Waite - Heindel
Environmental Management

December 9, 2014

Mr. Joe Gay
New England Waste Services of Vermont, Inc.
220 Avenue B
Williston, VT 05495

Re: October 2014 Water Quality Sampling, and
Analysis of Trends and Standards Exceedances
NEWSVT Landfills
Coventry, Vermont

Dear Joe:

Enclosed please find the results of the October 2014 water quality sampling round conducted at the NEWSVT Landfills in Coventry, Vermont in accordance with Conditions 46, 47 and 48 of the issued *Solid Waste Disposal Facility Certification* ("Solid Waste Cert.", effective October 18, 2010). Sampling was conducted on 10/6/14 through 10/9/14, by Wendy Krembs; Waite-Heindel Environmental Management (WHEM) Project Scientist, Christopher Page; WHEM Staff Scientist, and Stefan Christie; WHEM Field Assistant.

Refer to the map of water quality sampling locations on page 1 of Appendix 1.

Solid waste was being placed in Phase IV during the sampling round in October 2014.

Trends in Water Quality Data: This report describes recent trends in the water quality results. Those reported trends are stated for the two broad categories of inorganic and organic parameters. In each category, the trends are estimated by visually comparing the values for this current round of sampling versus the previous round of sampling. It would be unnecessarily complex and detailed, and would not provide a significant amount of additional information, to evaluate the individual trend for each parameter at each sampling location – this would involve roughly 5,000 trend evaluations for each semi-annual report. For each sampling location, there are data for approximately 92 parameters: 17 physical and inorganic parameters and approximately 75 organic parameters. There are 54 sampling locations at this site: 34 groundwater monitoring wells, 12 surface water and underdrain sampling locations, and 8 leachate sampling locations.

We are in the process of preparing graphs and data tables of groundwater results for the three inorganic parameters that routinely exceed their Groundwater Enforcement Standards throughout the site: Dissolved Arsenic, Iron and Manganese. We are processing the data from the full

periods of record. For some of the earlier sampling locations, we have data as far back as 1989. Some of these locations have been long-discontinued because they were located where lined solid waste cells have now been installed. After the tables and graphs are finalized, we will make suggestions regarding trend evaluations of these data.

DEC Comment Letter on Previous Sampling Round:

A comment letter was received from the VT ANR DEC Solid Waste Program (Kasey Kathan) dated October 24, 2014 regarding the previous report on the May 2014 semi-annual sampling event (see Appendix 1, pp. 13 – 16). Kasey's comments related to the May 2014 report which requested responses are briefly paraphrased below, with our responses beneath:

- Discussion of Sampling Results, Item C.: Conclusion 11: *"Please discuss more thoroughly the detected contaminants that cannot be directly related to the unlined landfill"*.
  These discussions are provided in this report.

- Discussion of Sampling Results, Item D: Conclusion 2: *"Please address all exceedances of surface water standards"*.
  These surface water exceedances are addressed in this report.

- General Comments, Item 1: *"Please suggest a course of action regarding a potential replacement groundwater monitoring well between Unlined Areas A & B, and lined Phases I and II"*.
  This topic was addressed in a Memo from WHEM titled *"Consideration of replacement well between Phases I – II and Unlined Areas A & B"* dated 11-20-2014, submitted by NEWSVT to the Solid Waste Program on 11-24-2014.

- General Comments, Item 2: *"Please clarify how the trends in concentrations are determined"*.
  This topic is explained in the previous paragraph (Trends) in this report.

- General Comments, Item 3: *"Please report stabilized turbidity readings from the low-flow sampling procedures"*.
  Stabilized turbidity readings are now included in the tables in Appendix 1 of Indicator Parameters, along with the addition of the other previously non-reported low-flow sampling parameters (Dissolved Oxygen and Oxidation Reduction Potential).

I. GROUNDWATER

WHEM conducted low-flow sampling on all monitoring wells with sufficient water following WHEM's low-flow sampling SOP. Wells with insufficient water for low-flow sampling

methodology were purged and sampled using dedicated hand bailers. As per the SOP, wells were field-measured for depth to water, and temperature, specific conductivity, dissolved oxygen, pH, oxidation reduction potential and turbidity readings were obtained until readings stabilized (or after one half hour of data collection; whichever comes first), and samples collected. Groundwater samples were analyzed by Endyne, Inc., of Williston, Vermont for landfill indicator parameters, inorganic compounds, and volatile organic compounds (VOCs) by EPA Method 8260C.

A. Up-gradient of Lined and Unlined Landfills

There are eight wells that provide information on the up-gradient groundwater at the site: **MW-409, MW-705, MW-706, MW-801D-R, MW-801BR-R, MW-804-S-R, DW-#21 (office), and DW-#36516** (St. Onge 2005 drilled well). In October 2014 we sampled all of the up-gradient wells. See Appendix 1, page 1 for the locations of these wells. See summary tables in Appendix 1 and individual lab reports in Appendix 2. For a summary of recent trends, see Appendix 1, page 2; for tables showing standards exceedances in the October 2014 sampling round, see Appendix 1, page 5.

Up-gradient Inorganics: In the October 2014 sampling round, inorganic compounds showed upward trends in **DW-21 (Office)**, **MW-409, MW-705**, **MW-706, MW-801D-R, MW-804SR** and the **St. Onge** well, while a downward trend was noted in **801BR-R.** These October 2014 trends were visually estimated from the previous sampling event in May 2014.

DW-21 (Office; bedrock non-potable water supply well): No primary or secondary GESs were exceeded, as is typical. Total sodium was detected at its highest concentration to date (95 mg/L), although it did not exceed the GES of 250 mg/L). All inorganic and indicator compound concentrations remain within the normal ranges of historic values for this well.

MW-409: Total iron exceeds the secondary GES this round, after it was below in October 2013 and May 2014. This exceedance is typical of this well. Total manganese exceeds the secondary GES this round, after it was below in October 2013 and May 2014. This exceedance is typical of this well. All other inorganic and indicator compound concentrations remain within the normal ranges of historic values for this well.

MW-705: Total arsenic exceeds the primary GES, as it has on three past occasions in this well. Total manganese exceeds the primary and secondary GES, as is typical. Dissolved manganese exceeds the secondary GES, as is typical. Total iron exceeds the secondary GES, as has been typical in the past. Total chloride continues on an increasing trend, and was detected at its highest concentration to date (97 mg/L), but is well below the secondary GES of 250 mg/L. All other inorganic and indicator compound concentrations remain within the normal ranges of historic values for this well.

MW-706: Total manganese exceeds the primary and secondary GES, as is typical, and was detected at its highest concentration to date (2.3 mg/L). Upon in inquiry, this concentration was verified by laboratory personnel. It appears this well is continuing on an increasing trend for total manganese since May 2013. Dissolved manganese exceeds the secondary GES, as it has on three past occasions at the start of sampling, although it has routinely exceeded the secondary PAL since May 2013. Total iron exceeds the secondary GES, which is not unexpected. All other inorganic and indicator compound concentrations remain within the normal ranges of historic values for this well.

MW-801BR-R (bedrock monitoring well): Total and dissolved manganese exceeds the secondary GES, as they have since October 2013. Total iron continues to exceed the secondary GES, as is typical, although it was detected at its lowest concentration to date this round. pH was at its lowest concentration to date. All other inorganic and indicator compound concentrations remain within the normal ranges of historic values for this well.

MW-801D-R: Total iron exceeds the secondary GES, as is typical. Total manganese continues to be non-detect since the previous sampling event in May 2014. pH continues to exceed the Vermont Health Advisory (HA) as it has since October 2013. COD exceeds the Maximum Acceptable Change (MAC) for the first time, and is at its highest concentration to date. Specific conductivity was at its lowest concentration to date. All other inorganic and indicator compound concentrations remain within the normal ranges of historic values for this well.

MW-804S-R: Total iron exceeds the secondary GES, as it has in the past, although it has been below the GES since May 2013. Total manganese exceeds the secondary GES, as it has in the past, although it has been non-detect since May 2013. These concentrations are typical of this well. pH was detected at its highest concentration to date, although it did not exceed any standards. All other inorganic and indicator compound concentrations remain within the normal ranges of historic values for this well.

St. Onge 2005 Well (#36516; bedrock water supply well serving the farm and farmhouse on the east side of Airport Road): Total arsenic exceeds the primary GES, as sporadically occurs. Sodium was detected within normal ranges, but did exceed the MAC this round. There are no additional primary or secondary GES exceedances this round, and all inorganic and indicator compound concentrations remain within the normal ranges of historic values for this well.

Up-gradient Volatile Organic Compounds (VOCs): In October 2014, there were no VOCs detected in the up-gradient wells, as has been the case for many years, except in May 2013, when two VOCs were detected for the first time in DW-36516, the St. Onge farm well. The well was re-sampled in August 2013 and all VOC results were non-detected, and were also non-detected in the October 2013 sample. Therefore, it appears that the one-time detection of two VOCs in May 2013 in the St. Onge farm well were anomalous.

B. Between Lined and Unlined Landfills

Two previous surficial aquifer monitoring wells were located in the zone immediately down-gradient of the lined landfill, **MW-2R** and **MW-410R**. During the fall of 2013, NEWSVT excavated solid waste and soils between the unlined landfill and the Phase I lined landfill, in the vicinity of these two wells. These wells were found to be constructed in or through solid waste, and were decommissioned. Therefore, these wells were not present during the May or October 2014 semi-annual groundwater sampling events. A proposed location for a replacement well has been provided by WHEM and NEWSVT to the SWP. Pending approval by the SWP, the well will be installed and ready for sampling during the May 2015 semi-annual sampling event.

C. Down-gradient of Lined and Unlined Landfills

Seventeen regulatory monitoring wells (sampled semi-annually) and seven non-regulatory monitoring wells (sampled periodically) provide information in the zone down-gradient of the lined and unlined landfills at NEWSVT. Based on the groundwater elevations and estimated groundwater flow paths from 2013, and October 2014 data, these downgradient monitoring wells can be divided into two groups:

- **Down-gradient from Unlined Areas A & B:** **MW-A-1, MW-B-1, MW-D-1R, MW-D-2, MW-P-2R, MW-P-5, MW-BRW-1, MW-BRW-2R, BRW-5S** (non-regulatory well) and possibly **MW-P-8** and **MW-412-R** depending on the interpretation of flow directions.
- **Down-gradient of lined Phases I-IV and not impacted by Unlined Areas A & B:** **BRW-3S, BRW-3D, MW-E1, MW-P6, MW-103, MW-703, MW-805S** (and non-regulatory wells **BRW4S** through **BRW-10S,** not including **BRW-5S).**

See summary tables and individual lab reports in Appendices 1 and 2. For a summary of recent trends, see Appendix 1, page 2; for a table showing standards exceedances in the October 2014 sampling round, see Appendix 1 pages 6-7.

Down-gradient from Unlined Areas A & B Inorganics:
(**MW-A-1, MW-B-1, MW-D-1R, MW-D-2, MW-P-2R, MW-P-5, MW-BRW-1, MW-BRW-2R, BRW-5S** (non-regulatory well) and possibly **MW-P-8** and **MW-412-R** depending on the interpretation of flow directions):

In the October 2014 sampling round, inorganic compounds showed downward trends in **MW-A1** and **MW-P8.** Upward trends were noted in **MW-B1, MW-D1R, MW-P2R, MW-P5** and **MW-412R**. A mixed trend was noted in **MW-D2**. In February 2014, an upward trend was noted in **BRW-1** and a downward trend was noted in **BRW-2R**. These trends were visually estimated from the previous sampling events at these wells.

MW-A1: Total arsenic exceeds the primary GES, as is typical. Total and dissolved manganese exceed the primary and secondary GES, as is typical. Total and Dissolved iron exceed the secondary GES as is typical. Total nickel and total chloride have decreased and may be returning to within their normal ranges after increasing trends in both have been noted since May 2011. Although both have been increasing since that time, neither has ever exceeded their respective GESs. Specific conductivity was at its highest concentration to date. All other inorganic and indicator compound concentrations remain within the normal ranges of historic values for this well.

MW-B1: Total arsenic exceeds the primary GES, as is typical. There are no other GES exceedances in this well, although total iron and total and dissolved manganese typically exceed the secondary GES. All other inorganic and indicators compound concentrations remain within the normal ranges of historic values for this well.

MW-D1R: Total arsenic exceeds the primary GES, as is typical. Total iron is back within historic ranges and exceeds the secondary GES as is typical, after it decreased below the GES during the previous sampling event in May 2014. Total manganese exceeds the primary and secondary GESs, which is not unusual. Dissolved manganese exceeds the primary and secondary GES after being non-detected for the first time during the previous sampling event in May 2014. It has exceeded the primary GES on two previous occasions, and typically exceeds the secondary GES. All other inorganic and indicator compound concentrations remain within the normal ranges of historic values for this well.

MW-D2: This well has shown generally upward trends in the concentrations of several metals since approximately 2000-2014 (As, Mn, Fe), as well as for several indicator parameters (COD, Na, Cl, Spec. Cond.). During this round, it appears this upward trend has returned, after generally decreasing during the previous sampling event in May 2014. Total arsenic exceeds the primary GES, as is typical, and was at its highest concentration to date. Upon inquiry, the lab verified this concentration. Total and dissolved manganese exceed the primary and secondary GES as is typical. Total and dissolved iron, and total sodium exceed their secondary GESs, as is typical, with total sodium at its highest concentration to date. Total nickel exceeds the primary GES, as is typical. Total chloride decreased below the secondary GES, which it typically exceeds. It may be returning to typical concentrations after it was detected at its highest concentration to date in October 2013. COD and specific conductivity each exceeds the MAC, as is typical. All other inorganic and indicator compound concentrations remain within the normal ranges of historic values for this well.

MW-P2R: Total arsenic exceeds the primary GES, as is typical. Total nickel exceeds the primary GES, as is typical. Total and dissolved manganese exceed the primary and secondary GES, as is typical. Total chloride continues to exceed the secondary GES, as is typical, and decreased to historic ranges after its highest connection to date during the previous sampling event

in May 2014. Total and dissolved iron both exceed their secondary GESs, as is typical. Total sodium exceeds the MAC, and was detected at its highest concentration to date. Specific conductivity exceeds the MAC but remains within normal ranges for this well. All other inorganic and indicator compound concentrations remain within the normal ranges of historic values for this well.

MW-P5: Total and dissolved manganese exceed the secondary GES, as is typical. Total iron was detected below the secondary GES, after its unusual non-detection during the previous sampling event in May 2014. It may be returning back within normal ranges, although it typically exceeds the secondary GES. Total sodium and temperature are back within normal ranges after they were detected at their lowest values during the previous sampling event in May 2014. All other inorganic and indicator compound concentrations remain within the normal ranges of historic values for this well.

MW-P8: Total arsenic exceeds the primary GES, as is typical. Total and dissolved manganese exceed the primary and secondary GES, as is typical, although total manganese was detected at its lowest concentration to date. Total and dissolved iron exceeds the secondary GES, as is typical. Total nickel remains stable from the previous sampling event in May 2014, and below the primary GES at its lowest concentration. All other inorganic and indicator compound concentrations remain within the normal ranges of historic values for this well.

MW-412R: Total arsenic exceeds the primary GES, as is typical. Total and dissolved manganese increased to normal ranges from their lowest concentrations to date during the previous sampling event in May 2014 and each exceeds their primary and secondary GESs, as is typical. Total and dissolved iron both exceed their secondary GESs, as is typical. COD exceeds the MAC but remains within historic ranges. Specific conductivity exceeds the MAC, and was detected at its highest concentration to date. Total chloride was detected at its highest concentration, but is not close to exceeding its GES. All other inorganic and indicator compound concentrations remain within the normal ranges of historic values for this well.

Black River Wetland Wells (BRW-1, BWR-2R):
These wells are located in the Black River wetland north of the unlined landfill Areas A and B, and are not sampled in May or October in order to minimize the physical impact on the wetland during sampling access. They are sampled once a year in February (last sampled for permit compliance on February 24, 2014). BRW-1 and 2R were also sampled twice in March 2014 as part of WHEM's evaluation of groundwater quality at the northern and western property boundaries (results were reported in a separate document, titled NEWSVT Landfills BRW-1 and BRW-2R Monitoring in Black River Wetland, dated April 1, 2014).

BRW-1: Total and dissolved manganese exceed the primary and secondary GES, as is typical. Total and dissolved iron exceeds the secondary GES, as is typical. Total chloride was non-

detected, as is typical, after being detected at its highest concentration to date during the previous sampling round in February 2013. All other inorganic and indicator compound concentrations remain within the normal ranges of historic values for this well.

