J**	0.50	0.070	ug/L			06/01/13 01:06	1
Chloroform	**0.20**	**J**	0.50	0.14	ug/L			06/01/13 01:06	1
Chloromethane	ND		0.50	0.063	ug/L			06/01/13 01:06	1
cis-1,2-Dichloroethene	**1.8**		0.50	0.12	ug/L			06/01/13 01:06	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			06/01/13 01:06	1
Dibromomethane	ND		0.50	0.17	ug/L			06/01/13 01:06	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			06/01/13 01:06	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			06/01/13 01:06	1
Ethylbenzene	ND		0.50	0.11	ug/L			06/01/13 01:06	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			06/01/13 01:06	1
Isopropylbenzene	ND		0.50	0.053	ug/L			06/01/13 01:06	1
Methyl tert-butyl ether	**0.81**		0.50	0.12	ug/L			06/01/13 01:06	1
Methylene Chloride	ND		0.50	0.25	ug/L			06/01/13 01:06	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			06/01/13 01:06	1
Naphthalene	ND		0.50	0.060	ug/L			06/01/13 01:06	1
n-Butylbenzene	ND		0.50	0.081	ug/L			06/01/13 01:06	1
N-Propylbenzene	ND		0.50	0.057	ug/L			06/01/13 01:06	1
o-Xylene	ND		0.50	0.044	ug/L			06/01/13 01:06	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			06/01/13 01:06	1
Styrene	ND		0.50	0.044	ug/L			06/01/13 01:06	1
t-Butanol	**9.4**	**J**	10	2.5	ug/L			06/01/13 01:06	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			06/01/13 01:06	1
Tetrachloroethene	ND		0.50	0.067	ug/L			06/01/13 01:06	1
Toluene	ND		0.50	0.10	ug/L			06/01/13 01:06	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			06/01/13 01:06	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			06/01/13 01:06	1
Trichloroethene	ND		0.50	0.060	ug/L			06/01/13 01:06	1

Client Sample ID: 30 Knowles St. Duplicate

Lab Sample ID: 480-39233-4

Date Collected: 05/29/13 11:30

Matrix: Water

Date Received: 05/31/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		0.50	0.044	ug/L			06/01/13 01:06	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			06/01/13 01:06	1
Vinyl chloride	ND		0.50	0.059	ug/L			06/01/13 01:06	1
Xylenes, Total	ND		1.0	0.20	ug/L			06/01/13 01:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*100*		*80 - 120*		*06/01/13 01:06*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*06/01/13 01:06*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**5.9**	**B**	0.20	0.040	ug/L		06/11/13 08:41	06/11/13 19:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*91*		*70 - 130*	*06/11/13 08:41*	*06/11/13 19:40*	*1*

Client Sample ID: 325 Schoolhouse Rd. Raw Water Duplicate

Lab Sample ID: 480-39233-6

Date Collected: 05/29/13 12:55

Matrix: Water

Date Received: 05/31/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			06/04/13 02:45	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			06/04/13 02:45	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			06/04/13 02:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			06/04/13 02:45	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			06/04/13 02:45	1
1,1-Dichloroethane	**0.41**	**J**	0.50	0.074	ug/L			06/04/13 02:45	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			06/04/13 02:45	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			06/04/13 02:45	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			06/04/13 02:45	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			06/04/13 02:45	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			06/04/13 02:45	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			06/04/13 02:45	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			06/04/13 02:45	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			06/04/13 02:45	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			06/04/13 02:45	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			06/04/13 02:45	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			06/04/13 02:45	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			06/04/13 02:45	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			06/04/13 02:45	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			06/04/13 02:45	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			06/04/13 02:45	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			06/04/13 02:45	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			06/04/13 02:45	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			06/04/13 02:45	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			06/04/13 02:45	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			06/04/13 02:45	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			06/04/13 02:45	1
Acetone	ND		2.5	0.54	ug/L			06/04/13 02:45	1

Client Sample ID: 325 Schoolhouse Rd. Raw Water Duplicate
Lab Sample ID: 480-39233-6
Date Collected: 05/29/13 12:55
Matrix: Water
Date Received: 05/31/13 02:30

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.58**		0.50	0.13	ug/L			06/04/13 02:45	1
Bromobenzene	ND		0.50	0.13	ug/L			06/04/13 02:45	1
Bromochloromethane	ND		0.50	0.11	ug/L			06/04/13 02:45	1
Bromoform	ND		0.50	0.13	ug/L			06/04/13 02:45	1
Bromomethane	ND		0.50	0.051	ug/L			06/04/13 02:45	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			06/04/13 02:45	1
Chlorobenzene	ND		0.50	0.12	ug/L			06/04/13 02:45	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			06/04/13 02:45	1
Chloroethane	**0.64**		0.50	0.070	ug/L			06/04/13 02:45	1
Chloroform	ND		0.50	0.14	ug/L			06/04/13 02:45	1
Chloromethane	ND		0.50	0.063	ug/L			06/04/13 02:45	1
cis-1,2-Dichloroethene	**2.3**		0.50	0.12	ug/L			06/04/13 02:45	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			06/04/13 02:45	1
Dibromomethane	ND		0.50	0.17	ug/L			06/04/13 02:45	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			06/04/13 02:45	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			06/04/13 02:45	1
Ethylbenzene	ND		0.50	0.11	ug/L			06/04/13 02:45	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			06/04/13 02:45	1
Isopropylbenzene	ND		0.50	0.053	ug/L			06/04/13 02:45	1
Methyl tert-butyl ether	**1.6**		0.50	0.12	ug/L			06/04/13 02:45	1
Methylene Chloride	ND		0.50	0.25	ug/L			06/04/13 02:45	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			06/04/13 02:45	1
Naphthalene	ND		0.50	0.060	ug/L			06/04/13 02:45	1
n-Butylbenzene	ND		0.50	0.081	ug/L			06/04/13 02:45	1
N-Propylbenzene	ND		0.50	0.057	ug/L			06/04/13 02:45	1
o-Xylene	ND		0.50	0.044	ug/L			06/04/13 02:45	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			06/04/13 02:45	1
Styrene	ND		0.50	0.044	ug/L			06/04/13 02:45	1
t-Butanol	**14**		10	2.5	ug/L			06/04/13 02:45	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			06/04/13 02:45	1
Tetrachloroethene	ND		0.50	0.067	ug/L			06/04/13 02:45	1
Toluene	ND		0.50	0.10	ug/L			06/04/13 02:45	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			06/04/13 02:45	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			06/04/13 02:45	1
Trichloroethene	ND		0.50	0.060	ug/L			06/04/13 02:45	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			06/04/13 02:45	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			06/04/13 02:45	1
Vinyl chloride	**0.27**	**J**	0.50	0.059	ug/L			06/04/13 02:45	1
Xylenes, Total	ND		1.0	0.20	ug/L			06/04/13 02:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*104*		*80 - 120*		*06/04/13 02:45*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*06/04/13 02:45*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**9.8**	**B**	0.40	0.080	ug/L		06/11/13 08:41	06/12/13 13:31	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*91*		*70 - 130*	*06/11/13 08:41*	*06/12/13 13:31*	*2*

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-39233-2

Client Sample ID: 11 Eldia Way Duplicate
Date Collected: 05/29/13 15:25
Date Received: 05/31/13 02:30

Lab Sample ID: 480-39233-14
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			06/04/13 06:08	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			06/04/13 06:08	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			06/04/13 06:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			06/04/13 06:08	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			06/04/13 06:08	1
1,1-Dichloroethane	**0.20**	**J**	0.50	0.074	ug/L			06/04/13 06:08	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			06/04/13 06:08	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			06/04/13 06:08	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			06/04/13 06:08	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			06/04/13 06:08	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			06/04/13 06:08	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			06/04/13 06:08	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			06/04/13 06:08	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			06/04/13 06:08	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			06/04/13 06:08	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			06/04/13 06:08	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			06/04/13 06:08	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			06/04/13 06:08	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			06/04/13 06:08	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			06/04/13 06:08	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			06/04/13 06:08	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			06/04/13 06:08	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			06/04/13 06:08	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			06/04/13 06:08	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			06/04/13 06:08	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			06/04/13 06:08	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			06/04/13 06:08	1
Acetone	**0.56**	**J**	2.5	0.54	ug/L			06/04/13 06:08	1
Benzene	**0.19**	**J**	0.50	0.13	ug/L			06/04/13 06:08	1
Bromobenzene	ND		0.50	0.13	ug/L			06/04/13 06:08	1
Bromochloromethane	ND		0.50	0.11	ug/L			06/04/13 06:08	1
Bromoform	ND		0.50	0.13	ug/L			06/04/13 06:08	1
Bromomethane	ND		0.50	0.051	ug/L			06/04/13 06:08	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			06/04/13 06:08	1
Chlorobenzene	ND		0.50	0.12	ug/L			06/04/13 06:08	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			06/04/13 06:08	1
Chloroethane	**0.36**	**J**	0.50	0.070	ug/L			06/04/13 06:08	1
Chloroform	ND		0.50	0.14	ug/L			06/04/13 06:08	1
Chloromethane	ND		0.50	0.063	ug/L			06/04/13 06:08	1
cis-1,2-Dichloroethene	**0.85**		0.50	0.12	ug/L			06/04/13 06:08	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			06/04/13 06:08	1
Dibromomethane	ND		0.50	0.17	ug/L			06/04/13 06:08	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			06/04/13 06:08	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			06/04/13 06:08	1
Ethylbenzene	ND		0.50	0.11	ug/L			06/04/13 06:08	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			06/04/13 06:08	1
Isopropylbenzene	ND		0.50	0.053	ug/L			06/04/13 06:08	1
Methyl tert-butyl ether	**1.3**		0.50	0.12	ug/L			06/04/13 06:08	1
Methylene Chloride	ND		0.50	0.25	ug/L			06/04/13 06:08	1

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-39233-2

Client Sample ID: 11 Eldia Way Duplicate
Date Collected: 05/29/13 15:25
Date Received: 05/31/13 02:30

Lab Sample ID: 480-39233-14
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			06/04/13 06:08	1
Naphthalene	ND		0.50	0.060	ug/L			06/04/13 06:08	1
n-Butylbenzene	ND		0.50	0.081	ug/L			06/04/13 06:08	1
N-Propylbenzene	ND		0.50	0.057	ug/L			06/04/13 06:08	1
o-Xylene	ND		0.50	0.044	ug/L			06/04/13 06:08	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			06/04/13 06:08	1
Styrene	ND		0.50	0.044	ug/L			06/04/13 06:08	1
t-Butanol	**7.2**	**J**	10	2.5	ug/L			06/04/13 06:08	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			06/04/13 06:08	1
Tetrachloroethene	ND		0.50	0.067	ug/L			06/04/13 06:08	1
Toluene	ND		0.50	0.10	ug/L			06/04/13 06:08	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			06/04/13 06:08	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			06/04/13 06:08	1
Trichloroethene	ND		0.50	0.060	ug/L			06/04/13 06:08	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			06/04/13 06:08	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			06/04/13 06:08	1
Vinyl chloride	**0.24**	**J**	0.50	0.059	ug/L			06/04/13 06:08	1
Xylenes, Total	ND		1.0	0.20	ug/L			06/04/13 06:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*104*		*80 - 120*		*06/04/13 06:08*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*06/04/13 06:08*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**3.9**	**B**	0.20	0.040	ug/L		06/11/13 08:41	06/11/13 20:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*90*		*70 - 130*	*06/11/13 08:41*	*06/11/13 20:25*	*1*

Surrogate Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-39233-2

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)									
		12DCB	BFB								
Lab Sample ID	Client Sample ID	(80-120)	(80-120)								
480-39233-2	25 Knowles St. Duplicate	103	95								
480-39233-4	30 Knowles St. Duplicate	100	96								
480-39233-6	325 Schoolhouse Rd. Raw Water Du	104	104								
480-39233-14	11 Eldia Way Duplicate	104	100								
LCS 480-121529/4	Lab Control Sample	101	95								
LCS 480-121888/4	Lab Control Sample	101	102								
MB 480-121529/5	Method Blank	102	94								
MB 480-121888/5	Method Blank	102	103								

Surrogate Legend

12DCB = 1,2-Dichlorobenzene-d4

BFB = 4-Bromofluorobenzene (Surr)

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)									
		14DD8									
Lab Sample ID	Client Sample ID	(70-130)									
480-39233-2	25 Knowles St. Duplicate	79									
480-39233-4	30 Knowles St. Duplicate	91									
480-39233-6	325 Schoolhouse Rd. Raw Water Du	91									
480-39233-14	11 Eldia Way Duplicate	90									
LCS 200-56853/2-A	Lab Control Sample	99									
MB 200-56853/1-A	Method Blank	96									

Surrogate Legend

14DD8 = 1,4-Dioxane-d8 (Surr)

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-121529/5
Matrix: Water
Analysis Batch: 121529

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			05/31/13 16:53	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			05/31/13 16:53	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/31/13 16:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			05/31/13 16:53	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			05/31/13 16:53	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			05/31/13 16:53	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			05/31/13 16:53	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			05/31/13 16:53	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			05/31/13 16:53	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			05/31/13 16:53	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			05/31/13 16:53	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			05/31/13 16:53	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			05/31/13 16:53	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			05/31/13 16:53	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			05/31/13 16:53	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			05/31/13 16:53	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			05/31/13 16:53	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			05/31/13 16:53	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			05/31/13 16:53	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			05/31/13 16:53	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			05/31/13 16:53	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			05/31/13 16:53	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			05/31/13 16:53	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			05/31/13 16:53	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			05/31/13 16:53	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			05/31/13 16:53	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			05/31/13 16:53	1
Acetone	ND		2.5	0.54	ug/L			05/31/13 16:53	1
Benzene	ND		0.50	0.13	ug/L			05/31/13 16:53	1
Bromobenzene	ND		0.50	0.13	ug/L			05/31/13 16:53	1
Bromochloromethane	ND		0.50	0.11	ug/L			05/31/13 16:53	1
Bromoform	ND		0.50	0.13	ug/L			05/31/13 16:53	1
Bromomethane	ND		0.50	0.051	ug/L			05/31/13 16:53	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			05/31/13 16:53	1
Chlorobenzene	ND		0.50	0.12	ug/L			05/31/13 16:53	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			05/31/13 16:53	1
Chloroethane	ND		0.50	0.070	ug/L			05/31/13 16:53	1
Chloroform	ND		0.50	0.14	ug/L			05/31/13 16:53	1
Chloromethane	ND		0.50	0.063	ug/L			05/31/13 16:53	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			05/31/13 16:53	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/31/13 16:53	1
Dibromomethane	ND		0.50	0.17	ug/L			05/31/13 16:53	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			05/31/13 16:53	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			05/31/13 16:53	1
Ethylbenzene	ND		0.50	0.11	ug/L			05/31/13 16:53	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			05/31/13 16:53	1
Isopropylbenzene	ND		0.50	0.053	ug/L			05/31/13 16:53	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			05/31/13 16:53	1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-121529/5
Matrix: Water
Analysis Batch: 121529

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		0.50	0.25	ug/L			05/31/13 16:53	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			05/31/13 16:53	1
Naphthalene	ND		0.50	0.060	ug/L			05/31/13 16:53	1
n-Butylbenzene	ND		0.50	0.081	ug/L			05/31/13 16:53	1
N-Propylbenzene	ND		0.50	0.057	ug/L			05/31/13 16:53	1
o-Xylene	ND		0.50	0.044	ug/L			05/31/13 16:53	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			05/31/13 16:53	1
Styrene	ND		0.50	0.044	ug/L			05/31/13 16:53	1
t-Butanol	ND		10	2.5	ug/L			05/31/13 16:53	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			05/31/13 16:53	1
Tetrachloroethene	ND		0.50	0.067	ug/L			05/31/13 16:53	1
Toluene	ND		0.50	0.10	ug/L			05/31/13 16:53	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			05/31/13 16:53	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/31/13 16:53	1
Trichloroethene	ND		0.50	0.060	ug/L			05/31/13 16:53	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			05/31/13 16:53	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			05/31/13 16:53	1
Vinyl chloride	ND		0.50	0.059	ug/L			05/31/13 16:53	1
Xylenes, Total	ND		1.0	0.20	ug/L			05/31/13 16:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*102*		*80 - 120*		*05/31/13 16:53*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*05/31/13 16:53*	*1*

Lab Sample ID: LCS 480-121529/4
Matrix: Water
Analysis Batch: 121529

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	4.00	4.12		ug/L		103	70 - 130
1,1,1-Trichloroethane	4.00	4.04		ug/L		101	70 - 130
1,1,2,2-Tetrachloroethane	4.00	4.09		ug/L		102	70 - 130
1,1,2-Trichloroethane	4.00	4.19		ug/L		105	70 - 130
1,1-Dichloroethane	4.00	3.75		ug/L		94	70 - 130
1,1-Dichloroethene	4.00	3.42		ug/L		86	70 - 130
1,1-Dichloropropene	4.00	4.09		ug/L		102	70 - 130
1,2,3-Trichlorobenzene	4.00	4.41		ug/L		110	70 - 130
1,2,3-Trichloropropane	4.00	4.22		ug/L		105	70 - 130
1,2,4-Trichlorobenzene	4.00	4.07		ug/L		102	70 - 130
1,2,4-Trimethylbenzene	4.00	4.06		ug/L		102	70 - 130
1,2-Dibromo-3-Chloropropane	4.00	4.40		ug/L		110	70 - 130
1,2-Dibromoethane	4.00	4.14		ug/L		103	70 - 130
1,2-Dichlorobenzene	4.00	3.93		ug/L		98	70 - 130
1,2-Dichloroethane	4.00	4.26		ug/L		106	70 - 130
1,2-Dichloropropane	4.00	3.86		ug/L		97	70 - 130
1,3,5-Trimethylbenzene	4.00	4.05		ug/L		101	70 - 130
1,3-Dichlorobenzene	4.00	3.90		ug/L		97	70 - 130
1,3-Dichloropropane	4.00	4.05		ug/L		101	70 - 130

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-121529/4
Matrix: Water
Analysis Batch: 121529

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	4.00	3.89		ug/L		97	70 - 130
2,2-Dichloropropane	4.00	2.84		ug/L		71	70 - 130
2-Butanone (MEK)	20.0	21.9		ug/L		109	70 - 130
2-Chlorotoluene	4.00	3.98		ug/L		99	70 - 130
4-Chlorotoluene	4.00	3.99		ug/L		100	70 - 130
4-Isopropyltoluene	4.00	4.07		ug/L		102	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	21.6		ug/L		108	70 - 130
Acetone	20.0	22.1		ug/L		111	70 - 130
Benzene	4.00	3.94		ug/L		98	70 - 130
Bromobenzene	4.00	4.22		ug/L		106	70 - 130
Bromochloromethane	4.00	4.08		ug/L		102	70 - 130
Bromoform	4.00	3.78		ug/L		95	70 - 130
Bromomethane	4.00	3.86		ug/L		96	70 - 130
Carbon tetrachloride	4.00	4.94		ug/L		123	70 - 130
Chlorobenzene	4.00	3.88		ug/L		97	70 - 130
Chlorodibromomethane	4.00	3.91		ug/L		98	70 - 130
Chloroethane	4.00	3.69		ug/L		92	70 - 130
Chloroform	4.00	3.86		ug/L		97	70 - 130
Chloromethane	4.00	3.42		ug/L		85	70 - 130
cis-1,2-Dichloroethene	4.00	3.70		ug/L		92	70 - 130
cis-1,3-Dichloropropene	4.00	3.90		ug/L		98	70 - 130
Dibromomethane	4.00	3.99		ug/L		100	70 - 130
Dichlorobromomethane	4.00	4.31		ug/L		108	70 - 130
Dichlorodifluoromethane	4.00	4.02		ug/L		101	70 - 130
Ethylbenzene	4.00	3.77		ug/L		94	70 - 130
Hexachlorobutadiene	4.00	4.22		ug/L		106	70 - 130
Isopropylbenzene	4.00	3.78		ug/L		95	70 - 130
Methyl tert-butyl ether	4.00	3.70		ug/L		92	70 - 130
Methylene Chloride	4.00	3.46		ug/L		87	70 - 130
Naphthalene	4.00	4.37		ug/L		109	70 - 130
n-Butylbenzene	4.00	4.00		ug/L		100	70 - 130
N-Propylbenzene	4.00	4.00		ug/L		100	70 - 130
sec-Butylbenzene	4.00	4.07		ug/L		102	70 - 130
Styrene	4.00	4.04		ug/L		101	70 - 130
tert-Butylbenzene	4.00	4.17		ug/L		104	70 - 130
Tetrachloroethene	4.00	3.78		ug/L		95	70 - 130
Toluene	4.00	4.08		ug/L		102	70 - 130
trans-1,2-Dichloroethene	4.00	3.64		ug/L		91	70 - 130
trans-1,3-Dichloropropene	4.00	3.49		ug/L		87	70 - 130
Trichloroethene	4.00	3.82		ug/L		95	70 - 130
Trichlorofluoromethane	4.00	4.42		ug/L		111	70 - 130
Vinyl chloride	4.00	3.96		ug/L		99	70 - 130
Xylenes, Total	12.0	11.6		ug/L		96	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichlorobenzene-d4	*101*		*80 - 120*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-121888/5
Matrix: Water
Analysis Batch: 121888

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.14	ug/L			06/04/13 02:10	1
1,1,1-Trichloroethane	ND		0.50	0.063	ug/L			06/04/13 02:10	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			06/04/13 02:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.17	ug/L			06/04/13 02:10	1
1,1,2-Trichloroethane	ND		0.50	0.17	ug/L			06/04/13 02:10	1
1,1-Dichloroethane	ND		0.50	0.074	ug/L			06/04/13 02:10	1
1,1-Dichloroethene	ND		0.50	0.059	ug/L			06/04/13 02:10	1
1,1-Dichloropropene	ND		0.50	0.063	ug/L			06/04/13 02:10	1
1,2,3-Trichlorobenzene	ND		0.50	0.057	ug/L			06/04/13 02:10	1
1,2,3-Trichloropropane	ND		0.50	0.12	ug/L			06/04/13 02:10	1
1,2,4-Trichlorobenzene	ND		0.50	0.13	ug/L			06/04/13 02:10	1
1,2,4-Trimethylbenzene	ND		0.50	0.090	ug/L			06/04/13 02:10	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.21	ug/L			06/04/13 02:10	1
1,2-Dibromoethane	ND		0.50	0.14	ug/L			06/04/13 02:10	1
1,2-Dichlorobenzene	ND		0.50	0.16	ug/L			06/04/13 02:10	1
1,2-Dichloroethane	ND		0.50	0.14	ug/L			06/04/13 02:10	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			06/04/13 02:10	1
1,3,5-Trimethylbenzene	ND		0.50	0.043	ug/L			06/04/13 02:10	1
1,3-Dichlorobenzene	ND		0.50	0.13	ug/L			06/04/13 02:10	1
1,3-Dichloropropane	ND		0.50	0.15	ug/L			06/04/13 02:10	1
1,4-Dichlorobenzene	ND		0.50	0.13	ug/L			06/04/13 02:10	1
2,2-Dichloropropane	ND		0.50	0.048	ug/L			06/04/13 02:10	1
2-Butanone (MEK)	ND		2.5	0.25	ug/L			06/04/13 02:10	1
2-Chlorotoluene	ND		0.50	0.050	ug/L			06/04/13 02:10	1
4-Chlorotoluene	ND		0.50	0.050	ug/L			06/04/13 02:10	1
4-Isopropyltoluene	ND		0.50	0.063	ug/L			06/04/13 02:10	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	0.26	ug/L			06/04/13 02:10	1
Acetone	ND		2.5	0.54	ug/L			06/04/13 02:10	1
Benzene	ND		0.50	0.13	ug/L			06/04/13 02:10	1
Bromobenzene	ND		0.50	0.13	ug/L			06/04/13 02:10	1
Bromochloromethane	ND		0.50	0.11	ug/L			06/04/13 02:10	1
Bromoform	ND		0.50	0.13	ug/L			06/04/13 02:10	1
Bromomethane	ND		0.50	0.051	ug/L			06/04/13 02:10	1
Carbon tetrachloride	ND		0.50	0.053	ug/L			06/04/13 02:10	1
Chlorobenzene	ND		0.50	0.12	ug/L			06/04/13 02:10	1
Chlorodibromomethane	ND		0.50	0.16	ug/L			06/04/13 02:10	1
Chloroethane	ND		0.50	0.070	ug/L			06/04/13 02:10	1
Chloroform	ND		0.50	0.14	ug/L			06/04/13 02:10	1
Chloromethane	ND		0.50	0.063	ug/L			06/04/13 02:10	1
cis-1,2-Dichloroethene	ND		0.50	0.12	ug/L			06/04/13 02:10	1
cis-1,3-Dichloropropene	ND		0.50	0.080	ug/L			06/04/13 02:10	1
Dibromomethane	ND		0.50	0.17	ug/L			06/04/13 02:10	1
Dichlorobromomethane	ND		0.50	0.14	ug/L			06/04/13 02:10	1
Dichlorodifluoromethane	ND		0.50	0.070	ug/L			06/04/13 02:10	1
Ethylbenzene	ND		0.50	0.11	ug/L			06/04/13 02:10	1
Hexachlorobutadiene	ND		0.50	0.11	ug/L			06/04/13 02:10	1
Isopropylbenzene	ND		0.50	0.053	ug/L			06/04/13 02:10	1
Methyl tert-butyl ether	ND		0.50	0.12	ug/L			06/04/13 02:10	1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-121888/5
Matrix: Water
Analysis Batch: 121888

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		0.50	0.25	ug/L			06/04/13 02:10	1
m-Xylene & p-Xylene	ND		1.0	0.087	ug/L			06/04/13 02:10	1
Naphthalene	ND		0.50	0.060	ug/L			06/04/13 02:10	1
n-Butylbenzene	ND		0.50	0.081	ug/L			06/04/13 02:10	1
N-Propylbenzene	ND		0.50	0.057	ug/L			06/04/13 02:10	1
o-Xylene	ND		0.50	0.044	ug/L			06/04/13 02:10	1
sec-Butylbenzene	ND		0.50	0.068	ug/L			06/04/13 02:10	1
Styrene	ND		0.50	0.044	ug/L			06/04/13 02:10	1
t-Butanol	ND		10	2.5	ug/L			06/04/13 02:10	1
tert-Butylbenzene	ND		0.50	0.060	ug/L			06/04/13 02:10	1
Tetrachloroethene	ND		0.50	0.067	ug/L			06/04/13 02:10	1
Toluene	ND		0.50	0.10	ug/L			06/04/13 02:10	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			06/04/13 02:10	1
trans-1,3-Dichloropropene	ND		0.50	0.10	ug/L			06/04/13 02:10	1
Trichloroethene	ND		0.50	0.060	ug/L			06/04/13 02:10	1
Trichlorofluoromethane	ND		0.50	0.044	ug/L			06/04/13 02:10	1
Trihalomethanes, Total	ND		2.0	1.0	ug/L			06/04/13 02:10	1
Vinyl chloride	ND		0.50	0.059	ug/L			06/04/13 02:10	1
Xylenes, Total	ND		1.0	0.20	ug/L			06/04/13 02:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*102*		*80 - 120*		*06/04/13 02:10*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*06/04/13 02:10*	*1*

Lab Sample ID: LCS 480-121888/4
Matrix: Water
Analysis Batch: 121888

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	4.00	3.86		ug/L		97	70 - 130
1,1,1-Trichloroethane	4.00	3.98		ug/L		100	70 - 130
1,1,2,2-Tetrachloroethane	4.00	3.65		ug/L		91	70 - 130
1,1,2-Trichloroethane	4.00	3.79		ug/L		95	70 - 130
1,1-Dichloroethane	4.00	3.70		ug/L		93	70 - 130
1,1-Dichloroethene	4.00	3.35		ug/L		84	70 - 130
1,1-Dichloropropene	4.00	4.04		ug/L		101	70 - 130
1,2,3-Trichlorobenzene	4.00	3.67		ug/L		92	70 - 130
1,2,3-Trichloropropane	4.00	3.85		ug/L		96	70 - 130
1,2,4-Trichlorobenzene	4.00	3.77		ug/L		94	70 - 130
1,2,4-Trimethylbenzene	4.00	3.93		ug/L		98	70 - 130
1,2-Dibromo-3-Chloropropane	4.00	3.61		ug/L		90	70 - 130
1,2-Dibromoethane	4.00	3.82		ug/L		96	70 - 130
1,2-Dichlorobenzene	4.00	3.78		ug/L		95	70 - 130
1,2-Dichloroethane	4.00	3.75		ug/L		94	70 - 130
1,2-Dichloropropane	4.00	3.77		ug/L		94	70 - 130
1,3,5-Trimethylbenzene	4.00	3.90		ug/L		97	70 - 130
1,3-Dichlorobenzene	4.00	3.80		ug/L		95	70 - 130
1,3-Dichloropropane	4.00	3.91		ug/L		98	70 - 130

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-121888/4
Matrix: Water
Analysis Batch: 121888