BRW-2R: Total and dissolved iron and manganese exceed the secondary GES, as is typical. Dissolved iron (1.4 mg/L) continues to increase, and is at its highest concentration to date. COD did not exceed any standards and was detected at its lowest concentration to date. All other inorganic and indicator compound concentrations remain within the normal ranges of historic values for this well.

Down-gradient from Unlined Areas A & B Organics:

Groundwater samples are analyzed for VOCs by EPA Method 8260C. Four of the ten wells located down-gradient from the Unlined Areas A & B showed no detectable VOCs in October 2014 (**MW-B1, MW-D1R, MW-P5 and MW-412R). MW-BRW-1** and **BRW-2R** were both non-detected for VOCs (and SVOCs) in February 2014.

In the October 2014 sampling round, organic compounds showed upward trends in **MW-D2** and **P8,** and downward trends were noted in **MW-A1 and MW-P2R.**

In **MW-A1:** Benzene exceeds the GES as is typical. Vinyl chloride exceeds the GES, as is typical, and is within historic ranges after its highest concentration during the previous sampling event in May 2014. T-Butanol was non-detect after its third low-level detection during the previous sampling event in May 2014 since sampling of this well began in 1990; there is no GES for this compound. Chloroethane (20.6 ug/L) has routinely been detected since May 2005, and decreased since the previous sampling event in May 2014, when it was detected at its highest concentration to date; there is no GES for this compound. Diethyl Ether (121.0 ug/L) has routinely been detected since May 2008, and decreased since the previous sampling event in May 2014, when it was detected at its highest concentration to date; there is no GES for this compound. MTBE (3.2 ug/L) decreased since the previous sampling event in May 2014, when it was detected at its highest concentration since its first detection in May 2006, but is still well below the GES of 40 ug/L. Tetrahydrofuran (56.3 ug/L) decreased since the previous sampling event in May 2014, when it was detected at its highest concentration to date; there is no GES for this compound. Toluene is routinely detected well below its GES, and was at its lowest concentration to date (1.4 ug/L). All other organic compound concentrations remain within the normal ranges of historic values for this well.

MW-D2: Acetone exceeds the GES as is typical, and is within the higher end of its historic range. 2-Butanone exceeds the GES as is typical, and is within the higher end of its historic range. No new VOCs were detected in MW-D2. All other organic compound concentrations remain within the normal ranges of historic values for this well.

MW-P2R: Benzene (5.0 ug/L) decreased since the previous sampling event in May 2014, when it was detected at its highest concentration to date (6.5 ug/L). It does not exceed the GES, although it does exceed the PAL, as is typical. Chloroethane (20.2 ug/L), diethyl-ether (256 ug/L) isopropylbenzene (6.0ug/L) and tetrahydrofuran (95.8 ug/L) are routinely detected, and decreased since the previous sampling event in May 2014, when they were at their highest concentrations to date; there are no GESs for these compounds. Ethylbenzene (21.0 ug/L) and total xylenes (10.3 u/L) are also routinely detected, and decreased since the previous sampling event in May 2014, when they were at their highest concentrations to date; they were each well below their respective GESs. 1,2-dichhloroethane (1.1 ug/L) was detected at its lowest concentration since May 2013, but still exceeds the PAL as is typical. Toluene (3.8 ug/L) and 1,2,4-trimethylbenzene (1.1 ug/L) were each detected at their lowest concentrations to date and were well below their respective GESs.

MW-P8: T-butanol (32.7) was detected this round for the fifth time since October 2011. This is a low concentration, and there is no GES for this compound. No new VOCs were detected in MW-P8. All other organic compound concentrations were non-detect for this well.

Down-gradient of lined Phases I-IV and not impacted by Unlined Areas A & B Inorganics:
(BRW-3S, BRW-3D, MW-E1, MW-P6, MW-103, MW-703, MW-805S (and non-regulatory wells **BRW4S** through **BRW-10S,** not including **BRW-5S):**

In the October 2014 sampling round, inorganic compounds showed downward trends in **MW-E1, MW-P6** and **BRW3S.** Upward trends were noted in **MW-103, MW-703, MW-805S,** and **BRW-3D.** These trends were visually estimated from the previous sampling events at these wells.

BRW-3S and BRW-3D were installed in May 2013 and September 2013, respectively, to assist in evaluating the groundwater quality near the northeast property boundary. SWP personnel requested that they be added to the semi-annual sampling rounds and report.

BRW-3S: Total and dissolved manganese exceed the secondary GES, is typical. Total iron decreased since the previous sampling event in May 2014 when it exceeded the secondary GES for the first time since sampling began in May 2013. It was detected at its lowest concentration to date, and did not exceed the secondary GES this round. No other inorganic compounds were detected, and all indicator compounds remain within normal ranges of historic values for this well.

BRW-3D: Total arsenic exceeds the primary GES for the third time since sampling of this well began in September 2013. Total iron exceeds the secondary GES, as has been typical on all but one sampling event. Dissolved iron was detected at its highest concentration to date, but did not exceed the secondary GES, although it does exceed the secondary PAL. Total manganese decreased below the secondary GES, which it has typically exceeded. pH and specific

conductivity were at their highest concentrations to date, although it did not exceed any standards. All other inorganic and indicator compound concentrations remain within normal ranges of historic values for this well.

MW-E1: Total arsenic declined to its lowest concentration, and below the primary GES for the second time since sampling began in 2005, but continues to exceed the PAL. Total lead decreased and was non-detect after its second exceedances of the primary GES during the previous sampling event in May 2014. Total iron and total and dissolved manganese exceed the secondary GES, as is typical. Total cadmium and total chromium were detected at their lowest concentrations to date, with no GES exceedances. All other inorganic and indicator compound concentrations remain within the normal ranges of historic values for this well.

MW-P6: Total and dissolved manganese exceed the secondary GES, as is typical. Total iron exceeds the secondary GES, as is typical. All other inorganic compound and indicator concentrations remain within the normal ranges of historic values for this well.

MW-103: Total iron and total manganese exceed their secondary GESs, as is typical, with total manganese also exceeding the primary GES, as it does sporadically. All other inorganic and indicator compound concentrations remain within the normal ranges of historic values for this well.

MW-703: Total manganese exceeds the primary and secondary GES, as is typical. Dissolved manganese exceeds the secondary GES, as is typical. COD exceeds the MAC and is within the higher end of historic ranges. All inorganic and indicator compound concentrations remain within the normal ranges of historic values for this well.

MW-805S: Since October 2013, many inorganics concentrations in this well are back within historic ranges, after high detections in May 2013. This is likely due to a revised sampling procedure implemented by WHEM in October 2013 that reduced the siltiness of the sample, by bailing the well on our first field day, then allowing the well to recharge overnight before sampling. We will follow this procedure in future sampling events, as this well has insufficient water to sample using low flow methodology.

Total iron exceeds the secondary GES, as is typical, and is at the lower end of its historic range after its highest concentration to date in May 2013. Total arsenic was detected at its lowest concentration to date, and does not exceed the primary GES, but does exceed the primary PAL, as is typical. All other inorganic and indicator compound concentrations remain within the normal ranges of historic values for this well.

Down-gradient of lined Phases I-IV and not impacted by Unlined Areas A & B Organics:

Groundwater samples are analyzed for VOCs by EPA Method 8260C. **BRW-3S, BRW-3D, MW-E1, MW-P6, MW-103, MW-703 and MW-805S** were all non-detected for VOCs.

MW-103: Total xylenes were non-detect this round after they were detected for the first time during the previous sampling event in May 2014, but well below the GES. All VOCs were non-detected. This well has had very few VOC detections, with only acetone, benzene and 2-Butanone having been detected in the past, and always at well below their respective GESs.

D. Property Line Compliance Monitoring

Seven monitoring wells were installed in 2014 adjacent to the north and west property boundaries in the Black River Wetland (MW-BRW-4S through 10S). Sampling has been conducted in these wells since their installations, through July 2014 and water level measurements have been obtained through October 2014. Sampling results, groundwater flow elevations and directions are discussed under a separate report (Groundwater Quality at Down-Gradient Property Boundaries, NEWSVT Landfills Solid Waste Mangement Facility, Coventry, VT, dated September 19, 2014).

II. SURFACE WATER, INCLUDING UNDERDRAIN OUTLETS

A. Upstream Surface Water

There are two upstream surface water sampling points at NEWSVT: **SW-1 Black River Upstream** and **SW-5 St. Onge Stream**. Both of these locations could be sampled in October 2014. SW-1 and SW-5 showed increasing trends in October 2014. These October 2014 trends were visually estimated from the previous sampling event in May 2014.

Beginning in May 2011, we changed SW-3 (Landfill Brook, formerly called “Upstream”) to the “Downstream” category, and we moved its field location approximately 150 feet downstream because it was generally dry at its original location. SW-3 (Landfill Brook Southeast) is now downstream of the maintenance shop (by surface water flow direction), but it is up-gradient (by groundwater flow direction) of the solid waste disposal cells.

See location map, summary tables and individual lab reports in the Appendices. For a summary of recent trends, see Appendix 1, the table on page 3. For a table showing standards exceedances in the October 2014 sampling round, see page 8.

Upstream Inorganics:

(SW-1) Black River: There were no exceedances of the Vermont Water Quality Standards protection of human health (VWQS), as has sporadically occurred in the past. Cadmium and Copper possibly technically exceeded their VQS standards because the laboratory's practical quantitation limits (2.0 and 20 ug/L, respectively) are higher than this round's hardness-dependent standards (0.1.27 and 0.013 ug/L respectively, Protection of Aquatic Biota, Chronic Criteria). All other inorganic compound concentrations remain within the normal ranges of historic values for this location, or were non-detected.

St. Onge Stream (SW-5): There were no exceedances of the VWQS as sporadically occurs. All inorganic compound concentrations remain within the normal ranges of historic values for this location, or were non-detected.

Upstream Volatile Organics: No VOCs (EPA Method 8260C) were detected at either of the two upstream surface water sampling locations in October 2014, as has always been the case in the past.

Upstream Semi-Volatile Organics: No SVOCs (EPA Method 8270C) were detected at either of the upstream surface water sampling locations in October 2014, as has always been the case in the past.

B. Downstream Surface Water

Six downstream surface water sampling locations are part of the Water Quality Monitoring Program at NEWSVT (in addition to the four underdrain outlets, which are discussed in a separate section below): Black River Downstream (SW-2), Landfill Brook Southeast (SW-3), Landfill Brook Downstream (SW-4), Eastern Stream (SW-6), Western Stream (SW-7), and the Wetland Below UD-1, 2 (SW-8). All but SW-6 had sufficient water in October 2014, and were successfully sampled. SW-6 had insufficient water and was not sampled, as has occurred in the past.

In the October 2014 sampling round, inorganic compounds showed upward trends in **SW-2, SW-4**, and **SW-8,** and downward trends in **SW-3** and **SW-7**. These October 2014 trends were visually estimated from the previous sampling event in May 2014.

See the map for locations, and the summary tables and individual lab reports in the Appendices. For a summary of recent trends, see the table in Appendix 1, page 3; for a table showing standards exceedances in the October 2014 sampling round, see page 8.

Downstream Inorganics:

SW-2 (Black River Downstream): There were no exceedances of the VWQS, as has sporadically occurred in the past. Cadmium and copper possibly technically exceeded their standards based on hardness, per above. All other inorganic compound concentrations remain within the normal ranges of historic values for this location, or were non-detected.

SW-3 (Landfill Brook Southeast; formerly referred to as "Landfill Brook Upstream"): There were no exceedances of the VWQS, as has sporadically occurred in the past. Total arsenic (1.0 ug/L) and COD (19.0 mg/L) were detected at their lowest concentrations to date. Chloride, sodium, hardness and specific conductivity all decreased within historic ranges since the previous sampling event in May 2014 when they were all detected at their highest concentrations to date; there are no standards. All other inorganic compound concentrations remain within the normal ranges of historic values for this location, or were non-detected.

SW-4 (Landfill Brook Downstream): There were no exceedances of the VWQS, as sporadically occurs. Nickel was non-detect after it was detected during the previous sampling event in May 2014 for the second time since May 2002, and well below the May 2014 hardness-dependent VWQS of 4,600 ug/L. All other inorganic compound concentrations remain within the normal ranges of historic values for this location, or were non-detected.

At **SW-6** (Eastern Stream): had insufficient water to sample in October 2014, as has occasionally occurred in the past.

SW-7 (Western Stream): Arsenic exceeds the VWQS, as is typical. Underdrain 3 (the outlet for Phase III's underdrain) is located approximately 500 feet upstream of SW-7, and it also generally has elevated arsenic concentrations above the VWQS, so this Arsenic concentration at SW-7 presumably reflects the groundwater intercepted by Underdrain 3. The temperature was at its highest level this round, although it is typically higher than the other surface water locations, which also presumably reflects the groundwater intercepted by Underdrain 3, which is always quite warm. All other inorganic compound concentrations remain within the normal ranges of historic values for this location, or were non-detected.

SW-8 (Wetland Below UD-1, 2): Total iron exceeds the VWQS, as sporadically occurs. There were no additional exceedances of the VWQS, as sporadically occurs. All other inorganic compound concentrations remain within the normal ranges of historic values for this location, or were non-detected.

Downstream Volatile Organics:

Volatile Organic Compounds (VOCs by Method 8260C) continued to be non-detected in October 2014 at all sampled downstream surface water sampling locations, as has always been the case in the past.

Downstream Semi-Volatile Organics:

Semi-VOCs (by EPA Method 8270C) continued to be non-detected in October 2014 at all sampled downstream surface water sampling locations, as has always been the case in the past.

C. Underdrains

Each of the lined landfill phases (Phases 1, 2, 3, and 4) has an independent underdrain system of perforated pipes bedded in high-permeability drainage sand and stone located either in trenches or a continuous blanket beneath or within the engineered soil drainage system. The purpose of the underdrain systems is to isolate the lined landfills from groundwater, and to discharge the intercepted groundwater by gravity flow at separate locations on the lower slopes around the margins of the landfill. The Solid Waste Management Division has determined that the discharges from these underdrains are regulated as surface water. See the map, summary tables and individual lab reports in Appendix 1. For a summary of recent trends, see the table in Appendix 1, page 3; for a table showing standards exceedances in the October 2014 sampling round, see page 8. These October 2014 trends were visually estimated from the previous sampling event in May 2014.

The underdrain pipes are periodically flushed with high-pressure water. NEWSVT personnel reported that the underdrain pipes were last flushed on September 23, 2014.

Solid waste was being placed in Phase IV during the sampling round in October 2014.

C.1. Phase 1 Underdrain

The underdrain outlets for Phases 1 and 2 are immediately adjacent to each other, and discharge onto the grassy slope northwest of the lined landfill. In early October 1997, the underdrain outlet system for Phases 1 and 2 was divided; the left underdrain outlet pipe (when viewed facing uphill, with the Black River wetland to your back) is the outlet for the Phase 1 underdrain system.

Inorganics: In October 2014, inorganics showed increasing trends in the Phase 1 underdrain, and there were no exceedances of the VWQSs. All inorganic compound concentrations remain within the normal ranges of historic values for this location, or were non-detected.

Volatile Organics: In October 2014, all VOCs were non-detected, as has occurred since October 2010.

Semi-Volatile Organic Compounds: In October 2014, all SVOCs were non-detected as has been the case since before October 2004.

Summary, Phase 1 Underdrain: The overall view of the October 2014 sampling results of the Phase 1 underdrain gives no indication of landfill impacts. VOCs and SVOCs were non-detected, and inorganic concentrations were within historic ranges.

C.2. Phase 2 Underdrain

At the adjacent Phase 1 and Phase 2 underdrain outlet locations, the right pipe (when viewed facing uphill) is the outlet for the Phase 2 underdrain system. NEWSVT personnel reported that the underdrain pipes were last flushed on September 23, 2014.

Inorganics: In October 2014, inorganics showed decreasing trends in the Phase 2 underdrain. Arsenic, at 4 ug/L, exceeds the default VWQS of 2 ug/L (see footnotes Table, in Appendix 1, page 113), as is typical. All inorganic compound concentrations remain within the normal ranges of historic values for this location, or were non-detected.

Volatile Organics: In October 2014, one VOC (diethylether; 5.3 ug/L) was detected, as has occurred in the past; there is no standard and this is a low concentration. Ethylbenzene was non-detect in after being detected at a low concentration (1.0 ug/L and well below the standard) during the previous sampling event in May 2014. All other VOCs were non-detected. There has been a historic pattern of sporadic, low-level VOC detections in the Phase 2 underdrain's discharge which are presumed to be due to condensation of landfill gases (because detections of these VOCs disappear after the underdrain pipes are flushed with high-pressure water).