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	4.00	3.75		ug/L		94	70 - 130
2,2-Dichloropropane	4.00	3.99		ug/L		100	70 - 130
2-Butanone (MEK)	20.0	18.1		ug/L		90	70 - 130
2-Chlorotoluene	4.00	3.81		ug/L		95	70 - 130
4-Chlorotoluene	4.00	3.86		ug/L		97	70 - 130
4-Isopropyltoluene	4.00	3.87		ug/L		97	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	19.3		ug/L		97	70 - 130
Acetone	20.0	17.1		ug/L		85	70 - 130
Benzene	4.00	3.86		ug/L		96	70 - 130
Bromobenzene	4.00	3.85		ug/L		96	70 - 130
Bromochloromethane	4.00	3.72		ug/L		93	70 - 130
Bromoform	4.00	3.70		ug/L		93	70 - 130
Bromomethane	4.00	3.89		ug/L		97	70 - 130
Carbon tetrachloride	4.00	3.96		ug/L		99	70 - 130
Chlorobenzene	4.00	3.87		ug/L		97	70 - 130
Chlorodibromomethane	4.00	3.84		ug/L		96	70 - 130
Chloroethane	4.00	4.10		ug/L		102	70 - 130
Chloroform	4.00	3.71		ug/L		93	70 - 130
Chloromethane	4.00	3.76		ug/L		94	70 - 130
cis-1,2-Dichloroethene	4.00	3.75		ug/L		94	70 - 130
cis-1,3-Dichloropropene	4.00	3.88		ug/L		97	70 - 130
Dibromomethane	4.00	3.72		ug/L		93	70 - 130
Dichlorobromomethane	4.00	3.72		ug/L		93	70 - 130
Dichlorodifluoromethane	4.00	4.05		ug/L		101	70 - 130
Ethylbenzene	4.00	3.92		ug/L		98	70 - 130
Hexachlorobutadiene	4.00	4.59		ug/L		115	70 - 130
Isopropylbenzene	4.00	3.99		ug/L		100	70 - 130
Methyl tert-butyl ether	4.00	3.66		ug/L		91	70 - 130
Methylene Chloride	4.00	3.62		ug/L		90	70 - 130
Naphthalene	4.00	3.91		ug/L		98	70 - 130
n-Butylbenzene	4.00	4.03		ug/L		101	70 - 130
N-Propylbenzene	4.00	3.92		ug/L		98	70 - 130
sec-Butylbenzene	4.00	3.91		ug/L		98	70 - 130
Styrene	4.00	4.01		ug/L		100	70 - 130
tert-Butylbenzene	4.00	3.96		ug/L		99	70 - 130
Tetrachloroethene	4.00	3.86		ug/L		97	70 - 130
Toluene	4.00	3.92		ug/L		98	70 - 130
trans-1,2-Dichloroethene	4.00	3.66		ug/L		91	70 - 130
trans-1,3-Dichloropropene	4.00	3.05		ug/L		76	70 - 130
Trichloroethene	4.00	3.71		ug/L		93	70 - 130
Trichlorofluoromethane	4.00	3.87		ug/L		97	70 - 130
Vinyl chloride	4.00	4.13		ug/L		103	70 - 130
Xylenes, Total	12.0	11.9		ug/L		99	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichlorobenzene-d4	*101*		*80 - 120*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-39233-2

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Lab Sample ID: MB 200-56853/1-A
Matrix: Water
Analysis Batch: 56884

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 56853

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.115	J	0.20	0.040	ug/L		06/11/13 08:41	06/11/13 18:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*96*		*70 - 130*	*06/11/13 08:41*	*06/11/13 18:10*	*1*

Lab Sample ID: LCS 200-56853/2-A
Matrix: Water
Analysis Batch: 56884

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 56853

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane			8.00	8.48	E	ug/L		106	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,4-Dioxane-d8 (Surr)	*99*		*70 - 130*

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-39233-2

GC/MS VOA

Analysis Batch: 121529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-39233-2	25 Knowles St. Duplicate	Total/NA	Water	524.2	
480-39233-4	30 Knowles St. Duplicate	Total/NA	Water	524.2	
LCS 480-121529/4	Lab Control Sample	Total/NA	Water	524.2	
MB 480-121529/5	Method Blank	Total/NA	Water	524.2	

Analysis Batch: 121888

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-39233-6	325 Schoolhouse Rd. Raw Water Duplicate	Total/NA	Water	524.2	
480-39233-14	11 Eldia Way Duplicate	Total/NA	Water	524.2	
LCS 480-121888/4	Lab Control Sample	Total/NA	Water	524.2	
MB 480-121888/5	Method Blank	Total/NA	Water	524.2	

GC/MS Semi VOA

Prep Batch: 56853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-39233-2	25 Knowles St. Duplicate	Total/NA	Water	3535A	
480-39233-4	30 Knowles St. Duplicate	Total/NA	Water	3535A	
480-39233-6	325 Schoolhouse Rd. Raw Water Duplicate	Total/NA	Water	3535A	
480-39233-14	11 Eldia Way Duplicate	Total/NA	Water	3535A	
LCS 200-56853/2-A	Lab Control Sample	Total/NA	Water	3535A	
MB 200-56853/1-A	Method Blank	Total/NA	Water	3535A	

Analysis Batch: 56884

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-39233-2	25 Knowles St. Duplicate	Total/NA	Water	522 MOD	56853
480-39233-4	30 Knowles St. Duplicate	Total/NA	Water	522 MOD	56853
480-39233-14	11 Eldia Way Duplicate	Total/NA	Water	522 MOD	56853
LCS 200-56853/2-A	Lab Control Sample	Total/NA	Water	522 MOD	56853
MB 200-56853/1-A	Method Blank	Total/NA	Water	522 MOD	56853

Analysis Batch: 56935

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-39233-6	325 Schoolhouse Rd. Raw Water Duplicate	Total/NA	Water	522 MOD	56853

Lab Chronicle

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-39233-2

Client Sample ID: 25 Knowles St. Duplicate

Lab Sample ID: 480-39233-2

Date Collected: 05/29/13 10:25
Matrix: Water
Date Received: 05/31/13 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	121529	06/01/13 00:15	CDC	TAL BUF
Total/NA	Prep	3535A			56853	06/11/13 08:41	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	56884	06/11/13 19:16	RJH	TAL BUR

Client Sample ID: 30 Knowles St. Duplicate

Lab Sample ID: 480-39233-4

Date Collected: 05/29/13 11:30
Matrix: Water
Date Received: 05/31/13 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	121529	06/01/13 01:06	CDC	TAL BUF
Total/NA	Prep	3535A			56853	06/11/13 08:41	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	56884	06/11/13 19:40	RJH	TAL BUR

Client Sample ID: 325 Schoolhouse Rd. Raw Water Duplicate

Lab Sample ID: 480-39233-6

Date Collected: 05/29/13 12:55
Matrix: Water
Date Received: 05/31/13 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	121888	06/04/13 02:45	LH	TAL BUF
Total/NA	Prep	3535A			56853	06/11/13 08:41	JAB	TAL BUR
Total/NA	Analysis	522 MOD		2	56935	06/12/13 13:31	RJH	TAL BUR

Client Sample ID: 11 Eldia Way Duplicate

Lab Sample ID: 480-39233-14

Date Collected: 05/29/13 15:25
Matrix: Water
Date Received: 05/31/13 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	121888	06/04/13 06:08	LH	TAL BUF
Total/NA	Prep	3535A			56853	06/11/13 08:41	JAB	TAL BUR
Total/NA	Analysis	522 MOD		1	56884	06/11/13 20:25	RJH	TAL BUR

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Certification Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-39233-2

Laboratory: TestAmerica Buffalo

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-13
California	NELAP	9	1169CA	09-30-13
Connecticut	State Program	1	PH-0568	09-30-14
Florida	NELAP	4	E87672	06-30-13
Georgia	State Program	4	N/A	03-31-14
Georgia	State Program	4	956	06-30-13
Georgia	State Program	4	956	03-31-14
Illinois	NELAP	5	200003	09-30-13
Iowa	State Program	7	374	03-15-15
Kansas	NELAP	7	E-10187	01-31-14
Kentucky	State Program	4	90029	12-31-13
Kentucky (UST)	State Program	4	30	04-01-14
Louisiana	NELAP	6	02031	06-30-13
Maine	State Program	1	NY00044	12-04-13
Maryland	State Program	3	294	03-31-14
Massachusetts	State Program	1	M-NY044	06-30-13
Michigan	State Program	5	9937	04-01-13 *
Minnesota	NELAP	5	036-999-337	12-31-13
New Hampshire	NELAP	1	2973	09-11-13
New Hampshire	NELAP	1	2337	11-17-13
New Jersey	NELAP	2	NY455	06-30-13
New York	NELAP	2	10026	04-01-14
North Dakota	State Program	8	R-176	03-31-14
Oklahoma	State Program	6	9421	08-31-13
Oregon	NELAP	10	NY200003	06-09-14
Pennsylvania	NELAP	3	68-00281	07-31-13
Rhode Island	State Program	1	LAO00328	12-31-13
Tennessee	State Program	4	TN02970	04-01-14
Texas	NELAP	6	T104704412-11-2	07-31-13
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAP	3	460185	09-14-13
Washington	State Program	10	C784	02-10-14
West Virginia DEP	State Program	3	252	09-30-13
Wisconsin	State Program	5	998310390	08-31-13

Laboratory: TestAmerica Burlington

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Connecticut	State Program	1	PH-0751	09-30-13
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-13-15
Florida	NELAP	4	E87467	06-30-13
L-A-B	DoD ELAP		L2336	10-26-13
Louisiana	NELAP	6	176292	06-30-13
Minnesota	NELAP	5	050-999-436	12-31-13
New Hampshire	NELAP	1	2006	12-18-13
New Jersey	NELAP	2	VT972	06-30-13
New York	NELAP	2	10391	04-01-14
Pennsylvania	NELAP	3	68-00489	04-30-14
Rhode Island	State Program	1	LAO00298	12-30-13

* Expired certification is currently pending renewal and is considered valid.

Certification Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-39233-2

Laboratory: TestAmerica Burlington (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
US Fish & Wildlife	Federal		LE-058448-0	02-28-14
USDA	Federal		P330-11-00093	02-17-14
Vermont	State Program	1	VT-4000	12-31-13
Virginia	NELAP	3	460209	12-14-13

Method Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-39233-2

Method	Method Description	Protocol	Laboratory
524.2	Volatile Organic Compounds (GC/MS)	EPA-DW	TAL BUF
522 MOD	1,4 Dioxane (GC/MS SIM)	EPA	TAL BUR

Protocol References:

EPA = US Environmental Protection Agency

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: Bennett Environmental Associates, Inc.
Project/Site: Eastham Landfill IRA

TestAmerica Job ID: 480-39233-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-39233-2	25 Knowles St. Duplicate	Water	05/29/13 10:25	05/31/13 02:30
480-39233-4	30 Knowles St. Duplicate	Water	05/29/13 11:30	05/31/13 02:30
480-39233-6	325 Schoolhouse Rd. Raw Water Duplicate	Water	05/29/13 12:55	05/31/13 02:30
480-39233-14	11 Eldia Way Duplicate	Water	05/29/13 15:25	05/31/13 02:30

TestAmerica Westfield
53 Southampton Road

Westfield, MA 01085
phone 413.572.4000 fax 413.572.3707

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other: **MA MCP**

Client Contact	**Project Manager: David Bennett**	**Site Contact:**	**Date:**	COC No:
Bennett Environmental Associates, Inc.	**Tel/Fax: 508-896-1706**	**Lab Contact:**	**Carrier:**	1 of 2 COCs
Address 1573 Main St. / P.O. Box 1743	**Analysis Turnaround Time**			**For Lab Use Only:**
City/State/Zip Brewster, MA 02631	Calendar (C) or Work Days (W) C			Walk-in Client:
508-896-1706 Phone	TAT if different from Below			Lab Sampling:
508-896-5109 FAX	☑ 2 weeks			
Project Name: Eastham Landfill	☐ 1 week			Job / SDG No.: BEA11-10104
Site: Town of Eastham	☐ 2 days			
P O # BEA09-10104	☐ 1 day			Sampler: JTW

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample (Y / N)	Composite = C / Grab = G	VOCs via 524.2	1,4-Dioxane via 522.1 Mod	Sample Specific Notes:
25 Knowles St.	5/29/2013	10:25 AM	G	W	5	N	G	3	2	
25 Knowles St. Duplicate	5/29/2013	10:25 AM	G	W	4	N	G	3	1	
30 Knowles St.	5/29/2013	11:30 am	G	W	5	N	G	3	2	
30 Knowles St. Duplicate	5/29/2013	11:30 am	G	W	4	N	G	3	1	
325 Schoolhouse Rd. Raw water	5/29/2013	12:55 pm	G	W	5	N	G	3	2	
325 Schoolhouse Rd. Raw water Duplicate	5/29/2013	12:55 pm	G	W	4	N	G	3	1	
325 Schoolhouse Rd. Intermediate	5/29/2013	1:05 pm	G	W	5	N	G	3	2	
325 Schoolhouse Rd. Intermediate Duplicate	5/29/2013	1:05 pm	G	W	4	N	G	3	1	
325 Schoolhouse Rd. Effluent	5/29/2013	1:20 pm	G	W	5	N	G	3	2	
325 Schoolhouse Rd. Effluent Duplicate	5/29/2013	1:20 pm	G	W	4	N	G	3	1	
50 Alston Ave.	5/29/2013	2:30 pm	G	W	5	N	G	3	2	
50 Alston Ave. Duplicate	5/29/2013	2:30 pm	G	W	4	N	G	3	1	
								1,2	1,2	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments: Please email results to dbennett@bennett-ea.com

Relinquished by:	Company: BEA	Date/Time: 5/29/13 6:00	Received by: BEA sample fridge.	Company:	Date/Time:
Relinquished by:	Company: BEA	Date/Time: 5/30/13 10:25 AM	Received by:	Company: TAL	Date/Time: 5/30/13 10:25
Relinquished by:	Company: TAL 163	Date/Time: 5/30/13	Received in Laboratory by:	Company: TA Bill	Date/Time: 5.31.13 0230

Form No. CA-C-WI-002, Rev. 4, dated 10/25/2012

2.9 #1

TestAmerica Westfield
53 Southampton Road

Westfield, MA 01085
phone 413.572.4000 fax 413.572.3707

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other: **MA MCP**

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: David Bennett	Site Contact:	Date:	COC No:
Bennett Environmental Associates, Inc.	Tel/Fax: 508-896-1706	Lab Contact:	Carrier:	2 of 2 COCs
Address 1573 Main St. / P.O. Box 1743	**Analysis Turnaround Time**			For Lab Use Only:
City/State/Zip Brewster, MA 02631	Calendar (C) or Work Days (W) C			Walk-in Client:
508-896-1706 Phone	TAT if different from Below			Lab Sampling:
508-896-5109 FAX	☑ 2 weeks			
Project Name: Eastham Landfill	☐ 1 week			Job / SDG No.:
Site: Town of Eastham	☐ 2 days			
P O # BEA09-10104	☐ 1 day			Sampler: JTW

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample (Y / N)	Composite = C / Grab = G	VOCs via 524.2	1,4-Dioxane via 522.1 Mod	Sample Specific Notes:
11 Eldia Way	5/29/2013	3:25 PM	G	W	5	N	G	3	2	
11 Eldia Way Duplicate	5/29/2013	3:25 PM	G	W	4	N	G	3	1	
555 Schoolhouse Rd.	5/29/2013	4:05 pm	G	W	2	N	G		2	
555 Schoolhouse Rd. Duplicate	5/29/2013	4:05 pm	G	W	1	N	G		1	
20 Candlewood Dr.	5/29/2013	5:00 PM	G	W	5	N	G	3	2	
20 Candlewood Dr. Duplicate	5/29/2013	5:00 PM	G	W	4	N	G	3	1	
Trip Blank	5/28/2013	3:45 PM	G	W	3	N	G	3		
Trip Blank	5/28/2013	3:45 PM	G	W	2	N	G		2	
								1,2	1,2	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments: Please email results to dbennett@bennett-ea.com

	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	BEA	5/29/13 6:00	BEA fridge.		
Relinquished by:	BEA	5/30/13 10:25		TAL	5/30/13 10:25
Relinquished by:	TAL 1630	5/30/13	Received in Laboratory by:	TA BUFF	5.31.13 0230

Form No. CA-C-WI-002, Rev. 4, dated 10/25/2012

2.9#1

6/14/2013

Login Sample Receipt Checklist

Client: Bennett Environmental Associates, Inc.

Job Number: 480-39233-2

Login Number: 39233

List Source: TestAmerica Buffalo

List Number: 1

Creator: Wienke, Robert

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	BEA
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	False	Lab to check

Login Sample Receipt Checklist

Client: Bennett Environmental Associates, Inc.

Job Number: 480-39233-2

Login Number: 39233
List Number: 1
Creator: Callahan, Christopher G

List Source: TestAmerica Burlington
List Creation: 05/31/13 01:58 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	NO NUMBERS
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.8ºC
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

						Sample ID	25 Knowles St. Duplicate	30 Knowles St. Duplicate	325 Schoolhouse Rd. Raw Water Duplicate	11 Eldia Way Duplicate
						Sampled By				
						Sample Collection Date	05/29/2013 10:25	05/29/2013 11:30	05/29/2013 12:55	05/29/2013 15:25
						Laboratory Order Number	480-39233-2	480-39233-4	480-39233-6	480-39233-14
Parameter	**Reporting Units**	**GW1**	**GW2**	**RCGW1**	**RCGW2**	**DW MMCL**				
Volatiles by 524.2										
1,1,1,2-Tetrachloroethane	ug/l	5	10	5	10	NA	< 0.50	< 0.50	< 0.50	< 0.50
1,1,1-Trichloroethane	ug/l	200	4000	200	4000	200	< 0.50	< 0.50	< 0.50	< 0.50
1,1,2,2-Tetrachloroethane	ug/l	2	9	2	9	NA	< 0.50	< 0.50	< 0.50	< 0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50
1,1,2-Trichloroethane	ug/l	5	900	5	900	5	< 0.50	< 0.50	< 0.50	< 0.50
1,1-Dichloroethane	ug/l	70	1000	70	1000	NA	0.21J	0.36J	0.41J	0.20J
1,1-Dichloroethene	ug/l	7	80	7	80	7	< 0.50	< 0.50	< 0.50	< 0.50
1,1-Dichloropropene	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50
1,2,3-Trichlorobenzene	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50
1,2,3-Trichloropropane	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50
1,2,4-Trichlorobenzene	ug/l	70	2000	70	2000	70	< 0.50	< 0.50	< 0.50	< 0.50
1,2,4-Trimethylbenzene	ug/l	NA	NA	10000	100000	NA	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dibromo-3-Chloropropane	ug/l	NA	NA	100	1000	0.2	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**
1,2-Dibromoethane	ug/l	0.02	2	0.02	2	0.02	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**
1,2-Dichlorobenzene	ug/l	600	2000	600	2000	600	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichloroethane	ug/l	5	5	5	5	5	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichloropropane	ug/l	5	3	3	3	5	< 0.50	< 0.50	< 0.50	< 0.50
1,3,5-Trimethylbenzene	ug/l	NA	NA	100	1000	NA	< 0.50	< 0.50	< 0.50	< 0.50
1,3-Dichlorobenzene	ug/l	40	2000	40	2000	NA	< 0.50	< 0.50	< 0.50	< 0.50
1,3-Dichloropropane	ug/l	NA	NA	5000	50000	NA	< 0.50	< 0.50	< 0.50	< 0.50
1,4-Dichlorobenzene	ug/l	5	200	5	200	5	< 0.50	< 0.50	< 0.50	< 0.50
2,2-Dichloropropane	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50
2-Butanone (MEK)	ug/l	4000	50000	4000	50000	NA	< 2.5	< 2.5	< 2.5	< 2.5
2-Chlorotoluene	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50
4-Chlorotoluene	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50
4-Isopropyltoluene	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50
4-Methyl-2-pentanone (MIBK)	ug/l	350	50000	350	50000	NA	< 2.5	< 2.5	< 2.5	< 2.5
Acetone	ug/l	6300	50000	6300	50000	NA	< 2.5	1.0J	< 2.5	0.56J
Benzene	ug/l	5	2000	5	2000	5	< 0.50	0.31J	0.58	0.19J
Bromobenzene	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50
Bromochloromethane	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50
Bromoform	ug/l	4	700	4	700	NA	< 0.50	< 0.50	< 0.50	< 0.50
Bromomethane	ug/l	10	7	7	7	NA	< 0.50	< 0.50	< 0.50	< 0.50
Carbon tetrachloride	ug/l	5	2	2	2	5	< 0.50	< 0.50	< 0.50	< 0.50
Chlorobenzene	ug/l	100	200	100	200	100	< 0.50	< 0.50	< 0.50	< 0.50
Chlorodibromomethane	ug/l	2	20	2	20	NA	< 0.50	< 0.50	< 0.50	< 0.50
Chloroethane	ug/l	NA	NA	1000	10000	NA	0.15J	0.43J	0.64	0.36J
Chloroform	ug/l	70	50	50	50	NA	0.38J	0.20J	< 0.50	< 0.50
Chloromethane	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50
cis-1,2-Dichloroethene	ug/l	70	100	70	100	NA	1.7	1.8	2.3	0.85
cis-1,3-Dichloropropene	ug/l	NA	NA	0.5	5	NA	< 0.50	< 0.50	< 0.50	< 0.50
Dibromomethane	ug/l	NA	NA	5000	50000	NA	< 0.50	< 0.50	< 0.50	< 0.50
Dichlorobromomethane	ug/l	3	6	3	6	NA	< 0.50	< 0.50	< 0.50	< 0.50
Dichlorodifluoromethane	ug/l	NA	NA	10000	100000	NA	< 0.50	< 0.50	< 0.50	< 0.50
Ethylbenzene	ug/l	700	20000	700	5000	700	< 0.50	< 0.50	< 0.50	< 0.50
Hexachlorobutadiene	ug/l	0.6	1	0.6	1	NA	< 0.50	< 0.50	< 0.50	< 0.50
Isopropylbenzene	ug/l	NA	NA	10000	100000	NA	< 0.50	< 0.50	< 0.50	< 0.50
Methyl tert-butyl ether	ug/l	70	50000	70	5000	NA	0.25J	0.81	1.6	1.3
Methylene Chloride	ug/l	5	10000	5	10000	5	< 0.50	< 0.50	< 0.50	< 0.50
m-Xylene & p-Xylene	ug/l	10000	9000	5000	5000	NA	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene	ug/l	140	1000	140	1000	NA	< 0.50	< 0.50	< 0.50	< 0.50
n-Butylbenzene	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50
N-Propylbenzene	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50
o-Xylene	ug/l	10000	9000	5000	5000	NA	< 0.50	< 0.50	< 0.50	< 0.50
sec-Butylbenzene	ug/l	NA	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50
Styrene	ug/l	100	100	100	100	100	< 0.50	< 0.50	< 0.50	< 0.50
t-Butanol	ug/l	NA	NA	NA	NA	NA	3.3J	9.4J	14	7.2J
tert-Butylbenzene	ug/l	NA	NA	1000	10000	NA	< 0.50	< 0.50	< 0.50	< 0.50
Tetrachloroethene	ug/l	5	50	5	50	5	< 0.50	< 0.50	< 0.50	< 0.50
Toluene	ug/l	1000	50000	1000	40000	1000	< 0.50	< 0.50	< 0.50	< 0.50
trans-1,2-Dichloroethene	ug/l	100	90	90	90	100	< 0.50	< 0.50	< 0.50	< 0.50
trans-1,3-Dichloropropene	ug/l	NA	NA	0.5	5	NA	< 0.50	< 0.50	< 0.50	< 0.50
Trichloroethene	ug/l	5	30	5	30	5	< 0.50	< 0.50	< 0.50	< 0.50
Trichlorofluoromethane	ug/l	NA	NA	10000	100000	NA	< 0.50	< 0.50	< 0.50	< 0.50
Trihalomethanes, Total	ug/l	NA	NA	NA	NA	NA	< 2.0	< 2.0	< 2.0	< 2.0
Vinyl chloride	ug/l	2	2	2	2	2	< 0.50	< 0.50	0.27J	0.24J
Xylenes, Total	ug/l	10000	9000	5000	5000	NA	< 1.0	< 1.0	< 1.0	< 1.0
Semivolatiles by 522 MOD										
1,4-Dioxane	ug/l	3	6000	3	6000	NA	2.8B	**5.9B**	**9.8B**	**3.9B**

Notes:
ug/l - micrograms/liter
B - Compound was found in the blank and sample.
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
GW1 - Concentrations based on the use of groundwater as drinking water, either currently or in the foreseeable future.
GW2 - Concentrations based on the potential for volatile material to migrate into indoor air.
GW3 - Concentrations based on the potential environmental effects resulting from contaminated groundwater discharging to surface water.
RC - Risk Characterization approach, Standards may be supplemented or modified with site- and chemical-specific information.
UCL - Upper Concentration Limits in groundwater and soil are promulgated to minimize potential risks associated with uncontrolled environmental contamination, and the costs associated with cumulative anthropogenic c

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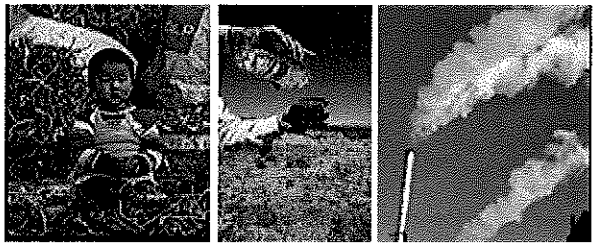
APPENDIX E

Dave Bennett

From: Peter Woodman <pww@riskmi.com>
Sent: Wednesday, June 12, 2013 8:54 PM
To: David Bennett
Subject: RMI Tables 1-4 for 11 Elidia and 45 Knowles Data Selected for Shortform Analysis + Shortform Findings for IH & Long Term Risks
Attachments: 11 Elidia 4-29-13 Table 1.pdf; 11 Elidia Duplicate 4-29-2013 Table 2.pdf; 11 Elidia Most Recent 5-29-2013 Table 3.pdf; 45 Knowles 5-1-2013 Table 4.pdf; sf12psih 11 Elidia IH (1-6 years).pdf; sf12psih 45 Knowles IH (1-6 years).pdf; sf12rw 11 Elidia 1-31 (Cancer) & 1-8 (Non-Cancer) years.pdf; sf12rw 45 Knowles 1-31 (Cancer) & 1-8 (Non-Cancer) years.pdf

Health & Environmental Services



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Phone: (978) 266-2878 Ext. 11
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e-mail: pww@riskmi.com
web: www.riskmi.com/index.htm

Subject: "RMI Tables 1-4 for 11 Elidia and 45 Knowles Data Selected for Shortform Analysis + Shortform Findings for IH & Long Term Risks"

Dear: David

As requested, we have used current MassDEP Shortforms (Version 10-12; VLookup Version v1012) to evaluate potential human health effects from the OHMs detected in Drinking Water Wells at 11 Elidia and 45 Knowles. Following data review and validation of the Laboratory Analytical Drinking Water Data generated by TestAmerica, Tables 1-3 present OHMs chosen as Compounds of Potential Concern for the 11 Elidia drinking water samples collected on 4-29-13, 4-9-13 Duplicate and 5-29-13, respectively. Table 4 presents the COPCs identified for 45 Knowles drinking water samples collected on 5-1-13 (includes Duplicate).

Either the Highest or Estimated (J) OHM concentrations were used as Exposure Point Concentrations (EPCs) for input into the MassDEP Shortforms for the Resident Imminent Hazard (1-6 years) and Residential Cancer (1-31 years) and Non-Cancer (1-8 years) Risk Characterizations.

For both 11 Elidia and 45 Knowles Drinking Water Wells, there are **no** Imminent Hazards indicated. Hazard Indices (HI) and Excess Lifetime Cancer Risks (ELCR) do not exceed their respective MCP Risk Limits. However, for Long Term Residential Exposures, the 11 Elidia Well poses an Excess Lifetime Cancer Risk of 2×10^{-5}, which exceeds the MCP Risk Limit of 1×10^{-5}, indicating a condition of "Significant Risk." However, there are **no** Non-Cancer Risks (HI = 0.2, which is ≤ 1). In the case of 45 Knowles, it should be noted that the ELCR is 1×10^{-5} but is not $>$ than the MCP ELCR Risk Limit of 1×10^{-5}. The HI = 0.2, which is ≤ 1.

Please call me, should you have any questions at 978-266-2878 Ext. 11.

Thank you for your business.