Semi-Volatile Organic Compounds: SVOCs were non-detected in October 2014 in the Phase 2 Underdrain, as has been the case since before October 2004.

Summary, Phase 2 Underdrain: The overall view of the October 2014 sampling results of the Phase 2 underdrain gives no indication of landfill impacts. One low concentration of a VOC was detected, and presumed to be due to landfill gas condensation. SVOCs were non-detected, and inorganic concentrations were within historic ranges.

C.3. Phase 3 Underdrain

NEWSVT personnel reported that the underdrain pipes were last flushed on September 23, 2014.

Inorganics: In October 2014, inorganics showed decreasing trends in the Phase 3 underdrain. Arsenic, at 3 ug/L, exceeds the default VWQS, of 2 ug/L (see footnotes Table, in Appendix 1, page 114), as is typical. Chloride (15 mg/L) decreased within normal historic ranges after its highest concentration to date during the previous sampling event in May 2014. There is no standard, and this is a relatively low concentration. All other inorganic compound concentrations remain within the normal ranges of historic values for this location, or were non-detected.

Volatile Organics: VOCs in the Phase 3 Underdrain were all non-detected in October 2014, as has been the case since 1999 (with the exception of one-time detections of acetone and MEK in May 2008).

Semi-Volatile Organic Compounds: SVOCs were all non-detected in October 2014 in the Phase 3 Underdrain, as has been the case since before October 2004.

Summary, Phase 3 Underdrain: The overall view of the October 2014 sampling results at the Phase 3 Underdrain gives no indication of landfill impacts. VOCs and SVOCs were non-detected. All inorganic concentrations were within historic ranges.

C.4. Phase 4 Underdrain

NEWSVT personnel reported that the underdrain pipes were last flushed on September 23, 2014.

Inorganics: In October 2014, inorganics showed decreasing trends in the Phase 4 underdrain. Specific conductivity (551 uS/cm) decreased within historic ranges this round after it was detected at its highest concentration to date during the previous sampling event in May 2014. All other inorganic compound concentrations remain within the normal ranges of historic values for this location, or were non-detected.

Volatile Organics: VOCs in the Phase 4 Underdrain were all non-detected in October 2014 which has been the case since sampling began in 2006 (except for low-level detections of 2 VOCs in May and June 2011).

Semi-Volatile Organic Compounds: SVOCs were all non-detected in October 2014 in the Phase 4 Underdrain, as has been the case since sampling began in October 2006.

Summary, Phase 4 Underdrain: The overall view of the October 2014 sampling results at the Phase 4 Underdrain gives no indication of landfill impacts. VOCs and SVOCs were non-detected, and inorganic concentrations were within historic ranges.

III. DRINKING WATER

Beginning with the October 1994 sampling round, drinking-water wells are considered by the Solid Waste Management Program as groundwater monitoring wells, so dissolved metals are analyzed in each well sample. Results for these wells have been incorporated into the groundwater section, reported above.

IV. LEACHATE

Eight leachate samples were collected on October 8, 2014 (see Summary Sheets on pages 127-128 Appendix 1); seven from the primary leachate collection systems of individual phases of the lined landfill, plus one sample from the combined-leachate above-ground storage tank (AST). No samples needed to be collected from the secondary leak-detection systems of individual phases of the lined landfill, per instructions from NEWSVT personnel. The samples were analyzed for total metals and other inorganics, volatile organics (by EPA Method 8260C), and semi-volatile organics (by EPA 8270C). See the leachate quality summary tables in Appendix 1, and individual lab reports in Appendix 2. For a summary of recent leachate trends, see the table on page 4 of Appendix 1. These October 2014 trends were visually estimated from the previous sampling event in May 2014.

Each of the nine individual solid-waste disposal phases or cells was sampled using the primary leachate pump in its corresponding pump house, with the assistance of NEWSVT staff. Also, a "combined leachate" sample was collected from the piping of the large above-ground combined leachate holding tank (AST) used to fill the trucks. The liquid in this AST is a combination of Primary leachate and Secondary detection-system liquids from all of the phases and cells of the lined landfill.

Solid waste was being placed in Phase IV during the sampling round in October 2014.

None of the lab results for the October 2014 leachate samples exceeded the Vermont Toxicity Characteristic concentrations (VT Hazardous Waste Management Regulations, March 2013).

A. Phase I Leachate: Primary

A sample of the primary Phase I leachate was obtained by pumping at the primary leachate sampling port located inside the Phase I leachate house. Summary results are found on pages 129-134 of Appendix 1. None of the lab results for the October 2014 Phase I primary leachate samples exceeded the Vermont Toxicity Characteristic concentrations (VT Hazardous Waste Management Regulations, March 2013).

Metals and other inorganics in the Phase I primary leachate showed increasing trends in October 2014. Total antimony (0.075 mg/L) was at its highest concentration to date, although this value is low; there is no Toxicity Characteristic. All other detected inorganics were generally within historical ranges.

Volatile Organic Compounds (VOCs) showed a generally decreasing trend in October 2014. Chlorobenzene (5.6 ug/L) was detected at a low concentration for only the second time (the first detection occurred in October 2013); however, this is well below the Toxicity Characteristic. T-butanol (958 ug/L) was detected at its lowest concentration to date, and it has been routinely detected since October 2007; there is no Toxicity Characteristic. 4-methyl-2pentanone (54.9 ug/L) was detected at its lowest concentration to date, although it has been routinely detected since October 1992; there is no Toxicity Characteristic. All other VOCs were generally within historical ranges.

Semi-volatile organic compounds (SVOCs) showed generally mixed trends in October 2014. All SVOCs are within historic ranges.

B. Phase II Leachate: Primary

A sample of the primary Phase II leachate was obtained by pumping at the primary leachate sampling port located inside the Phase II leachate house. Summary results are found on pages 135-139 of Appendix 1. None of the lab results for the October 2014 Phase II primary leachate sample exceeded the VT Toxicity Characteristic concentrations.

Metals and other inorganics in the Phase II primary leachate showed decreasing trends in October 2014. Total antimony (0.012 mg/L) decreased within historic ranges after it was detected at its highest concentration to date during the previous sampling event in May 2014. There is no Toxicity Characteristic for antimony, and this detection is quite low. Total sodium (2,100 mg/L) decreased within historic ranges after it was also detected at its highest concentration to date during previous sampling event in May 2014; it has no Toxicity Characteristic. Total nickel increased within its historic range after it was detected at its lowest concentration to date during the previous sampling event in May 2014. This is routinely detected and has always been below the Toxicity Characteristic standard. All other metals and other inorganics were within historic ranges.

VOCs showed generally decreasing trends in October 2014, with concentrations within historic ranges.

SVOCs showed generally decreasing trends in October 2014. Phenol and total cresol decreased after being detected at their highest concentrations during the previous sampling event in May 2014. Both of these have had routine detections; there is no Toxicity Characteristic for phenol, and this detection is well below the Toxicity Characteristic for total cresol (200,000 ug/L). Bis(2-

ethylhexyl) phthalate was non-detect after its highest concentration to date during the previous sampling event in May 2014, with only its third detection since May 2010. There is no Toxicity Characteristic. All other SVOC concentrations were within historic ranges.

C. Phase III Cell 1 Leachate: Primary

A sample of the primary Phase III Cell 1 leachate was obtained at the primary leachate sampling port located in the Phase III Cell 1 leachate house. Summary results are found on pages 140-144 of Appendix 1. None of the lab results for the October 2014 Phase III Cell 1 primary leachate sample exceeded the VT Toxicity Characteristic concentrations.

Metals and other inorganics in the Phase III Cell 1 primary leachate showed decreasing trends in October 2014, with exception of arsenic (1.5 mg/L), which was detected at its highest concentration to date, but below its Toxicity Characteristic of 5.0 mg/L. Total Kjeldahl-Nitrogen (1,900 mg/L) was detected at its highest concentration to date. There is no Toxicity Characteristic and it is routinely detected. All other metals and other inorganic compounds were within historic ranges.

VOCs showed increasing trends in October 2014, with all VOCs within historic ranges. SVOCs were non-detected this round, as has been the case since October 2010.

D. Phase III Cell 2 Leachate: Primary

A sample of the primary Phase III Cell 2 leachate was obtained at the primary leachate sampling port located in the Phase III Cell 2 leachate house. Summary results are found on pages 145-149 of Appendix 1. None of the lab results for the October 2014 Phase III Cell 2 primary leachate sample exceeded the VT Toxicity Characteristic concentrations.

Metals in the Phase III Cell 2 primary leachate showed mixed trends, and other inorganics showed increasing trends in October 2014. Total Kjeldahl-Nitrogen (1,800 mg/L) matched its highest concentration since October 2012. There is no Toxicity Characteristic and it is routinely detected. All other metals and other inorganic compounds were within historic ranges.

VOCs showed increasing trends in October 2014. 1,4-dichlorobenzene (10.8 ug/L), ethylbenzene (67.5ug/L) and styrene (26.0 ug/L) were detected at their highest concentrations to date. There are no Toxicity Characteristics for these compounds, and they are routinely detected in this leachate. All other VOCs were within historic ranges.

SVOCs were non-detected this round, as has been the case since October 2010.

E. Phase IV Cell 1 Leachate: Primary

Solid waste was being placed in Phase IV during the October 2014 sampling round. A sample of the primary Phase IV Cell 1 leachate was obtained at the primary leachate sampling port located in the Phase IV Cell 1 leachate house. Summary results are found on pages 150-154 of Appendix 1. None of the lab results for the May 2014 Phase IV Cell 1 primary leachate sample exceeded the VT Toxicity Characteristic concentrations.

Metals in the Phase IV Cell 1 primary leachate showed decreasing trends and other inorganics showed increasing trends in October 2014. Total antimony (0.015 mg/L), was at its highest concentration to date; there is no Toxicity Characteristic and it is routinely detected. Total arsenic (0.52 mg/L) and total chromium (0.34 mg/L) were detected at their highest concentrations to date, but well below their respective Toxicity Characteristics, and both are routinely detected. Total manganese (0.65 mg/L) was detected at its lowest concentration to date. Total Kjeldahl-Nitrogen (1,900 mg/L), total sodium (2,100 mg/L) and specific conductivity (18,020) were detected at their highest concentrations to date. There are no Toxicity Characteristics and they are all routinely detected. pH is within normal range after being detected at its highest concentration to date during the previous sampling event in May 2014. All other metals and other inorganic compounds were within historic ranges.

VOC concentrations showed increasing trends in October 2014. T-butanol (2,020 ug/L) was within normal ranges after being detected at its highest concentration to date during the previous sampling event in May 2014; there is no Toxicity Characteristic. All other detected VOCs were within historic ranges.

SVOC concentrations showed decreasing trends in October 2014. Naphthalene (26.2 ug/L) decreased and continues to be detected after its first detection in October 2013. Bis (2-ethylhexyl)phthalate (123 ug/L) was detected for the second time since May 2009; there is no Toxicity Characteristic. All other SVOCs were within historic ranges.

F. Phase IV Cell 2 Leachate: Primary

Solid waste was being placed in Phase IV during the October 2014 sampling round. A sample of the primary Phase IV Cell 2 leachate was obtained at the primary leachate sampling port located in the Phase IV Cell 2 leachate house. Summary results are found on pages 155-159 of Appendix 1. None of the lab results for the October 2014 Phase IV Cell 2 primary leachate sample exceeded the VT Toxicity Characteristic concentrations.

Metals in the Phase IV Cell 2 primary leachate showed decreasing trends and other inorganics showed increasing trends in October 2014. Total iron (18 mg/L) and total manganese (0.57 mg/L) were detected at their lowest concentrations to date. Total Kjeldahl-Nitrogen (2,000

mg/L), total sodium (2,700 mg/L) and specific conductivity (21,930) were detected at their highest concentrations to date. There are no Toxicity Characteristics and they are all routinely detected. All other metals and inorganics were within historic ranges.

VOC concentrations showed increasing trends in October 2014. T-butanol (1,990 ug/L) was detected at its highest concentration to date. There is no Toxicity Characteristic and it is routinely detected. 1,4-dichlorobenzene (5.5 ug/L) was detected for the second time since its first detection in October 2013, and is well below its Toxicity Characteristic. All other VOCs were within historic ranges.

SVOC concentrations showed increasing trends in October 2014. All compounds remain within historic ranges, and far below their Toxicity Characteristics.

G. Phase IV Cell 3A

Solid waste was being placed in Phase IV during the sampling round in October 2014. A sample of the primary Phase IV Cell 3 leachate was obtained at the primary leachate sampling port located in the Phase IV Cell 3 leachate house. Summary results are found on pages 160-164 of Appendix 1. None of the lab results for the October 2014 Phase IV Cell 3A primary leachate sample exceeded the VT Toxicity Characteristic concentrations.

Metals in the Phase IV Cell 3A primary leachate showed increasing trends and other inorganics showed decreasing trends in October 2014. pH was detected at its highest concentration to date; there is no Toxicity Characteristic. All other inorganic compounds were within historic ranges.

VOC concentrations showed decreasing trends in October 2014. T-butanol and ethylbenzene were within normal ranges after being detected at their highest concentrations to date during the previous sampling event in May 2014. 1,4-dichlorobenzene (5.4 ug/L) was detected for the third time since May 2013 but is still well below its Toxicity Characteristic. Benzene and toluene were detected at their lowest concentrations to date. All other VOCs were within historic ranges.

Trends in SVOC concentrations decreased in October 2014. 3&4-methylphenol and total cresol were detected at their lowest concentrations to date. All other SVOCs were within historic ranges and below Toxicity Characteristics.

H. Combined Leachate Above-Ground Storage Tank

A leachate sample was collected from the combined leachate above-ground storage tank (AST) from piping used to fill leachate trucks. The liquid in this AST is a combination of Primary leachate and Secondary detection-system liquids from all of the phases and cells of the lined landfill. This combined-leachate AST represents an estimated 95% (+/-) primary leachate, per

NEWSVT personnel. The sample was analyzed for total metals and other inorganics, volatile organics (by EPA Method 8260C), and semi-volatile organics (by EPA 8270C). Summary results are found on pages 165-169 of Appendix 1. None of the lab results for the October 2014 combined-leachate AST sample exceeded the VT Toxicity Characteristic concentrations.

Trends in metals concentrations in the AST sample decreased in October 2014, and trends in other inorganics increased. Total iron and total manganese were detected at their lowest concentrations to date. Total Kjeldahl-Nitrogen (1,400 mg/L) was detected at its highest concentration to date. There are no Toxicity Characteristics and it is routinely detected. All other inorganic compounds were within historical ranges.

Trends in VOC concentrations generally decreased in October 2014, with 4-isopropyl-toluene at its lowest concentration to date. Methylene chloride (25.5 ug/L) was detected for the second time since May 2007; there is no Toxicity Characteristic and this concentration is relatively low and not unexpected in landfill leachate. All other VOCs were within historic ranges.

Trends in SVOC concentrations decreased in October 2014, with all values remaining within historic ranges and below Toxicity Characteristics.

V. STATISTICAL ANALYSES OF EXCEEDANCES OF GROUNDWATER STANDARDS

Statistical Analyses

Statistical analyses using EasyFit of 95% confidence intervals were calculated on normalized data (when normalization was possible). In instances where the raw data are not normal, three transformations were conducted (natural log, square root, and exponential). If the transformed data also are not normal, the statistical analyses are conducted on whichever data form is closest to normality, as indicated by the sum of the absolute values of skewness and kurtosis being closest to zero.

We have compared groundwater standards with the lower 95% confidence level for each chemical parameter in groundwater that has ever exceeded its VGES standard (currently sampled wells only). This statistical test determines whether the historical data for the well indicate a statistically significant exceedance of a groundwater standard, in accordance with Section 12-704(2) of the *Groundwater Protection Rule & Strategy*. Summary tables are included in Appendix 1, pages 9-12.

B. Preliminary Analysis of Cause and Significance

Arsenic, iron, lead and manganese levels statistically exceed groundwater standards in many of the up-gradient and down-gradient wells at NEWSVT. These dissolved metals are common naturally-occurring compounds in Vermont groundwater. However, the standards exceedances are generally greater in magnitude in the down-gradient wells, reflecting impacts from the unlined landfill. Standards exceedances are also seen in a few of the up-gradient and down-gradient wells for three other metals (cadmium, mercury, and nickel). See the earlier discussion regarding trend evaluations, and differentiating between impacts from the unlined versus lined areas.

The statistical exceedances of groundwater standards for organic compounds in MW-A-1, MW-D-2, MW-P2-R and MW-410-R are also likely the result of migration of leachate containing low levels of these chemicals (including: methylene chloride, vinyl chloride, acetone, benzene, 2-butanone, toluene, and benzene) from the unlined landfill areas.