Kind Regards,

Peter W
Sincerely,
Risk Management Incorporated
Peter W. Woodman, Ph.D.
President

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PLEASE consider the environment before printing this e-mail

Table 1 - 11 Elidia - 4-29-2013

						Sample ID	11 Elidia	Trip Blank
						Sampled By		
						Sample Collection Date	04/29/2013 14:10	04/29/2013 00:00
						Laboratory Order Number	480-37261-9	480-37261-25
Parameter	**Reporting Units**	**GW1**	**GW2**	**RCGW1**	**RCGW2**	**DW MMCL**		
Volatiles by 524.2								
1,1-Dichloroethane	ug/l	70	1000	70	1000	NA	0.20J	< 0.50
Acetone	ug/l	6300	50000	6300	50000	NA	< 2.5	1.0J
Benzene	ug/l	5	2000	5	2000	5	0.20J	< 0.50
cis-1,2-Dichloroethene	ug/l	70	100	70	100	NA	0.78	< 0.50
Methyl tert-butyl ether	ug/l	70	50000	70	5000	NA	1.2	< 0.50
Methylene Chloride	ug/l	5	10000	5	10000	5	< 0.50	0.59
Vinyl chloride	ug/l	2	2	2	2	2	0.22J	< 0.50
Semivolatiles by 522 MOD								
1,4-Dioxane	ug/l	3	6000	3	6000	NA	**4.2**	0.083J

Notes:
Values used in Risk Characterization
Laboratory Contaminants
ug/l - micrograms/liter
* - LCS or LCSD exceeds the control limits
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
GW1 - Concentrations based on the use of groundwater as drinking water, either currently or in the foreseeable future.
GW2 - Concentrations based on the potential for volatile material to migrate into indoor air.
GW3 - Concentrations based on the potential environmental effects resulting from contaminated groundwater discharging to surface water.
RC - Risk Characterization approach, Standards may be supplemented or modified with site- and chemical-specific information.
UCL - Upper Concentration Limits in groundwater and soil are promulgated to minimize potential risks associated with uncontrolled environmental contamination,
and the costs associated with cumulative anthropogenic contributions to background.
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Table 2 - 11 Elidia - Duplicate 4-29-2013								
						Sample ID	11 Elidia Dup	Trip Blank
						Sampled By		
						Sample Collection Date	04/29/2013 14:10	04/29/2013 00:00
						Laboratory Order Number	480-37261-10	480-37261-25
Parameter	Reporting Units	GW1	GW2	RCGW1	RCGW2	DW MMCL		
Volatiles by 524.2								
1,1-Dichloroethane	ug/l	70	1000	70	1000	NA	0.19J	< 0.50
Acetone	ug/l	6300	50000	6300	50000	NA	< 2.5	1.0J
Benzene	ug/l	5	2000	5	2000	5	0.18J	< 0.50
Chloroethane	ug/l	NA	NA	1000	10000	NA	0.30J	< 0.50
cis-1,2-Dichloroethene	ug/l	70	100	70	100	NA	0.89	< 0.50
Methyl tert-butyl ether	ug/l	70	50000	70	5000	NA	1.2	< 0.50
Methylene Chloride	ug/l	5	10000	5	10000	5	< 0.50	0.59
Vinyl chloride	ug/l	2	2	2	2	2	0.23J	< 0.50
Semivolatiles by 522 MOD								
1,4-Dioxane	ug/l	3	6000	3	6000	NA	3.3	0.083J

Notes:
Values used in Risk Characterization
Laboratory Contaminants
ug/l - micrograms/liter
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
GW1 - Concentrations based on the use of groundwater as drinking water, either currently or in the foreseeable future.
GW2 - Concentrations based on the potential for volatile material to migrate into indoor air.
GW3 - Concentrations based on the potential environmental effects resulting from contaminated groundwater discharging to surface water.
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Table 3 - 11 Elidia - Most Recent Sample 5-29-2013							11 Elidia Way	Trip Blank
						Sampled By		
						Sample Collection Date	05/29/2013 15:25	05/28/2013 15:45
						Laboratory Order Number	480-39233-13	480-39233-19/20
Parameter	**Reporting Units**	**GW1**	**GW2**	**RCGW1**	**RCGW2**	**DW MMCL**		
Volatiles by 524.2								
1,1-Dichloroethane	ug/l	70	1000	70	1000	NA	0.20J	< 0.50
Acetone	ug/l	6300	50000	6300	50000	NA	0.63J	3.6
Benzene	ug/l	5	2000	5	2000	5	0.20J	< 0.50
Chloroethane	ug/l	NA	NA	1000	10000	NA	0.32J	< 0.50
cis-1,2-Dichloroethene	ug/l	70	100	70	100	NA	0.79	< 0.50
Methyl tert-butyl ether	ug/l	70	50000	70	5000	NA	1.2	< 0.50
Vinyl chloride	ug/l	2	2	2	2	2	0.23J	< 0.50
Semivolatiles by 522 MOD								
1,4-Dioxane	ug/l	3	6000	3	6000	NA	**4.3**	0.048J

Notes:
Values used in Risk Characterization
Laboratory Contaminants
ug/l - micrograms/liter
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
GW1 - Concentrations based on the use of groundwater as drinking water, either currently or in the foreseeable future.
GW2 - Concentrations based on the potential for volatile material to migrate into indoor air.
GW3 - Concentrations based on the potential environmental effects resulting from contaminated groundwater discharging to surface water.
RC - Risk Characterization approach, Standards may be supplemented or modified with site- and chemical-specific information.
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Resident - Drinking Water: Table RWIH-1
Exposure Point Concentration (EPC) and Risk
Based on Resident Age 1-6

ShortForm Version 10-12

Vlookup Version v1012

11 Elidia. Highest Detected & J Estimated Values Used.

****Do not insert or delete any rows****

Click on empty cell below and select OHM using arrow.

ELCR (all chemicals) = 4E-06

HI (all chemicals) = 6E-02

Oil or Hazardous Material (OHM)	EPC (µg/L)	ELCR ingestion	ELCR dermal	ELCR inhalation	$ELCR_{total}$	Chronic HQ_{ing}	Chronic HQ_{derm}	Chronic HQ_{inh}	Chronic HQ_{total}
DICHLOROETHANE, 1,1-	2.0E-01					6.8E-06	6.0E-07	2.2E-05	2.9E-05
BENZENE	2.0E-01	5.4E-08	7.0E-09	1.1E-07	1.7E-07	1.4E-03	1.8E-04	1.9E-02	2.1E-02
DICHLOROETHYLENE, CIS-1,2-	8.9E-01					3.0E-03	2.7E-04	1.3E-02	1.6E-02
VINYL CHLORIDE	2.3E-01	1.6E-06	1.1E-07	1.5E-07	1.8E-06	5.2E-03	2.4E-04	2.4E-03	7.9E-03
DIOXANE, 1,4-	4.3E+00	2.1E-06	6.2E-09	3.0E-08	2.1E-06	9.8E-03	2.9E-05	8.6E-04	1.1E-02
METHYL TERT BUTYL ETHER	1.2E+00					8.2E-05	1.9E-06	2.9E-04	3.7E-04

MassDEP ORS
Contact: Lydia Thompson
Lydia.Thompson@state.ma.us
617-556-1165

Resident - Drinking Water: Table RW-1
Exposure Point Concentration (EPC) and Risk
Based on Resident Ages 1-31 (Cancer) and 1-8 (Noncancer)

ShortForm Version 10-12

Vlookup Version v1012

11 Elidia. Includes Highest Detected & J Estimated Values

****Do not insert or delete any rows****

Click on empty cell below and select OHM using arrow.

ELCR (all chemicals) = 2E-05

HI (all chemicals) = 2E-01

Oil or Hazardous Material (OHM)	EPC (µg/L)	ELCR ingestion	ELCR dermal	ELCR inhalation	$ELCR_{total}$	Chronic HQ_{ing}	Chronic HQ_{derm}	Chronic HQ_{inh}	Chronic HQ_{total}
DICHLOROETHANE, 1,1-	2.0E-01					5.9E-05	5.6E-06	2.1E-04	2.7E-04
BENZENE	2.0E-01	2.1E-07	2.7E-08	5.2E-07	7.6E-07	2.9E-03	4.1E-04	1.8E-02	2.1E-02
DICHLOROETHYLENE, CIS-1,2-	8.9E-01					2.6E-02	2.5E-03	1.2E-01	1.5E-01
VINYL CHLORIDE	2.3E-01	6.0E-06	4.3E-07	7.5E-07	7.2E-06	4.5E-03	2.2E-04	2.3E-03	7.0E-03
DIOXANE, 1,4-	4.3E+00	8.0E-06	2.4E-08	1.5E-07	8.2E-06	8.4E-03	2.6E-05	8.1E-04	9.3E-03
METHYL TERT BUTYL ETHER	1.2E+00					7.1E-04	1.7E-05	2.7E-04	1.0E-03

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617-556-1165

Table 4 45 Knowles - 5-1-2013										
						Sample ID	Trip #041013	45 Knowles	Trip Blank 041013	45 Knowles DUP
						Sampled By				
						Sample Collection Date	05/01/2013 00:00	05/01/2013 10:15	05/01/2013 00:00	05/01/2013 10:15
						Laboratory Order Number	480-37443-1	480-37443-4	480-37443-26	480-37443-5
Parameter	Reporting Units	GW1	GW2	RCGW1	RCGW2	DW MMCL				
Volatiles by 524.2										
1,1-Dichloroethane	ug/l	70	1000	70	1000	NA	< 0.50	0.23J	< 0.50	
Benzene	ug/l	5	2000	5	2000	5	< 0.50	0.23J	< 0.50	
cis-1,2-Dichloroethene	ug/l	70	100	70	100	NA	< 0.50	1.0	< 0.50	
Dichlorodifluoromethane	ug/l	NA	NA	10000	100000	NA	< 0.50	0.22J	< 0.50	
Methyl tert-butyl ether	ug/l	70	50000	70	5000	NA	< 0.50	0.45J	< 0.50	
Methylene Chloride	ug/l	5	10000	5	10000	5	0.51	< 0.50	0.41J	
Vinyl chloride	ug/l	2	2	2	2	2	< 0.50	0.19J	< 0.50	
Semivolatiles by 522 MOD										
1,4-Dioxane	ug/l	3	6000	3	6000	NA		2.3		2.4

Notes:
Values used in Risk Characterization
Laboratory Contaminants
ug/l - micrograms/liter
* - LCS or LCSD exceeds the control limits
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
GW1 - Concentrations based on the use of groundwater as drinking water, either currently or in the foreseeable future.
GW2 - Concentrations based on the potential for volatile material to migrate into indoor air.
GW3 - Concentrations based on the potential environmental effects resulting from contaminated groundwater discharging to surface water.
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Resident - Drinking Water: Table RWIH-1
Exposure Point Concentration (EPC) and Risk
Based on Resident Age 1-6

ShortForm Version 10-12

Vlookup Version v1012

45 Knowles. Highest Detected & J Estimated Values Used.

****Do not insert or delete any rows****

Click on empty cell below and select OHM using arrow.

ELCR (all chemicals) = 3E-06

HI (all chemicals) = 5E-02

Oil or Hazardous Material (OHM)	EPC (µg/L)	ELCR ingestion	ELCR dermal	ELCR inhalation	$ELCR_{total}$	Chronic HQ_{ing}	Chronic HQ_{derm}	Chronic HQ_{inh}	HQ_{total}
DICHLOROETHANE, 1,1-	2.3E-01					7.9E-06	6.9E-07	2.5E-05	3.4E-05
BENZENE	2.3E-01	6.2E-08	8.0E-09	1.2E-07	1.9E-07	1.6E-03	2.0E-04	2.2E-02	2.4E-02
DICHLOROETHYLENE, CIS-1,2-	1.0E+00					3.4E-03	3.0E-04	1.5E-02	1.8E-02
VINYL CHLORIDE	1.9E-01	1.3E-06	9.2E-08	1.3E-07	1.5E-06	4.3E-03	2.0E-04	2.0E-03	6.5E-03
DIOXANE, 1,4-	2.4E+00	1.2E-06	3.4E-09	1.7E-08	1.2E-06	5.5E-03	1.6E-05	4.8E-04	6.0E-03
METHYL TERT BUTYL ETHER	4.5E-01					3.1E-05	7.3E-07	1.1E-04	1.4E-04

MassDEP ORS
Contact: Lydia Thompson
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Resident - Drinking Water: Table RW-1
Exposure Point Concentration (EPC) and Risk
Based on Resident Ages 1-31 (Cancer) and 1-8 (Noncancer)

ShortForm Version 10-12

Vlookup Version v1012

45 Knowles. Includes Highest Detected & J Estimated Values

****Do not insert or delete any rows****

Click on empty cell below and select OHM using arrow.

ELCR (all chemicals) = 1E-05

HI (all chemicals) = 2E-01

Oil or Hazardous Material (OHM)	EPC (µg/L)	ELCR ingestion	ELCR dermal	ELCR inhalation	$ELCR_{total}$	Chronic HQ_{ing}	Chronic HQ_{derm}	Chronic HQ_{inh}	Chronic HQ_{total}
DICHLOROETHANE, 1,1-	2.3E-01					6.8E-05	6.4E-06	2.4E-04	3.1E-04
BENZENE	2.3E-01	2.4E-07	3.1E-08	6.0E-07	8.7E-07	3.4E-03	4.7E-04	2.1E-02	2.5E-02
DICHLOROETHYLENE, CIS-1,2-	1.0E+00					2.9E-02	2.8E-03	1.4E-01	1.7E-01
VINYL CHLORIDE	1.9E-01	5.0E-06	3.6E-07	6.2E-07	5.9E-06	3.7E-03	1.9E-04	1.9E-03	5.8E-03
DIOXANE, 1,4-	2.4E+00	4.5E-06	1.3E-08	8.3E-08	4.6E-06	4.7E-03	1.5E-05	4.5E-04	5.2E-03
METHYL TERT BUTYL ETHER	4.5E-01					2.6E-04	6.5E-06	1.0E-04	3.7E-04

MassDEP ORS
Contact: Lydia Thompson
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617-556-1165

Table 1
Summary of Groundwater Analytical Data Collected From Private Drinking Water Wells Identified for Risk Analysis
Town of Eastham Landfill
255 Old Orchard Road
Eastham, MA 02642
RTN: 4-24031

Parameter	Reporting Units µg/L MCP Groundwater & Drinking Standards & Reportable Concentrations					Sample ID, Sample Collection Date, Laboratory Order Number										
						50 ALSTON AVE Final Effluent RES-35 03/04/2013 09:45 480-33845-1	50 ALSTON AVE Raw Water RES-35 03/04/2013 10:15 480-33846-2	255 ALSTON AVE RES-40 02/14/2013 09:20 480-33095-11	25 KNOWLES STREET RES-36 01/24/13 10:15 02/21/2013 09:00 480-33420-21 (Combined Data Sets)	25 KNOWLES STREET DUP RES-36 01/24/13 10:15 02/21/2013 09:00 480-33420-22 (Combined Data Sets)	30 KNOWLES STREET RES-31A 02/19/2013 11:30 480-33247-6	30 KNOWLES STREET DUP RES-31A 02/19/2013 11:30 480-33247-13	325 SCHOOLHOUSE RD RAW RES-30 02/22/2013 09:55 480-33420-17	325 SCHOOLHOUSE RD RAW DUP RES-30 02/22/2013 09:55 480-33420-18	45 STARLIGHT LANE 02/12/2013 11:40 480-32875-7	45 STARLIGHT LANE DUP 02/12/2013 11:40 480-32875-17
	GW1	GW2	RCGW1	RCGW2	DW MMCL											
Volatiles by 524.2																
1,1-Dichloroethane	70	1,000	70	1,000	NA	*0.27J*	*0.25J*	*0.11J*	< 1.0	< 1.0	*0.41J*	*0.40J*	*0.49J*	*0.49J*	< 0.50	*0.093J*
2-Butanone (MEK)	4,000	50,000	4,000	50,000	NA	**16**	**16**	< 2.5	< 5.0#	< 5.0#	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
Benzene	5	2,000	5	2,000	5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	*0.34J*	*0.34J*	**0.66**	**0.63**	< 0.50	< 0.50
Chloroethane	NA	NA	1,000	10,000	NA	< 0.50	< 0.50	< 0.50	< 2.0	< 2.0	*0.40J*	*0.35J*	**0.63**	**0.59**	< 0.50	< 0.50
Chloroform	70	50	50	50	NA	*0.37J*	*0.33J*	**0.88**	< 1.0	< 1.0	*0.21J*	*0.21J*	< 0.50	< 0.50	*0.26J*	*0.25J*
Chloromethane	NA	NA	1,000	10,000	NA	< 0.50	< 0.50	< 0.50	< 2.0*	< 2.0*	*0.17J*	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
cis-1,2-Dichloroethene	70	100	70	100	NA	< 0.50	< 0.50	*0.36J*	**2.3**	**2.6**	**1.9**	**1.9**	**2.7**	**2.7**	< 0.50	*0.17J*
Methyl tert-butyl ether	70	50,000	70	5,000	NA	< 0.50	< 0.50	*0.19J*	< 2.0	< 2.0	**1.1**	**1.1**	**1.9**	**1.9**	< 0.50	< 0.50
Toluene	1,000	50,000	1,000	40,000	1,000	**3.8**	**1.5**	< 0.50	< 1.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Vinyl chloride	2	2	2	2	2	< 0.50	< 0.50	< 0.50	< 1.0	< 1.0	*0.19J*	*0.16J*	*0.30J*	*0.27J*	*0.082J*	*0.083J*
Semivolatiles by 522 MOD																
1,4-Dioxane	3	6,000	3	6,000	NA	**0.23**	**0.23**	**1.9**	**3.1**	**2.9**	**6.9**	**6.4**	**10**	**9.7**	**1.1**	**0.93**

Notes:
µg/l - micrograms/liter; NA - Not Applicable
LCS % Recovery of 135 exceeds Upper Recovery Limit of 130.
* RPD for LCS and LCSD = 21, which marginally exceeds the Upper RD Limt of 20 for Batch Number WG587585-4 and -5.
J - Result is less than the RL but greater than or equal to the MDL and the concentration is considered an approximate value.
< Reporting Limits
Result shown indicates OHM was reported above its respective Reporting Limit.
GW1 - Concentrations based on the use of groundwater as drinking water, either currently or in the foreseeable future.
GW2 - Concentrations based on the potential for volatile material to migrate into indoor air.
GW3 - Concentrations based on the potential environmental effects resulting from contaminated groundwater discharging to surface water.
RCGW1 - Reportable Concentrations for Groundwater Potentially used as Drinking Water.
RCGW2 - Reportable Concentrations for Groundwater VOCs that could impact Indoor Air Quality.
RC - Risk Characterization approach, Standards may be supplemented or modified with site- and chemical-specific information.
UCL - Upper Concentration Limits in groundwater and soil are promulgated to minimize potential risks associated with uncontrolled environmental contamination, and the costs associated with cumulative anthropogenic contributions to background.
DW MMCL - MA Drinking Water Maximum Contaminant Level.
TestAmerica's TotalAccess, is our online data management tool. Features include, a cross-tab view displaying each analyte
as a row across sample columns, an intuitive analyte trending tool, auto-fill search functions and exports data into Excel, while keeping its original format.
Other features include a redesign and simplification in selecting regulatory limits, Work Order and Results page layout redesign, and available data columns in the Results and Budgets pages.
The regulatory comparison tool allows users to compare their analytical data against a number of regulatory compound lists and associated limits.
This feature now encompasses over 786 regulatory lists from 34 States and the U.S. EPA, covering 91,529 individual analyte comparison limits.
The benefits of TotalAccess are offered free of charge to all TestAmerica clients. Clients can sign up for TotalAccess
on the TestAmerica home page at www.testamericainc.com.

More information @ http://www.mass.gov/dep/cleanup/laws/standard.htm

Resident - Drinking Water: Table RWIH-1
Exposure Point Concentration (EPC) and Risk
Based on Resident Age 1-6

ShortForm Version 10-12

Vlookup Version v1012

325 School House Road (RAW) 2-22-13. Duplicates. Highest Values Used,

****Do not insert or delete any rows****

Click on empty cell below and select OHM using arrow.

ELCR (all chemicals) = 8E-06

HI (all chemicals) = 2E-01

Oil or Hazardous Material (OHM)	EPC (µg/L)	ELCR ingestion	ELCR dermal	ELCR inhalation	$ELCR_{total}$	Chronic HQ_{ing}	Chronic HQ_{derm}	Chronic HQ_{inh}	HQ_{total}
DICHLOROETHANE, 1,1-	4.9E-01					1.7E-05	1.5E-06	5.4E-05	7.2E-05
BENZENE	6.6E-01	1.8E-07	2.3E-08	3.5E-07	5.5E-07	4.5E-03	5.9E-04	6.3E-02	6.8E-02
DICHLOROETHYLENE, CIS-1,2-	2.7E+00					9.2E-03	8.1E-04	3.9E-02	4.9E-02
METHYL TERT BUTYL ETHER	1.9E+00					1.3E-04	3.1E-06	4.6E-04	5.9E-04
VINYL CHLORIDE	3.0E-01	2.0E-06	1.5E-07	2.0E-07	2.4E-06	6.8E-03	3.2E-04	3.2E-03	1.0E-02
DIOXANE, 1,4-	1.0E+01	4.9E-06	1.4E-08	7.0E-08	5.0E-06	2.3E-02	6.7E-05	2.0E-03	2.5E-02
zzChloroethane	6.3E-01					1.5E-05	7.5E-07	6.5E-05	8.1E-05

MassDEP ORS
Contact: Lydia Thompson
Lydia.Thompson@state.ma.us
617-556-1165

Resident - Drinking Water: Table RW-1
Exposure Point Concentration (EPC) and Risk
Based on Resident Ages 1-31 (Cancer) and 1-8 (Noncancer)

ShortForm Version 10-12

Vlookup Version v1012

325 School House Road. Includes Highest Detected & J Estimated Values

****Do not insert or delete any rows****

Click on empty cell below and select OHM using arrow.

ELCR (all chemicals) = 3E-05

HI (all chemicals) = 6E-01

Oil or Hazardous Material (OHM)	EPC (µg/L)	ELCR ingestion	ELCR dermal	ELCR inhalation	$ELCR_{total}$	Chronic HQ_{ing}	Chronic HQ_{derm}	Chronic HQ_{inh}	Chronic HQ_{total}
DICHLOROETHANE, 1,1-	4.9E-01					1.4E-04	1.4E-05	5.1E-04	6.7E-04
BENZENE	6.6E-01	6.8E-07	9.0E-08	1.7E-06	2.5E-06	9.7E-03	1.4E-03	6.0E-02	7.1E-02
zzChloroethane	6.3E-01					1.3E-05	7.0E-07	6.1E-05	7.5E-05
DICHLOROETHYLENE, CIS-1,2-	2.7E+00					7.9E-02	7.6E-03	3.7E-01	4.6E-01
METHYL TERT BUTYL ETHER	1.9E+00					1.1E-03	2.8E-05	4.3E-04	1.6E-03
VINYL CHLORIDE	3.0E-01	7.8E-06	5.6E-07	9.8E-07	9.4E-06	5.9E-03	2.9E-04	3.0E-03	9.2E-03
DIOXANE, 1,4-	1.0E+01	1.9E-05	5.5E-08	3.4E-07	1.9E-05	2.0E-02	6.0E-05	1.9E-03	2.2E-02

MassDEP ORS
Contact: Lydia Thompson
Lydia.Thompson@state.ma.us
617-556-1165

APPENDIX F

BENNETT ENVIRONMENTAL ASSOCIATES, INC.

LICENSED SITE PROFESSIONALS ◊ ENVIRONMENTAL SCIENTISTS ◊ GEOLOGISTS ◊ ENGINEERS

1573 Main Street - P.O. Box 1743, Brewster, MA 02631 ◊ 508-896-1706 ◊ Fax 508-896-5109 ◊ www.bennett-ea.com

QUALITY ASSURANCE & QUALITY CONTROL PROGRAM

Quality Assurance & Quality Control Program
For Soil and Groundwater Sampling

INTRODUCTION

The Quality Assurance & Quality Control (QA/QC) Program outlines the purpose, policies, organization and operations to support sampling work conducted by BENNETT ENVIRONMENTAL ASSOCIATES, INC. The procedures and protocols represented herein are consistent with the MA DEP "Standard References for Monitor Wells" [WSC-310-91], and the recommendations of a MA certified laboratory. Implementation of this program will help to ensure the validity of data used to provide professional engineering and environmental opinions to clients.

The following definitions are used in the QA/QC Program:

> Quality Assurance refers to the concepts used in defining a system for verifying and maintaining a desired level of quality in a product or process.
>
> Quality Control is a specific, step-by-step description of how the Quality Assurance Program will be carried out.

This QA/QC Program guides field sampling activities. Project specific QA/QC Programs are adopted when warranted. Modifications to the QA/QC Program may be made only after specific approval by the QA/QC Officer (Project Manager).

The specific objectives of the QA/QC Program are to:

1. Specify the level of quality of each field procedure used in collecting samples;
2. Identify deficiencies in field procedures which might affect the quality of data; and
2. Require sufficient documentation to verify the credibility of the sampling methods employed.

PROGRAM ORGANIZATION AND RESPONSIBILITY

The Project Manager of BENNETT ENVIRONMENTAL ASSOCIATES, INC. is responsible for the quality of work produced. The Project Manager directs the QA/QC Program to document the control of field efforts and resulting data.
In this capacity, the Project Manager is expected to do the following:

1. Prepare detailed QC plans;

2. Obtain analytical and sampling procedures reference materials;

3. Ensure that all field test and measurement equipment is maintained and calibrated properly;

4. Monitor quality assurance activities to ensure conformance with authorized policies and procedures, sound practices and to recommend improvements as necessary;

5. Ensure that all field sampling is conducted in accordance with guidelines contained herein;

6. Oversee all field sampling efforts to detect conditions which might directly or indirectly jeopardize the utility of resulting analytical data, such as improper calibration of equipment or cross-contamination through improper storage of samples;

7. Ensure that sample handling procedures are adequate for the sample types received; and

8. Inspect the quality of purchased sampling materials.

SAMPLE MANAGEMENT, COLLECTION, AND PREPARATION

Introduction

Sample management and stringent documentation are essential for successful quality assurance. The procedures in this section are designed to ensure collection of samples which truly represent the matrix being sampled by eliminating trace levels of contaminants from external sources.

Sample Management

The management of samples, up to the point of delivery to the laboratory either by courier or in person, is under the supervision of the Project Manager, who will ensure that samples are collected, labeled, preserved, stored, and transported according to the prescribed methods. If significant deviations from the sampling protocol occur, resulting in a suspected compromise of the sample integrity, all samples collected during the sampling effort prior to correction of the procedure will be discarded and fresh samples collected.

Sample Collection

Groundwater

Groundwater samples will not be collected immediately following well development. Sufficient time will be allowed for groundwater to stabilize and approach chemical equilibrium with the well construction materials. Monitoring wells will be sampled in accordance with the following sampling procedures:

1. Identify the well and record the well number on the Monitoring Well Sampling Log (attached).

2. Open the well cap and measure total organic volatile (TOV) concentrations at the wellhead with the use of a portable photoionization detector. Record levels detected.

3. Measure groundwater level to the nearest 0.01 feet from the top of the well casing using a water level indicator. The water level measurement will be taken from a permanent reference point on the well casing. The indicator will be lowered into the well casing with care to provide for the least degree of disturbance to the water surface. The measurement of well depth will only be collected after sampling is completed to avoid the resuspension of settled solids from the formation. Record water level on a Monitoring Well Sampling Log (attached). Water level indicators will be decontaminated between wells.

4. The volume of standing water in the well casing will be calculated and recorded on the Monitoring Well Sampling Log.

5. Purging and sampling should proceed in progression from least to most contaminated well, if known. A low-flow pump with a flow-through cell is preferred. The pump should be lowered to the middle of the screened interval or slightly above. The pump is started at its lowest speed setting and slowly increased until discharge occurs. The water level indicator should be used to monitor drawdown within the well and the pump speed adjusted until there is little or no drawdown (<0.3'). Water level and pumping rates will be monitored every three to five minutes.

6. During well purging (at least three (3) well volumes), monitor indicator parameters: temperature, pH, conductivity and dissolved oxygen. These parameters are considered to be stabilized when three consecutive readings taken three to five minutes apart are within +/-0.1 for pH, +/- 3% for conductivity, and +/- 10% for dissolved oxygen. Upon stabilization, the concentration will be recorded on the Monitoring Well Sampling Log. Other sampling methods may be used with compound specific parameters used to determine stabilization.

7. Samples will be placed into laboratory sterilized and/or preserved, pre-labeled containers, taking care to minimize agitation of the sample [Refer to attached “Recommended Sample Containers...” Groundwater Analytical]. Volatile organic compound (VOC) samples will be collected first.

8. Samples will be logged in on an appropriate chain-of-custody form.

9. All groundwater samples will be stored in a cooler or refrigerator at approximately 4EC.

The following blanks may be collected as required:

Field blank: One field blank should be collected from each water source used for sampling equipment decontamination or for assisting well development procedures.

Equipment blank: One equipment blank should be collected prior to the commencement of field work from each set of sampling equipment used that day.

Trip blank: A trip blank is required to accompany each volatile sample shipment. These blanks are prepared by filling a 40-mL VOA vial with distilled/deionized water.

When sampling water for volatile compounds, care must be exercised to prevent loss of compound through evaporation and to control susceptibility to outside contamination. Precautionary measures include:

1. Avoiding engine exhaust, gasoline containers, degreasing solvents, solvent-laden rags and noncompatible decontamination agents;

2. Sampling bottles will only be opened at the time of sampling and quickly closed after collecting the sample, preventing aeration of the sample with the atmosphere or any other gas;

3. Slowly filling bottles to capacity with sample and securing cap without entraining air bubbles;

4. Inverting the bottle while tapping lightly to check for air bubbles;

5. Adding additional sample to eliminate air bubbles, if present. Repeating Steps 3 and 4;

6. Placing samples on ice (approximately 4EC) immediately after collection in a dark, dry location;
7. Segregating samples with a secondary barrier such as zip-lock bags, etc.; and

8. Analyzing sample as soon as possible within the specific holding times after collection.

Dedicated equipment is preferred. Where impractical or cost-prohibitive, pump tubing will be decontaminated as follows:

1. Pump non-phosphate detergent solution through system for two minutes.

2. Pump clean hot tap water through system for two minutes or until clear, whichever is longer.

3. Pump analyte-free water through system for two minutes.

4. Seal tubing ends; wrap and label with date of cleaning.

Soils

The procedures to be used when collecting and screening soil samples are outlined below:

1. Prior to sampling surficial soils, surface vegetation, rocks, leaves, and debris will be cleared from the sample point to allow collection of a clean soil sample. If surficial soil samples are to be collected, a hand trowel or shovel will be used. The sampling equipment will be decontaminated as outlined below.

2. Boring samples will be collected via drilling rig-operated split spoon procedures or from a hand held bucket auger. Soil samples collected from excavations or test pits will be collected directly with a decontaminated sampling device.

3. Soil samples collected for TOV screening will be placed in glass soil jars with aluminum foil placed under the screw cap. Samples will be allowed to warm to ambient temperature before screening or will be screened in a heated vehicle after warming. The jar will be shaken for fifteen seconds prior to warming and after warming to ensure proper headspace development. Total organic vapors will be measured via a portable photoionization detector (PID) and their concentration recorded either on a Geological Borehole Log or Field Response Log.

4. Soil samples will be collected into pre-labeled, laboratory sterilized and/or preserved jars and preserved in a cooler or refrigerator at approximately 4EC.

5. Sample containers will be marked to indicate sampling date, time, location, and depth. Samples will be logged in on appropriate chain-of-custody forms.

6. The stratigraphy of each soil boring and test pit excavation, and the construction of each monitoring well will be recorded by the on-site geologist on the appropriate Geologic Borehole Log (copy attached).

When sampling soils for volatile compounds, care must be exercised to prevent loss of compound and to control susceptibility to outside contamination. Precautionary measures include:

1. Avoiding engine exhaust, gasoline containers, degreasing solvents, solvent-laden rags and non-compatible decontamination agents;

2. Opening sampling bottles only at the time of sampling and quickly closing after collecting the sample;

3. Placing samples on ice (approximately 4E C) immediately after collection in a dark, dry location;

4. Segregating samples with a secondary barrier such as zip-lock bags, etc.; and

5. Analyzing sample as soon as possible within the specific holding times after collection.

Soil sampling equipment (shovel, auger, etc.) will be decontaminated between each sampling location with a potable water rinse, alconox soap wash, and a final potable water rinse.

Drilling and excavating apparatus (augers, rods, casing, core barrels, backhoe bucket, and other equipment coming in contact with the borehole or excavation) will be decontaminated between each boring and excavation. If necessary, an alconox soap wash followed by a steam cleaning will be included.

Sample Preservation

To prevent or retard the degradation/modification of chemicals in samples during transit and storage, the samples will be refrigerated at or below 4EC in appropriately preserved containers. Samples will be delivered to the laboratory by courier or by overnight delivery service.

DATA MANAGEMENT

Logging of Samples

The accountability of a sample begins when the sample is taken from its natural environment. Sample handling (chain-of-custody) records must be completed at the time of sampling. The following chain-of-custody procedure must be implemented by the Field Team Leader to assure sample integrity.

1. The samples are under custody of the Field Team Leader if:

   a. they are in his (or her) possession;

   b. they are in view after being in possession:

   c. they are locked up or sealed securely to prevent tampering; or,

   d. they are in a designated secure area.

2. The "original" of the sample handling form must accompany the samples at all times after collection. A copy of the sample handling form is kept by the Field Team Leader.

3. When possession of the samples is transferred, the individuals relinquishing and receiving will sign, date, and note the time on the chain-of-custody.

The chain-of-custody will contain information to distinguish each sample from any other sample. This information will include:

1. The project for which sampling is being conducted;

2. The matrix being samples (air, groundwater, soil, etc.);

3. The sampling date and time;

4. Field sample identification number and chain-of-custody identification number;

5. The number and type of containers and the type of preservative used (if any); and,

6. Signature of the person performing the sampling.

Each sample will be assigned a unique identification number or description, which will be marked on the sample container. The chain-of-custody will be forwarded to the laboratory with the samples. As a precaution against this record being lost or altered, the sampling personnel will retain a copy documenting all information up until the first change of sample custody. This record will be filed in the project folder as maintained by the Project Manager.

DISCLAIMER: The Quality Assurance and Quality Control Program outlined herein is intended as a field guidance document only and is not intended to represent techniques and requirements for all sampling procedures. While BENNETT ENVIRONMENTAL ASSOCIATES, INC. makes every effort to keep our QA/QC Program updated, this document should not be relied upon as a guarantee or warranty representing the most recent policies and techniques used. The United States Environmental Protection Agency and the Massachusetts Department of Environmental Protection should be consulted for sampling procedures relative to specific compounds, with specific reference to Policy #WSC-07-350 and Policy #WSC-10-320.

FORM SAMPLES

1573 Main Street, P.O. Box 1743
Brewster, MA 02631

BENNETT ENVIRONMENTAL ASSOCIATES, INC.

LICENSED SITE PROFESSIONALS, ENVIRONMENTAL SCIENTISTS, GEOLOGISTS, SANITARIANS

(508) 896-1706
fax (508) 896-5109

MONITORING WELL SAMPLING LOG

Date(s): _____ Job Name: _____ Time: _____ Tide: _____
Location: _____ Job Number: _____
Sampler: _____ Measuring Point: Ground Surface or T.O.C. _____

Well Number	Elev. of reference point (feet)	Total Depth of Well (feet)	Depth to Water (feet)	Standing Water Height (feet)	Water Table Elevation (feet)	Static Volume (gallons)	Volume Purged (gallons)	HNU PI-101 (ppm)	pH	Dissolved Oxygen (mg/L)	Conductivity	Temperature (F)	Comments:

Notes:

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Brewster, MA 02631

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fax 508-896-5109

MONITORING WELLS SAMPLING LOG
RESPIRATION ANALYSIS

Date(s)_____ Job Name _____

Location_____ Job Number_____

Sampler _____

Well Number	Total Depth of Well (feet)	Approx. Depth to Water (feet)	Standing Water Height (feet)	Length of screen above SWL	HNU PI-101 (ppm)	Methane (%CH_4)	Oxygen (% O_2)	Carbon Dioxide (%CO_2)	Comments:

Notes:

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Brewster, MA 02631

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fax (508) 896-5109

INSPECTORS DAILY RECORD OF WORK PROGRESS

Date:

REPORT NUMBER:

Job Name:

Job Number:

Feature:

Contractor:

Type of Work:

Weather Conditions:

Temperature:

Contractor's Work Force (Indicate classification, including subcontractor personnel)

Bennett Environmental Associates:

Equipment in use or idled (Identify which)

Materials or equipment delivered, quantity or pay items placed

Non-conforming materials or work, field problems, inspections of previously reported deficiencies

Summary of construction activities

BENNETT ENVIRONMENTAL ASSOCIATES, INC.
1573 Main St., P.O. Box 1743
Brewster, MA. 02631

Project Name:
Project Location:
Project Number:

Sheet
Boring No.
Location
Surface Elev.

Groundwater Readings

	Date	Reading
1		
2		
3		

	Casing	Sampler	Core
Type			
Size I.D.			
Hammer Wt.			
Hammer Fall			

Start Date
Finish Date
Driller
Inspector

Depth	Sample type-No.	Sampling Depth (ft)	Inches Pen	Inches Rec	Blow Count 6"	TOV Reading	Soil Description	Well Specs	Interpreted Geology
5-ft									
10-ft									
15-ft									
20-ft									
25-ft									
30-ft									
35-ft									
40-ft									
45-ft									

	Cohesive Soils	Granular Soils	Sample Type
Sand			
Gravel	< 2 = very soft	< 4 = very loose	SS - split spoon
Silt	2-4 = soft	5-10 = loose	ST - shelby tube
Top/Sub Soil	4-8 = medium stiff	11-30 = medium	AF - auger flights
Clay	8-15 = stiff	30-50 = dense	RC - rock core
Peat	15-30 = very stiff	> 50 = very dense	MA - microliners
Fill	> 30 = hard		HA - hand auger

SWL: (+/-)

NOTES:

BENNETT ENVIRONMENTAL ASSOCIATES, INC.

LICENSED SITE PROFESSIONALS, ENVIRONMENTAL SCIENTISTS, GEOLOGISTS, SANITARIANS

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BOREHOLE PERMEABLITY TEST

Variable - Head Test

Boring No. _____ Well Point ☐ Standpipe ☐ Test No. _____

Falling Head ☐ Rising Head ☐ Type of Test:_____

Project: _____ Site/Location: _____

Inspector: _____ Date: _____ Checked By: _____ Date: _____

Time: _____ Ground Elevation: _____ Reference Elevation: _____

Casing ID.: _____ Casing O.D.: _____

Depth of Boring (A): _____ Depth to Top of Test Section (B): _____

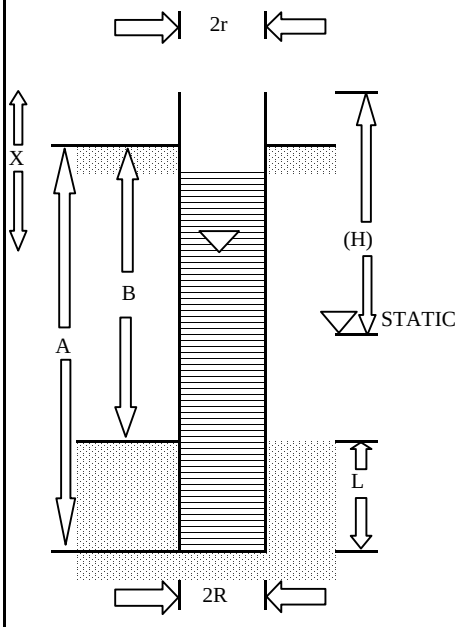
Depth of Groundwater Table (H): _____ Length of Test Section (L): _____

Type of Material in Test Zone (USC or OTHER): _____

Comments: _____

h = H-X (falling head)
or
h = X-H (rising head)

Ho = H-Xo (falling head)
or
xo-H (rising head)
Xo = X at t=0



A, B, H&L are defined above

TIME	ELAPSED TIME (t)	h/Ho	WATER DEPTH (x)	ACTIVE HEAD(h)

BENNETT ENVIRONMENTAL ASSOCIATES, INC.

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Brewster, MA 02631

(508) 896-1706
fax (508) 896-5109

SIEVE ANALYSIS DATA AND COMPUTATION SHEET

Date: Sheet of

Job Name: Job Number:

Sample Number:

Sample Collected By: Sample Tested By:

Notes:

SIEVE OPENING IN MILLIMETERS	SIEVE MESH	WEIGHT RETAINED IN GRAMS (Cumulative)	PERCENT RETAINED (Cumulative)	CUMULATIVE PERCENT FINER	PROJECT MANUAL SPECIFICATION (USCS)
2.36	8				Fine gravel
2.0	10				V. Fine Gravel
1.0	18				V. Coarse Sand
.5	35				Coarse Sand
.25	60				Medium Sand
.125	100				Fine Sand
.075	200				V. Fine Sand
PAN	PAN				Silty/Clay
PASSED MESH SIEVE TOTAL					

Sample Weight Wet:

Sample Weight Dry:

Percent Moisture:

Sample Weight Passed Through Sieves:

Job Name:					Job Number:				Date:			
Location:					Weather:							
Witness:							Start Date:					
Pump & Flow Rate:												
		Location:		TOC:	Location:		TOC:		Location:		TOC:	NOTES:
Time	Time	Depth to Water	Static Water Lv.	Draw Down	Depth to Water	Static Water Lv.	Draw Down		Depth to Water	Static Water Lv.	Draw Down	pH/Cond./Temp.
(sec.) 0												
1												
2												
3												
4												
5												
6												
7												
8												
9												
15												
30												
(sec.) 45												
(min.) 1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
20												
30												
40												
50												
60												
70												
80												
90												
100												
190												
280												
370												
460												
550												
640												
730												
820												
910												
1000												

TECHNICAL REFERENCE

GROUNDWATER ANALYTICAL

228 Main Street, P.O. Box 1200
Buzzards Bay, MA 02532
Telephone (508) 759-4441 • FAX (508) 759-4475
www.groundwateranalytical.com

CHAIN-OF-CUSTODY RECORD AND WORK ORDER

Project Name:	Firm:
Project Number:	Address:
Sampler Name:	City / State / Zip:
Project Manager:	Telephone:

INSTRUCTIONS: Use separate line for each container (except replicates).

TURNAROUND

- ☐ STANDARD (10 Business Days)
- ☐ PRIORITY (5 Business Days)
- ☐ RUSH (RAN- _____)
  (Rush requires Rush Authorization Number)
- ☐ Please Email to: _____
- ☐ Please FAX to: _____

BILLING

- ☐ Purchase Order No.: _____
- ☐ Third Party Billing: _____
- ☐ GWA Quote: _____

ANALYSIS REQUEST

OPTIONS: ☐ TIC Search

Volatiles
- SDWA: ☐ 524.2
- NPDES: ☐ 624
- RCRA/21E: ☐ 8260B TCL+MTBE; ☐ 8260B; ☐ 8260B Aromatics; ☐ 8260B Halocarbons; ☐ 8021B Vermont

Semivolatiles
- OPTIONS: ☐ Acid Only; ☐ B/N Only; ☐ TIC Search
- SDWA: ☐ 525.2
- NPDES: ☐ 625
- RCRA/21E: ☐ 8270D

Pest/Herb/PCBs
- Extractable
  - SDWA: ☐ 505; ☐ 508
  - NPDES: ☐ 608 Pesticides; ☐ 608 PCBs
  - RCRA/21E: ☐ 8081A Pesticides; ☐ 8082 PCBs
- Vol.
  - SDWA: ☐ 531.1; ☐ 515.1; ☐ 504.1 EDB/DBCP
  - NPDES: ☐ 615
  - RCRA/21E: ☐ 8011 EDB/DBCP; ☐ 8151A Herbicides

Metals
- SDWA: ☐ Lead and Copper
- NPDES: ☐ 13 Priority Pollutant
- RCRA/21E: ☐ 8 RCRA; ☐ 5 RCRA; ☐ 14 MA DEP Metals; ☐ 23 TAL
- Specify For Water Samples: ☐ Total; ☐ Dissolved
- ☐ Specify:

Petroleum Hydrocarbon
- Ext. TPH: ☐ Diesel Range Organics (DRO) ☐ ME DRO; ☐ CT ETPH; ☐ MA DEP EPH w/all targets ☐ EPH Carbon Ranges only ☐ EPH w/4 PAHs; ☐ Hydrocarbon Fingerprint (GC/FID by ASTM D3328-05 Mod.); ☐ TPH by GC/FID (8015B Mod) Quantitative Only; ☐ Gasoline Range Organics (GRO) ☐ ME GRO; ☐ MA DEP VPH w/all targets ☐ VPH Carbon ranges only
- Vol. TPH

Haz. Waste
☐ TCLP ☐ SPLP ☐ 8 Metals ☐ Pb only ☐ TVOA ☐ SemiVOA ☐ Pesticides ☐ Herbicides; ☐ Corrosivity (as pH) ☐ Reactivity ☐ Ignitability (as Flashpoint) ☐ Paint Filter; ☐ MA Basic Disposal: 8260/BTCL, TPH, PCBs, 5 Metals, Corrosivity, Ignitability, Reactivity; ☐ MA Extended Disposal: 8260B, 8270D, TPH, PCBs, 5 Metals, Corrosivity, Ignitability, Reactivity

General Chemistry
☐ Nitrate ☐ Nitrite ☐ Chloride ☐ Fluoride ☐ Sulfate; ☐ Dissolved Phosphorus; ☐ Ammonia ☐ TKN ☐ Total Phosphorus ☐ Total N (as N02/N03/TKN); ☐ Oil & Grease; ☐ COD ☐ TOC; ☐ BOD ☐ TDS ☐ TSS ☐ TS ☐ Alkalinity; ☐ Total Cyanide ☐ Physiologically Available Cyanide ☐ Available Cyanide

Other
☐ pH ☐ Dissolved Oxygen ☐ Turbidity; ☐ Total Coliform ☐ Fecal Coliform ☐ HPC; ☐ MA DEP Asbestos in Soil ☐ Asbestos (PLM)

Sampling			Matrix						Type		Container(s)										Preservation						Filtered		LABORATORY NUMBER (Lab Use Only)
DATE	TIME	SAMPLE IDENTIFICATION	GROUNDWATER	DRINKING WATER	WASTEWATER	SOIL	OTHER SOLID	OIL/ORGANIC LIQUID	COMPOSITE	GRAB	NUMBER	40mL VOA Vial	60mL/2 oz Glass	120mL/4 oz Amber Glass	250mL/8 oz Glass	500mL/16 oz Glass	1L/32 oz Amber Glass	250mL/8 oz Plastic	500mL/16 oz Plastic	1L/32 oz Plastic	120mL Sterile	HCl	HNO_3	H_2SO_4	NaOH	Methanol	Sodium Bisulfate	ICE	YES	NO	

REMARKS / SPECIAL INSTRUCTIONS

- ☐ YES ☐ NO MCP Data Certification required.
- ☐ YES ☐ NO MCP Drinking Water Sample included.
  (Volatile analyses require duplicate collection and Trip Blanks).
- ☐ Analyze Duplicates and Trips Blanks only if positive results.
- ☐ YES ☐ NO CT RCP Data Certification required.

Signature: _____

DATA QUALITY OBJECTIVES

Regulatory Program

State	Standard	Deliverables
☐ CT	☐ MCP GW-1/S-1	☐ PWS Form
☐ ME	☐ MCP GW-2/S-2	☐ MWRA
☐ MA	☐ NY STARS	☐ _____
☐ NH	☐ Drinking Water	
☐ NY	☐ Wastewater	
☐ RI	☐ Waste Disposal	
☐ VT	☐ Dredge Material	
☐ ___	☐ _____	

Project Specific QC

Many regulatory programs and EPA methods require project specific QC. Project specific QC includes Sample Duplicates, Matrix Spikes, and/or Matrix Spike Duplicates. Laboratory QC is not project specific unless prearranged. Project specific QC samples are charged on a per sample basis. **Each MS, MSD and Sample Duplicate requires an additional sample aliquot.**

Project Specific QC Required
- ☐ Sample Duplicate
- ☐ Matrix Spike
- ☐ Matrix Spike Duplicate

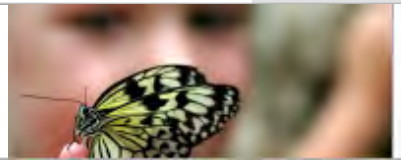
Selection of QC Sample
- ☐ Please use sample: _____

CHAIN-OF-CUSTODY RECORD

NOTE: All samples submitted subject to Standard Terms and Conditions on reverse hereof.

Relinquished by Sampler:	Date	Time	Received by:	Receipt Temperature: ☐ Ice ☐ Refrigerated 2-6°C Recommended
Relinquished by:	Date	Time	Received by:	Container Count:
Relinquished by:	Date	Time	Received by Laboratory:	Shipping/Airbill Number:
Method of Shipment: ☐ GWA Courier ☐ Express Mail ☐ Federal Express ☐ UPS ☐ Hand ☐ _____				Custody Seal Number:

GROUNDWATER ANALYTICAL



SAMPLE REQUIREMENTS
ANALYTE LISTS
USEFUL LINKS

SAMPLE REQUIREMENTS

Click on any section below!

Volatile Organics by Gas Chromatography/Mass Spectrometry (GC/MS)
Volatile Organics by Gas Chromatography (GC)
Semivolatile Organics by Gas Chromatography/Mass Spectrometry (GC/MS)
Pesticides, PCBs and Herbicides by Gas Chromatography (GC)
Petroleum Hydrocarbons by Gas Chromatography(GC)
Hazardous Waste Characterization Analyses
Metals by ICP, GFAA and CVAA
Colorimetric Methods for Metals Speciation
Inorganic Analyses
Microbiological Analyses

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Volatile Organics by Gas Chromatography/Mass Spectrometry (GC/MS)

Parameter	Method	Matrix	Minimum Qty.[1]	Recommended Containers(s)[2]	Required Preservation	Holding Time[8]
Volatile Organics	EPA 8260B	Aqueous	40mL	3 x 40mL VOA Vials[12]	Cool to 4°C[3] HCl to pH <2[4] Remove Chlorine[7]	14 Days
Volatile Organics	EPA 8260B	Soil	40mL	1 x 40mL VOA Vial with Methanol and 3 x 40mL VOA Vials with Sodium Bisulfate and 1 unpreserved container for percent moisture	Cool to 4°C[3] Methanol and Sodium Bisulfate	14 Days
Wastewater Volatile Organics	EPA 624	Aqueous	40mL	3 x 40mL VOA Vials[12]	Cool to 4°C[3] HCl to pH <2[4] Remove Chlorine[7]	14 Days

Drinking Water Volatile Organics	EPA 524.2	Aqueous	40mL	3 x 40mL VOA Vials[12]	Cool to 4°C[3] HCl to pH <2[4] Remove Chlorine[7]	14 Days

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Volatile Organics by Gas Chromatography (GC)

Parameter	Method	Matrix	Minimum Qty.[1]	Recommended Containers(s)[2]	Required Preservation	Holding Time[8]
Volatile Organics	EPA 8021B	Aqueous	40mL	3 x 40mL VOA Vials[12]	Cool to 4°C[3] HCl to pH <2[4] Remove Chlorine[7]	14 Days
Volatile Organics	EPA 8021B	Soil	40mL	1 x 40mL VOA Vial with Methanol and 1 unpreserved container for percent moisture	Cool to 4°C[3] Methanol	14 Days
Wastewater Volatile Organics	EPA 601	Aqueous	40mL	3 x 40mL VOA Vials[12]	Cool to 4°C[3] Remove Chlorine[7]	14 Days
Wastewater Volatile Organics	EPA 602	Aqueous	40mL	3 x 40mL VOA Vials[12]	Cool to 4°C[3] HCl to pH <2[4] Remove Chlorine[7]	14 Days

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Semivolatile Organics by Gas Chromatography/Mass Spectrometry (GC/MS)

Parameter	Method	Matrix	Minimum Qty.[1]	Recommended Containers(s)[2]	Required Preservation	Holding Time[8]
Semivolatile Organics	EPA 8270C	Aqueous	1L	2 x 1L Amber Glass Bottle w/ teflon liner[17]	Cool to 4°C[3] Remove Chlorine[7]	7 Days[9]
Semivolatile Organics	EPA 8270C	Soil	30g	Glass Jar w/teflon liner[17]	Cool to 4°C[3]	14 Days[10]
Wastewater Semivolatile Organics	EPA 625	Aqueous	1L	2 x 1L Amber Glass Bottle w/ teflon liner[17]	Cool to 4°C[3] Remove Chlorine[7]	7 Days[9]

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Pesticides, PCBs and Herbicides by Gas Chromatography (GC)

Parameter	Method	Matrix	Minimum Qty.[1]	Recommended Containers(s)[2]	Required Preservation	Holding Time[8]
Organochlorine Pesticides	EPA 8081A	Aqueous	1L	2 x 1L Amber Glass Bottle w/ teflon liner[17]	Cool to 4°C[3] Remove Chlorine[7]	7 Days[9]

Organochlorine Pesticides	EPA 8081A	Soil	30g	Glass Jar w/ teflon liner[17]	Cool to 4°C[3]	14 Days[10]
PCBs	EPA 8082	Aqueous	1L	2 x 1L Amber Glass Bottle w/ teflon liner[17]	Cool to 4°C[3] Remove Chlorine[7]	7 Days[9]
PCBs	EPA 8082	Soil	30g	Glass Jar w/ teflon liner[17]	Cool to 4°C[3]	14 Days[10]
PCBs in Oil	EPA 8082 Modified	Organic Liquid	5g	1 x 40mL VOA Vial	None	14 Days[10]
EDB and DBCP	EPA 8011	Aqueous	40mL	3 x 40mL VOA Vials[12]	Cool to 4°C[3] HCl to pH <2[4] Remove Chlorine[7]	14 Days
EDB in Soil	EPA 8011 Modified	Soil	30g	1 x 60mL Glass Jar w/ septum cap[12]	Cool to 4°C[3]	14 Days
Chlorinated Herbicides	EPA 8151A	Aqueous	1L	2 x 1L Amber Glass Bottle w/ teflon liner[17]	Cool to 4°C[3] Remove Chlorine[7]	7 Days[9]
Chlorinated Herbicides	EPA 8151A	Soil	30g	Glass Jar w/ teflon liner[17]	Cool to 4°C[3]	14 Days[10]
Organophosphorus Pesticides	EPA 8141A	Aqueous	1L	2 x 1L Amber Glass Bottle w/ teflon liner[17]	Cool to 4°C[3] Remove Chlorine[7]	7 Days[9]
Organophosphorus Pesticides	EPA 8141A	Soil	30g	Glass Jar w/ teflon liner[17]	Cool to 4°C[3]	14 Days[10]
Wastewater Organochlorine Pesticides	EPA 608	Aqueous	1L	2 x 1L Amber Glass Bottle w/ teflon liner[17]	Cool to 4°C[3] Check pH; Adjust 5-9[6]; Remove Chlorine[7]	7 Days[9]
Wastewater PCBs	EPA 608	Aqueous	1L	2 x 1L Amber Glass Bottle w/ teflon liner[17]	Cool to 4°C[3] Remove Chlorine[7]	7 Days[9]
Wastewater Chlorinated Herbicides	EPA 615	Aqueous	1L	2 x 1L Amber Glass Bottle w/ teflon liner[17]	Cool to 4°C[3] Remove Chlorine[7]	7 Days[9]
Drinking Water EDB and DBCP	EPA 504.1	Aqueous	40mL	3 x 40mL VOA Vials[12]	Cool to 4°C[3] Add Sodium Thiosulfate[26]	14 Days
Drinking Water Chlorinated Pesticides	EPA 508.1	Aqueous	1L	2 x 1L Amber Glass Bottle w/ teflon liner[17]	HCl to pH <2[4] Cool to 4°C[3] Remove Chlorine[24]	14 Days[22]
Drinking Water Herbicides	EPA 515.1	Aqueous	1L	2 x 1L Amber Glass Bottle w/ teflon liner[17]	Cool to 4°C[3] Remove Chlorine[7]	14 Days[23]
Drinking Water Semivolatil e Organics	EPA 525.2	Aqueous	1L	2 x 1L Amber Glass Bottle w/ teflon liner[17]	HCl to pH <2[4] Cool to 4°C[3] Remove Chlorine[24]	14 Days[22]

Drinking Water Carbamate Pesticides	EPA 531.1	Aqueous	60mL	2 x 60mL Glass Vial	Monochloroacetic Acid Buffer at pH 3 Cool to 4°C[3] Remove Chlorine[7]	28 Days
Drinking Water Endothall	EPA 548.1	Aqueous	250mL	2 x 500mL Amber Glass Bottle w/teflon liner[17]	Cool to 4°C[3] Add Sodium Thiosulfate[26]	14 Days[21]
Drinking Water Diquat and Paraquat	EPA 549.2	Aqueous	1L	2 x 1L Black Plastic Bottle	Cool to 4°C[3] Add Sodium Thiosulfate[26]	7 Days[27]
Drinking Water Haloacetic Acids (HAAs)	EPA 552.2	Aqueous	40mL	3 x 40mL Amber VOA Vials[12]	Add NH_4Cl Cool to 4°C[3] Add Sodium Thiosulfate[26]	14 Days[28]

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Petroleum Hydrocarbons by Gas Chromatography(GC)

Parameter	Method	Matrix	Minimum Qty.[1]	Recommended Containers(s)[2]	Required Preservation	Holding Time[8]
Hydrocarbon Fingerprint	ASTM D3328-90	Aqueous	1L	2 x 1L Amber Glass Bottle w/ teflon liner[17]	Cool to 4°C[3] H_2SO_4 to pH <2[13]	7 Days[9]
Hydrocarbon Fingerprint	ASTM D3328-90	Soil	30g	Glass Jar w/ teflon liner[17]	Cool to 4°C[3]	14 Days[10]
TPH by (GC/ FID)	EPA 8100 Modified	Aqueous	1L	2 x 1L Amber Glass Bottle w/ teflon liner[17]	Cool to 4°C[3] H_2SO_4 to pH <2[13]	7 Days[9]
TPH by (GC/ FID)	EPA 8100 Modified	Soil	30g	Glass Jar w/ teflon liner[17]	Cool to 4°C[3]	14 Days[10]
API DRO	EPA 8100 Modified	Aqueous	1L	2 x 1L Amber Glass Bottle w/ teflon liner[17]	Cool to 4°C[3] H_2SO_4 to pH <2[13]	7 Days[9]
API DRO	EPA 8100 Modified	Soil	30g	Glass Jar w/ teflon liner[17]	Cool to 4°C[3]	14 Days[10]
API GRO	EPA 8015 Modified	Aqueous	40mL	3 x 40mL VOA Vials[12]	Cool to 4°C[3] HCl to pH <2[4]	14 Days
API GRO	EPA 8015 Modified	Soil	40mL	1 x 40mL VOA Vial with Methanol and 1 unpreserved container for percent moisture	Cool to 4°C[3] Methanol	14 Days
CT ETPH	CT ETPH	Aqueous	1L	2 x 1L Amber Glass Bottle w/ teflon liner[17]	Cool to 4°C[3]	7 Days[9]