VI. QUALITY ASSURANCE/QUALITY CONTROL

Groundwater QA/QC:
Groundwater QA/QC trip blanks #1 and #2 were provided by the laboratory, which were stored in the same cooler as the groundwater samples. Results showed no detections, indicating acceptable sampling and laboratory procedures for groundwater samples in the October 2014 sampling round. See the summary table in Appendix 1, page 86; laboratory results are in Appendix 2. In October 2014, duplicate groundwater samples were collected from MW-D1R (Dup 1), MW-MW-P2R (Dup 2), and MW-MW-412R (Dup 3). Duplicate sample results for Dup-1, Dup-2 and Dup-3 were in close relation (concentrations in the duplicates had less than 45% relative differences).

Surface water QA/QC:
A surface-water QA/QC trip blank was provided by the laboratory, which was stored in the same cooler as the surface water samples. Results showed no detections, indicating acceptable sampling and laboratory procedures for surface water samples in the October 2014 sampling round. See the summary table in Appendix 1, page 110; laboratory results are in Appendix 2.

Underdrain QA/QC:
An underdrain QA/QC trip blank was provided by the laboratory, which was stored in the same cooler as the underdrain samples. Results showed no detections, indicating acceptable sampling and laboratory procedures for underdrain samples in the October 2014 sampling round. See the summary table in Appendix 1, page 126; laboratory results are in Appendix 2.

Leachate QA/QC:
A leachate QA/QC trip blank was provided by the laboratory, which was stored in the same cooler as the leachate samples. Results showed no detections, indicating acceptable sampling and laboratory procedures for leachate samples in the October 2014 sampling round. See the summary table in Appendix 1, page 170; laboratory results are in Appendix 2.

VII. GROUNDWATER DEPTHS AND ELEVATIONS

Depths to groundwater were measured in all groundwater monitoring wells (but not the drinking water wells). Tables and graphs of these measurements, showing all historic groundwater elevation data for each monitoring well, are included in Appendix 1 pages 171-193. On the whole, water levels were generally lower in October 2014 than in May 2014. A groundwater elevation contour map, with estimated flow directions, is included in Appendix 1, page 194.

VII. CONCLUSIONS AND RECOMMENDATIONS

Sampling was conducted on 10/6/14 through 10/9/14 by WHEM personnel in accordance with Conditions 46, 47 and 48 of NEWSVT's *Solid Waste Disposal Facility Certification* (effective October 18, 2010), and in accordance with SWMP's request to add MW-BRW-3S and 3D to this sampling round (per SWMP comment letter dated 1/28/2014).

Groundwater Sampling:

1. Groundwater levels across the site were generally lower in October 2014 than in May 2014. All groundwater depths were within historical ranges. Groundwater elevation contours and flowpaths are now available, and are shown on a map in Appendix 1. Groundwater flowpaths are generally to the west from lined Phases III and IV; to the northwest from Phase II, and to the north from Phase I and Unlined Areas A & B.

2. All samples (groundwater, surface water including underdrains, and leachate) were analyzed by Endyne, Inc., of Williston, Vermont.

3. WHEM conducted low-flow sampling on all monitoring wells which had sufficient water, following WHEM's low-flow sampling SOP. Wells with insufficient water for low-flow sampling methodology were purged and sampled using dedicated hand bailers. As per the SOP, wells were field-measured for depth to water, pH, temperature, specific conductivity, dissolved oxygen, pH, oxidation reduction potential and turbidity until readings stabilized, or one half hour passed; whichever came first, and samples were then collected.

4. October 2014 trends in monitoring in data were visually estimated from the previous sampling event in May 2014. More detailed trend analysis of all historic data of selected parameters exceeding GESs are currently being assembled and will be provided soon under separate cover.

5. Two new monitoring wells, BRW-3S and BRW-3D) were installed in May 2013 and September 2013, respectively, to assist in evaluating the groundwater quality near the northeast property boundary. At the request of the SWP, these two wells were added to the semi-annual sampling and reporting events.

6. Up-gradient of Lined and Unlined Landfills Inorganics: In the October 2014 sampling round, upgradient wells inorganic compounds showed upward trends in DW-21 (Office), MW-409, MW-705, MW-706, MW-801D-R, MW-804SR and the St. Onge well, while a downward trend was noted in 801BR-R.

7. Up-gradient of Lined and Unlined Landfills Organics: In October 2014, there were no VOCs detected in the up-gradient wells.

8. Down-gradient from Unlined Areas A & B Inorganics: In the October 2014 sampling round, inorganic compounds showed downward trends in MW-A1 and MW-P8. Upward trends were noted in MW-B1, MW-D1R, MW-P2R, MW-P5 and MW-412R. A mixed trend was noted in MW-D2. In February 2014, an upward trend was noted in BRW-1 and a downward trend was noted in BRW-2R. MW-P-8 and MW-412-R are possibly down-gradient, depending on the interpretation of flow directions.

9. Down-gradient from Unlined Areas A & B Organics: Groundwater samples are analyzed for VOCs by EPA Method 8260C. Four of the ten wells located down-gradient from the Unlined Areas A & B showed no detectable VOCs in October 2014 (MW-B1, MW-D1R, MW-P5 and MW-412R). MW-BRW-1 and BRW-2R were both non-detected for VOCs (and SVOCs) in February 2014. In the October 2014 sampling round, organic compounds showed upward trends in MW-D2 and P8, and downward trends were noted in MW-A1 and MW-P2R.

10. Down-gradient of lined Phases I-IV and not impacted by Unlined Areas A & B Inorganics: In the October 2014 sampling round, inorganic compounds showed downward trends in MW-E1, MW-P6 and BRW3S. Upward trends were noted in MW-103, MW-703, MW-805S, and BRW-3D.

11. Down-gradient of lined Phases I-IV and not impacted by Unlined Areas A & B Organics: Groundwater samples are analyzed for VOCs by EPA Method 8260C. BRW-3S, BRW-3D, MW-E1, MW-P6, MW-103, MW-703 and MW-805S were all non-detected for VOCs.

12. Two previous surficial aquifer monitoring wells were located in the zone immediately down-gradient of the lined landfill, MW-2R and MW-410R. During the fall of 2013, NEWSVT excavated solid waste and soils between the unlined landfill and the Phase I lined landfill, in the vicinity of these two wells. These wells were found to be constructed in or through solid waste and were decommissioned. Therefore, these two wells were not present during the May or October 2014 semi-annual groundwater sampling events. A proposed location for a replacement well has been provided by WHEM and NEWSVT to the SWP. Pending approval by the SWP, the well will be installed and ready for sampling during the May 2015 semi-annual sampling event.

13. Unusual values in groundwater results in May 2014:

13.A. Highest detections to date; values exceed Primary GESs:

- MW-706: Total manganese.
- MW-D2: Total Arsenic.

13.B. Highest detections to date; values are below Primary GESs:

- MW-412R: Total Chloride.

13.C. Highest detections to date; values exceed Secondary GESs:

- D2: Total Sodium
- BRW-2R: Dissolved Iron.

13.D. Highest detections to date; values are below Secondary GESs:

- MW-705: Total chloride.
- DW-21: Total Sodium.
- MW-P2R: Total Sodium (exceeds MAC)
- BRW-3D: Dissolved Iron (exceeds PAL).

13.E. Highest detections to date; parameters have no GESs:

- MW-801D-R: COD (exceeds MAC).
- MW-804SR: pH (No GES).
- MW-A1: Specific Conductivity (No GES).
- MW-412R: Specific Conductivity (No GES, exceeds MAC).
- BRW-3D: Specific Conductivity (No GES)
  pH (no GES)

13.F. Lowest detections to date, or first-time non-detections:

- MW-801BR-R: Total Iron (exceeds Secondary GES).
  pH (no GES).
- MW-801D-R: Specific Conductivity (No GES)
- BRW-3S: Total Iron (below secondary GES)
- MW-805S: Total Arsenic (below primary GES).
- MW-E1: Total arsenic (below primary GES).
  Total Cadmium (below primary GES).
  Total chromium (below primary GES).
- MW-A1: Toluene (below GES).
- MW-P2R: Toluene(below primary GES).
  1,2,4-trimethylbenzene (below primary GES).
- MW-P8: Total Manganese (exceeds primary GES).
  Total Nickel (below primary GES).

14. Arsenic, iron, lead and manganese levels statistically exceed groundwater standards in many of the up-gradient and down-gradient wells at NEWSVT. These dissolved metals are common naturally-occurring compounds in Vermont groundwater. However, the standards exceedances are generally greater in magnitude in the down-gradient wells, reflecting impacts from the unlined landfill. Standards exceedances are also seen in a few of the up-gradient and down-gradient wells for three other metals (cadmium, mercury, and nickel). See the earlier discussion regarding trend evaluations, and differentiating between impacts from the unlined versus lined areas.

15. The statistical exceedances of groundwater standards for organic compounds in MW-A1, MW-D2 and MW-P2-R are likely the result of migration of leachate containing low levels of these chemicals (including: methylene chloride, vinyl chloride, acetone, benzene, 2-butanone, toluene, and benzene) from the unlined landfill areas at NEWSVT.

16. No drinking water supplies are impacted by the NEWSVT facility.

Surface Water Sampling:

1. There are two upstream and six downstream surface water sampling locations at NEWSVT (in addition to the four underdrain outlets, which are summarized separately, below).

2. Downstream SW-6 had insufficient water and was not sampled, as has occurred in the past.

3. Inorganics concentrations at the surface water sampling locations did not show consistent trends in October 2014 compared to May 2014. As has been the case in previous years, Vermont Water Quality Standards were generally not exceeded, with the occasional exception of the Iron standard at a few locations, and arsenic in SW-7 (Eastern Stream; 7 ug/L compared to default VWQS of 2 us/L). Also there were possible technical exceedances of the Cadmium and Copper standards because the lab's detection levels are higher than the date-specific hardness-dependent calculated standards for those parameters.

4. In SW-3 (Landfill Brook Southeast; formerly referred to as "Landfill Brook Upstream"): chloride, sodium, hardness and specific conductivity all decreased within historic ranges after being detected at their highest concentrations to date during the previous sampling event in May 2014. Total arsenic and COD were detected at their lowest concentrations to date. All other inorganic compound concentrations remain within the normal ranges of historic values for this location, or were non-detected.

5. Volatile Organic Compounds (VOCs by Method 8260C) and Semi-Volatile Organic Compounds (SVOCs by Method 8270C) continued to be non-detected in May 2014 at all surface water sampling locations.

Underdrain Sampling:

1. There are four independent underdrain systems beneath the lined landfills at NEWSVT (one for each Phase). They consist of perforated pipes bedded in high-permeability drainage sand and stone located either in trenches or a continuous blanket beneath or within the engineered soil drainage system. The purpose of the underdrain systems is to isolate the lined landfills from groundwater, and to discharge the intercepted groundwater by gravity flow at separate locations on the lower slopes around the margins of the landfill.

2. NEWSVT personnel reported that the underdrain pipes were last flushed on September 23, 2014.

3. The October 2014 sampling results of the underdrain discharges give no indication of landfill impacts.

Leachate Sampling:

1. Solid waste was being placed in Phase IV during the sampling round in October 2014.

2. Eight leachate samples were collected on October 8, 2014; seven from the primary leachate collection systems of individual phases of the lined landfill, and one sample from the combined-leachate above-ground storage tank (AST). No samples were collected from the secondary leak-detection systems of individual phases of the lined landfill, per instructions from NEWSVT personnel.

3. Leachate samples from the seven individual phases of the landfill showed values generally within historical ranges, with no exceedances of the VT Toxicity Characteristics.

4. Results from the combined leachate AST tank were within historic ranges, with no unusual occurrences and no exceedances of the VT Toxicity Characteristics.

Trip Blank and Equipment Blank QA/QC Samples:

1. QA/QC trip blank samples were provided by the laboratory, and were stored in the same cooler as the groundwater samples, surface water samples, underdrain samples and leachate samples. The lack of detections of VOCs in these trip-blank samples indicated acceptable sampling and laboratory procedures for the October 2014 sampling round. The QA/QC equipment blank sample collected by WHEM from the low-flow sampling pump also had no VOC detections, indicating acceptable sampling and laboratory procedures in October 2014.

Based on the above conclusions, WHEM recommends the following:

1. Groundwater monitoring wells should continue to be sampled utilizing low-flow technology during the next semi-annual sampling event in May 2015 (and all future sampling rounds) for wells with enough water to be appropriately sampled by this method.

2. Monitoring should continue as it has in the past, in accordance with the currently approved schedule (semi-annual monitoring of ground and surface waters, quarterly monitoring of combined leachates).

3. During future sampling events, efforts will continue to minimize collection of high silt/sand groundwater samples, such as bailing known silty wells first, as soon as we arrive on-site. This will allow the wells to settle for as long as possible and the sample will be collected last.

4. A proposed location for a replacement well located between Unlined Areas A & B, and Phases 1 and II, has been provided by WHEM and NEWSVT to the SWP. Pending approval by the SWP, the well will be installed and ready for sampling during the May 2015 semi-annual sampling event.

5. We are in the process of preparing graphs and data tables of groundwater results for the three inorganic parameters that routinely exceed their Groundwater Enforcement Standards throughout the site: Dissolved Arsenic, Iron and Manganese. We are processing the data from the full periods of record. For some of the earlier sampling locations, we have data as far back as 1989. Some of these locations have been long-discontinued because they were located where lined solid waste cells have now been constructed. After the tables and graphs are finalized, we will provide trend evaluations of these data.

Sincerely,

Wendy Krembs (phone x103)
Staff Scientist

Craig Heindel, C.P.G. (phone x102)
Senior Hydrogeologist

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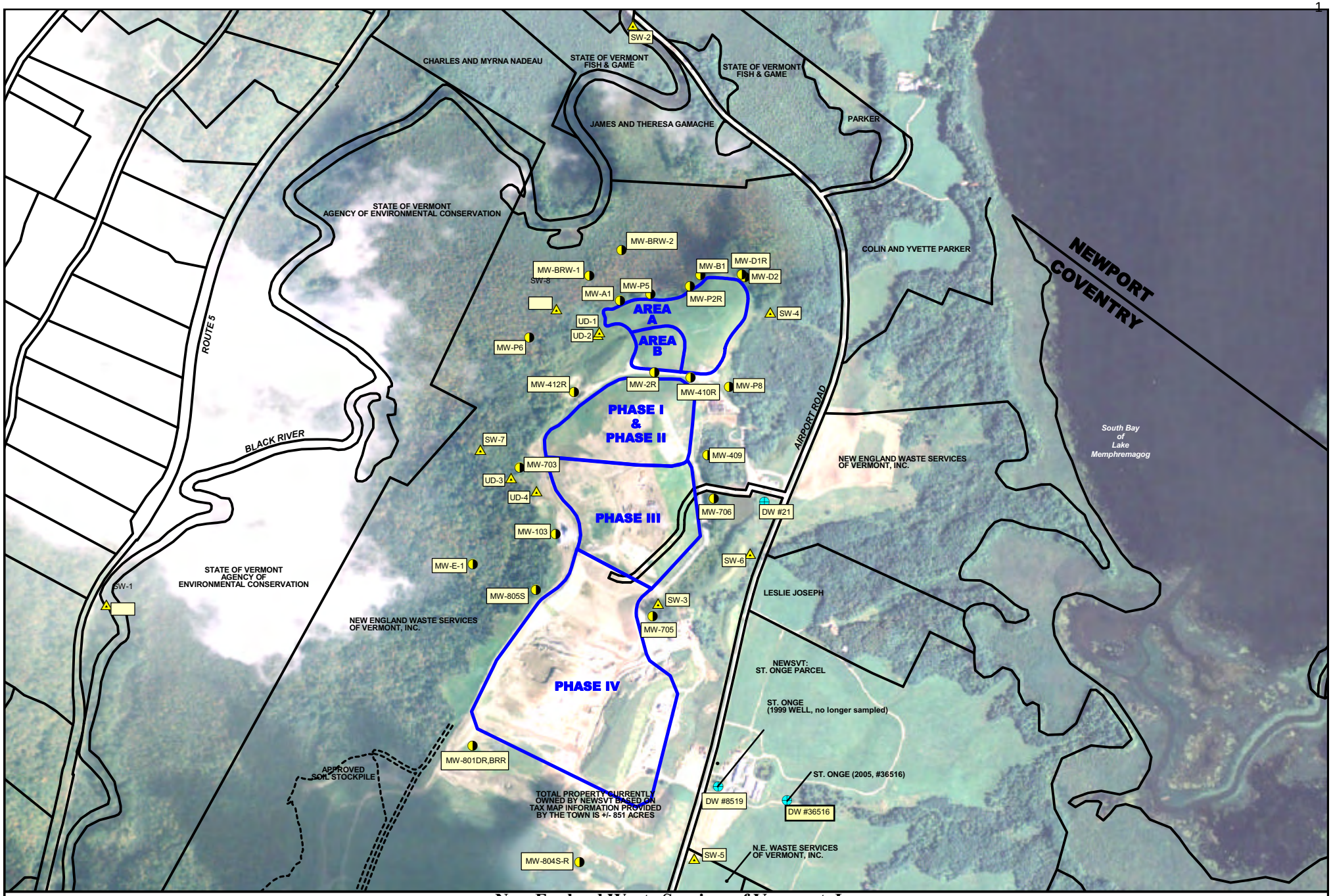
APPENDIX 1



Property Lines (Sanborn Head & Assoc.)

Landfill Footprint

NEWSVT Monitoring Locations:

- Monitoring Well Location
- Surface Water Station
- Drilled Well

December 5, 2012
D.W.Fuqua
C:\NEWSVT\Monitor.apr

New England Waste Services of Vermont, Inc.
Water Quality Monitoring Locations and Nearby Wells
Coventry, Vermont

Phases A, B, I, II, III, and IV

1000 0 1000 Feet

N W E S

AERIAL PHOTOGRAPHY FLOWN IN 2006.

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NEWSVT LANDFILLS
Coventry, Vermont
ESTIMATED RECENT GROUNDWATER QUALITY
Through October 2014

Location	Recent Estimated Trends*	
	Inorganics	Volatile Organics
Upgradient of lined and unlined landfills		
Office (#21)	U	ND
409	U	ND
705	U	ND
706	U	ND
801D-R	U	ND
801BR-R	D	ND
804S-R	U	ND
St. Onge 2005 Well (#36516)	U	ND
Between lined and unlined landfills		
2R (former)	Well has been decommissioned, and is no longer sampled as of May 2014	
410-R (former)	Well has been decommissioned, and is no longer sampled as of May 2014	
Downgradient of unlined Areas A & B		
A-1	D	D
B-1	U	ND
D-1R	U	ND
D-2	M	U
P-2R	U	D
P-5	U	ND
P-8 (possibly)	D	U
412-R (possibly)	U	ND
BRW-1^	U	ND
BRW-2^	D	ND
Downgradient of lined landfills, and not of unlined Areas A & B		
BRW-3S	D	ND
BRW-3D	U	ND
E1	D	ND
P-6	D	ND
103	U	ND
703	U	ND
805S	U	ND

^ BRW-1 and BRW-2 were sampled in February 2014

* Recent Trends visually estimated from previous sampling event

U = Concentrations generally up

D = Concentrations generally down

M = Mixed trend or no trend

ND = No chemicals detected

ID = Insufficient data points to determine trend

NS = Not Sampled

NEWSVT LANDFILLS
Coventry, Vermont
ESTIMATED RECENT SURFACE WATER QUALITY TRENDS
Through October 2014

Location		Recent Estimated Trends*		
Name	**Station Number**	**Inorganics, Metals**	**Volatile Organics**	**Semi-Volatile Organics**
Upstream				
Black River - upstream	SW-1	U	ND	ND
St. Onge Stream	SW-5	U	ND	ND
Downstream				
Black River - downstream	SW-2	U	ND	ND
Landfill Brook -downstream	SW-4	U	ND	ND
Landfill Brook - southeast	SW-3	D	ND	ND
Eastern Stream	SW-6	NS	NS	NS
Western Stream	SW-7	D	ND	ND
Wetland Below UD-1, 2	SW-8	U	ND	ND
Underdrain Outlet - Phase 1	UD-1	U	ND	ND
Underdrain Outlet - Phase 2	UD-2	D	M	ND
Underdrain Outlet - Phase 3	UD-3	D	ND	ND
Underdrain Outlet - Phase 4	UD-4	D	ND	ND

^ BRW-1 and BRW-2 sampled in February 2014
*Recent Trends are visually estimated from previous sampling event.
U = Concentrations generally up
D = Concentrations generally down
M = Mixed trend or no trend
ND = No chemicals detected
ID = Insufficient data to determine
NS = Not sampled (dry stream)

NEWSVT LANDFILLS
Coventry, Vermont
ESTIMATED RECENT LEACHATE QUALITY TRENDS
Through October 2014

LEACHATE: RECENT ESTIMATED TRENDS IN QUALITY*

Location	Metals	Other Inorganics	Volatile Organics (8260)	Semi-Volatile Organics (8270)
Phase I:				
Primary and Secondary Combined	NS	NS	NS	NS
Primary	**UP**	**UP**	**DOWN**	**MIXED**
Secondary	NS	NS	NS	NS
Phase II:				
Primary and Secondary Combined	NS	NS	NS	NS
Primary	**DOWN**	**DOWN**	**DOWN**	**DOWN**
Secondary	NS	NS	NS	NS
Phase III:				
Cell 1 Primary and Secondary Combined	NS	NS	NS	NS
Cell 1 Primary	**DOWN**	**DOWN**	**UP**	**ND**
Cell 1 Secondary	NS	NS	NS	NS
Cell 2 Primary and Secondary Combined	NS	NS	NS	NS
Cell 2 Primary	**MIXED**	**UP**	**UP**	**ND**
Cell 2 Secondary	NS	NS	NS	NS
Phase IV:				
Cell 1 Primary and Secondary Combined	NS	NS	NS	NS
Cell 1 Primary	**DOWN**	**UP**	**UP**	**DOWN**
Cell 1 Secondary	NS	NS	NS	NS
Cell 2 Primary and Secondary Combined	NS	NS	NS	NS
Cell 2 Primary	**DOWN**	**UP**	**UP**	**UP**
Cell 2 Secondary	NS	NS	NS	NS
Cell 3A Primary	**UP**	**DOWN**	**DOWN**	**DOWN**
Combined Leachate in Above-Ground Storage Tank:				
Primary and Secondary Combined	**DOWN**	**UP**	**DOWN**	**DOWN**

* Estimated trends are visually estimated from the previous sampling event.

ID = Insufficient data to estimate trends (not enough data points).

NS = Not sampled in the reported sampling round, because the average flow was < 20 gallons/acre/day.

ND = Non Detect, below laboratory detection limits

NEWSVT LANDFILLS
Coventry, Vermont
Water Quality Standards Exceedances
In October 2014 Groundwater

Monitor Well	ES	PAL	HA	MCL	MAC
UPGRADIENT OF LINED AND UNLINED LANDFILLS					
Office (#21)	--	--	--	--	--
St. Onge Well 2005, (#36516)	Total Arsenic	Total Arsenic	--	Total Arsenic	--
	--	Total Chloride	--	--	--
		Total Manganese			
	--	--	--	--	Total Sodium
409	--	Total Arsenic	--	--	--
	Total Iron	Total Iron	Total Iron		
	Total Manganese	Total Manganese	--	--	
705	Total Arsenic	Total Arsenic	--	Total Arsenic	--
	Total Iron	Total Iron	Total Iron	--	--
	Total Manganese	Total Manganese	Total Manganese	--	--
	Diss. Manganese	Diss. Manganese	Diss. Manganese	--	--
706	--	Total Arsenic	--	--	--
	Total Iron	Total Iron	Total Iron	--	--
	Total Manganese	Total Manganese	Total Manganese	--	--
	Diss. Manganese	Diss. Manganese	Diss. Manganese	--	--
801-D-R	Total Iron	Total Iron	Total Iron	--	--
	--	--	--	--	COD
	--	--	pH	--	--
801-BR-R	--	Total Arsenic	--	--	--
	Total Iron	Total Iron	Total Iron	--	--
	Total Manganese	Total Manganese	Total Manganese	--	--
	Diss. Manganese	Diss. Manganese	Diss. Manganese	--	--
804-S-R	Totlal Iron	Total Iron	Total Iron	--	--
	Total Manganese	Total Manganese	Total Manganese	--	--
	--	--	--	--	Specific Conductance
BETWEEN LINED AND UNLINED LANDFILLS					
2-R	Well has been decomissioned, and is no longer sampled as of May 2014				
410R	Well has been decomissioned, and is no longer sampled as of May 2014				
CROSS GRADIENT OF LINED AND UNLINED LANDFILLS					
BRW-3S	Total Manganese	Total Manganese	Total Manganese	--	--
	Diss. Manganese	Diss. Manganese	Diss. Manganese	--	--
BRW-3D	Total Arsenic	Total Arsenic	--	Total Arsenic	--
	Total Iron	Total Iron	Total Iron	--	--
	--	Dissolved Iron	--	--	--

NEWSVT LANDFILLS
Coventry, Vermont
Water Quality Standards Exceedances
In October 2014 Groundwater

Monitor Well	ES	PAL	HA	MCL	MAC
DOWNGRADIENT OF LINED AND UNLINED LANDFILLS					
A1	Total Arsenic	Total Arsenic	--	Total Arsenic	--
	Total Iron	Total Iron	Total Iron	--	--
	Dissolved Iron	Dissolved Iron	Dissolved Iron	--	--
	Total Manganese	Total Manganese	Total Manganese	--	--
	Diss. Manganese	Diss. Manganese	Diss. Manganese	--	--
	Benzene	Benzene	--	Benzene	--
	Vinyl Chloride	Vinyl Chloride	--	Vinyl Chloride	--
B-1	Total Arsenic	Total Arsenic	--	Total Arsenic	--
	--	Total Iron	--	--	--
	--	Total Manganese	--	--	--
	--	Diss. Manganese	--	--	--
BRW-1*	--	Total Arsenic	--	--	--
	Total Iron	Total Iron	Total Iron	--	--
	Dissolved Iron	Dissolved Iron	Dissolved Iron	--	--
	Total Manganese	Total Manganese	Total Manganese	--	--
	Diss. Manganese	Diss. Manganese	Diss. Manganese	--	--
BRW-2*	--	Total Arsenic	--	--	--
	Total Iron	Total Iron	Total Iron	--	--
	Dissolved Iron	Dissolved Iron	Dissolved Iron	--	--
	Total Manganese	Total Manganese	Total Manganese	--	--
	Diss. Manganese	Diss. Manganese	Diss. Manganese	--	--
D-1R	Total Arsenic	Total Arsenic	--	Total Arsenic	--
	Total Iron	Total Iron	Total Iron	--	--
	Total Manganese	Total Manganese	Total Manganese	--	--
	Diss. Manganese	Diss. Manganese	Diss. Manganese	--	--
D-2	Total Arsenic	Total Arsenic	--	Total Arsenic	--
	Total Nickel	Total Nickel	Total Nickel	--	--
	--	Total Chloride	--	--	--
	Total Iron	Total Iron	Total Iron	--	--
	Dissolved Iron	Dissolved Iron	Dissolved Iron	--	--
	Total Manganese	Total Manganese	Total Manganese	--	--
	Diss. Manganese	Diss. Manganese	Diss. Manganese	--	--
	Acetone	Acetone	Acetone	--	--
	2-Butanone	2-Butanone	2-Butanone	--	--
	--	--	--	--	COD
	Total Sodium	Total Sodium	--	--	Total Sodium
	--	--	--	--	Specific Conductance
E-1	--	Total Arsenic	--	--	--
	Total Iron	Total Iron	Total Iron	--	--
	Total Manganese	Total Manganese	Total Manganese	--	--
	Diss. Manganese	Diss. Manganese	Diss. Manganese	--	--

NEWSVT LANDFILLS
Coventry, Vermont
Water Quality Standards Exceedances
In October 2014 Groundwater

Monitor Well	ES	PAL	HA	MCL	MAC
P-2-R	Total Arsenic	Total Arsenic	--	Total Arsenic	--
	--	Total Chromium	--	--	--
	--	Total Lead	--	--	--
	Total Nickel	Total Nickel	Total Nickel	--	--
	Total Chloride	Total Chloride	Total Chloride	--	--
	Total Iron	Total Iron	Total Iron	--	--
	Dissolved Iron	Dissolved Iron	Dissolved Iron	--	--
	Total Manganese	Total Manganese	Total Manganese	--	--
	Diss. Manganese	Diss. Manganese	Diss. Manganese	--	--
	--	1,2-Dichlororethane	--	--	--
	--	Total Sodium	--	--	Total Sodium
	--	--	--	--	Specific Conductance
P-5	--	Total Arsenic	--	--	--
	Total Manganese	Total Manganese	Total Manganese	--	--
	Diss. Manganese	Diss. Manganese	Diss. Manganese	--	--
P-6	Total Iron	Total Iron	Total Iron	--	--
	Total Manganese	Total Manganese	Total Manganese	--	--
	Diss. Manganese	Diss. Manganese	Diss. Manganese	--	--
P-8	Total Arsenic	Total Arsenic	--	Total Arsenic	--
	Total Iron	Total Iron	Total Iron	--	--
	Dissolved Iron	Dissolved Iron	Dissolved Iron	--	--
	Total Manganese	Total Manganese	Total Manganese	--	--
	Diss. Manganese	Diss. Manganese	Diss. Manganese	--	--
103	--	Total Arsenic	--	--	--
	Total Iron	Total Iron	Total Iron	--	--
	Total Manganese	Total Manganese	Total Manganese	--	--
412R	Total Arsenic	Total Arsenic	--	Total Arsenic	
	Total Iron	Total Iron	Total Iron	--	--
	Dissolved Iron	Dissolved Iron	Dissolved Iron	--	--
	Total Manganese	Total Manganese	Total Manganese	--	--
	Diss. Manganese	Diss. Manganese	Diss. Manganese	--	--
	--	--	--	--	COD
	--	--	--	--	Specific Conductance
703	--	Total Arsenic	--	--	--
	--	Total Iron	--	--	--
	Total Manganese	Total Manganese	Total Manganese	--	--
	Diss. Manganese	Diss. Manganese	Diss. Manganese	--	--
	--	--	--	--	COD
805S	--	Total Arsenic	--	--	--
	--	Total Lead	--	--	--
	Total Iron	Total Iron	Total Iron	--	--
	--	Total Manganese	--	--	--

ES = Vermont Groundwater Enforcement Standards (Primary Standards: Table 1, Groundwater Protection Rule and Strategy (GWPRS), 2005
PAL = Vermont Preventive Action Level (Primary Standards: Table 1, GWPRS, 2005
HA = Vermont Health Advisory from Vermont Department of Health Drinking Water Guidance (February 2005)
MCL = Federal Maximum Contaminant Level (December 1998)
'--' = No exceedances of Vermont [Ground]Water Quality Standards in October 2013
* = MW-BRW-1 and -2 were sampled on February 24, 2014

NEWSVT LANDFILLS Coventry, Vermont Water Quality Standards Exceedances In October 2014 Surface Water	
Location	**Exceedance***
	Appendix C Standards*
SW-1: Black River Upstream	Total Cadmium [1] Total Copper [1]
SW-2: Black River Downstream	Total Cadmium [1] Total Copper [1]
SW-3: Landfill Brook Southeast	None
SW-4: Landfill Brook Downstream	None
SW-5: St. Onge Stream	None
SW-6: Eastern Stream	NS
SW-7: Western Stream	Total Arsenic [2]
SW-8: Wetland Below UD-1, 2	Total Iron
Phase 1 Underdrain Outlet	None
Phase 2 Underdrain Outlet	Total Arsenic [2]
Phase 3 Underdrain Outlet	Total Arsenic [2]
Phase 4 Underdrain Outlet	None

* Vermont [Surface] Water Quality Standards, effective December 30, 2011.

Appendix C (Water Quality Criteria for the Protection of Human Health: consumption of organisms only). Some standards are hardness dependent, a calculation sheet follows the data summary tables.

NS = Not Sampled because the stream or underdrain was dry.

[1] Possible WQ std. exceedance, because lab detection limit is higher than hardness-dependent WQ std in May 2014.