CT ETPH	CT ETPH	Soil	30g	Glass Jar w/ teflon liner[17]	Cool to 4°C[3]	14 Days[10]
ME DRO	ME 4.1.25	Aqueous	1L	2 x 1L Amber Glass Bottle w/ teflon liner[17]	Cool to 4°C[3] H_2SO_4 to pH <2[13]	7 Days[9]
ME DRO	ME 4.1.25	Soil	30g	Glass Jar w/ teflon liner[17]	Cool to 4°C[3]	14 Days[10]
ME GRO	ME 4.2.17	Aqueous	40mL	3 x 40mL VOA Vials[12]	Cool to 4°C[3] HCl to pH <2[4]	14 Days
ME GRO	ME 4.2.17	Soil	40mL	1 x 40mL VOA Vial with Methanol and 1 unpreserved container for percent moisture	Cool to 4°C[3] Methanol	14 Days
MA DEP VPH	MA DEP VPH 2004	Aqueous	40mL	3 x 40mL VOA Vials[12]	Cool to 4°C[3] HCl to pH <2[4]	14 Days
MA DEP VPH	MA DEP VPH 2004	Soil	40mL	1 x 40mL VOA Vial with Methanol and 1 unpreserved container for percent moisture	Cool to 4°C[3] Methanol	28 Days
MA DEP EPH	MA DEP EPH 2004	Aqueous	1L	2 x 1L Amber Glass Bottle w/ teflon liner[17]	Cool to 4°C[3] H_2SO_4 to pH <2[13]	14 Days[10]
MA DEP EPH	MA DEP EPH 2004	Soil	30g	Glass Jar w/ teflon liner[17]	Cool to 4°C[3]	14 Days[10]

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Hazardous Waste Characterization Analyses

Parameter	Method	Matrix	Minimum Qty.[1]	Recommended Containers(s)[2]	Required Preservation	Holding Time[8]
TCLP/SPLP Volatile Organics	EPA 1311/1312 EPA 8260B	Solid[18]	150g	2 x 125mL Glass Vial w/ teflon septum cap[16]	Cool to 4°C[3]	14 Days[19]
TCLP/SPLP Metals, Semivolatiles, Pesticides and Herbicides	EPA 1311/1312 EPA 6010B/7470A EPA 8270C EPA 8081A EPA 8151A	Solid[18]	300g	Glass Jar w/ teflon liner[17]	Cool to 4°C[3]	28 Days[19] 14 Days[19]
Ignitability	EPA 1010 Modified	Solid	50g	Glass or Plastic Jar	None	None
Corrosivity (as pH)	EPA 9045C	Solid	50g	Glass or Plastic Jar	Cool to 4°C[3]	None
Reactivity	SW-846	Solid	50g	Glass or Plastic Jar	Cool to 4°C[3]	None

Free Liquids	EPA 9095	Solid	100g	Glass or Plastic Jar	None	None

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Metals by ICP, GFAA and CVAA

Parameter	Method	Matrix	Minimum Qty.[1]	Recommended Containers(s)[2]	Required Preservation	Holding Time[8]
Total Metals (except Mercury)	EPA 6010B	Aqueous	100mL	Plastic Bottle	HNO_3 to pH <2	180 Days
Dissolved Metals (except Mercury)	EPA 6010B	Aqueous	100mL	Plastic Bottle	Filter First[11] HNO_3 to pH <2	180 Days
Total Metals (except Mercury)	EPA 6010B	Soil	15g	Glass or Plastic Bottle	Cool to 4°C[3]	180 Days
Total Mercury	EPA 7470A	Aqueous	100mL	Plastic Bottle	HNO_3 to pH <2	28 Days
Dissolved Mercury	EPA 7470A	Aqueous	100mL	Plastic Bottle	Filter First[11] HNO_3 to pH <2	28 Days
Total Mercury	EPA 7471A	Soil	15g	Glass or Plastic Bottle	Cool to 4°C[3]	28 Days
Wastewater and Drinking Water Total Metals (except Mercury)	EPA 200.7	Aqueous	100mL	Plastic Bottle	HNO_3 to pH <2	180 Days
Wastewater Dissolved Metals (except Mercury)	EPA 200.7	Aqueous	100mL	Plastic Bottle	Filter First[11] HNO_3 to pH <2	180 Days
Wastewater and Drinking Water Total Mercury	EPA 245.1	Aqueous	100mL	Plastic Bottle	HNO_3 to pH <2	28 Days
Wastewater Dissolved Mercury	EPA 245.1	Aqueous	100mL	Plastic Bottle	Filter First[11] HNO_3 to pH <2	28 Days

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Colorimetric Methods for Metals Speciation

Parameter	Method	Matrix	Minimum Qty.[1]	Recommended Containers(s)[2]	Required Preservation	Holding Time[8]
Chromium, Hexavalent	SM 3500-Cr D EPA 7196A	Aqueous	100mL	Plastic Bottle	Cool to 4°C[3]	24 Hours

Chromium, Hexavalent	EPA 7196A	Soil	15g	Glass or Plastic Bottle	Cool to 4°C[3]	30 Days
Iron, Ferrous	SM 3500-Fe D	Aqueous	100mL	Plastic Bottle	None	Analyze Immediately

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Inorganic Analyses

Parameter	Method	Matrix	Minimum Qty.[1]	Recommended Containers(s)[2]	Required Preservation	Holding Time[8]
Acidity	SM 2310 B	Aqueous	100mL	Plastic or Glass Bottle	Cool to 4°C[3]	14 Days
Alkalinity	SM 2320 B EPA 310.2	Aqueous	100mL	Plastic or Glass Bottle	Cool to 4°C[3]	14 Days
BOD	SM 5210 B	Aqueous	1L	Plastic or Glass Bottle	Cool to 4°C[3]	48 Hours
CBOD	SM 5210 B	Aqueous	1L	Plastic or Glass Bottle	Cool to 4°C[3]	48 Hours
Chloride	EPA 325.2 EPA 300.0 EPA 9251	Aqueous	50mL	Plastic or Glass Bottle	None	28 Days
Chlorine, Total Residual	SM 4500-Cl G	Aqueous	200mL	Plastic or Glass Bottle	None	Analyze Immediately
Chemical Oxygen Demand (COD)	SM 5220 D	Aqueous	50mL	Plastic or Glass Bottle	H2SO4 to pH <2 Cool to 4°C[3]	28 Days
Color	SM 2120 B	Aqueous	50mL	Plastic or Glass Bottle	Cool to 4°C[3]	48 Hours
Cyanide, Amenable to Chlorination	EPA 335.1	Aqueous	500mL	Plastic or Glass Bottle	Remove Sulfide[14] NaOH to pH >12 Cool to 4°C[3]	14 Days
Cyanide, Total	EPA 335.3 EPA 335.4 EPA 9012A	Aqueous	500mL	Plastic or Glass Bottle	Remove Sulfide[14] NaOH to pH >12 Cool to 4°C[3]	14 Days
Fluoride	SM 4500-F C EPA 300.0	Aqueous	300mL	Plastic Bottle Only	None	28 Days
MBAS (Surfactants)	SM 5540 C	Aqueous	250mL	Plastic or Glass Bottle	Cool to 4°C[3]	48 Hours

Nitrogen, Ammonia	SM 4500-NH3 G	Aqueous	4 00mL	Plastic or Glass Bottle	H2SO4 to pH <2 Cool to 4°C[3]	28 Days
Nitrogen, Nitrate	SM 4500-NO3 F EPA 300.0	Aqueous	100mL	Plastic or Glass Bottle	Cool to 4°C[3]	48 Hours
Nitrogen, Nitrate (Chlorinated Drinking Water)	SM 4500-NO3 F EPA 300.0	Aqueous	100mL	Plastic or Glass Bottle	Cool to 4°C[3]	14 Days
Nitrogen, Nitrite	SM 4500-NO3 F EPA 300.0	Aqueous	100mL	Plastic or Glass Bottle	Cool to 4°C[3]	48 Hours
Nitrogen, Nitrate plus Nitrate	SM 4500-NO3 F	Aqueous	100mL	Plastic or Glass Bottle	H2SO4 to pH <2 Cool to 4°C[3]	28 Days
Nitrogen, Total Kjeldahl (TKN)	EPA 351.2	Aqueous	500mL	Plastic or Glass Bottle	H2SO4 to pH <2 Cool to 4°C[3]	28 Days
Odor	SM 2150 B	Aqueous	200mL	Glass Bottle Only	Cool to 4°C[3]	24 Hours
Oil and Grease, Gravimetric	SM 5520 B EPA 1664 EPA 9070	Aqueous	1L	1 x 1L Amber Glass Bottle w/ teflon liner[17]	H2SO4 to pH <2[13] Cool to 4°C[3]	28 Days
Organic Carbon, Total (TOC)	SM 5310 B EPA 9060	Aqueous	25mL	Plastic or Glass Bottle	H2SO4 to pH <2 Cool to 4°C[3]	28 Days
Oxygen, Dissolved	SM 4500-O G	Aqueous	300mL	Glass Bottle Only	None	Analyze Immediately
pH	SM 4500-H + B EPA 9040B	Aqueous	25mL	Plastic or Glass Bottle	None	Analyze Immediately
Petroleum Hydrocarbons, Total (TPH-IR)	SM 5520 CF	Aqueous	1L	1 x 1L Amber Glass Bottle w/ teflon liner[17]	H2SO4 to pH <2[13] Cool to 4°C[3]	28 Days
Phenolics, Total	EPA 420.2 EPA 9066	Aqueous	500mL	1 x 1L Amber Glass Bottle w/ teflon liner[17]	H2SO4 to pH <2 Cool to 4°C[3]	28 Days
Phosphate, Ortho	SM 4500-P F	Aqueous	50mL	Glass Bottle Only	Filter (0.45 µm) Cool to 4°C3	48 Hours
Phosphorus, Total	SM 4500-P F	Aqueous	50mL	Plastic or Glass Bottle	H2SO4 to pH <2 Cool to 4°C[3]	28 Days

Phosphorus, Total (Low-level 0.005 mg/L)	SM 4500-P E	Aqueous	50mL	Plastic or Glass Bottle	H2SO4 to pH <2 Cool to 4°C[3]	28 Days
Solids, Settleable (SS)	SM 2540 F	Aqueous	1L	Plastic or Glass Bottle	Cool to 4°C[3]	48 Hours
Solids, Total (TS)	SM 2540 B	Aqueous	100mL	Plastic or Glass Bottle	Cool to 4°C[3]	7 Days
Solids, Total Dissolved (TDS)	SM 2540 C	Aqueous	100mL	Plastic or Glass Bottle	Cool to 4°C[3]	7 Days
Solids, Total Suspended (TSS)	SM 2540 D	Aqueous	100mL	Plastic or Glass Bottle	Cool to 4°C[3]	7 Days
Solids, Total Volatile (TVS)	SM 2540 E	Aqueous	100mL	Plastic or Glass Bottle	Cool to 4°C[3]	7 Days
Solids, Volatile Suspended (VSS)	SM 2540 E	Aqueous	100mL	Plastic or Glass Bottle	Cool to 4°C[3]	7 Days
Solids, Volatile Dissolved (VDS)	EPA 2540 E	Aqueous	100mL	Plastic or Glass Bottle	Cool to 4°C[3]	7 Days
Specific Conductance	SM 2510B EPA 9050A	Aqueous	100mL	Plastic or Glass Bottle	Cool to 4°C[3]	28 Days
Sulfate	SM 4500-SO4 F EPA 300.0 EPA 9056	Aqueous	50mL	Plastic or Glass Bottle	Cool to 4°C[3]	28 Days
Sulfide	SM 4500-S2 D	Aqueous	500mL	Plastic or Glass Bottle	NaOH to pH >9 2mL Zinc Acetate Cool to 4°C[3]	7 Days
Turbidity	SM 2130 D	Aqueous	100mL	Plastic or Glass Bottle	Cool to 4°C[3]	48 Hours

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Microbiological Analyses

Parameter	Method	Matrix	Minimum Qty.[1]	Recommended Containers(s)[2]	Required Preservation	Holding Time[8]
Wastewater Total Coliform (Membrane Filtration)	SM 9222 B	Aqueous	100mL	Sterilized Bottle	Cool to 4°C[3] Remove Chlorine[7]	6 Hours
Wastewater Fecal Coliform (Membrane Filtration)	SM 9222 D	Aqueous	100mL	Sterilized Bottle	Cool to 4°C[3] Remove Chlorine[7]	6 Hours

Drinking Water Total Coliform (Membrane Filtration)	SM 9222 B	Aqueous	100mL	Sterilized Bottle	Cool to 4°C[3] Remove Chlorine[7]	30 Hours
Drinking Water Total Coliform (Colilert)	SM 9223 B	Aqueous	100mL	Sterilized Bottle	Cool to 4°C[3] Remove Chlorine[7]	30 Hours
Drinking Water Fecal Coliform (Membrane Filtration)	SM 9222 D	Aqueous	100mL	Sterilized Bottle	Cool to 4°C[3] Remove Chlorine[7]	30 Hours
Drinking Water E. Coli	SM 9222 SM 9223	Aqueous	100mL	Sterilized Bottle	Cool to 4°C[3] Remove Chlorine[7]	30 Hours
Heterotrophic Plate Count (Standard Plate Count)	SM 9215	Aqueous	100mL	Sterilized Bottle	Cool to 4°C[3] Remove Chlorine[7]	30 Hours

Go back to top!

Sampling Notes

1. The minimum quantity specified is the minimum amount of sample material necessary to perform the analysis. This quantity allows for no margin of error. For some analyses, Groundwater Analytical recommends specific types and numbers of containers (e.g., an Aqueous Volatile Organic sample requires 3 x 40mL Glass Vials w/teflon septum caps). In such cases, the recommended container(s) allow for an adequate margin of error.
   For other analyses, Groundwater Analytical only recommends a general type of container (e.g., a Solid Semivolatile Organic sample requires a Glass Jar w/ teflon liner). In such cases, it is strongly recommended that twice the minimum quantity of sample material be collected in the recommended type of container.
   For solid samples, in addition to the minimum quantities required for individual analyses, each sample also requires 20g of sample material for a percent solids (or percent moisture) determination. Example: A soil sample collected for TPH-IR (30g), 8 RCRA Metals (2.6g) and PCBs (30g) requires a minimum of 62.6g of material for the desired analyses, and 20g of material for percent solids (or percent moisture), for a total required minimum of 82.6g of material. It is then recommended that this minimum be doubled, and at least 165.2g of sample material be collected in a Glass Jar w/teflon liner.
   For solid samples, all minimum quantities are calculated net of all foreign objects, such as sticks, leaves and rocks.
2. Only sample containers pre-cleaned according to US EPA protocols are recommended. Appropriate pre-cleaned and pre-preserved containers are available from Groundwater Analytical. Pre-cleaned sample containers should **not** be pre-rinsed with sample prior to sample collection. Pre-rinsing may cause elevated results.
3. Samples should be immediately cooled, stored and shipped refrigerated. 4°C (34°F) is the recommended temperature for most analyses. Refrigeration retards biological degradation, reduces the volatility of compounds, retards

the hydrolysis of non-aqueous compounds, reduces absorption effects and prevents continuing chemical reactions.

4. Adjust to pH <2 with Hydrochloric Acid (HCl). Acidification retards biological action, reduces absorption effects and prevents the formation of precipitates and/or complexes. Sulfuric Acid (H_2SO_4) or Sodium Bisulfate ($NaHSO_4$) may be substituted for HCl in EPA Methods 8021B, 8011, and 8260B.

5. Adjust to a pH range of 4.0 to 5.0 with Hydrochloric Acid (HCl), Sulfuric Acid (H_2SO_4) or Sodium Hydroxide (NaOH).

6. If sample will not be received by laboratory within 24 hours of collection, then adjust to specified pH range with Sulfuric Acid (H_2SO_4) or Sodium Hydroxide (NaOH). The pH adjustment may be omitted if it is performed upon receipt at the laboratory within 24 hours, and may be omitted if the sample is extracted within 48 hours of collection.

7. If free chlorine is present in the sample, then Sodium Thiosulfate ($Na_2S_2O_3$) should be added. Free chlorine can react with organic compounds to form chlorination by-products. Free chlorine is likely to be found in chlorinated municipal drinking waters and treated wastewaters. Sodium Thiosulfate, a reducing agent, is added to remove the free chlorine. For most levels of free chlorine, add 4 drops of 10% Sodium Thiosulfate to samples in 40mL vials, and add 5mL of 10% Sodium Thiosulfate to samples in 1L bottles.

8. The listed Holding Time is the maximum time a sample may be held between collection and initiation of analysis or extraction.

9. Samples must be extracted within 7 days of collection. Extracts must then be analyzed within 40 days of extraction.

10. Samples must be extracted within 14 days of collection. Extracts must then be analyzed within 40 days of extraction.

11. Samples for dissolved metals must be filtered **prior** to preservation with Nitric Acid (HNO_3). Filtration **must** be done with a 0.45 micron membrane filter.

    Field filtration and preservation is preferred.
    However, if field filtration is not possible, samples should be cooled at 4°C and shipped to the laboratory for filtration and preservation. Filtration must be done as soon as practical after collection. Groundwater Analytical recommends that filtration be done within 24 hours of collection. If samples are not going to be field filtered, do **not** preserve samples with Nitric Acid (HNO_3).

12. Aqueous samples samples for Volatile Organic Analyses (VOA) must be collected without any headspace or air bubbles. Volatile organics dissolved in water tend to volatilize readily and will fill any air bubble available in the vial. Particularly with low level samples, this results in a loss of material upon opening the vial. VOA vials must be filled slowly until the liquid forms a meniscus on the rim of the vial. The cap should then be gently placed on the vial, taking care not to disturb the crown of liquid, and firmly rotated tight. The vial should then be examined to verify the absence of all air bubbles.

13. Adjust to pH <2 with Sulfuric Acid (H_2SO_4). Alternatively, Hydrochloric Acid (HCl) may be used.

14. Maximum holding time is 24 hours when Sulfide is present. Samples may be tested with lead acetate paper before the pH adjustment in order to determine

if Sulfide is present. If Sulfide is present, it can be removed by the addition of Cadmium Nitrate powder until a negative spot test is obtained. The sample is then filtered, and NaOH is added to adjust the pH >12.

15. Adjust to pH <2 with Nitric Acid (HNO_3) or Sulfuric Acid (H_2SO_4).

    Acidification retards biological action, reduces absorption effects and prevents the formation of precipitates and/or complexes.

16. Samples should be collected with a minimum of aeration. The sample bottle should be filled completely, excluding all headspace, and capped.

17. Extractable organic samples are susceptible to Phthalate ester contamination. Phthalate ester contamination is generally caused by sample contact with a plastic material, particularly flexible plastics. Use care to avoid sample contact with any plastic, other than Teflon.

18. Specified quantities of sample material are for **only** single phase solid samples (i.e. no free liquids). Liquid phase or multiple phase samples require different quantities of sample material. Contact laboratory for advice prior to collecting liquid phase or multiple phase samples for TCLP analyses.

19. Samples for TCLP Volatile Organics analysis must be leached within 14 days of collection. The leachate must then be analyzed within 14 days of leaching.
    Samples for TCLP Metals analysis must be leached within 28 days of collection, if Mercury is being analyzed. The leachate must then be analyzed within 28 days of leaching. If Mercury is **not** being analyzed, then samples for TCLP Metals must be leached within 180 days of collection, and the leachate analyzed within 180 days of leaching.
    Samples for TCLP Semivolatile Organics, TCLP Pesticides, and TCLP Herbicides analyses must be leached within 14 days of collection. The leachate must then be extracted within 7 days of leaching. The extract must then be analyzed within 40 days of extraction.

20. Samples must be analyzed within 7 days of collection. However, if Heptachlor is not being determined, sample holding time to analysis may be extended to 14 days.

21. Samples must be extracted within 7 days of collection. Extracts must then be analyzed within 14 days of extraction.

22. Samples must be extracted within 14 days of collection. Extracts must then be analyzed within 30 days of extraction.

23. Samples must be extracted within 14 days of collection. Extracts must then be analyzed within 28 days of extraction.

24. Add 40-50mg of Sodium Sulfite to each liter of sample to reduce free chlorine that may be present. Free chlorine can react with organic compounds to form chlorination by-products. Free chlorine is likely to be found in chlorinated municipal drinking waters and treated wastewaters. Alternatively, use 40-50mg of Sodium Arsenite. Do not use Sodium Thiosulfate, as it may produce a residue of elemental sulfur which may interfere with the determination of some analytes.

25. Samples must be extracted within 7 days of collection. Extracts must then be analyzed within 30 days of extraction.

26. Add Sodium Thiosulfate to reduce free chlorine that may be present. Free chlorine can react with organic compounds to form chlorination by-products. Free chlorine is likely to be found in chlorinated municipal drinking waters.

Use approximately 80mg of Sodium Thiosulfate per liter of sample.

27. Samples must be extracted within 7 days of collection. Extracts must then be analyzed within 21 days of extraction.

28. Samples must be extracted within 14 days of collection. Extracts must then be analyzed within 7 days of extraction.

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COMMONWEALTH OF MASSACHUSETTS

DEPARTMENT OF ENVIRONMENTAL PROTECTION

STANDARD REFERENCES FOR MONITORING WELLS

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SECTION 1.2 TABLE OF CONTENTS

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Eastham, MA - Well Sampling for the
Analysis of Volatile Organic Compounds (VOCs) and 1,4-Dioxane

Study area in the vicinity of:
225 Old Orchard Rd./Eastham Landfill
Eastham, MA 02642

Sampling and Analyses Plan (SAP)

April 24, 2013

U.S. Environmental Protection Agency – Region 1
Office of Environmental Measurement & Evaluation
Environmental Investigations & Analysis Unit

Plan Prepared By: _____ Date: 4/28/13
Lisa Thuot (EIA) - Sampling Co-Leader

Plan Reviewed By: _____ Date: 4/25/13
Dan Granz (EIA) - Sampling QA\Leader

Plan Reviewed By: _____ Date: 04/28/13
Jerry Keefe (EIA) – EIA Team Leader

Plan Approved By: _____ Date: 5/6/2013
Ernest Waterman (EIA) – EIA Manager

This site specific Sample Analysis Plan (SAP) was written in conjunction with the EIA generic SAP dated 01/05/11. The general project goals, procedures, and quality control criteria in the generic SAP are included in the specific SAP by reference. This SAP includes any additional site specific information not included in the generic SAP along with a site map, sample locations, the number and type of samples to be collected, the project manager and sampling team members, and any other pertinent information related to this project.

1. **Project Name:** Eastham, MA - Well Sampling for the analysis of VOCs and 1,4-Dioxane

2. **Site ID:** None

3. **Project Requested By:** Angela Gallagher, Massachusetts Department of Environmental Protection (MassDEP) – Southeast Region

4. **Date of Request:** March 21, 2013

5. **Date of Project Initiation:** April 29, 2013

6. **Project Description**

A. Objective and Scope Statement:

The purpose of this sampling event is to collect representative ground water samples from up to sixty (60) or more of wells on properties located north, east and southeast of the Eastham Landfill, which resides at 225 Old Orchard Street in Eastham, MA (the "Landfill"). The wells provide potable drinking water to private residences/properties in Eastham. The objective is to evaluate the presence or absence of organic contaminants, specifically volatile organic compounds (VOCs) including low-level 1,4-Dioxane, in wells located within the expanded study area as defined in the IRA Status Report 1 by Bennett Environmental Associates, Inc. (see map and report, attached).

Sampling will be conducted by field personnel from the EPA's Environmental Investigation & Analysis Unit (EIA) located at the EPA New England Regional Laboratory (NERL) in North Chelmsford, MA. Samples will be analyzed for VOCs and 1,4-Dioxane by Test America laboratory in South Burlington, VT. State oversight will also be provided by MassDEP.

Sampling support was requested by the Massachusetts Department of Environmental Protection (MassDEP) – Southeast Regional Office, 20 Riverside Drive in Lakeville, MA. This project is an extension of previous sampling events conducted by the Town (the "Town") for VOCs and 1,4-Dioxane, the latest which occurred in February 2013, including 58 residential wells, the Town Department of Public Works (DPW) well, and the Town Elementary School well.

B. Data Usage:

The analytical data from the sampling event will be used by the Town to verify if organic contaminants (VOCs and 1,4-Dioxane) are deteeted in drinking water wells located immediately north, southeast and east of the Landfill. Data may be used to determine if the study area in the vicinity of the Landfill must be expanded to include additional properties. The data will augment existing analytical data for sampling conducted in February 2013 within the initial study area around the Landfill.

Data may be used by the Town for decision-making purposes, such as supplying bottled water to residents or completing well remediation. According to the Immediate Response Action Status Report I (IRASI) dated March 29, 2013 from Bennett Environmental Associates, Inc. to MassDEP, bottled water was provided to residents with a 1,4-Dioxane concentration of 1.5 µg/L or greater in their well water. Analytical VOC data may be compared to the applicable EPA Maximum Contaminant Levels (MCLs) established for public drinking water supplies. 1,4-Dioxane is listed on EPA's Contaminant Candidate List 3 (CCL 3), which contains drinking water contaminants currently not subject to any proposed or promulgated national primary drinking water regulations, that are known or anticipated to occur in public water systems, and which may require regulation under the Safe Drinking Water Act (SDWA).

It should be noted that the analytical data will be compared to MassDEP Bureau of Waste Site Cleanup (BWSC) GW-1 Groundwater Standards for 1,4-dioxane of 3.0 µg/L and GW-1 Groundwater Standards of any other detected VOCs. Groundwater in potential drinking water source areas (such as Eastham) is categorized as a GW-1 area, according to 310 CMR 40.0000, the Massachusetts Contingency Plan (MCP), and therefore must meet the GW-1 standards set forth in the MCP.

The current 1,4-dioxane standard is 3.0 µg/L and is expected to be lowered to 0.3 µg/L in the Fall of 2013 with the regulatory reform initiative and expected regulatory changes. The new standard of 0.3 µg/L will match the current Office of Research and Standards (ORS) Guidance value for 1,4-dioxane of 0.3 µg/L. In order for the Town to achieve a Permanent Solution for the cleanup of 1,4-dioxane, which is not expected to occur before the new standard of 0.3 µg/L is promulgated, concentrations of 1,4-dioxane in groundwater will have to be lower than the standard of 0.3 µg/L in order to comply with the MCP.

Analytical and field data (i.e. site observations, well purging information, water quality parameters, etc.) from this sampling event will be provided to the Town. Any distribution of well analytical and field data to property owners will be arranged by the Town.

C. Sampling Event Design:

Background:
In the IRASI, four (4) residential wells were identified during the February 2013 sampling event where the well water contained concentrations of 1,4-Dioxane above 3.0 µg /L, the current GW-1 Groundwater standard. The report also identified seven (7) residential wells with concentrations of 1,4-Dioxane above 0.3µg /L (including the aforementioned four residential wells), the ORS Guidance value for 1,4-dioxane in drinking water. The IRASI also recommended that the study area for well testing be expanded to include properties located north, southeast and east of the Landfill. 1,4-Dioxane is a probable carcinogen and has been found in groundwater at sites in the U.S. (see EPA Technical Fact Sheet – 1,4-Dioxane, dated January 2013, attached). 1,4-dioxane may leach readily from soil to groundwater, is highly mobile, migrates rapidly in groundwater, and is relatively resistant to subsurface biodegradation.

1,4-Dioxane is used as a stabilizer for chlorinated solvents, such as 1,1,1-trichloroethane (TCA) but can be found independent of the presence of 1,1,1-TCA. In November 2012, the Town notified the MassDEP of the presence of 1,4-dioxane in groundwater from monitoring wells located within the Landfill. This detection prompted the sampling and analyses of private drinking water wells in the vicinity of the Landfill. 1,4-Dioxane was subsequently detected above GW-1 Groundwater standards in private drinking water wells. This release to the environment is associated with the Landfill, which is closed, unlined, and capped.

Residential Property Selection:
The Town will select the wells for this sampling event, and will send letters of notification to property owners and request access to sample their wells. The target properties are located north, southeast and east of the Landfill. These target properties are located outside of the initial February 2013 study area boundaries and referred to by the Town as the Phase II Study Area. The boundary of the initial study area was expanded due to the presence of 1,4-dioxane above GW-1 Standards at properties on the furthest downgradient edge of the initial study area. According to the March 21, 2013 scope of services request from MassDEP to EPA, the Town was planning on mailing certified letters to the target properties during the week of March 18, 2013. A total of 151 certified letters were mailed. Residents may also be notified by phone prior to the sampling event to schedule sampling dates/times, and via door-to-door request if necessary, to confirm property access. EIA field personnel will not collect samples from residences which have not granted property access and/or permission to sample their well water.