[2] Arsenic, Mercury: VT Surface Water Std. is the ANR Laboratory's Practical Quantitation Limit, for the specific purposes of SWMD, per telecom S. Bushman, SWMD, 9/7/93

NEWSVT Landfills
Coventry, Vermont
INORGANICS in Groundwater
Statistical Exceedances of Groundwater Standards
as of October 2014
(currently sampled wells only)

Monitor Well	Parameter	Lower 95% Confidence Level	Groundwater Quality Standards			
			Primary Standards [1]		Secondary Standards [2]	
			ES	PAL	ES	PAL
		(mg/l; ppm)	(mg/l) (ppm)	(mg/l) (ppm)	(mg/l) (ppm)	(mg/l) (ppm)
A-1	Total Arsenic	0.013	0.01	0.001	--	--
	Total Mang.	0.316	0.3	0.15	0.05	0.025
	Diss. Mang.	0.330	0.3	0.15	0.05	0.025
B-1	Total Arsenic	0.024	0.01	0.001	--	--
	Total Lead	0.0044	0.015	0.0015	--	--
	Total Iron	2.86	--	--	0.3	0.15
	Total Mang.	0.165	0.3	0.15	0.05	0.025
	Diss. Mang.	0.046	0.3	0.15	0.05	0.025
BRW-1	Total Arsenic	0.002	0.01	0.001	--	--
	Total Iron	31.40	--	--	0.3	0.15
	Diss. Iron	16.32	--	--	0.3	0.15
	Total Mang.	0.996	0.3	0.15	0.05	0.025
	Diss. Mang.	0.964	0.3	0.15	0.05	0.025
BRW-2R	Total Arsenic	0.001	0.01	0.001	--	--
	Diss. Iron	0.55	--	--	0.3	0.15
	Total Mang.	0.056	0.3	0.15	0.05	0.025
	Diss. Mang.	0.144	0.3	0.15	0.05	0.025
BRW-3S	Total Mang.	0.077	0.3	0.15	0.05	0.025
	Diss. Mang.	0.077	0.3	0.15	0.05	0.025
BRW-3D	Total Arsenic	0.007	0.01	0.001	--	--
	Total Iron	-0.10	--	--	0.3	0.15
	Total Mang.	0.030	0.3	0.15	0.05	0.025
MW-D1R	Total Arsenic	0.015	0.01	0.001	--	--
	Total Lead	0.0018	0.015	0.0015	--	--
	Total Iron	1.45	--	--	0.3	0.15
	Total Mang.	0.149	0.3	0.15	0.05	0.025
	Diss. Mang.	0.059	0.3	0.15	0.05	0.025
MW-D2	Total Arsenic	0.050	0.01	0.001	--	--
	Total Cadmium	0.0028	0.005	0.0025	--	--
	Total Lead	0.002	0.015	0.0015	--	--
	Total Chloride	245	--	--	250	125
	Total Iron	41.57	--	--	0.3	0.15
	Diss. Iron	1.30	--	--	0.3	--
	Total Mang.	2.508	0.3	0.15	0.05	0.025
	Diss. Mang.	2.423	0.3	0.15	0.05	0.025
MW-E1	Total Arsenic	0.016	0.01	0.001	--	--
	Total Cadmium	0.0087	0.005	0.0025	--	--
	Total Lead	0.0040	0.015	0.0015	--	--
	Total Iron	3.20	--	--	0.3	0.15
	Total Mang.	12.564	0.3	0.15	0.05	0.025
	Diss. Mang.	0.286	0.005	0.0025	--	--

NEWSVT Landfills
Coventry, Vermont
INORGANICS in Groundwater
Statistical Exceedances of Groundwater Standards
as of October 2014
(currently sampled wells only)

Monitor Well	Parameter	Lower 95% Confidence Level	Groundwater Quality Standards			
			Primary Standards [1]		Secondary Standards [2]	
			ES	PAL	ES	PAL
		(mg/l; ppm)	(mg/l) (ppm)	(mg/l) (ppm)	(mg/l) (ppm)	(mg/l) (ppm)
MW-P-2R	Total Arsenic	0.153	0.01	0.001	--	--
	Tot. Cadmium	0.0025	0.005	0.0025	--	--
	Total Lead	0.0076	0.015	0.0015	--	--
	Total Nickel	0.14	0.1	0.05	--	--
	Total Chloride	365	--	--	250	125
	Total Iron	47.83	--	--	0.3	0.15
	Diss. Iron	12.57	--	--	0.3	--
	Total Mang.	0.921	0.3	0.15	0.05	0.025
	Diss. Mang.	0.443	0.3	0.15	0.05	0.025
MW-P-5	Total Arsenic	0.004	0.01	0.001	--	--
	Total Lead	0.0025	0.015	0.0015	--	--
	Total Iron	1.23	--	--	0.3	0.15
	Total Mang.	0.308	0.3	0.15	0.05	0.025
	Diss. Mang.	0.104	0.3	0.15	0.05	0.025
MW-P-6	Total Arsenic	0.003	0.01	0.001	--	--
	Total Lead	0.0034	0.015	0.0015	--	--
	Total Iron	13.18	--	--	0.3	0.15
	Total Mang.	0.606	0.3	0.15	0.05	0.025
	Diss. Mang.	0.222	0.3	0.15	0.05	0.025
MW-P-8	Total Arsenic	0.063	0.01	0.001	--	--
	Tot. Cadmium	0.0029	0.005	0.0025	--	--
	Total Lead	0.0066	0.015	0.0015	--	--
	Tot. Mercury	0.0005	0.002	0.0005	--	--
	Total Iron	53.87	--	--	0.3	0.15
	Diss. Iron	15.00	--	--	0.3	0.15
	Total Mang.	4.491	0.3	0.15	0.05	0.025
	Diss. Mang.	4.143	0.3	0.15	0.05	0.025
MW-103	Total Arsenic	0.003	0.01	0.001	--	--
	Total Iron	0.76	--	--	0.3	0.15
	Total Mang.	0.067	0.3	0.15	0.05	0.025
MW-409	Total Arsenic	0.003	0.01	0.001	--	--
	Total Lead	0.0023	0.015	0.0015	--	--
	Total Iron	4.86	--	--	0.3	0.15
	Total Mang.	0.169	0.3	0.15	0.05	0.025

NEWSVT Landfills
Coventry, Vermont
INORGANICS in Groundwater
Statistical Exceedances of Groundwater Standards
as of October 2014
(currently sampled wells only)

Monitor Well	Parameter	Lower 95% Confidence Level	Groundwater Quality Standards			
			Primary Standards [1]		Secondary Standards [2]	
			ES	PAL	ES	PAL
		(mg/l; ppm)	(mg/l) (ppm)	(mg/l) (ppm)	(mg/l) (ppm)	(mg/l) (ppm)
MW-412-R	Total Arsenic	0.011	0.01	0.001	--	--
	Total Lead	0.0017	0.015	0.0015	--	--
	Total Iron	4.61	--	--	0.3	0.15
	Diss. Iron	1.82	--	--	0.3	0.15
	Diss. Mang.	0.775	0.3	0.15	0.05	0.025
	Total Mang.	0.708	0.3	0.15	0.05	0.025
MW-703	Total Arsenic	0.007	0.01	0.001	--	--
	Total Lead	0.0022	0.015	0.0015	--	--
	Total Iron	0.94	--	--	0.3	0.15
	Total Mang.	0.369	0.3	0.15	0.05	0.025
	Diss. Mang.	0.133	0.3	0.15	0.05	0.025
MW-705	Total Arsenic	0.005	0.01	0.001	--	--
	Total Lead	0.0017	0.015	0.0015	--	--
	Total Iron	0.56	--	--	0.3	0.15
	Total Mang.	0.156	0.3	0.15	0.05	0.025
	Diss. Mang.	0.063	0.3	0.15	0.05	0.025
MW-706	Total Arsenic	0.003	0.01	0.001	--	--
	Total Iron	0.40	--	--	0.3	0.15
	Total Mang.	0.118	0.3	0.15	0.05	0.025
MW-801BR-R	Total Iron	2.35	--	--	0.3	0.15
	Total Mang.	0.031	0.3	0.15	0.05	0.025
MW-801D-R	Total Arsenic	0.004	0.01	0.001	--	--
	Total Iron	1.27	--	--	0.3	0.15
	Total Mang.	0.065	0.3	0.15	0.05	0.025
	Diss. Mang.	0.051	0.3	0.15	0.05	0.025
MW-804SR	Total Arsenic	0.002	0.01	0.001	--	--
	Total Lead	0.0022	0.015	0.0015	--	--
	Total Iron	0.82	--	--	0.3	0.15
	Total Mang.	0.061	0.3	0.15	0.05	0.025
MW-805S	Total Arsenic	0.007	0.01	0.001	--	--
	Total Lead	0.0057	0.015	0.0015	--	--
	Total Iron	6.97	--	--	0.3	0.15
	Total Mang.	0.250	0.3	0.15	0.05	0.025
#21 Office	Total Mang.	0.031	0.3	0.15	0.05	0.025
	Diss. Mang.	1.092	0.3	0.15	0.05	0.025
St. Onge Farm Well (2005, #36516)	Total Arsenic	0.008	0.01	0.001	--	--
	Total Chloride	182	--	--	250	125
	Total Mang.	0.030	0.3	0.15	0.05	0.025
	Diss. Mang.	0.030	0.3	0.15	0.05	0.025
MW-2R	Well has been decommissioned and is no longer sampled as					
MW-410R	Well has been decommissioned and is no longer sampled as					

[1] VT Primary Groundwater Enforcement Standards (GES) and Preventive Action Levels (PALs) from Table 1, Groundwater Protection Rule & Strategy (GWPRS), 2005. As of 2/26/2007, the Primary GES for Manganese was changed to 0.300 mg/L and the PAL changed to 0.150 mg/L.

[2] VT Secondary GES and PALs from Table 2, GWPRS, 2005.

"--" means no standard.

NEWSVT Landfills Coventry, Vermont ORGANICS in Groundwater Statistical Exceedances of Groundwater Standards as of October 2014 (currently sampled wells only)				
Monitor Well	**Parameter**	**Lower 95% Confidence Level (ug/l; ppb)**	**Groundwater Quality Standards**	
			Primary Standards [1]	
			ES	**PAL**
			(ug/l) (ppb)	**(ug/l) ppb)**
MW-A1	Benzene	3.0	5	0.5
	Methylene Chloride	10.3	5	0.5
	Vinyl Chloride	2.9	2	0.5
MW-D2	Acetone	7,147	700	350
	Benzene	6.9	5	0.5
	2-Butanone (MEK)	12,191	4,200	2,100
	Methylene Chloride	17.7	5	0.5
	Trichloroethene	1.3	5	0.5
MW-P2R	Benzene	3.7	5	0.5
	Methylene Chloride	22.6	5	0.5
	Toluene	559.9	1,000	500
MW-2R	Well has been decommissioned and is no longer sampled as of May 2014			
MW-410R	Well has been decommissioned and is no longer sampled as of May 2014			

[1] VT Primary Groundwater Enforcement Standards (GES) and Preventive Action Levels (PALs) from Table 1, Groundwater Protection Rule & Strategy (GWPRS), 2005.

VERMONT

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AGENCY OF NATURAL RESOURCES

October 24, 2014

John Gay, Permits, Compliance & Engineering (via email)
New England Waste Services, Inc.
220 Avenue B
Williston, VT 05495

RE: New England Waste Services Spring 2014 Semi-Annual Water Quality Monitoring and Down-Gradient Property Boundaries Reports

Mr. Gay,

The Solid Waste Management Program (SWMP) has received and reviewed both the Spring 2014 Semi-Annual Water Quality Monitoring Report and the Groundwater Quality at Down-Gradient Property Boundaries Report prepared by Waite-Heindel Environmental Management (WHEM) on behalf of New England Waste Services of Vermont (NEWSVT). The semi-annual groundwater and surface water monitoring and reporting is required by NEWSVT's Solid Waste Facility certification and this submission is in compliance with Conditions 46-48 and 55-56. The well installation, monitoring and reporting at the property boundary was performed in an effort to demonstrate compliance with the Groundwater Protection Rule and Strategy and Public Trust Doctrine.

Semi-annual Groundwater Monitoring
Thank you for generally addressing the comments presented in the review letter in response to the Fall 2013 semi-annual report. However, there are several comments and remaining or new considerations which may require further attention prior to the Fall 2014 reporting.

Discussion of Sampling Results

A. In the eight up-gradient monitoring wells exceedances of the Vermont Groundwater Enforcement Standards (VGES) were reported for As, Mn and Fe. Many of the detected concentrations were significantly lower during this sampling round in comparison to the October 2013 sampling period. No volatile organic compounds (VOCs) were detected in any up-gradient wells. These exceedance levels for inorganics in up-gradient wells indicate some elevated background concentrations in the region; however, the concentrations are lower than the detected down-gradient concentrations indicating some landfill impact.

B. VOC concentrations above the VGES were detected in three monitoring wells (MW-A1, MW-D2 and MW-P2R). These three wells are all located in near vicinity to the unlined landfill (between 200 and 400 feet from landfill edge) and historically have had comparable VOC concentrations. Only one other well reported a VOC detection, though well below enforcement standards. This low level detection of total xylenes (5 ppb) in MW-103 is not the first detection of VOCs in

this monitoring well (2012-benzene and MEK; 2009-acetone), though concentrations have always been significantly below standards.

C. Conclusion 11 for the groundwater sampling states: ". . . However, the standards exceedances are generally greater in magnitude in the down-gradient wells, reflecting likely impacts from the unlined landfill." While the SWMP does not disagree that this statement may be relevant to the down-gradient wells that indicate some of the highest contaminant concentrations, it does not encompass all of the down-gradient wells at the site with contamination. MW-E1 is an example of a down-gradient well that is not in direct connection with the unlined landfill, which has fluctuating contaminant concentrations and exceedances. In the last year this well has had exceedances for As, Fe and Mn, the most common contaminants at the site, but also Pb and Cd. The detected contaminants that cannot be directly related to the unlined landfill need to be discussed more thoroughly within the water quality reports.

D. Conclusion 2 for the surface water sampling states: ". . . Vermont Water Quality Standards were generally not exceeded, with the occasional exception of the Iron standard at a few locations, . . ." The summary of detections in the reports states that arsenic was detected above the VWQS in three of the six surface water sampling locations (SW-3, SW-6 and SW-7). Though the arsenic exceedances are more sporadic than the iron, they are significant and do inform us about water quality, please more clearly address all surface water exceedances in future reports.

General Comments:

1. In November and December of 2013, excavations were made to remove waste between the unlined and Phase I and Phase II landfills. During this work, MW-2R and MW-410R were determined to be unviable given their proximity to waste and were decommissioned. Discussions since this decommissioning have occurred between NEWSVT and the SWMP regarding whether a replacement well would be required to be reinstalled as per the submitted work plan, or if replacement was unnecessary given the incomplete removal of waste and the inability to fully identify the waste boundaries in the region between the lined and unlined landfills. To date, a determination has been not made regarding this matter. It is the SWMP position that a replacement well would provide valuable information regarding the buffer-zone between the unlined and lined landfills should further contamination ever be detected in down-gradient wells. It was our understanding that WHEM was going to explore whether or not replacement of a well in the general vicinity between the lined and unlined landfill would be of beneficial use for the long-term monitoring of this site and to suggest a course of action.

2. The semi-annual monitoring reports often refer to specific contaminants or wells as having 'generally increasing/decreasing trends'. It is unclear what is represented by these temporal trends. Please clarify in future reports what is intended by these statements. Are these trends calculated temporal trends, visual trend estimates and/or determined over the whole sampling period, the most recent sampling period or only in comparison to the last sampling round?

3. Turbidity is discussed as being measured to stabilization, as a SOP parameter, in order to determine sufficient flushing prior to obtaining a sample. Please report this stabilized turbidity reading within the monitoring reports as it may inform some of the high metal concentrations.

Groundwater Quality at Down-Gradient Property Boundaries; NEWSVT Report
This work is not part of the semi-annual water quality monitoring required by the certification, rather it was completed to demonstrate compliance with the Groundwater Protection Rule and Strategy as part of the pending recertification for the landfill. This work added six new monitoring wells along the landfill property boundary which has been identified as the point of compliance. These new wells were sampled throughout the spring of 2014, overlapping with the period of the Semi-Annual Water Quality monitoring event discussed above.

Discussion of Results:

A. During the initial sampling rounds of the new monitoring wells volatile organic compounds and semi-volatile organic compounds were analyzed for in all samples. As all contaminants were non-detect in all samples, VOC and SVOC sampling was not required in further monitoring events. This is particularly informative for BRW-4S and BRW-5S which are down-gradient to side-gradient of the unlined landfill and the wells that do regularly report VOC contamination.

B. The ability to include the groundwater elevations from the nine new landfill distal monitoring wells allowed for the groundwater flow paths to be better defined for this site. This was particularly informative for the northeasterly corner of the property where the redefined flow paths indicate that the groundwater flow path length from the unlined landfill to the property boundary and the Black River is longer than previously anticipated due to a hydraulic barrier which apparently concentrates flow to the west and towards BRW-5S. Flow direction is also complicated in the northwestern portion of the property, near BRW-7S, where the low gradient across these broad, flat wetlands makes it difficult to determine true flow direction.