Sampling Design:
The objective is to collect representative groundwater samples from the wells, since these properties are not connected to a public water supply system. It is critical that samples be collected prior to any water treatment such as water filtration or softening systems, which may be installed on the properties' well water supply line(s). If a property has a water treatment system, EIA personnel will review the water supply lines and attempt to temporarily shut off or bypass the treatment system(s) to conduct the sampling. Samples may be collected at an outside spigot (i.e. if a property owner cannot be present or prefers this sampling location) provided that water from the outdoor spigot does not have water treatment systems as described above.

EIA personnel will collect well water samples according to the Standard Operating Procedure (SOP) for Residential Well Sampling dated March 7, 2013 (EIASOP-RESWELLSAMP3, attached).

The Sampling Leaders will inspect each well including the water supply lines, to determine if a water treatment system is in place, and to determine the appropriate location to collect a representative well/groundwater sample. EPA will be provided with well construction information collected by the Town for each well targeted for sampling. The Sampling Leaders will also document site observations and will oversee other EPA sampling personnel at each property/sampling location. A senior investigator from the EIA team will serve as the overall Sampling Quality Assurance (QA) leader during this event, and supported by MassDEP staff, as needed.

For each well/sampling location, water parameters (pH, temperature and conductivity) will be monitored and readings recorded in a field logbook by EIA personnel during the well water purging process. The water parameters must be stable, indicating groundwater equilibrium, prior to collecting any samples.

Samples collected during this event will be delivered to the Town's contractor (Bennett Environmental Associates, Inc) or Test America laboratory in South Burlington, VT for the analysis of VOCs and low-level 1,4-Dioxane. Samples and chain of custody will be relinquished to the Town's contractor or laboratories in accordance with the SOP for Sample and Evidence Management dated November 17, 2010.

Field quality control (QC) samples will consist of the following:

- (1) VOC field duplicate per 20 samples collected
- (1) 1,4-Dioxane field duplicate per 20 samples collected
- (1) VOC trip blank
  - Trip blank consists of analyte-free water collected from the EPA New England Regional Lab (NERL) prior to the start of this sampling event.
  - Trip blanks are maintained with residential well samples during this event.

D. Monitoring Parameters:

Parameter	# of Samples	Matrix	Analytical Method*	Sample Container	Sample Preservation	Holding Time
VOCs	Up to 60 + 3 field duplicates	Drinking Water	TBD*	40 mL VOA vial (glass)	HCl to pH < 2 Cool 4°C	14 days
1,4-Dioxane	Up to 60 + 3 field duplicates	Drinking Water	TBD*	250 mL (glass)	HCl to pH < 2 Cool 4°C	14 days

* Analytical Method will be determined by Test America.

E. Data Quality Requirements:

Parameter	Sample Matrix	Reporting Limits (RLs)	Accuracy [2] (%)	Precision [3] (%)	Field Precision (%)
VOCs	Drinking Water	See Footnote[1]	See footnote[2]	See footnote[3]	30
1,4-Dioxane	Drinking Water	0.3 µg/L	See footnote[2]	See footnote[3]	30

Footnotes:

1. The reporting/detection limits for VOCs must be less than, or equal to, the applicable drinking water MCLs.
2. Accuracy is based on a lab matrix spike (MS) recovery, and will be determined by Test America.
3. Precision is based on a matrix spike duplicate (MSD), laboratory duplicate, or lab fortified blanks (LFBs), and will be determined by Test America.

7. EPA Project Organization and Responsibility:

The following is a list of key project personnel and their responsibilities:

Responsibility	Contact
EIA Team Leader	Jerry Keefe (EPA)
Sampling QC/Leader	Dan Granz (EPA)
Sampling Personnel/Co-Lead	Lisa Thuot (EPA)
Sampling Personnel	Erin Trainor (EPA)
Laboratory Analyses	Test America (So. Burlington, VT)
Data Evaluation/Lab QC	Test America (So. Burlington, VT)
Overall Performance Coordination	Jerry Keefe (EIA)
EIA Manager	Ernest Waterman (EIA)

In addition, EPA/EIA staff will be assisted by additional members of the core project team, as needed, including:

State Field Oversight Lead	Angela Gallagher (MassDEP)
Town Point of Contact	Jane Crowley (Town of Eastham)
Town Consultant	Bennett Environmental Associates, Inc.

8. Schedule of Tasks and Products:

Date	Activity
March 21, 2013	MassDEP requests OEME lab support
April 29-May 3, 2013	Conduct well sampling*
April 29 – May 3, 2013	Deliver samples to Town
May 2013	Perform Laboratory analyses
May/June 2013	Results delivered to the Town, Property Owner(s) where samples are collected, EPA Sampling Leader, and MassDEP

*Note: This sampling project may extend into the week of May 6, 2013.

9. Data Quality Objectives:

Laboratory QC analysis and evaluation will be conducted under the Town's contract with Test America, So. Burlington, VT. Analytical results will be provided to the Town.

10. Special Training Requirements/Certification/Health & Safety

Sampling Personnel

All sampling personnel will have completed the 40-hour OSHA HAZWOPER training and maintained the annual 8 hour refresher training. The Sampling Leaders must have prior experience in the collection of field samples, proper preservation, shipping and chain of custody techniques. Additionally, all sampling personnel should have a minimum of a bachelor's degree, and at least 1 year of field experience.

Analytical Personnel
Analytical personnel will be determined by Test America, the laboratory which is analyzing the samples for this project.

Health and Safety
All EPA field staff will wear the appropriate Personal Protective Equipment (PPE) during the sampling event. The contaminants of concern in the area to be sampled are VOCs and 1,4 Dioxane. Based on previous sampling efforts and existing information on levels of contamination, the respiratory protection will be "Level D" and may be adjusted based on site-specific field conditions and the professional judgment of sample leaders. All EPA staff that performs sampling must be currently enrolled in EPA's medical monitoring program.

11. Data Representativeness/Comparability:

The same field procedures and analytical methods will be used for each of the sample locations throughout the sampling event so that data can be compared. Samples must be representative of the current groundwater within the study area. Data will be used to assess if contaminants are present within the groundwater well interval.

12. Sampling Procedures:

EIA personnel will collect well water samples according to the Standard Operating Procedure (SOP) for Residential Well Sampling dated March 7, 2013 (EIASOP-RESWELLSAMP3, attached). If any procedure described in this SAP or SOPs are inappropriate, inadequate or impractical and that another procedure must be used to obtain a sample, the procedure will be documented in the field log book with a description of the circumstances requiring its use.

13. Sample Custody Procedures:

Samples will be handled in accordance with EPA investigations & Analyses SOP for Sample and Evidence Management dated 11/17/10 (OEMESOP-EVIDENCEMAN).

14. Calibration Procedures and Preventative Maintenance:

Equipment for field measurements (conductivity, pH, temperature) will be calibrated on the day of sampling according to the manufacturer's recommendations. All calibrations will be documented in the field logbook and the equipment logbook. Sampling equipment will be checked for proper operations and cleanliness prior to use in the field. Decontamination will follow the EIASOP-General_Decon# SOP.

15. Documentation and Data Reporting:

The Sampling Leaders will be responsible for maintaining accurate field logbooks that describes the following information:

- Date, time, location, sample type, and name of sampler for each sample collected.
- Information on the Chain of Custody, sample container labels, sample tag numbers, etc.
- Other information which may be beneficial to the analyst such as matrix appearance, changes upon preservation, etc.
- Field equipment (temperature and pH meter, conductivity meter) utilized for this project will be documented by noting the EPA ID# and/or equipment serial # in a field logbook.
- Field observations and sampling data will be summarized in a report.

16. Data Validation:

The analytical data will be reviewed and validated by Test America, So. Burlington, VT.

17. Corrective Action:

Any corrective action that needs further review will be documented in the site file.

18. Sampling Data Collected by EPA will be provided to:

Data will be delivered to The Town Board of Health, located at 2500 State Highway, Eastham, MA 02642. (Contact: Jane Crowley, Health Agent). A copy of the data will also be sent to Angela Gallagher, MassDEP, 20 Riverside Drive, Lakeville, MA 02347.

19. References:

1) SOP for Residential Well Sampling, 3/7/13.

2) Immediate Response Action Status and Quarterly Landfill Monitoring with Supporting Documentation (MA DEP RTN 4-24301), 3/29/13

3) EPA Technical Fact Sheet – 1,4-Dioxane, January 2013.

STANDARD OPERATING PROCEDURE FOR RESIDENTIAL WELL SAMPLING

The Office of Environmental Measurement and Evaluation
EPA New England - Region 1
11 Technology Dr
North Chelmsford, MA 01863

Prepared by:	Daniel S. Granz, EIA Env. Eng. Investigations & Analysis Unit	3/7/13 Date
Reviewed by:	Jerry Keefe, EIA Team Leader Investigations & Analysis Unit	03/07/2013 Date
Approved by:	Ernest Waterman, EIA Branch Chief Investigations & Analysis Unit	03/14/2013 Date

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Revision Page

Date	Rev#	Summary of Changes	Sections
	1	initial approval	
01/28/08	2	disclaimer, parameter identification	pg 1,Sec 2.6
1/28/08	2	Various format changes	Entire document
1/28/08	2	Cover Page –Branch Chief Signature	Page 1
3/7/13	3	Cover page- Branch Chief Signature	Page 1
3/7/13	3	Added information in Interferences Sections 5.1, 5.2, 5.2	Page 6, Sec 5
3/7/13	3	Reference for lab containers and preservatives Section 9.8	Page 9, Sec 9
3/7/13	3	Added information in Data and Records Management & Quality Control and Quality Assurance' Sections 10.1, 11.1	Page 9, Sec's 10 ,11
3/7/13	3	Corrected various typo's throughout the document	Entire document

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1.0 Scope & Application:

1.1 This Standard Operating Procedure is applicable to the collection of representative ground water samples from wells having pumps in place. It includes samples collected from residential homes on private wells.

2.0 Summary of Method:

2.1 This method is for the collection of aqueous samples. The analytical parameters may be volatile organics, semi-volatile organics, cyanide, metals, pesticides, PCB's, other non metal inorganics, The project sampling plan or QAPP should be referenced for specific analytical parameters.

2.2 When possible, obtain background information about the well from the owner or driller. The information should include:
- installation date
- location of well
- depth
- size
- well casing materials
- sand, gravel, bedrock substrate
- yield rate
- any known issues such as pump problems, low yield, gone dry, contamination, etc.

At times it is not possible to gain access into a home during the sampling period. Samples may then be taken from a sill cock if permission to sample has been obtained and confirmation is made that the water is not being treated prior to the sampling point.

2.3 Examine the water system (pump, holding/expansion tank, plumbing) and find a faucet for sampling as close to the well as possible. The sampling location should always be prior to any water treatment system and the faucet should not have an aerator or hose attached to it during sampling. Record the sampling location.

2.4 Run the faucet for at least 10 minutes and monitor temperature, pH and conductivity.

2.5 After stable readings (10 %) of temperature, pH, and conductivity collect samples directly into the sample container.

2.6 Preserve samples according to analytical method requirements.

3.0 Definitions:

3.1 Bottle Blank: Analyte-free water is collected into a sample container, of the same lot as the containers used for the environmental samples. This evaluates contamination introduced from the sample container(s) from a common lot.

3.2 Equipment/Rinse/Rinsate Blanks: A sample that is collected by pouring over or running analyte-free water through the sample collection equipment after decontamination and before sample collection. The sample is collected in the appropriate sample container with the proper preservative, identical to the samples. This represents background contamination resulting from the field equipment, sampling procedure, sample container, preservative, and shipment.

3.3 Field Blank: In the field, analyte-free water is collected into a sample container with preservatives. The sample containers are the same lot used for the environmental samples. This evaluates contamination introduced from the sample container(s) with applicable preservatives. Field blanks are not used for volatile samples.

3.4 Field Replicates/Duplicates: Two or more samples collected at the same sampling location. Field replicates should be samples collected side by side or by collecting one sample and immediately collecting the second sample. Field replicates represent the precision of the whole method, site heterogeneity, field sampling and the laboratory analysis.

3.5 Field Split Samples: Two or more representative subsamples taken from one environmental sample in the field. Prior to splitting, the environmental sample is homogenized to correct for sample heterogeneity that would adversely impact data comparability. Field split samples are usually analyzed by different laboratories (interlaboratory comparison) or by the same laboratory (intralaboratory comparison). Field splits are used to assess sample handling procedures from field to laboratory and laboratory's comparability.

3.6 Filter Blank: In the field, analyze-free water is passed through a filter and collected into in the appropriate sample container. The filter blank is then preserved. This procedure is identical to the sample collection.

3.7 Laboratory Quality Samples: Additional samples will be collected for the laboratory's quality control: matrix spike, matrix spike duplicate, laboratory duplicates, etc.

3.8 Proficiency Testing (PT)/Performance Evaluation Sample (PES): A sample, the composition of which is unknown to the laboratory or analyst, provided to the analyst or laboratory to assess the capability to produce results within acceptable criteria. This is optional depending on the data quality objectives.

3.9 Shipping Container Temperature Blank: A water sample that is transported to the laboratory to measure the temperature of the samples in the cooler.

3.10 Trip Blanks: A sample collected at the laboratory using analyte free water in the appropriate sample container with the proper preservative, taken out to the field, and returned to the laboratory for analysis without being opened. Trip blanks are generally for volatile organic compounds, low level metals, and gasoline range hydrocarbon samples. They are used to assess contamination introduced during sample transport.

4.0 Health and Safety Warnings:

4.1 When working with potentially hazardous materials or situations, follow EPA, OSHA, and specific health or safety procedures.

4.2 All proper personal protection clothing and equipment is to be worn.

4.3 Some samples (although very unlikely) may contain biological or chemical hazards. These samples should be handled with suitable protection to skin, eyes, etc.

5.0 Interferences:

5.1 Interference may result from sampling personnel using contaminated equipment, solvents, reagents, sample container (s), sampling hands, or sampling in a disturbed area.

5.2 Cross contamination problems can be eliminated or minimized through the use of dedicated sampling equipment and appropriate PPE. If this is not possible or practical, then decontamination of the sampling equipment is necessary.

5.3 All sampling equipment must be routinely demonstrated to be free from contaminants under the conditions of the analysis by running equipment blanks on non disposable/non dedicated equipment.

6.0 Personnel Qualifications:

6.1 All field samplers working at Superfund sites are required to take a 40 hour health and safety training course and a refresher course prior to engaging in any field activities.

6.2 The field sampler should be trained by an experienced sampler before initiating the procedure.

6.3 All personnel shall be responsible for complying with all quality assurance/quality control requirements that pertain to their organizational/technical function.

7.0 Equipment and Supplies:

7.1 pH meter, conductivity meter, pH buffers 4,7,10, conductivity standard

7.2 Garden hose, open flow through chamber with tubing connectors and meter probe supports.

7.3 Pre-cleaned bottles, 40 mL VOA vials, 1 L glass narrow neck, 250 ml plastic bottle, sample containers will vary depending upon parameters to be sampled. The above are suitable for VOA, BNA, and metals sampling.

7.4 Preservatives: hydrochloric acid, nitric acid and new transfer pipets. pH indicator paper. Other preservatives may be required, depending upon additional parameter requirements.

7.5 Distilled water, squirt bottle, paper towels

7.6 Zip lock plastic bags

7.7 Coolers with ice

7.8 Logbook, field data sheet, custody seals, and chain of custody form

7.9 Camera, GPS

8.0 Sample Collection:

8.1 Obtain background information on the well from the home owner if not already known.

8.2 Examine the water system and determine a sampling location. Record sampling location. Some times there is a spigot at the base of the holding/expansion tank which allows collection of a sample from the well prior to the holding tank. In general, the sample

should be collected from a tap or spigot located at or near the well head or pump house and before the water supply is introduced to any storage tanks or treatment units.

8.3 Calibrate pH meter and conductivity meter (beginning of the day) and record.

8.4 Connect garden hose to sampling spigot and to flow through chamber if possible. If sampling from a sink, remove aerator and run water directly into the chamber.

8.5 Place pH probe and conductivity probe in the flow through chamber and turn on water. Purge the system 10-15 minutes (when possible). After purging system several minutes, measure pH, specific conductance, and temperature. Adjust flow rate to keep probes immersed in the water at all times.

8.6 Record pH, temp., and conductivity in log book. Continue monitoring until stable (10%) readings.

8.7 After stabile readings, disconnect hose and collect samples directly from sampling spigot. Samples must be collected directly in sample bottles. VOA vials must be collected with no air bubbles in them. Sufficient drops of 1:1 hydrochloric acid must first be placed into the sample vials to lower the sample pH to <2. A preliminary determination should be done. Refer to QAPP/SAP for specific parameters to sample.

8.8 Turn off water. Remove pH & conductivity probes and rinse with distilled water before packing them.

8.9 Label, preserve, and if required as part of the QAPP/SAP put chain-of-custody seals on the sample containers. Place sample containers in plastic bags and in an ice chest with ice.

9.0 Sample Handling, Preservation, and Storage:

9.1 Collect the sample directly into a suitable labeled sample container.

9.2 Preserve the sample or use pre-preserved sample bottles, when appropriate.

9.3 Cap the container, use a custody seal, and then place the container in a zip-lock plastic bag.

9.4 Load all the sample containers into cooler(s) ensuring that the bottles are in the ice but not totally immersed in water.

9.5 Record all pertinent data in a logbook and/or on the field data sheets or cards.

9.6 Complete the chain of custody form.

9.7 Attach the custody seals to the cooler prior to shipment if for investigation or shipment to another laboratory.

9.8 A list for the laboratory's containers and preservatives for the various analytes is located on the EPA Lotus Notes Lab SOP Sample Collection.

10.0 Data and Records Management:

10.1 All data and information is to follow the Field Quality Management Plan.

10.2 The chain of custody form is signed over to the laboratory. A copy is kept with the sampling records.

10.3 The sampling data is stored at US EPA - NE, 11 Technology Dr, North Chelmsford, MA for at least 3 years.

11.0 Quality Control and Quality Assurance:

11.1 Representative samples are required. The sampler will evaluate the site specific conditions to assure the sample will be representative. The Sample Team Leader will make the final decision along with applicable Project Officer/Manager.

11.2 All sampling equipment must be decontaminated prior to use and after each discrete sample following the General Field Equipment - Cleaning, Preparation, and Decontamination SOP. Under normal conditions, samples will be collected directly into sample containers and thus decontamination of sampling equipment (coming in contact with the sample) will not be required since no equipment is used.

11.3 All field QC samples requirements in the SAP or QAPP must be followed. These may involve trip blanks, equipment blanks, field duplicates and the collection of extra samples for the laboratory's quality control.

12.0 Waste Management and Pollution Prevention:

12.1 During field sampling and analysis events there may be hazardous waste produced from the sample collection. The waste must be handled and disposed of in accordance with

federal, state, and municipal regulations. Dispose of the hazardous waste produced at the site where the work was performed, if the operating site has proper disposal available. If there is no disposal that meets regulatory requirements, the waste must be transported back to EPA-NE and transferred to the hazardous waste manager for disposal. The sample volume should be minimized to reduce unnecessary waste.

SITE HEALTH AND SAFETY PLAN

Waste Site Cleanup

Immediate Response Action
Water Quality Investigation
Various Locations
Eastham, MA 02642

MA DEP RTN 4-24301

Prepared by:

BENNETT ENVIRONMENTAL ASSOCIATES, INC..
1573 Main Street
P.O. Box 1743
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1.0 EMERGENCY RESPONSE SUMMARY

Project No:	BEA09-10104
MA DEP RTN:	4-24301
Status:	Immediate Response Action
Date of Plan Preparation:	November 14, 2012

This Health & Safety Plan (HASP) was prepared in conformance with the BENNETT ENVIRONMENTAL ASSOCIATES, INC.'s (BEA) Health & Safety Program, and is intended to meet the requirements found in 29 CFR 1910.120. As such, the HASP addresses all activities associated with field operations associated with the detection of 1,4-Dioxane in monitoring well MW-3D at the landfill property in Eastham, MA. Compliance with this HASP is required of all BEA employees and subcontractors to BEA. Other contractors are responsible for development and enforcement of their own HASP.

Site Information:

Listed Responsible Party:	Town of Eastham Board of Selectmen
Property Owner:	Town of Eastham
Site Address:	255 Old Orchard Road, Eastham, MA (Landfill) In addition to various residential properties

Site Activities: Groundwater monitoring, Potable water monitoring, monitoring well installation.

Professional Consultant:	BENNETT ENVIRONMENTAL ASSOCIATES, INC. Licensed Site Professional

BEA Activities: Groundwater sampling, private well sampling.

Subcontractors to BEA:	Jenkins Well Drilling

Contractors Activities: Test borings and monitoring well installation.

Project Team:

Health & Safety Supervisor: David C. Bennett (BEA)	508-896-1706
Health & Safety Manager: Todd Everson (BEA)	508-896-1706
Site Safety Officer (SSO): John Tadema-Wielandt (BEA)	508-896-1706
Project Manager: John Tadema-Wielandt (BEA)	508-896-1706

Utility Clearances:

Dig-Safe: # TBD	888-344-7233
Electric Company: N-Star Electric	800-642-7070
Telephone Service: Verizon	800-980-9999

Emergency Information:

Telephone Location: Mobile Phone On-Site (BEA personnel) 508-737-6126

Cape Cod Hospital: 27 Park Street – Hyannis, MA 508-771-1800
Directions to Hospital (Refer to attached maps):

Head south on Old Orchard Rd toward Meeting house Rd. Turn left onto Route 6 Westbound. At the traffic circle, continue straight to stay on Route 6 West. Follow Route 6 to Willow Street (Exit 7). Turn left onto Willow Street. Continue onto Yarmouth Road. Go through the lights and take a slight left onto Camp Street. Continue onto Lewis Bay Road. Turn left onto Gleason Street. Look for Emergency Room Signs.

Important Telephone Numbers:

Eastham Fire Department/ Ambulance:	911
Eastham Fire:	508-255-2324 or
911 Eastham Police:	508-255-0551 or
911	
MA DEP (SERO)	508-946-2700
Poison Control Center:	800-562-8236
National Response Center	800-424-8802
Chemical Referral Center	800-262-8200

Typical Procedures for Injury:

1. For minor injuries, administer first aid at the Site. Contact the Safety Officer for interview. Take appropriate action for medical attention or refer to physician for follow up.
2. Call ambulance for major injuries or evidence of toxic symptoms. If no phone is available, transport person to the nearest medical facility, rescue center, fire department or hospital.
3. If chemicals are involved, send MSDS with person to hospital.
4. Notify project manager or SSO of all accidents.
5. File accident report with Safety Officer.

2.0 SITE HAZARDS/PERSONAL PROTECTION SUMMARY

Expected Site Hazardous Substances: VOCs, Metals

Physical Hazards: Drill rig operation, overhead utilities, weather, traffic

Chemical Hazards: [Ex: Inhalation of organic vapors, dermal contact and skin absorption]
(see following)

Chemical Substance	OSHA PEL*-TWA*	NIOSH IDLH Limits	OSHA PEL-STEL	OSHA CEILING	Routes of Exposure	Accute Health Effects/Signs and Symptoms
Gasoline	300 ppm	NA	500 ppm	NA	Ingestion Skin absorption Eye contact	Eye, skin, and respiratory tract irritation; peculiar skin sensation of numbness or pins-and-needles feeling; fatigue, headache, weakness, dizziness, drowsiness, and confusion; difficulty seeing in bright light.
Benzene	1 ppm	NA	5 ppm	NA	Inhalation Ingestion Skin absorption	Respiratory, skin, eye, and mucous membrane irritation; nerve inflammation, CNS depression, and cardiac sensitization; dizziness, euphoria, headache, nausea, drowsiness, lung tissue fluid build-up, pneumonia, convulsions, and paralysis.
Toluene	100 ppm	2,000 ppm	150 ppm	500	Inhalation Ingestion Skin absorption	Eye, skin, and respiratory tract irritation; peculiar skin sensation of numbness or pins-and-needles feeling; fatigue, headache, weakness, dizziness, drowsiness, and confusion; difficulty seeing in bright light.
Ethylbenzene	100 ppm	2,000 ppm	125 ppm	NA	Inhalation Skin absorption Ingestion	Eye, skin, and respiratory tract iritation; peculiar skin sensation of numbness or pins-and-needles feeling; fatigue, headache, weakness, dizziness, drowsiness, and confusion; difficulty seeing in bright light.
Xylenes	100 ppm	1,000 ppm	150 ppm	300	Inhalation Skin absorption Ingestion	Eye, nose, or throat irritation; severe breathing difficulty (can be a delayed effect); dizziness, staggering, drowsiness, and unconsciousness; loss of appetite, nausea, vomiting, and abdominal pain.
Tetraethyl-lead	0.10 mg/m^3 (TLV)	40 mg/m^3	NA	NA	Inhalation Ingestion Skin absorption	Intoxication; difficulty in sleeping, tiredness, anxiety, trembling, spasms, nausea, loss of appetite, disorientation, hallucinations, grimacing, manic or violent convulsive seizures; unconsciousness, death; fetal damage or injury.
Methyl tert-butyl ether	NA NA	NA	NA	NA	Skin absorption Eye contact	Skin and eye irritant, nervous system depressant.
Diesel Fuel	5 mg/m^3	NA	NA	NA	Ingestion Skin absorption Eye contact	Irritation of mucous membranes and skin; diarrhea; headache.
Heating Oil	5 mg/m^3	NA	NA	NA	Inhalation Skin absorption Eye contact	Eye, skin, respiratory irritation; headache, dizziness, nausea, vomiting, loss of coordination, rash, chemical pneumonitis.

PEL- Permissible Exposure Limit

STEL- Short Term Exposure Limit

TLV- Threshold Limit Values

IDLH- Immediately Dangerous to Life or Health

CHEMICAL PROPERTIES							
Substance	Flammability	Phase at Room Temp.	Flash Point LEL/UEL	Boiling Point Freezing Point	Vapor Pressure	Solubility in Water	Reactivity
Gasoline	Flammable	Liquid	-36F 1.46/7.6%	140F	NA	Insoluble	Oxidizing agents
Benzene	Flammable	Gas	12F 1.3%/7.9%	176F/42F	75mm	0.18	Strong oxidizers Chlorine
Toluene	Flammable	Gas	40F 1.3%/7.1%	231F/-139F	22mm	0.05	Strong oxidizers
Ethylbenzene	Flammable	Gas	59F 1.0%/6.7%	277F/-139F	7.1mm	0.015	Strong oxidizers
Total Xylenes	Flammable	Gas	81-90F 1.1%/7,0%	282F/-12F	7-9mm	0.00003	Strong oxidizers
Tetraethyl-Lead	Combustible	Liquid	200F 1.85%/NA	228F/-109F	0.2mm	Insoluble	Strong oxidizers Sulfuryl chloride
MTBE	Flammable	Gas	NA	55F/-109F	245mm	4.8	Oxidizers Acid solutions
Diesel Fuel	Flammable	Liquid	100F 1.3%/6%	NA	NA	Insoluble	NA
Heating Oil	Flammable	Liquid	100F 1.0%/NA	330F/-605C	NA	NA	NA

POTENTIAL HAZARD	CONTROL
Exposure to Petroleum Products	1. Stand up-wind of petroleum products whenever possible. 2. Minimize contact and contact time with petroleum products. 3. Avoid waling through discolored areas, puddles, leaning on barrels, or coming into contact with anything that is likely to be contaminated. 4. Do not eat, drink, smoke and/or apply cosmetics in the hot or warm zones. 5. Wear gloves when in contact with contaminated surfaces. 6. Safety glasses must be worn at a minimum. 7. Splash goggles must be worn when working with liquids. 8. 5ppm organic vapors in breathing zone required upgrade to Level C. 9. 50ppm organic vapor in breathing zones requires evacuation and reassess situation. 10. If unknown materials are encountered, call Safety Officer.
Vehicular Traffic	1. Wear traffic safety vest when vehicle hazard exists. 2. Use cones, flags, barricades and caution tape to define work area. 3. Use vehicle to block work area. 4. Engage police detail for high traffic situations, as needed.

Excavation/Trench Entry	1. Follow confined space entry procedures. 2. Obtain confined space entry permit, if necessary. 3. Use ventilation/engineering controls for air circulation. 4. Conduct remote air monitoring prior to entry. 5. Have standby attendant if necessary. 6. Enter if safe; conduct continuous air monitoring.
High Crime Areas	1. Be aware of surroundings. 2. Use buddy system. 3. Request police detail when appropriate.
Insects	1. Tuck pants into socks. 2. Wear long sleeves. 3. Use insect repellant.
Poison Plants (oak, sumac, ivy, etc.)	1. Do not enter areas infested with the poisonous plants. 2. Immediately wash any areas that come in contact with poisonous plants.
Ladders	1. Check for overhead hazards 2. Make sure ladder rungs are sturdy and free of cracks. 3. Use ladders with secure safety feet on firm ground. 4. Pitch ladders at a 4:1 ratio. 5. Secure ladder at the top when possible. 6. Use non-conductive ladders near electrical wires.
Fire Control	1. Smoke only in designated areas. 2. Keep flammable liquids in closed and proper containers. 3. Keep Site clean; avoid accumulating combustible debris such as paper. 4. Follow Hot Work Safety Procedures when welding or performing other activities requiring an open flame. 5. Isolate flammable and combustible materials from ignition sources.
Inclement Weather	1. Stop out side work during electrical storms and other extreme weather conditions (official weather warning). . 2. Take cover indoors or in a vehicle. 3. Listen to local forecasts for warnings regarding specific weather hazards such as tornadoes, hurricanes, and flash floods.
Noise	1. Wear hearing protection when equipment such as drill rig, jackhammer, cut saw, air compressor, blower, or other heavy equipment is operating on the Site. 2. Wear hearing protection whenever you need to raise your voice above normal conversational speech due to a loud noise source; this much noise indicated the need for protection.

Electric Shock	1. Maintain appropriate distance from overhead utilities; 20' minimum clearance from power lines required; 10' minimum clearance from shielded power lines. 2. Use ground-fault circuit interrupters as required. 3. Perform lockout/tagout procedures, as needed. 4. Use three-pronged plugs and extension cords. 5. Contact your local underground utility-locating service.
Personal Injury	1. Wear hard hats and safety glasses when appropriate. 2. Maintain visual contact with the equipment operator and wear high visibility safety vest when heavy equipment is used on Site. 3. Avoid loose-fitting clothing. 4. Prevent slips, trips, and falls by keeping work area uncluttered and be aware of any open areas. 5. All open trenches/excavations must be secured at end of work shift according to MA regulations.
Back Injury	1. Use mechanical lifting device or a lifting aid where appropriate. 2. If you must lift, plan the lift before doing it. 3. Bend at the knees and use leg muscles when lifting. 4. Use your buddy system when lifting heavy or awkward objects. 5. Do not twist your body while lifting.
Heat Stress	1. Increase water intake while working. 2. Increase number of rest breaks and/or rotate workers in shorter work shifts. 3. Watch for signs and symptoms of heat exhaustion and fatigue. 4. Plan work for early morning or evening during hot months, if possible. 5. Rest in cool, dry areas. 6. In the event of heat stroke, bring the victim to a cool environment and initiate first aid procedures.
Cold Stress	1. Take breaks in heated shelters when working in extremely cold temperatures. 2. Remove the outer layer of clothing and loosen other layers to promote evaporation of perspiration upon entering the shelter. 3. Drink warm liquids to reduce the susceptibility to cold stress.

Personal Protection/Action Levels:

The minimum level of protection for personnel at this Site is Level D due to the concentrations of petroleum in soils above the Upper Concentration Limits. This level is utilized where the type of work involved includes exposure due to splashes, immersions or the potential for unexpected inhalation or contact with hazardous levels of chemicals.

The need to upgrade to the use of a respirator will be based on ambient air measurements in the breathing zone with a portable photoionization detector (PID) with a 10.2 EV lamp. The action

level for upgrading to the use of a respirator when dealing with gasoline and diesel fuel and their constituents is a measurement of 5 parts per million (ppm) in the breathing zone for a sustained period of 15 minutes. Upgrading to a respirator, however, can be done at any time for any reason of personal concern for safety. Measurement of a sustained concentration greater than 50 ppm would require evacuation of the Site and reassessment by Safety Officer.

If separate-phase gasoline and/or diesel fuel is encountered during excavation activities, continuous monitoring for combustible gas concentration and oxygen concentration must also be performed. Measurements greater than 20% of the Lower Explosive Limit (LEL) for combustible gases, or greater than 23% oxygen require evacuation of the Site. Measurements of oxygen concentration less the 19.5% would also require immediate evacuation from the area where the concentration was measured.

Action Level Summary

Monitoring Device	Level D
PID/FID	< 5 ppm
LEL	< 10% LEL
O_2	19.5 % - 23 %

Monitoring Device	Level C
PID/FID	5-50 ppm
LEL	< 10 % LEL
O_2	19.5 % - 23 %

NOTE: Any deviation from these parameters shall require immediate evacuation of the work zone to the decontamination area. Stand by for instructions from the Site Safety Officer, Safety Manager or Supervisor. This HASP is not intended for work at Level B or Level A.

3.0 PROJECT PERSONNEL

A management structure for this project has been designed which contains several levels of responsibility for implementation of health and safety procedures. Although each level of management share some responsibility for maintaining a safe working environment, the primary responsibility for safe operations ultimately rests with the field personnel working at the Site. It is incumbent upon field personnel to recognize unsafe conditions and to report such conditions to their immediate supervisor. In the event that the individual is not satisfied that the situation has been satisfactorily resolved, questions should be directed to the next higher level of authority in the Health & Safety Management structure until the individual is satisfied that a safe working environment has been achieved. Individuals responsible for health and safety compliance at this Site are listed the Section 1.0 Emergency Response Summary, and job descriptions for the health and safety management structure are presented below. After exploring all the above paths, any individual that still does not feel that a safe working environment has been achieved would be justified in stopping work and leaving the Site.

3.1 Site Safety Officer

The Site Safety Officer (SSO) has responsibility for the implementation of this Health and Safety plan. The SSO's responsibilities shall include, but not necessarily be limited to, the following:

- perform air monitoring in accordance with procedures listed in Section 5.2 (if warranted);
- upgrade or downgrade Personal Protective Equipment (PPE) level of protection in response to changes in exposure levels, weather, or other Site conditions;
- know emergency procedures, evacuation routes and other pertinent emergency response information as detailed in the Section 1.0 Emergency Response Summary;
- monitor for any signs of fatigue or chemical exposures;
- report any accidents or violations of the Health & Safety Plan;
- stop work at the Site if any condition is detected that presents an imminent danger to the health and safety of workers or the general public.

3.2 Project Manager

The project manager is responsible for the inspection and documentation of work and assessment activities needed for completion of the project activities. The project manager's responsibilities include the following:

- provide authority and resources to SSO to allow for implementation of necessary safety procedures;
- coordinate activities with the Construction Superintendent and to ensure he is aware of any pertinent health & safety requirements;
- review project scheduling and planning activities; and,
- ensure that field personnel are briefed on provisions of the Site-specific Health and Safety Plan and are advised of the location of these documents.

3.3 Construction Superintendent

The Construction Superintendent is the manager named by the contractor that has overall responsibility for the implementation, scheduling and coordination of all their personnel and resources needed for the completion of the remedial plan. The Superintendent's responsibilities include the following:

- supervise construction activities and their subcontractors to ensure they are aware of any pertinent health and safety information; and,
- ensure that all their employees, subcontractors and assignees are in compliance with the provisions of the Site specific Health and Safety Plan.

4.0 HAZARD ASSESSMENT

At Sites which contain or are suspected to contain hazardous substances, certain procedures will be implemented to identify, evaluate and control the substances, as follows:

1. Recognition- identification of substances, hazardous characteristics of these substances, and tasks which may result in exposure to these substances.

2. Evaluation - the risk of impact of the substance to personnel, the public and the environment.

3. Control - methods to prevent or minimize the impact of the substance.

Recognition and evaluation of hazardous substances can and should be initiated prior to Site access. However, recognition and evaluation are also ongoing processes that will continue as work at a Site continues. Substances unexpectedly encountered during the course of work require an evaluation of the materials' potential risk or impact. These processes are directly related to the safety of Site personnel conducting field investigations. In addition, knowledge acquired by Site personnel could be valuable to the health and safety of subsequent visitors to the Site.

4.1 Recognition

Preliminary information about the hazardous substances which may be present at a Site and the parameters which cause them to be hazardous can be obtained from an understanding of the Site history. Site use, substances used at the Site, disposal of substance(s) (on Site or off Site) and existing status of operations provide background information on the type of materials which can be expected to be encountered. This initial step is essential to best establish how Site personnel can safely obtain additional information to further recognize the hazardous substances at a Site.

Tasks which may result in exposure to hazardous substances at this Site could include drilling operations, well installation, well development, well gauging, ground water, soil, or vapor sampling and construction activities including shoring, cribbing, underground tank removals or trenching operations.

In general, the following conditions are recognized as being potentially hazardous at this Site:

Flammable vapors- The presence of flammable vapors can present both a potential fire or explosion hazard and a toxic hazard. If the concentration of flammable vapors is measured by a combustible gas indicator (CGI) at concentrations greater than 20% of the lower explosive limit (LEL), personnel should evacuate the Site immediately.

Oxygen - Oxygen can present hazards in either concentrations higher or lower than the normal atmospheric concentration of approximately 20.5%. Oxygen concentrations greater than 23% are an extreme fire hazard due to rapid oxidation reactions. Oxygen concentrations less than 19.5% post an asphyxiation hazard for personnel. If either the

enriched or deficient oxygen condition is observed by personnel on an 0_2 meter, the area should be evacuated immediately.

Organic Vapors - Inhalation of toxic organic vapors is a potential health hazard. This hazard may be reduced by monitoring ambient air with a photoionization detector (PID) and using Personal Protective Equipment (PPE).

Physical Hazards - Possible physical hazards would include road traffic for activities conducted within roadways or parking areas, and hazards associated with heavy equipment used on Site. Equipment hazards can be associated with direct exposure to falling loads or moving machinery, or can be due to accidental contact of machinery with electric, gas, or water utility lines. See previous section on physical hazards (Section 2.0).

4.2 Evaluation

The potential risks or impacts of hazardous substances suspected or known to exist at a Site must be evaluated prior to entering the Site. Site history is the initial source of information which must be used to determine the level of personal protection to be worn by Site personnel while collecting further field information for evaluation. Levels of personal protection are summarized in Section 5.1. The minimum level of protection for Site personnel during a Site investigation is Level D. This level should be utilized where the atmosphere contains no known imminent hazards and the type of work involved precludes exposure due to splashes, immersions, or the potential for unexpected inhalation or contact with hazardous levels of chemicals.

An air monitoring program will be established to evaluate exposures to personnel. Ambient air will be monitored for organic vapor concentrations at all Sites where the possibility for airborne exposures exist. Ambient air will be monitored for 0_2 concentrations and combustible gas concentrations when the present of separate-phase fuel oil and/or confined spaces creates a potential for explosive or oxygen-deficient conditions.

4.2.1 0_2/LEL Monitoring

Monitoring will be performed with a 0_2/LEL meter during operations such as trenching, excavation, or tank removals where there is a potential for build-up of explosive gasses for development of oxygen-deficient atmosphere. An extension sampling tube will be run from the detector instrument intake to the bottom of the excavation in order that samples are drawn from the "worst case" location for accumulation of vapors that are heavier than air. The 0_2/LEL meter will be calibrated in accordance with the manufacturer's recommendations on a regular basis.

4.2.2 Organic Vapor Monitoring

Organic vapor concentrations in ambient air will be measured with a portable photoionization detector (PID) which has been previously calibrated with a gas standard equilibrated to read as benzene. Monitoring will be conducted in the breathing zone for Sites that have been approved for Level D PPE, or on a continuous basis for Sites that require Level C protection. The breathing zone is defined as the sphere of approximately one-foot radius surrounding a worker's head under normal working conditions.

Ambient air monitoring will also be performed at the Site perimeter, if Level C protection is required, in order to evaluate any potential exposures to the general public. The Site perimeter is defined as the lesser of, 1) the distance to the property boundary, or 2) a radius of 100 feet from the exclusion zone boundary. The PID meter used will be calibrated in accordance with the manufacturer's recommendations on a regular basis. All air monitoring results will be recorded on the vapor monitoring form attached in Appendix A.

4.2.3 Physical Hazards

All efforts will be made to identify utility line locations prior to initiating any subsurface work at the Site. In addition, heavy equipment must be checked for clearance to any overhead power lines and must maintain a minimum twenty-foot clear distance at all times.

4.3 Control

This Health and Safety Plan has been developed with the purpose of protecting BEA on-Site personnel from exposures to hazardous substances or situations. Observance of all guidelines and procedures contained in the Plan will minimize the risk to personnel involved in Site activities and to the general public.

The plan has been prepared specifically for BENNETT ENVIRONMENTAL ASSOCIATES, INC., based upon the data available from physical testing and research conducted at the Site in conjunction with the remedial actions taken to date. Due to some uncertainties inherent to this type of work, the health and safety plan will continually be re-evaluated and modified in accordance with the industry standard of care at the time of these activities. As such, this plan shall not be construed to express or imply a guarantee or warranty against personnel injury or property damage.

5.0 SAFETY EQUIPMENT

All required equipment will be present and readily accessible at all Sites where hazardous substances or situations may be encountered.

5.1 Personal Protective Equipment (PPE)

Level D PPE may include:

a) Coveralls
b) Gloves, chemical-resistant
c) Boots, shoes, chemical-resistant, hard toe and shank
d) Boots, (outer), chemical-resistant (disposable)
e) Safety glasses or chemical splash goggles
f) Hard hat
g) Face shield

Level C PPE includes:

a) Full-face or half-face purifying respirators (OSHA approved)
b) Coveralls *
c) Chemical resistant clothing (overalls, two-piece chemical-splash suit, disposable chemical-resistant overalls) / Tyvek
d) Gloves (outer), chemical-resistant*

e) Gloves (inner), chemical-resistant

f) Boots, chemical-resistant

g) Boot covers, chemical-resistant (disposable)*

h) Hard hat

i) Escape mask*

j) Two-way radios*

k) Face shield*

l) Buddy system required

* Optional, as applicable.

BENNETT ENVIRONMENTAL ASSOCIATES, INC. does not perform work that would require Level A or Level B PPE.

The Site & Safety Officer and/or Project Manager is responsible for recognizing conditions that would call for an upgrade of PPE from Level D to Level C protection during Site operations. The criteria for establishing protection levels are summarized in Section 2.0 Personal Protection/Action Levels Summary.

5.2 Site Safety Equipment

5.2.1 Air Monitoring Instruments

- Calibrated HNU meter or other suitable portable monitoring photoionization device. This device should be selected to provide maximum sensitivity for the compounds expected to be present. Understand the limitations and applications of the instruments.

- Calibrated 0_2/LEL meter. This device should be used to monitor the potential for explosive conditions and to determine the oxygen content in confined spaces.

5.2.2 Copy of Completed Site Safety Plan

- Emergency center telephone numbers
- Hospital location
- Safety procedures

5.2.3 First-Aid Kit

- Sized to accommodate the number of personnel on Site
- Located in the established clean zone

5.2.4 Fire Extinguisher

- Minimum size 10 lb A-B-C

5.2.5 Decontamination Equipment

- Five-gallon water jug
- Brush
- Basin
- Decontamination solution for washdown
- Located in the established decontamination zone.

6.0 WORK ZONES

Zones will be identified by the Site Safety Office prior to initiating work at the Site. This identification may involve either a physical marking of the zones on the ground surface at the Site, or it may simply be accomplished by establishing zone identifications verbally with on-Site personnel, depending on the complexity and magnitude of the Site operations. Definitions of the work zone classification are presented below.

Zone #1: Clean/Safety Zone (> 20' from excavation)

All support equipment (first-aid kit, eye wash bottle, clean personal protective equipment, etc) will be in the area designed as clean/safety zone. Smoking will only be allowed in this area.

Zone #2: Contamination Reduction Zone (> 10' from excavation)

This is a buffer zone for exit and decontamination procedures before proceeding into the clean/safety zone. Leave gloves, air monitoring equipment and any other equipment in Zone #2.

Zone #3: Hot Zone (within 10' of excavation)

This is the zone where contamination does or could occur. When drilling, this is the area within a twenty-foot radius of the operating drill rig. Appropriate protective equipment should be worn in this zone.

7.0 HEALTH AND SAFETY REQUIREMENTS

General requirements for safe work practices and training of personnel are detailed below.

7.1 Training

All BENNETT ENVIRONMENTAL ASSOCIATES, INC., based personnel working at the Site will have received a minimum of forty hours of hazardous waste Site instruction and three days of field experience with a trained, experienced person on-Site. This training will be in accordance with the requirements of the OSHA Hazardous Waste Operations and Emergency Response (HAZWOPER) regulation 29 CFR 1910.120. BENNETT ENVIRONMENTAL ASSOCIATES, INC., based personnel will also receive eight hours of refresher training per year. All contractors working at the Site will be responsible for maintaining the appropriate level of training for their employees according to OSHA regulation 29 CFR 1910.120.

7.2 Medical Surveillance Program

A regular physical examination is conducted on BENNETT ENVIRONMENTAL ASSOCIATES, INC. personnel, as appropriate, in accordance with the HAZWOPER regulation.

7.3 General Work Practices

This section describes standard practices to be used for general operations that are conducted at job Sites. Specific procedures to be used when entering a confined space are attached as Appendix B. Specific regulations pertaining to excavation and trenching activities are attached as Appendix C.

7.3.1 Identify Pertinent Information with Site Project Manager

- locations of concern - dumps, containment ponds, spill areas, etc;
- access and egress to and from Site with alternate routes; and
- Site work zones

7.3.2 Have and Be Familiar with Field Map

- plan work route and work locations;
- know areas that contain underground gas and electrical lines (this information should be obtained from Dig Safe);
- check with Site personnel for location of underground hazards (i.e. chemicals, tanks, utilities, etc.);
- identify location of nearest phone; and,
- know access and egress locations, including wind direction.

7.3.3 Hazardous Area Recognition, Including:

- lagoons, berms, impoundments;
- obvious odor;
- discolored soil and water areas, drums, etc.;
- confined/enclosed structures, tanks, etc; and,
- any areas visually posted as dangerous.

7.3.4 Protect Against Physical Hazards:

- use high visibility cones, barricades, and vests where traffic hazard exists;
- always watch operating machinery closely and be aware of the existence of "kill switches" or other means of machine shutdown; and

- maintain good communications and visual contact among all workers at the Site.

7.3.5 In the Event of Accident, Physical Reaction or Excessive Exposure:

Leave area immediately and proceed to designated clean zone. Administer first aid, if appropriate. Obtain medical assistance for any other injuries or exposures. Any employee who becomes sick or injured on the job must receive medical clearance and clearance from the employer before returning to the Site.

Overexposure can be caused by: spills, splashes, immersions, inhalation

Symptoms of overexposure may include, but not limited to, any of the following physiological reactions: dizziness, nausea, rash, asthmatic reactions, abdominal pain, distorted vision/hearing, excessive coughing, swelling, headaches

8.0 DECONTAMINATION PROCEDURES

Activities conducted at this Site have the potential to contaminate personal protective equipment, monitoring equipment, and/or other physical equipment. If the Site Safety Officer deems that contamination of equipment has occurred during Site activities, all such equipment shall be decontaminated using the following general procedures:

- Wash equipment and/or boots and gloves which have come in contact with hazardous substances with a cleaning solution followed by clean water.
- Properly dispose of items that cannot be decontaminated.
- When using Level C PPE, respirator cartridges should be discarded, and respirators should be washed in a mild soap solution and rinsed with clean water.
- Construction equipment and/ monitoring equipment will be cleaned at the discretion of the Site Safety Officer. Cleaning procedures may include detergent washing, cleaning solution rinse, or pressure cleaning.

9.0 SITE WORKER REVIEW/CERTIFICATION

Each Site worker shall sign this section before being permitted to work on the Site.

I have read and understand this Site-specific Health and Safety Plan. I will comply with the provisions contained therein as well as other OSHA requirements.

Site/Project:

Name (Printed)	Company	Signature	Date

H & S APPENDIX A

VAPOR MONITORING FORM

Location	Monitoring Device	Comments

TANK/SOIL REMOVAL AIR MONITORING FORM

Project Number:_____ Location:_____ Representative:_____ Date:_____

Arrival Time:_____ Departure Time:_____ Weather Conditions:_____ Temperature:_____

Air Monitoring Device(s):_____

TANK/EXCAVATION PIT AIR MONITORING LEVELS

Above Pit	Inside Pit	Comments

H & S APPENDIX B

CONFINED SPACE ENTRY PROCEDURES

PURPOSE

The purpose of this guidance is to establish requirements and procedures to eliminate or control Site workers exposure to hazards when entering a confined space.

DEFINITION

Confined space - An area large enough and so configured that an employee can bodily enter and perform assigned work, has limited restricted means for entry or exit (for example, tanks, vessels, silos, storage bins, hoppers, vaults, and pits are spaces that may have limited means of entry), and is not designed for continuous employee occupancy.

Entry – The action by which a person passes through an opening into a confined space. Entry includes ensuing work activities in that space and is considered to have occurred as soon as any part of the entrant's body breaks the plane of an opening into the space.

Hazardous Atmosphere – An atmosphere that may expose Site workers to the risk of death, incapacitation, impairment of ability to self-rescue (that is, escape unaided from a confined space), injury, or acute illness from one or more of the following causes:

Flammable gas, vapor or mist in excess of 10% of its lower flammable limit (LFL).

Airborne combustible dust at a concentration that meets or exceeds its LFL. This concentration may be approximated as a condition in which the dust obscures vision at a distance of five feet or less.

Atmospheric oxygen concentration below 19.5% or above 23.5%.

Atmospheric concentration of any substance that is capable of causing death, incapacitation, impairment of ability to self-rescue, injury or acute illness due to its health effects.

Any other atmospheric condition that is immediately dangerous to life or health (IDLH).

Immediately Dangerous to Life or Health (IDLH) – Any condition that poses an immediate or delayed threat to life or that would cause irreversible adverse health effects or that would interfere with an individual's ability to escape unaided from a confined space.

Non-Permit Confined Space – A confined space that does not contain or, with respect to atmospheric hazards, have the potential to contain any hazard capable of causing death or serious

physical harm.

Oxygen Deficient Atmosphere – An atmosphere containing less than 19.5% oxygen by volume.

Oxygen Enriched Atmosphere – An atmosphere containing more than 23.5% oxygen by volume.

Permit-Required Confined Space – A confined space that has one or more of the following characteristics:

Contains or has a potential to contain a hazardous atmosphere.

Contains a material that has the potential for engulfing an entrant.

Has an internal configuration such that an entrant could be trapped or asphyxiated by inwardly converging walls or by a floor, which slopes downward and tapers to a smaller cross-section.

Contains any other recognized serious safety or health hazard.

GENERAL REQUIREMENTS

Workspace Evaluation

The Health & Safety Officer shall evaluate the workplace annually to identify all confined spaces that:

Contain or have a potential to contain a hazardous atmosphere.

Contain a material that has the potential for engulfing an entrant.

Have an internal configuration such that an entrant could be trapped or asphyxiated by inwardly converging walls or by a floor, which slopes downward and tapers to a smaller cross-section.

Contain any other recognized serious safety or health hazard.

Employees will be informed of all spaces meeting the above criteria by means of information sharing and by means of posted danger signs, if practicable. All signs shall read:

DANGER – Permit-Required Confined Space -- Do Not Enter. (See Example 1.)

Workplace evaluation of non-permit confined spaces shall be completed when there are changes in the use or configuration of a non-permit confined space that might increase the hazards to entrants.

Workplace evaluation of all confined spaces shall be completed within 12 months of the previous annual evaluation. To ensure compliance, it is suggested that the evaluation be completed within 11 months of the previous annual evaluation.

If changes resulting from an evaluation of a confined space require reclassification of the space to a permit-required space, employees will be informed that the space meets the permit-required criteria by means of information sharing and by means of posted danger signs if practicable. All signs shall read:

DANGER – Permit-Required Confined Space – Do Not Enter. (See Example 1)

Site workers shall not enter confined spaces that have been evaluated and determined to be permit-required confined spaces; that is, they meet the above criteria, unless the Health & Safety Manager approves entry upon the documented elimination of the hazards present (elimination of hazards redefines the space as a non-permit-required confined space).

Acceptable hazard elimination methods include, but are not limited to:

Elimination of hazardous atmospheres by ventilation.

Removal of material that has the potential for engulfing and lockout/tagout of equipment which control the supply and discharge of material.

Stabilization of material that has the potential for engulfing and lockout/tagout of equipment which control the supply and discharge of material.

Testing and Elimination of Hazardous Atmospheres

Persons conducting evaluation tests shall be trained and competent in the use and calibration of test instruments and in the documentation of calibration and test results. Test instrument alarms shall be set to go off at the appropriate action level to signal the evacuation warning.

Test instruments shall be calibrated once every six months. The calibration shall be documented on the form entitled “Calibration Record,” included in this section. The person completing the form shall initial and date the form upon completion of the test.

Without entering the confined space, the existing atmosphere must be tested for the following, in the order listed, and be within the **Acceptable Limits** specified:

Acceptable

Test for:	**Limits:**
Oxygen Content	19.5% - 23%
Lower Explosive Limit	<10%
Carbon Monoxide	<25ppm
Hydrogen Sulfide	<10ppm
Heat (if applicable)	___

If the atmosphere is not within above noted limits and the hazards can not be eliminated, the confined space shall be classified as a permit-required confined space and shall not be entered. Results shall be recorded on the form entitled "Confined Space Entry Permit" included in this section.

If the atmosphere is outside **Acceptable Limits**, but the hazards can be eliminated through ventilation, then forced air ventilation can be used. For proper ventilation, two openings should be provided about the confined space.

During the ventilation process, the atmosphere must be tested without personnel entering the confined space. Upon determining the atmosphere to be acceptable and that no other hazards exists, personnel with proper PPE shall test the atmosphere upon entry and throughout the work area as noted above. Results shall be recorded on the form entitled "Confined Space Entry Permit " included in this section.

Upon entering the space, the atmosphere shall be tested continuously with an alarmed monitor and results recorded on the form entitled "Confined Space Entry Permit " included in this section.

During the time Site workers are in the confined space, should atmospheric conditions fall outside **Acceptable Limits**, all shall **IMMEDIATELY** evacuate the area. The area shall then be evaluated to determine the cause and proper measures taken to eliminate the cause before Site workers shall be allowed to re-enter the space.

Proper ventilation and an air supply free of contaminants must be maintained for the duration of entry operations.

Mechanical ventilation systems shall be set up to provide 100 percent outside air, where applicable. When possible, additional covers/man-ways/manholes shall be opened to increase air circulation.

Where applicable, portable blowers will be set up to exhaust fumes, vapors and mists which may be generated by chipping, welding, painting or other such activities within the confined space.

Pumps, generators, gas powered ventilation systems and compressors, which have

potential to generate carbon monoxide, shall be located sufficient distance from the confined space to prevent atmospheric hazards.

Control of Engulfment Hazards

Persons can be engulfed if bridged material collapses or if material sloughs off the sides of excavations. Precautionary measures taken shall be recorded on the form entitled "Confined Space Entry Permit" included in this program.

Documentation of hazard elimination, for the space to be entered, shall be entered onto the Confined Space Entry Permit. The permit shall be completed by the Health & Safety Officer, reviewed with Site workers, and stored at on-Site during the entry procedures. Permits must be returned to the Health & Safety Officer at the end of the work shift. Permits will be kept on file for a period of one year.

Upon entry, all applicable safety practices outlined by OSHA regulations and/or this company safety policies must be followed from such time as the Site worker enters the confined space, until such time as the Site worker exits the confined space.

Material feeding onto belts or other discharge points can pull victims into draw holes and bury them.

Work shall be performed from safe access platforms with handrail protection to prevent falls into vaults, etc. Supply and discharge systems shall be shut down, locked-out and tagged.

Material that offers potential for caving or sliding shall be barred down from the top before entry is permitted.

MANDATORY CONFINED SPACE PROCEDURES

Safety harnesses and lines shall be worn when persons enter a confined space requiring fall protection and a second person shall tend the lifeline or retrieval equipment.

All Site workers given the responsibility of tending lifeline(s) shall have the capability of maintaining communications with the Site worker that enter a confined space from the time of entry until the time of exit.

All required personal protective equipment shall be used when entering a confined space.

A barricade or barrier shall be erected at the opening of confined spaces being entered to prohibit unauthorized persons from entering the confined space.

Before entering a confined space, the supply and discharge of materials shall be stopped and all

equipment which control the supply and discharge of material or which could create a hazard shall be locked out and tagged.

Persons capable of providing rescue and first aid shall be available before entrance to any confined space is permitted. The individual(s) having rescue responsibility shall be equipped with all rescue equipment necessary to facilitate an expedient and safe rescue of the Site worker in the confined space. The individual(s) having first aid responsibility shall be currently trained and have the skills to perform patient assessment and artificial respiration; control bleeding; and treat shock, wounds, and burn injuries.

TRAINING

Site workers will be instructed in the recognition of confined spaces; the recognition of potential confined space hazards; confined space entry and exit procedures; required safety equipment, including the use of respirators, if required; rescue and emergency first aid; control measures such as ventilation; and proper work practices.

Confined space entry and the topics listed above will be an annual training topic.

MONITORING AND ENFORCEMENT

The Health & Safety Officer and any other safety personnel shall be responsible for implementation and enforcement of this policy. Failure to follow established confined space entry procedures or failure to use proper personal protective equipment can result in an employee receiving a safety violation notice and/or disciplinary action up to and including termination of employment.

INDEPENDENT CONTRACTORS

Independent contractors that have been contracted to perform work that requires entry into a permit-required space shall:

> Be aware that the workplace contains permit-required confined spaces and that entry into these spaces is allowed only through compliance with 29 CFR 1910.146.
>
> Be aware of information concerning the permit-required spaces, including the hazards identified and any past experience with the space that make the space in question a permit-required space.
>
> Be aware of any precautions or procedures that have been implemented for the protection of Site workers in or near any and all permit-required spaces where the contractor’s personnel will be working.
>
> Coordinate entry operations when both BEA personnel and contractor personnel will be working in or near permit-required spaces.