C. The three contaminants of primary concern for this site, As, Fe, Mn were detected in the compliance point monitoring wells. Arsenic was detected in one of the monitoring wells above the PGES, while iron was detected above the SGES in all of the wells and Mn was detected above the PGES in all but one of the monitoring wells. Total and dissolved Fe and Mn was both analyzed for within this sampling round and results show that the dissolved phase is the dominant phase present in the groundwater at the property boundary.

Comments and Continued Work:

1. I was unable to locate the measured field parameters for the individual monitoring wells with this report. Please submit these measured parameters (pH, specific conductivity, turbidity etc.) in future reports related to monitoring of these wells.

2. The report points to lowered dissolved oxygen, and acidic conditions within the wetlands monitoring wells in comparison to upland wells as evidence of the naturally reducing conditions within the wetlands (pg. 4)

3. The elevated arsenic concentrations within BRW-9S is puzzling. The average of 46 µg/l is significantly higher than any other measured arsenic concentrations on the site. The fact that arsenic has been detected in the up-gradient wells (St. Onge bedrock well at 11 µg/l in May 2014) does indicate that there is natural arsenic present in the background conditions. The additional fact that arsenic is detected at lower concentrations between BRW-9S and the landfill (e.g. MW-E1 and MW-703) is indicative of the elevated arsenic concentrations at this down-gradient point being unusual, though there are no monitoring wells truly located along the direct groundwater flow path from the landfill to BRW-9S. In an April 17, 2014 quarterly meeting between NEWSVT staff, consultants and the SWMP, there was some discussion of a disturbance in the vicinity of BRW-9S potentially related to historic gravel

excavation or automotive disposal. This disturbance was not mentioned in the submitted report, but may influence the interpretation of contaminant concentrations at BRW-9S. It will need to be better demonstrated that the elevated arsenic concentrations are anomalous, localized and unrelated to landfill impact. This may involve the installation of another up-gradient monitoring well in the enar vicinity of BRW-9S for comparison or more exploration of the area and geochemical conditions to identify potential sources of arsenic within this well.

4. The Groundwater Protection Rule and Strategy states that prior to issuing a permit for a regulated activity in a Class III groundwater area, a finding must be made that the activity "i) will not cause the groundwater quality to reach or exceed the primary enforcement standards at a compliance point; ii) it will not cause the groundwater quality to reach or exceed the secondary enforcement standards or 110% of the secondary background groundwater quality established under 12-704, whichever is greater, at a compliance point".

   This work will contribute to this finding; however, it does not yet fully address the issue of background concentrations for this site. This initial work has demonstrated that groundwater concentrations for Fe, Mn and As are above the primary enforcement standards at the compliance point of the property boundary. However, it also implies that these concentrations are likely attributed to the wetland conditions and background concentrations. This is supported by the elevated Fe and Mn concentrations in BRW-10S, a background well, and the fact that the new Black River well Fe and Mn concentrations are significantly higher than the landfill proximal down-gradient wells which would be intercepting any landfill impacted groundwater. However, the report does not attempt to determine or suggest possible background concentrations for the site. I realize that this matter is complicated by the varying hydrologic environments (wetlands down-gradient and moderate draining uplands) present across the site as a whole and the general ambiguity regarding the determination of background water quality within the Groundwater Protection Rule and Strategy. However, an attempt to resolve the issue of defining background must be made.

Please do not hesitate to contact me if you have any questions on any of the above comments and recommendations. I can be reached at (802) 522-0561 or kasey.kathan@state.vt.us

Best,

Kasey Kathan
Solid Waste Program
Waste Management and Prevention Division

cc: Craig Heindel, Senior Hydrogeologist, Waite-Heindel Environmental Management
Wendy Krembs, Staff Scientist, Waite-Heindel Environmental Management

NEWSVT Landfills
Coventry, Vermont
Groundwater Analyses
Indicators

		Indicator Parameters [1]							
		COD (mg/L)	Total Sodium (mg/L)	Temp (°C)	Spec. Cond.[4] (us/cm)	Dissolved Oxygen (mg/L)	pH (s.u.)	Oxidation-Reduction Potential (mV)	Turbidity (NTU)
	VT Enforcement Standard [1]	None	250	None	None	None	None	None	None
	VT Preventive Action Level [1]	None	125	None	None	None	None	None	None
	VT Max. Acceptable Change [2]	+25	+10	+10 °F	+100	None	+/-1	None	None
	VT Health Advisory [3]	None	None	None	None	None	6.5-8.5	None	None
	Federal MCL [3]	None	None	None	None	None	None	None	None
Well	Date	Lab							
	Historical data archived to conserve data table space.								
MW A-1	5/15/1998	Endyne	< 20	2.23	8.80	170		6.95		
	10/13/1998	Endyne	110	2.33	10.00	175		*6.34*		
Downgradient	5/5/1999	Endyne	< 20	2.25	9.00	140		7.50		
	10/12/1999	Endyne	< 15	2.33	10.00	150		7.28		
	5/4/2000	Endyne	< 15	2.58	8.00	400		*6.20*		
	10/10/2000	Endyne	< 15	2.44	7.08	536		6.78		
	5/3/2001	Endyne	25.0	6.01	8.00	210		7.79		
	10/3/2001	Endyne	< 15	2.90	9.72	117		7.92		
	5/2/2002	Endyne	< 15	2.72	5.56	240		7.44		
	10/2/2002	Endyne	41.0	3.35	10.65	304		7.08		
	5/6/2003	Endyne	106	5.45	4.50	270		7.82		
	10/2/2003	Endyne	120	4.24	9.26	385		7.76		
	5/4/2004	Endyne	135	5.33	6.39	168		7.33		
	10/5/2004	Endyne	138	6.43	9.25	426		7.34		
	5/3/2005	Endyne	300	9.05	3.90	499		7.10		
	10/4/2005	Endyne	59	7.05	11.76	655		7.75		
	5/2/2006	Endyne	51	11.60	3.68	601		7.60		
	10/3/2006	Endyne	<15	9.44	11.80	590		7.48		
	5/1/2007	Endyne	37	13.3	16.99	609		7.49		
	10/4/2007	Endyne	91	14.6	12.50	681		7.56		
	5/6/2008	Endyne	69	16	9.10	560		7.80		
	10/6/2008	Endyne	24	23	10.13	853		7.83		
	5/6/2009	Endyne	82	22	6.70	789		8.00		
	10/6/2009	Endyne	55	32	10.30	606		8.20		
	5/4/2010	Endyne	150	40	6.80	1,081		7.70		
	10/5/2010	Endyne	47	43	11.40	682		8.30		
	5/4/2011	Endyne	86	38	6.80	909		7.50		
	10/5/2011+	Endyne	41	51	10.30	1,080	1.22	7.12	-101.2	3.27
	5/1/2012+	Endyne	57	58	4.77	974	0.37	6.51	-66.9	3.59
	10/1/2012+	Endyne	49	57	10.50	1,202	0.26	7.43	-130.0	6.43
	5/7/13+	Endyne	57	73	7.41	1,179	0.35	7.86	-135.3	4.21
	10/8/2013+	Endyne	61	72	9.80	887	0.47	7.30	-107.9	7.39
	5/6/2014+	Endyne	50	76	5.00	1,231	0.46	6.99	-60.2	3.54
	10/6/2014	Endyne	45	74	9.69	1,254	1.34	7.20	-79.2	8.27
	Historical data archived to conserve data table space.									
MW B-1	5/15/1998	Endyne	< 20	6.02	8.70	200		7.38		
	10/13/1998	Endyne	< 20	5.49	9.50	160		6.58		
Downgradient	5/5/1999	Endyne	< 20	5.79	9.00	300		7.60		
	10/12/1999	Endyne	< 15	5.94	8.00	140		6.93		
	5/4/2000	Endyne	< 15	6.51	9.00	145		*6.43*		
	10/10/2000	Endyne	< 15	6.39	6.92	470		7.73		
	5/3/2001	Endyne	< 15	6.70	8.50	160		8.42		
	10/3/2001	Endyne	< 15	6.48	8.66	160		*8.54*		
	5/2/2002	Endyne	< 15	6.10	6.59	169		6.71		
	10/2/2002	Endyne	< 15	6.34	9.33	176		6.97		
	5/6/2003	Endyne	< 15	6.38	6.97	162		7.88		
	10/2/2003	Endyne	< 15	6.12	8.66	168		7.46		
	5/4/2004	Endyne	< 15	5.63	7.50	149		7.52		
	10/5/2004	Endyne	< 15	5.78	7.84	209		7.84		
	5/3/2005	Endyne	< 15	6.79	6.65	256		7.53		
	10/4/2005	Endyne	< 15	5.36	8.79	258		8.21		
	5/2/2006	Endyne	< 15	7.90	7.72	274		8.04		
	10/3/2006	Endyne	< 15	11.20	12.83	229		7.97		
	5/1/2007	Endyne	< 15	7.96	10.14	226		8.01		
	10/4/2007	Endyne	11	8.82	14.52	213		8.08		
	5/6/2008	Endyne	69	6.40	12.56	233		8.06		
	10/6/2008	Endyne	< 10	8.20	8.65	311		8.26		
	5/6/2009	Endyne	16	7.70	8.50	251.3		*8.60*		
	10/6/2009	Endyne	76	7.30	8.80	464.3		7.30		
	5/4/2010	Endyne	150	7.90	8.50	234.6		8.10		
	10/5/2010	Endyne	110	9.30	9.20	170.5		*9.10*		
	5/4/2011	Endyne	120	13	8.70	238		8.30		
	10/5/2011+	Endyne	14	7.7	9.12	244	1.82	8.10	-116.6	123.1
	5/1/2012+	Endyne	< 10	6.8	7.25	180	1.06	7.78	-106.9	112.7
	10/1/2012+	Endyne	15	6.4	9.23	224	0.69	7.75	-113.7	100.6
	10/1/2012+	Endyne/Duplicate	18	6.5						
	5/7/2013+	Endyne	< 10	6.1	10.12	219	0.3	8.31	-156.8	2.14
	10/8/2013+	Endyne	< 10	7.1	10.70	176.2	4.4	8.13	-30.3	2.32
	5/6/2014+	Endyne	10	5.6	7.08	232	0.32	7.79	-95.9	3.11
	10/6/2014	Endyne	< 10	6.9	9.20	250	0.76	8.10	-93.4	0.44

Note:
Shaded values exceed Vermont Groundwater Enforcement Standard, as set by Vermont Groundwater Protection Rule and Strategy (GWPRS) 2005.
Bolded values exceed Vermont Preventive Action Level (PAL) as set by GWPRS, 2005.
Underlined values exceed VT Max. Acceptable Change, GWPRS, 2005
Italicized values exceed Vermont Health Advisory as set by GWPRS, 2005.
[1] from Table 2, GWPRS, 2005.
[2] from Table 3, GWPRS, 2005.
[3] from December 2002 Vermont Department of Health Drinking Water Guidance.
[4] Starting with data on 3/05 to current, samples were analyzed for Specific Conductance (temperature adjusted), as opposed to Conductivity.
The < values listed here are the reported detection limit.
NA = Not analyzed
+MW sampling by low-flow method. Indicator parameters shown are from final stabilized readings or after one half hour, whichever comes first.
Blank cells indicate no analysis; Temp, Spec. Cond., Dissolved Oxygen, pH, Oxygen-Reduction Potential and Turbidity may be available upon requ

NEWSVT Landfills
Coventry, Vermont
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Indicators

		Indicator Parameters [1]							
		COD (mg/L)	Total Sodium (mg/L)	Temp (°C)	Spec. Cond.[4] (us/cm)	Dissolved Oxygen (mg/L)	pH (s.u.)	Oxidation-Reduction Potential (mV)	Turbidity (NTU)
	VT Enforcement Standard [1]	None	250	None	None	None	None	None	None
	VT Preventive Action Level [1]	None	125	None	None	None	None	None	None
	VT Max. Acceptable Change [2]	+25	+10	+10 °F	+100	None	+/-1	None	None
	VT Health Advisory [3]	None	None	None	None	None	6.5-8.5	None	None
	Federal MCL [3]	None	None	None	None	None	None	None	None
Well	Date	Lab							
	Historical data archived to conserve data table space.								
MW D-1R	10/13/1998	Endyne	< 20	11.7	8.00	200		7.68		
	5/5/1999	Endyne	< 20.	13.20	10.00	140		7.78		
Downgradient	10/12/1999	Endyne	15	10.00	8.50	150		7.05		
	5/4/2000	Endyne	15	11.20	11.00	170		7.23		
	10/10/2000	Endyne	< 15	9.61	10.80	571		*9.56*		
	5/3/2001	Endyne	< 15	10.10	6.50	160		8.51		
	10/3/2001	Endyne	< 15	9.54	9.96	189		8.17		
	5/2/2002	Endyne	33	11.00	7.86	197		7.76		
	10/2/2002	Endyne	< 15.0	9.67	8.84	184		7.33		
	5/6/2003	Endyne	< 15	10.7	8.36	170		7.85		
	10/2/2003	Endyne	< 15	9.8	8.22	172		8.04		
	5/4/2004	Endyne	< 15	9.13	8.26	168		7.65		
	10/5/2004	Endyne	< 15	9.65	8.15	184		7.64		
	5/3/2005	Endyne	<15	9.81	8.47	267		7.80		
	5/3/2005	Endyne/Duplicate	< 15	10.6						
	10/4/2005	Endyne	< 15	9.0	11.90	247		8.42		
	5/2/2006	Endyne	< 15	13.7	8.01	238		8.21		
	10/3/2006	Endyne	< 15	9.61	12.45	239		8.14		
	5/1/2007	Endyne	< 15	10.8	6.61	326		7.96		
	10/4/2007	Endyne	< 10	10.8	13.56	218		8.20		
	5/6/2008	Endyne	< 10	10	9.89	243		8.00		
	10/6/2008	Endyne	< 10	11	8.71	379		8.05		
	5/6/2009	Endyne	18	9.6	8.60	321		8.30		
	10/6/2009	Endyne	< 10	10	8.80	191		*8.70*		
	5/4/2010	Endyne	< 10	10	9.30	250		7.70		
	10/5/2010	Endyne	26	10	9.20	168		*9.10*		
	5/4/2011	Endyne	11	11	8.50	277		8.40		
	5/4/2011	Endyne/Duplicate	< 10	9.9						
	10/5/2011+	Endyne	< 10	8.8	10.08	252	0.72	8.13	-122.0	21.40
	5/2/2012+	Endyne	< 10	8.5	8.49	262	0.53	6.77	-21.6	2.22
	10/1/2012+	Endyne	17	9.5	9.68	247	0.29	7.20	-102.3	22.23
	5/7/2013+	Endyne	< 10	8.5	8.69	254	0.25	7.77	-116.9	1.31
	10/8/2013+	Endyne	10	10.0	11.40	197	0.24	7.61	-121.0	1.59
	5/6/2014+	Endyne	12	8.7	6.26	267	0.55	7.01	39.6	5.68
	10/6/2014	Endyne	13	11	10.24	290	2.47	6.80	67.8	1.40
	10/6/2014	Endyne/Duplicate	< 10	11						

Note:
Shaded values exceed Vermont Groundwater Enforcement Standard, as set by Vermont Groundwater Protection Rule and Strategy (GWPRS) 2005.
Bolded values exceed Vermont Preventive Action Level (PAL) as set by GWPRS, 2005.
Underlined values exceed VT Max. Acceptable Change, GWPRS, 2005
Italicized values exceed Vermont Health Advisory as set by GWPRS, 2005.
[1] from Table 2, GWPRS, 2005.
[2] from Table 3, GWPRS, 2005.
[3] from December 2002 Vermont Department of Health Drinking Water Guidance.
[4] Starting with data on 3/05 to current, samples were analyzed for Specific Conductance (temperature adjusted), as opposed to Conductivity.
The < values listed here are the reported detection limit.
NA = Not analyzed
NS = Not Sampled due to access limitations in 5/05
+MW sampling by low-flow method. Indicator parameters shown are from final stabilized readings or after one half hour, whichever comes first.
Blank cells indicate no analysis; Temp, Spec. Cond., Dissolved Oxygen, pH, Oxygen-Reduction Potential and Turbidity may be available upon requ