At the completion of the job requiring entry into the permit-required space, be debriefed regarding any hazards confronted or created in permit-required spaces during entry operations.

RECORD KEEPING

The Health & Safety Officer shall maintain all records including inspection and training records. Training shall be documented and placed in file. Training records shall be retained for a period of three years from the date of the training.

H & S APPENDIX C
OSHA TRENCHING REGULATIONS

SUMMARY OF OSHA CONSTRUCTION STANDARDS FOR EXCAVATIONS

(29 CFR Part 1926.650-.652)

1926.650 Scope, application, and definitions applicable to this subpart

Excavations are defined to include trenches.

1926.651 General requirements (applies to all excavations)

a) Surface encumbrances - Shall be removed or supported, as necessary, to safeguard employees.

b) Underground installations - Prior to start of excavation, utility companies shall be contacted within established or customary local response time to estimate locations of underground utility installations. When excavation operations approach estimated locations, the exact locations shall be determined by safe and acceptable means. While excavation is open, underground installations shall be protected and/or supported as necessary to safeguard employees.

c) Access and egress - Structural ramps must be designed by a competent person. If ramps are for use of equipment, the competent person must be qualified in structural design. **Means of egress from trench excavations >4 feet deep, such as a stairway, ladder or ramp shall be provided so as to require no more than 25 feet of lateral travel for employees.**

d) Exposure to vehicular traffic - Reflectorized or high-visibility garments should be worn if exposed to traffic.

e) Exposure to falling loads - No employees shall be permitted underneath loads handled by lifting or digging equipment. Employees shall stand away from vehicles being loaded or unloaded.

f) Warning system for mobile equipment - Where mobile equipment is operated adjacent to an excavation, or if the equipment is required to approach the excavation and the operator does not have a clear and direct view of the excavation edge, a warning system, such as barricades, hand or mechanical signals, or stop logs shall be used.

g) Hazardous atmospheres - In addition to requirements in Subpart D and E (1926.50 - 1926.107):

In any excavation, provide proper respiratory protection or controls such as ventilation to prevent exposure to atmospheres containing less than 19.5% O2 and to prevent exposure to greater than 20% of the lower flammable limit and provide testing of controls. Emergency rescue equipment shall be provided if hazardous conditions exist or may reasonably be expected to develop. **For**

trenches >4 feet and if hazardous conditions exist or may exist, perform monitoring, prior to entering trench.

h) Protection from hazards associated with water accumulation - Employees shall not work in excavations with accumulated water or where there is the potential for accumulated water unless adequate precautions (such as special support or shields systems, water removal, or the use of a safety harness and lifeline) are provided. All water removal equipment shall be monitored by a competent person. If excavations interrupt the natural drainage of surface water, diversion ditches, dikes, or other means shall be used to prevent surface water from entering the excavation and to provide drainage for the area adjacent to the excavation. Excavations subject to runoff from heavy rains will require and inspection by a competent person.

i) Stability of adjacent structures - Support systems shall be provided where the stability of buildings, footings, sidewalks, pavement, or to other appurtenant structures, is endangered by excavation operations.

j) Protection of employees from loose rock or soil - Scaling to prevent loose material, installation of protective barricades, or other means may be required to protect employees from material for the excavation face. **To prevent material or equipment from falling or rolling into excavations, all materials or equipment shall be kept al least 2 feet from the edge or excavations, or retaining devices shall be used**.

k) Inspections (only when employee exposure can be reasonably anticipated) - **Daily inspections** by a competent person shall be conducted prior to start of daily work, and as needed throughout the shift. Inspections shall also be conducted after every rainstorm or other hazard increasing occurrence. Employees shall be removed if there is evidence of hazardous situations.

l) Fall protection - Walkways or bridges with standard guardrail shall be provided where employees or equipment are required or permitted to cross over excavations. Adequate physical barriers shall be provided at all remotely located excavations. Upon completion, temporary excavations shall be backfilled.

1926.652 Requirements for protective systems

Trenches >20 feet deep - Protective systems must be designed by a professional engineer.

Trenches <20 feet deep - Follow flowchart in Appendix F, Subpart P. In general:

Soil Type	**Maximum Allowable Slope**
Stable Rock	Vertical
Type A (open <24 hrs, <12 feet)	1/2:1
Type A	3/4:1
Type B	1:1
Type C	1-1/2:1

d) Materials and equipment - Materials and equipment shall be free from damage or defects, and used and maintained as recommended by the manufacturer. If materials or equipment are damaged, they must be inspected by a competent person prior to continues use. If the competent person cannot assure the materials or equipment are suitable for future use, they must be removed and be evaluated and approved by a professional engineer before being returned to service.

e) Installation and removal of support - Support system members shall be installed and used to ensure the safety of workers, which may include the installation of additional members prior to temporary removal of any individual members. Removal shall begin at, and progress from, the bottom of the excavation. Backfilling shall progress together with the removal of support systems. **Excavation of material to a level >2 feet below the support shall not be permitted.**

f) Sloping and benching systems - **Employees shall not be permitted to work on the faces of sloped or benched excavations at levels above other employees except where adequate protection from falling material is provided.**

h) Shield systems - Employees shall not be allowed in shields while they are being installed, removed, or moved vertically. Excavation of material to a level >2 feet below the shield shall not be permitted

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SEARCH

Enter search terms separated by spaces.

Dioxane

Synonyms & Trade Names Diethylene dioxide; Diethylene ether; Dioxan; p-Dioxane; 1,4-Dioxane

CAS No. 123-91-1	RTECS No. JG8225000 (/niosh-rtecs/JG7D80E8.html)	DOT ID & Guide 1165 127 (http://wwwapps.tc.gc.ca/saf-sec-sur/3/erg-gmu/erg/guidepage.aspx?guide=127) (http://www.cdc.gov/Other/disclaimer.html)
Formula $C_4H_8O_2$	Conversion 1 ppm = 3.60 mg/m3	IDLH Ca [500 ppm] See: 123911 (/niosh/idlh/123911.html)
Exposure Limits NIOSH REL : Ca C 1 ppm (3.6 mg/m3) [30-minute] See Appendix A (nengapdxa.html) OSHA PEL † (nengapdxg.html) : TWA 100 ppm (360 mg/m3) [skin]		Measurement Methods **NIOSH** 1602 (/niosh/docs/2003-154/pdfs/1602.pdf) ; **OSHA** 7 (http://www.osha.gov/dts/sltc/methods/organic/org001/org001.html) (http://www.cdc.gov/Other/disclaimer.html) See: NMAM (/niosh/docs/2003-154/) or OSHA Methods (http://www.osha.gov/dts/sltc/methods/index.html) (http://www.cdc.gov/Other/disclaimer.html)

Physical Description Colorless liquid or solid (below 53°F) with a mild, ether-like odor.

MW: 88.1	BP: 214°F	FRZ: 53°F	Sol: Miscible	VP: 29 mmHg	IP: 9.13 eV
Sp.Gr: 1.03	Fl.P: 55°F	UEL: 22%	LEL: 2.0%		

Class IB Flammable Liquid: Fl.P. below 73°F and BP at or above 100°F.

Incompatibilities & Reactivities Strong oxidizers, decaborane, triethynyl aluminum

Exposure Routes inhalation, skin absorption, ingestion, skiu aud/or eye contact

Symptoms irritation eyes, skin, nose, throat; drowsiness, headache; nausea, vomiting; liver damage; kidney failure; [potential occnpational carcinogen]

Target Organs Eyes, skin, respiratory system, liver, kidneys

Cancer Site [in animals: lung, liver & nasal cavity tumors]

Personal Protection/Sanitation (See protection codes (protect.html)) **Skin:** Prevent skin contact **Eyes:** Prevent eye contact **Wash skin:** When contaminated **Remove:** When wet (flammable) **Change:** No recommendation **Provide:** Eyewash, Quick drench	First Aid (See procedures (firstaid.html)) **Eye:** Irrigate immediately **Skin:** Water wash promptly **Breathing:** Respiratory support **Swallow:** Medical attention immediately

Respirator Recommendations

NIOSH

At concentrations above the NIOSH REL, or where there is no REL, at any detectable concentration:
(APF = 10,000) Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode
(APF = 10,000) Any supplied-air respirator that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained positive-pressure breathing apparatus

Escape:
(APF = 50) Any air-purifying, full-facepiece respirator (gas mask) with a chin-style, front- or back-mounted organic vapor canister
Any appropriate escape-type, self-contained breathing apparatus

Important additional information about respirator selection (pgintrod.html#mustread)

See also: INTRODUCTION (/niosh/npg/pgintrod.html) See ICSC CARD: 0041 (/niosh/ipcsneng/neng0041.html) See MEDICAL TESTS: 0090 (/niosh/docs/2005-110/nmed0090.html)

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International Chemical Safety Cards

1,4-DIOXANE

ICSC: 0041

1,4-Diethylene dioxide
Dioxane
para-Dioxane
$C_4H_8O_2$
Molecular mass: 88.1

ICSC # 0041
CAS # 123-91-1
RTECS # JG8225000
UN # 1165
EC # 603-024-00-5
November 11, 2008 Validated
Pu, hed in Series 1.

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
FIRE	Highly flammable. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames, NO sparks, and NO smoking. NO contact with strong oxidants. NO contact with hot surfaces.	Powder, alcohol-resistant foam, water spray, carbon dioxide water may be ineffective: water spray: OK;
EXPLOSION	Vapour/air mixtures are explosive. Risk of fire and explosion on contact with incompatible materials: see Chemical Dangers.	Closed system, ventilation, explosion-proof electrical equipment and lighting. Prevent build-up of electrostatic charges (e.g., by grounding). Do NOT use compressed air for filling, discharging, or handling. Use non-sparking handtools.	In case of fire: keep drums, etc., cool by spraying with water.
EXPOSURE		PREVENT GENERATION OF MISTS!	
•**INHALATION**	Cough. Sore throat. Nausea. Dizziness. Headache. Drowsiness. Vomiting. Unconsciousness. Abdominal pain.	Ventilation (not if powder), local exhaust, or breathing protection.	Fresh air, rest. Refer for medical attention immediately.
•**SKIN**	MAY BE ABSORBED!	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse skin with plenty of water or shower.
•**EYES**	Redness. Pain. es watering of the eyes. at update 2007 due to eye irritation;	Face shield or eye protection in combination with breathing protection.	Rinse with plenty of water (remove contact lenses if easily possible).
	(See Inhalation).	Do not eat, drink, or smoke during work.	Rinse mouth. Do NOT induce vomiting. Seek medical attention

•INGESTION			if you feel unwell om Refer for medical attention. at update 2007.;

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Personal protection: filter respirator for organic gases and vapours adapted to the airborne concentration of the substance. Collect leaking liquid in sealable air tight containers. Absorb remaining liquid in sand or inert absorbent and remove to safe place. Do NOT wash away into sewer. m Collect leaking and spilled liquid in sealable containers as far as possible. at update 2007;	Fireproof. Separated from strong oxidants , strong acids, and incompatible materials . Cool. Dry. Well closed. Keep in the dark. Store only if stabilized. Store in an area without drain or sewer access. m strong acids. at update2007;	Airtight. Note: D F symbol Xn symbol R: 11-19-36/37-40-66 S: 2-9-16-36/37-46 UN Hazard Class: 3 UN Packing Group: II Signal: Danger Flame-Excl mark-Health haz Highly flammable liquid and vapour Causes eye irritation May cause respiratory irritation Suspected of causing cancer May be harmful if swallowed and enters airways

SEE IMPORTANT INFORMATION ON BACK

ICSC: 0041

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

International Chemical Safety Cards

1,4-DIOXANE

ICSC: 0041

IMPORTANT

PHYSICAL STATE; APPEARANCE:
COLOURLESS LIQUID , WITH CHARACTERISTIC ODOUR.

PHYSICAL DANGERS:
The vapour is heavier than air and may travel along the ground; distant ignition possible.

CHEMICAL DANGERS:
The substance can form explosive peroxides on contact with air. Reacts with oxidants and strong acids. Reacts violently with some catalysts. hanged from Reacts vigorously with strong oxidants and concentrated strong acids. at update 2007; , Replace from Reacts explosively with some catalysts (e.g., Raney-nickel above 210°C). at update 2007; acks many plastics. at update 2007 due to no info;

OCCUPATIONAL EXPOSURE LIMITS:
TLV: 20 ppm as TWA; (skin) A3 (confirmed animal carcinogen with unknown relevance to humans); (ACGIH 2008).
MAK: 20 ppm, 73 mg/m³;
Peak limitation category: I(2);

ROUTES OF EXPOSURE:
The substance can be absorbed into the body by inhalation of its vapour and through the skin.

INHALATION RISK:
A harmful contamination of the air can be reached rather quickly on evaporation of this substance at 20°C; on spraying or dispersing, however, much faster. m free phrase of 'on spraying much faster' at update 2007.

EFFECTS OF SHORT-TERM EXPOSURE:
The substance is irritating to the eyes and the respiratory tract . If swallowed the substance may cause vomiting, and could result in aspiration pneumonitis. Exposure at high levels could cause lowering of consciousness. 46; m Exposure to high vapour concentrations may result in unconsciousness. at update 2007.;

EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:
The liquid defats the skin. The substance may have effects on the central nervous system, kidneys, and liver. This substance is possibly

A T A	skin absorption (H); Carcinogen category: 4; Pregnancy risk group: C; (DFG 2008). OSHA PEL†: TWA 100 ppm (360 mg/m^3) skin NIOSH REL: Ca C 1 ppm (3.6 mg/m^3) 30-minute See Appendix A NIOSH IDLH: Ca 500 ppm See: 123911	carcinogenic to humans. p 2B), Changed from This substance is probably carcinogenic to humans. at update 2007.
PHYSICAL PROPERTIES	Boiling point: 101°C Melting point: 12°C Relative density (water = 1): 1.03 Solubility in water: miscible Vapour pressure, kPa at 20°C: 3.9 Relative vapour density (air = 1): 3.0	Relative density of the vapour/air-mixture at 20°C (air = 1): 1.08 Flash point: 12°C c.c. Auto-ignition temperature: 180°C Explosive limits, vol% in air: 2.0-22.0 Octanol/water partition coefficient as log Pow: -0.27 Viscosity, mm2/s at 25 °C: 1.17
ENVIRONMENTAL DATA		

NOTES

Check for peroxides prior to distillation; eliminate if fonnd. Refer for medical attention if breathing difficulties and/or fever develop. .83(24ppm from Appendix 6); Other OSF=20/170=0.12(170 ppm at update 2007, i.e., changed from Check for peroxides prior to distillation; render harmless if positive.;

Transport Emergency Card: TEC (R)-30S1165 or 30GF1-I+II

NFPA Code: H2, F3, R1

ADDITIONAL INFORMATION

ICSC: 0041 **1,4-DIOXANE**

(C) IPCS, CEC, 1994

IMPORTANT LEGAL NOTICE: Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

Occupational Health Guideline for Dioxane*

INTRODUCTION

This guideline is intended as a source of information for employees, employers, physicians, industrial hygienists, and other occupational health professionals who may have a need for such information. It does not attempt to present all data; rather, it presents pertinent information and data in summary form.

SUBSTANCE IDENTIFICATION

- Formula: $OCH_2CH_2OCH_2CH_2$
- Synonyms: Diethylene dioxide; diethylene ether; dioxan; p-dioxane; 1,4-dioxane
- Appearance and odor: Colorless liquid with a mild ether-like odor.

PERMISSIBLE EXPOSURE LIMIT (PEL)

The current OSHA standard for dioxane is 100 parts of dioxane per million parts of air (ppm) averaged over an eight-hour work shift. This may also be expressed as 360 milligrams of dioxane per cubic meter of air (mg/m^3). NIOSH has recommended that the permissible exposure limit be reduced to a ceiling level of 1 ppm averaged over a 30-minute period, and that dioxane be regulated as an occupational carcinogen. The NIOSH Criteria Document for Dioxane should be consulted for more detailed information.

HEALTH HAZARD INFORMATION

- **Routes of exposure**

Dioxane can affect the body if it is inhaled, comes in contact with the eyes or skin, or is swallowed. It may enter the body through the skin.

- **Effects of overexposure**

Overexposure to dioxane may cause irritation of the eyes, nose, and throat. It may also cause drowsiness, dizziness, loss of appetite, headache, nausea, vomiting, stomach pain, and liver and kidney damage. Prolonged skin exposure to the liquid may cause drying and cracking. Dioxane has been shown to induce tumor formation in experimental animals.

- **Reporting signs and symptoms**

A physician should be contacted if anyone develops any signs or symptoms and suspects that they are caused by exposure to dioxane.

- **Recommended medical surveillance**

The following medical procedures should be made available to each employee who is exposed to dioxane at potentially hazardous levels:

1. Initial Medical Examination:

—A complete history and physical examination: The purpose is to detect pre-existing conditions that might place the exposed employee at increased risk, and to establish a baseline for future health monitoring. Examination of the upper respiratory system, liver, and kidneys should be stressed. The skin should be examined for evidence of chronic disorders.

—Liver function tests: Dioxane may cause liver damage. A profile of liver function should be performed by using a medically acceptable array of biochemical tests.

—Urinalysis: Since kidney damage has also been observed from exposure, a urinalysis should be performed, including at a minimum specific gravity, albumin, glucose, and a microscopic on centrifuged sediment.

—Skin disease: Dioxane is a defatting agent and can cause dermatitis on prolonged exposure. Persons with pre-existing skin disorders may be more susceptible to the effects of this agent.

—14" x 17" chest roentgenogram: Dioxane causes human lung damage. Surveillance of the lungs is indicated.

—FVC and FEV (1 sec): Dioxane is a respiratory irritant. Persons with impaired pulmonary function may be at increased risk from exposure. Periodic surveillance is indicated.

2. Periodic Medical Examination: The aforementioned medical examinations should be repeated on an annual basis.

These recommendations reflect good industrial hygiene and medical surveillance practices and their implementation will assist in achieving an effective occupational health program. However, they may not be sufficient to achieve compliance with all requirements of OSHA regulations.

U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES
Public Health Service Center for Disease Control
National Institute for Occupational Safety and Health

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

September 1976

• **Summary of toxicology**

Dioxane vapor is a mucous membrane irritant, and on prolonged exposure is toxic to the liver and kidneys. Repeated exposure of several animal species to 1000 ppm produced damage to kidneys and liver, and the repeated inhalation of 800 ppm over 30 days resulted in fatal kidney injury in some rabbits. Human volunteers exposed for 15 minutes to 300 ppm reported mild transient irritation of the eyes, nose, and throat. There is significant absorption of the liquid through the skin, adding to the inhalation hazard. Prolonged or repeated skin contact may also result in drying and cracking due to defatting action. Fatal intoxication due to liver necrosis and severe kidney damage has been reported in workers after two months of heavy exposure to dioxane vapor; the onset of poisoning was marked by drowsiness and headache, nausea, vomiting, and irritation of the eyes and respiratory passages. In one fatal case there was significant damage to the brain as well as to liver and kidney. Due to its mild odor, serious or fatal exposures have been experienced without forewarning. Tumors of the nose, liver, and lungs have been reported in animals following ingestion of high concentrations of dioxane. Immersion of chick embryoes in dioxane has been reported to cause possible mutagenic effects. The significance of these findings in humans in unknown.

CHEMICAL AND PHYSICAL PROPERTIES

• **Physical data**

1. Molecular weight: 88
2. Boiling point (760 mm Hg): 101 C (214 F)
3. Specific gravity (water = 1): 1.03
4. Vapor density (air = 1 at boiling point of dioxane): 3.0
5. Melting point: 11.8 C (53 F)
6. Vapor pressure at 20 C (68 F): 29 mm Hg
7. Solubility in water, g/100 g water at 20 C (68 F): Miscible in all proportions
8. Evaporation rate (butyl acetate = 1): 2.7

• **Reactivity**

1. Conditions contributing to instability: Heat, long exposure to moisture.
2. Incompatibilities: Contact with strong oxidizing agents may cause fires and explosions.
3. Hazardous decomposition products: Toxic gases and vapors (such as carbon monoxide) may be released in a fire involving dioxane.
4. Special precautions: Dioxane is hydroscopic and will produce peroxides in the presence of moisture. Dioxane containing peroxides should not be distilled to dryness because of the potential explosion of nonvolatile peroxides.

• **Flammability**

1. Flash point: 12 C (54 F) (closed cup)
2. Autoignition temperature: 180 C (356 F)
3. Flammable limits in air, % by volume: Lower: 2.0; Upper: 22.0
4. Extinguishant: Dry chemical, alcohol foam, carbon dioxide

• **Warning properties**

1. Odor Threshold: Summer reports an odor threshold of 170 ppm; May reports 2.7 and 170 ppm.
2. Eye Irritation Level: Grant states that "in human beings, irritation of the eye is noted only at concentrations greater than 220 ppm of vapor in air." Patty states that at 300 ppm, dioxane "caused irritation of the eyes, nose, and throat; and at 500 ppm, it was objectionable. Even at higher concentrations, the initial irritation to eyes and respiratory passages is transitory . . . ."
3. Evaluation of Warning Properties: Patty states that the initial irritation produced by exposure to dioxane is transitory and that the "warning properties of dioxane are completely inadequate to prevent exposure to toxic amounts." The AIHA *Hygienic Guide* also notes that "the vapor has poor warning properties and can be inhaled in amounts which may cause serious intoxication or death with injury of the liver and kidneys."

MONITORING AND MEASUREMENT PROCEDURES

• **General**

Measurements to determine employee exposure are best taken so that the average eight-hour exposure is based on a single eight-hour sample or on two four-hour samples. Several short-time interval samples (up to 30 minutes) may also be used to determine the average exposure level. Air samples should be taken in the employee's breathing zone (air that would most nearly represent that inhaled by the employee).

• **Method**

Sampling and analyses may be performed by collection of dioxane vapors using an adsorption tube with subsequent desorption with carbon disulfide and gas chromatographic analysis. Also, detector tubes certified by NIOSH under 42 CFR Part 84 or other direct-reading devices calibrated to measure dioxane may be used. An analytical method for dioxane is in the *NIOSH Manual of Analytical Methods*, 2nd Ed., Vol. 3, 1977, available from the Government Printing Office, Washington, D.C. 20402 (GPO No. 017-033-00261-4).

RESPIRATORS

• Good industrial hygiene practices recommend that engineering controls be used to reduce environmental concentrations to the permissible exposure level. However, there are some exceptions where respirators may be used to control exposure. Respirators may be used when engineering and work practice controls are not technically feasible, when such controls are in the process of being installed, or when they fail and need to be supplemented. Respirators may also be used for operations which require entry into tanks or closed vessels, and in emergency situations. If the use of respirators is necessary, the only respirators permitted

are those that have been approved by the Mine Safety and Health Administration (formerly Mining Enforcement and Safety Administration) or by the National Institute for Occupational Safety and Health.

• In addition to respirator selection, a complete respiratory protection program should be instituted which includes regular training, maintenance, inspection, cleaning, and evaluation.

PERSONAL PROTECTIVE EQUIPMENT

• Employees should be provided with and required to use impervious clothing, gloves, face shields (eight-inch minimum), and other appropriate protective clothing necessary to prevent repeated or prolonged skin contact with liquid dioxane.

• Any clothing which becomes wet with liquid dioxane should be removed immediately and non-impervious clothing which becomes contaminated with dioxane should be removed promptly and such clothing should not be reworn until the dioxane is removed from the clothing.

• Clothing wet with liquid dioxane should be placed in closed containers for storage until it can be discarded or until provision is made for the removal of dioxane from the clothing. If the clothing is to be laundered or otherwise cleaned to remove the dioxane, the person performing the operation should be informed of dioxane's hazardous properties.

• Employees should be provided with and required to use splash-proof safety goggles where liquid dioxane may contact the eyes.

SANITATION

• Skin that becomes contaminated with dioxane should be promptly washed or showered to remove any dioxane.

• Eating and smoking should not be permitted in areas where liquid dioxane is handled, processed, or stored.

• Employees who handle liquid dioxane should wash their hands thoroughly before eating, smoking, or using toilet facilities.

• Areas in which exposure to dioxane may occur should be identified by signs or other appropriate means, and access to these areas should be limited to authorized persons.

COMMON OPERATIONS AND CONTROLS

The following list includes some common operations in which exposure to dioxane may occur and control methods which may be effective in each case:

Operation	Controls
Use in spray application of natural and synthetic resin-based varnishes, lacquers, and paints	Process enclosure; local exhaust ventilation; general dilution ventilation; personal protective equipment
Use in dipping, roller coating, tumbling, knifing, and brushing of natural and synthetic resin-based varnishes, lacquers, and paints	Local exhaust ventilation; general dilution ventilation; personal protective equipment
Use as a solvent for fats, oils, waxes, greases, and natural and synthetic resins	Local exhaust ventilation; general dilution ventilation; personal protective equipment
Use as a wetting agent in textile processing, dye baths, and stain and printing compositions	Local exhaust ventilation; general dilution ventilation; personal protective equipment
Use as a degreaser	Local exhaust ventilation; general dilution ventilation; personal protective equipment
Use as a dehydrating agent in preparation of histological slides	Local exhaust ventilation
Use in manufacture of detergents and cleaning preparations; manufacture of polishing compounds	Local exhaust ventilation; general dilution ventilation; personal protective equipment
Use as a stabilizer for chlorinated solvents; use in preparation of cosmetics and deodorants; use in purification of drugs	Local exhaust ventilation; general dilution ventilation; personal protective equipment
Use as a working fluid for scintillation counter samples	General dilution ventilation; personal protective equipment
Use as a solvent in pulping of wood; polishing compounds	Local exhaust ventilation; general dilution ventilation; personal protective equipment

EMERGENCY FIRST AID PROCEDURES

In the event of an emergency, institute first aid procedures and send for first aid or medical assistance.

• **Eye Exposure**

If dioxane gets into the eyes, wash eyes immediately with large amounts of water, lifting the lower and upper lids occasionally. If irritation persists after washing, get medical attention. Contact lenses should not be worn when working with this chemical.

• **Skin Exposure**

If dioxane gets on the skin, promptly wash the contaminated skin with water. If dioxane soaks through the clothing, remove the clothing promptly and wash the skin with water. If irritation persists after washing, get medical attention.

• **Breathing**

If a person breathes in large amounts of dioxane, move the exposed person to fresh air at once. If breathing has stopped, perform artificial respiration. Keep the affected person warm and at rest. Get medical attention as soon as possible.

• **Swallowing**

When dioxane has been swallowed, get medical attention immediately. If medical attention is not immediately available, get the afflicted person to vomit by having him touch the back of his throat with his finger or by giving him syrup of ipecac as directed on the package. This non-prescription drug is available at most drug stores and drug counters and should be kept with emergency medical supplies in the workplace. Do not make an unconscious person vomit.

• **Rescue**

Move the affected person from the hazardous exposure. If the exposed person has been overcome, notify someone else and put into effect the established emergency rescue procedures. Do not become a casualty. Understand the facility's emergency rescue procedures and know the locations of rescue equipment before the need arises.

SPILL, LEAK, AND DISPOSAL PROCEDURES

• Persons not wearing protective equipment and clothing should be restricted from areas of spills or leaks until cleanup has been completed.

• If dioxane is spilled or leaked, the following steps should be taken:

1. Remove all ignition sources.
2. Ventilate area of spill or leak.
3. For small quantities, absorb on paper towels. Evaporate in a safe place (such as a fume hood). Allow sufficient time for evaporating vapors to completely clear the hood ductwork. Burn the paper in a suitable location away from combustible materials. Large quantities can be collected and atomized in a suitable combustion chamber equipped with an appropriate effluent gas cleaning device. Dioxane should not be allowed to enter a confined space, such as a sewer, because of the possibility of an explosion.

• Waste disposal method:

Dioxane may be disposed of by atomizing in a suitable combustion chamber.

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* SPECIAL NOTE

The International Agency for Research on Cancer (IARC) has evaluated the data on this chemical and has concluded that it causes cancer. See *IARC Monographs on the Evaluation of Carcinogenic Risk of Chemicals to Man*. Volume 11, 1976.

RESPIRATORY PROTECTION FOR DIOXANE

Condition	Minimum Respiratory Protection* Required Above 100 ppm
Vapor Concentration	
200 ppm or less	Any supplied-air respirator with a full facepiece, helmet, or hood. Any self-contained breathing apparatus with a full facepiece.
Greater than 200 ppm or entry and escape from unknown concentrations	Self-contained breathing apparatus with a full facepiece operated in pressure-demand or other positive pressure mode. A combination respirator which includes a Type C supplied-air respirator with a full facepiece operated in pressure-demand or other positive pressure or continuous-flow mode and an auxiliary self-contained breathing apparatus operated in pressure-demand or other positive pressure mode.
Fire Fighting	Self-contained breathing apparatus with a full facepiece operated in pressure-demand or other positive pressure mode.
Escape	Any gas mask providing protection against organic vapors. Any escape self-contained breathing apparatus.

*Only NIOSH-approved or MSHA-approved equipment should be used.