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Indicators

		Indicator Parameters [1]							
		COD (mg/L)	Total Sodium (mg/L)	Temp (°C)	Spec. Cond.[4] (us/cm)	Dissolved Oxygen (mg/L)	pH (s.u.)	Oxidation-Reduction Potential (mV)	Turbidity (NTU)
VT Enforcement Standard [1]		None	250	None	None	None	None	None	None
VT Preventive Action Level [1]		None	125	None	None	None	None	None	None
VT Max. Acceptable Change [2]		+25	+10	+10 °F	+100	None	+/-1	None	None
VT Health Advisory [3]		None	None	None	None	None	6.5-8.5	None	None
Federal MCL [3]		None	None	None	None	None	None	None	None
Well	Date	Lab							
Historical data archived to conserve data table space.									
MW D-2	5/15/1998	Endyne	< 20	10.3	10.00	190		6.93		
	10/13/1998	Endyne	< 20	9.13	9.00	675		7.17		
Downgradient	5/5/1999	Endyne	35	7.98	10.00	150		7.59		
	10/12/1999	Endyne	204	13.1	9.00	75		6.89		
	5/4/2000	Endyne	268	13.7	12.00	430		*6.09*		
	10/10/2000	Endyne	496	20.9	10.70	1,090		8.29		
	5/3/2001	Endyne	490	18.6	5.00	340		7.76		
	10/3/2001	Endyne	1,240	27.1	9.25	1,141		7.50		
	5/2/2002	Endyne	480	20.7	7.75	963		7.16		
	10/2/2002	Endyne	1,500	36.8	9.58	1,893		6.70		
	5/6/2003	Endyne	525	26.7	8.06	1,000		7.22		
	10/2/2003	Endyne	1,780	47.3	8.87	2,204		7.51		
	5/4/2004	Endyne	560	28.1	6.87	197		7.27		
	10/5/2004	Endyne	1,500	52.3	7.99	1,836		7.03		
	5/3/2005	Endyne	1,120	46.8	8.43	2,195		7.08		
	10/4/2005	Endyne	2,400	72.7	10.33	3,705		7.32		
	5/2/2006	Endyne	274	74.5	6.85	2,649		7.17		
	10/3/2006	Endyne	1,490	112	12.98	3,466		7.08		
	5/1/2007	Endyne	222	106	6.15	3,008		7.11		
	10/4/2007	Endyne	4,900	**211**	12.90	4,468		6.97		
	5/6/2008	Endyne	3,800	**150**	9.10	2,763		7.20		
	10/6/2008	Endyne	4,200	**290**	8.57	5,387		7.06		
	5/6/2009	Endyne	4,900	**250**	8.40	2,712		7.20		
	10/6/2009	Endyne	5,300	**370**	9.20	1,240		8.30		
	5/4/2010	Endyne	5,900	**330**	8.90	3,750		7.20		
	10/5/2010	Endyne	7,100	**440**	8.90	4,517		8.00		
	5/4/2011	Endyne	7,900	**450**	8.20	6,460		6.70		
	10/5/2011+	Endyne	9,100	**550**	9.35	8,619	0.31	6.88	-127.2	254.8
	5/2/2012+	Endyne	8,500	**570**	8.62	8,660	0.30	6.69	-78.4	153.8
	10/1/2012+	Endyne	800	**780**	10.20	8,438	0.68	6.88	-125.3	46.56
	5/7/2013+/	Endyne	12,000	**770**	11.95	9,573	0.32	7.10	-144.5	59.52
	10/8/13+	Endyne	10,000	**830**	10.80	6,900	0.27	6.99	-140.2	9.22
	5/6/2014+	Endyne	790	**410**	6.03	6,518	0.32	6.86	-97.2	56.99
	10/6/2014	Endyne	4,600	**980**	9.83	8,776	1.10	7.23	-110.4	67.80
Historical data archived to conserve data table space.										
MW-E1	5/3/2005	Endyne	116	4.17	5.87	289		7.97		
	10/4/2005	Endyne	< 15	3.59	12.48	310		8.20		
	5/2/2006	Endyne	150	4.82	6.77	283		7.83		
	10/3/2006	Endyne	17	6.43	9.31	298		7.67		
	5/1/2007	Endyne	< 15	4.74	6.69	303		7.86		
	10/4/2007	Endyne	61	4.35	11.52	288		8.04		
	5/6/2008	Endyne	65	5.0	5.90	204		8.40		
	10/6/2008	Endyne	110	4.5	7.80	313		8.27		
	5/6/2009	Endyne	520	6.1	8.00	298		7.34		
	10/6/2009	Endyne	330	5.0	10.00	316		8.15		
	5/4/2010	Endyne	340	4.8	7.30	317.9		7.90		
	10/5/2010	Endyne	40	4.6	11.40	226		8.20		
	5/4/2011	Endyne	14	3.4	7.90	225.4		8.20		
	10/4/2011^^	Endyne	24	4.3	11.60	318	3.84	8.02	12.7	NA
	5/2/2012^^	Endyne	77	3.3	6.40	203	2.20	6.75	27.9	137.4
	10/2/2012^^	Endyne	420	3.0	11.91	252		8.11		
	5/9/2013^^	Endyne	93	< 0.5	9.70	152.8		8.30		
	10/10/2013^^	Endyne	220	4.0	11.40	216.6		7.60		
	10/10/2013^^	Endyne/Duplicate	200	4.0						
	5/7/2014^^	Endyne	290	3.0	6.06	242	2.65	7.20	7.2	
	10/7/2014	Endyne	100	4.1	11.04	262	4.23	7.37	100.7	88.30

Note:
Shaded values exceed Vermont Groundwater Enforcement Standard, as set by Vermont Groundwater Protection Rule and Strategy (GWPRS) 2005.
Bolded values exceed Vermont Preventive Action Level (PAL) as set by GWPRS, 2005.
Underlined values exceed VT Max. Acceptable Change, GWPRS, 2005
Italicized values exceed Vermont Health Advisory as set by GWPRS, 2005.
[1] from Table 2, GWPRS, 2005.
[2] from Table 3, GWPRS, 2005.
[3] from December 2002 Vermont Department of Health Drinking Water Guidance.
[4] Starting with data on 3/05 to current, samples were analyzed for Specific Conductance (temperature adjusted), as opposed to Conductivity.
The < values listed here are the reported detection limit.
NA = Not analyzed
NS = Not Sampled due to access limitations in 5/05
+MW sampling by low-flow method. Indicator parameters shown are from final stabilized readings or after one half hour, whichever comes first.
^^ Insufficient water to low-flow well, grab sample with Indicator parameters taken from grab
/ COD sample not preserved to pH <2
Blank cells indicate no analysis; Temp, Spec. Cond., Dissolved Oxygen, pH, Oxygen-Reduction Potential and Turbidity may be available upon requ

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		Indicator Parameters [1]							
		COD (mg/L)	Total Sodium (mg/L)	Temp (°C)	Spec. Cond.[4] (us/cm)	Dissolved Oxygen (mg/L)	pH (s.u.)	Oxidation-Reduction Potential (mV)	Turbidity (NTU)
VT Enforcement Standard [1]		None	250	None	None	None	None	None	None
VT Preventive Action Level [1]		None	125	None	None	None	None	None	None
VT Max. Acceptable Change [2]		+25	+10	+10 °F	+100	None	+/-1	None	None
VT Health Advisory [3]		None	None	None	None	None	6.5-8.5	None	None
Federal MCL [3]		None	None	None	None	None	None	None	None
Well	Date	Lab							
	Historical data archived to conserve data table space.								
MW-P-2R	10/13/1998	Endyne	2,400	87.0	11.00	1,600		6.58		
	5/5/1999	Endyne	1,150	87.4	9.00	1,000		7.14		
Downgradient	10/12/1999	Endyne	725	78.9	11.00	1,100		6.82		
	5/4/2000	Endyne	630	91.3	7.00	1,100		*5.43*		
	10/10/2000	Endyne	610	76.4	7.68	1,662		6.97		
	10/3/2001	Endyne	340	79.1	10.46	1,400		7.23		
	5/2/2002	Endyne	750	88.1	5.43	1,480		*6.07*		
	10/2/2002	Endyne	464	75.7	11.88	1,647		*6.07*		
	5/6/2003	Endyne	1,040	99.7	5.34	1,789		7.02		
	10/2/2003	Endyne	740	83.7	10.95	1,668		7.00		
	5/4/2004	Endyne	1,160	93.9	6.80	1,940		6.77		
	10/5/2004	Endyne	508	94.3	10.40	1,724		7.19		
	5/3/2005	Endyne	408	117	5.40	2,555		6.70		
	5/3/2005	Endyne/Duplicate	820	119						
	10/4/2005	Endyne	450	82.5	11.48	2,380		7.13		
	5/2/2006	Endyne	136	**168**	6.46	2,949		6.96		
	10/3/2006	Endyne	280	**135**	12.10	2,613		6.95		
	5/1/2007	Endyne	130	**145**	11.15	2,205		7.00		
	10/4/2007	Endyne	290	118	13.73	2,181		6.97		
	5/6/2008	Endyne	330	**140**	8.20	1,924		7.30		
	10/6/2008	Endyne	140	**140**	10.87	2,488		6.51		
	5/6/2009	Endyne	180	**150**	7.30	2,386		7.30		
	10/6/2009	Endyne	190	**160**	8.10	1,780		7.40		
	5/4/2010	Endyne	190	**150**	8.60	2,310		7.80		
	10/5/2010	Endyne	220	**140**	11.50	1,180		7.80		
	5/4/2011	Endyne	220	**140**	6.00	2,250		7.10		
	10/5/2011+	Endyne	220	**150**	11.76	2,623	4.86	7.11	-96.1	648.1
	5/2/2012+	Endyne	160	**180**	6.17	2,093	0.37	6.59	-102.7	520.8
	10/1/2012+	Endyne	150	**150**	11.50	2,540	0.25	7.21	-118.3	533.0
	5/7/2013+	Endyne	140	**170**	8.90	2,411	0.30	7.52	-143.1	77.52
	10/8/13+	Endyne	140	**170**	11.10	1,919	0.28	7.14	-111.9	60.23
	5/6/2014+	Endyne	170	**180**	5.90	2,738	0.32	7.00	-99.1	221.1
	10/6/2014	Endyne	170	**220**	11.40	2,841	0.67	7.26	-94.1	222.0
	10/6/2014	Endyne/Duplicate	150	**200**						
	Historical data archived to conserve data table space.									
MW-P-5	5/15/1998	Endyne	< 20	5.30	9.00	180		7.22		
	10/13/1998	Endyne	24	4.27	10.50	160		*6.30*		
Downgradient	5/5/1999	Endyne	< 20	4.67	9.00	850		8.10		
	10/12/1999	Endyne	19	5.95	9.00	140		8.01		
	5/4/2000	Endyne	< 15	5.60	8.00	150		*6.10*		
	10/10/2000	Endyne	< 15	6.09	6.89	520		7.10		
	5/3/2001	Endyne	< 15	6.32	7.50	140		7.95		
	10/3/2001	Endyne	< 15	4.78	8.01	193		8.04		
	5/2/2002	Endyne	< 15	5.27	6.68	178		7.50		
	10/2/2002	Endyne	< 15	5.31	8.69	176		7.07		
	5/6/2003	Endyne	16	4.44	7.00	155		7.96		
	10/2/2003	Endyne	<15	4.48	7.68	156		7.76		
	5/4/2004	Endyne	< 15	4.26	7.30	152		7.58		
	10/5/2004	Endyne	116	5.07	7.80	178		7.57		
	5/3/2005	Endyne	< 15	4.48	7.39	236		6.71		
	10/4/2005	Endyne	< 15	4.55	11.54	230		8.32		
	5/2/2006	Endyne	15	5.9	6.92	233		8.10		
	10/3/2006	Endyne	< 15	11.3	10.32	225		7.85		
	5/1/2007	Endyne	< 15	5.52	13.26	256		8.17		
	10/4/2007	Endyne	16	5.0	12.44	209		8.07		
	5/6/2008	Endyne	42	4.6	11.12	241		8.20		
	10/6/2008	Endyne	37	5.9	8.62	232		8.32		
	5/6/2009	Endyne	96	5.6	7.50	257.6		*8.60*		
	10/6/2009	Endyne	31	5.8	7.81	162.1		8.50		
	5/4/2010	Endyne	33	5.3	10.30	241.9		7.40		
	10/5/2010	Endyne	17	5.3	8.70	159.5		*8.60*		
	5/4/2011	Endyne	13	4.5	7.60	227.1		8.30		
	10/5/2011+	Endyne	< 10	4.9	8.42	241	1.23	7.94	33.7	24.34
	5/1/2012+	Endyne	17	5.2	7.02	186	0.50	7.87	-48.6	21.69
	10/1/2012+	Endyne	15	4.8	8.90	232.3	0.85	8.30	154.6	45.07
	5/7/2013+	Endyne	10	4.7	8.54	215	0.15	8.42	-90.3	12.70
	10/8/13+	Endyne	< 10	4.7	8.50	161.2	0.34	8.18	-32.9	0.63
	5/6/14+	Endyne	< 10	3.9	6.38	226	0.69	7.87	-38.3	1.19
	10/6/2014	Endyne	10	5.2	8.05	242	1.05	8.13	-3.0	0.39

Note:
Shaded values exceed Vermont Groundwater Enforcement Standard, as set by Vermont Groundwater Protection Rule and Strategy (GWPRS) 2005.
Bolded values exceed Vermont Preventive Action Level (PAL) as set by GWPRS, 2005.
Underlined values exceed VT Max. Acceptable Change, GWPRS, 2005
Italicized values exceed Vermont Health Advisory as set by GWPRS, 2005.
[1] from Table 2, GWPRS, 2005.
[2] from Table 3, GWPRS, 2005.
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+MW sampling by low-flow method. Indicator parameters shown are from final stabilized readings or after one half hour, whichever comes first.
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Indicators

		Indicator Parameters [1]							
		COD (mg/L)	Total Sodium (mg/L)	Temp (°C)	Spec. Cond.[4] (us/cm)	Dissolved Oxygen (mg/L)	pH (s.u.)	Oxidation-Reduction Potential (mV)	Turbidity (NTU)
	VT Enforcement Standard [1]	None	250	None	None	None	None	None	None
	VT Preventive Action Level [1]	None	125	None	None	None	None	None	None
	VT Max. Acceptable Change [2]	+25	+10	+10 °F	+100	None	+/-1	None	None
	VT Health Advisory [3]	None	None	None	None	None	6.5-8.5	None	None
	Federal MCL [3]	None	None	None	None	None	None	None	None
Well	Date	Lab							
	Historical data archived to conserve data table space.								
MW-P-6	5/14/1998	Endyne	< 20	5.41	10.00			7.03		
	10/13/1998	Endyne	112	4.00	10.00	190		7.72		
Downgradient	5/5/1999	Endyne	< 20	4.39	7.00	190		7.14		
	10/12/1999	Endyne	< 15	4.99	9.50	160		6.94		
	5/4/2000	Endyne	< 15	5.11	7.00	150		8.25		
	10/10/2000	Endyne	< 15	5.66	7.61	1005		6.56		
	5/3/2001	Endyne	< 15	4.87	8.50	170		7.83		
	10/3/2001	Endyne	< 15	5.07	9.90	190		8.19		
	5/2/2002	Endyne	< 15	4.14	6.06	181		7.86		
	10/2/2002	Endyne	< 15	4.55	10.87	207		7.43		
	5/6/2003	Endyne	< 15	4.63	7.03	163		7.84		
	10/2/2003	Endyne	<15	4.25	9.75	187		8.10		
	5/4/2004	Endyne	32	4.47	6.62	165		7.76		
	10/5/2004	Endyne	<15	4.07	9.14	196		7.69		
	5/3/2005	Endyne	< 15	4.28	6.09	255		7.55		
	5/3/2005	Endyne/Duplicate	19	5.14						
	10/4/2005	Endyne	< 15	4.07	11.66	269		8.13		
	5/2/2006	Endyne	< 15	5.20	6.59	252		8.03		
	10/3/2006	Endyne	< 15	6.16	10.30	254		7.82		
	5/1/2007	Endyne	< 15	5.82	7.41	257		8.00		
	10/4/2007	Endyne	83	4.4	15.02	262		7.77		
	5/6/2008	Endyne	80	4.7	9.81	252		7.57		
	10/6/2008	Endyne	37	5.2	8.63	257		8.23		
	5/6/2009	Endyne	43	4.1	8.22	223		5.49		
	10/6/2009	Endyne	100	5.9	10.10	10.46		8.10		
	5/4/2010	Endyne	130	6.7	7.40	257.4		7.90		
	10/5/2010	Endyne	74	5.1	11.80	188.4		*8.60*		
	5/4/2011	Endyne	47	5.6	8.00	229.5		8.10		
	10/5/2011+	Endyne	14	4.3	10.44	259	1.00	7.85	-108.5	104.5
	5/1/2012+	Endyne	16	4.8	6.75	203	0.31	6.72	-21.2	50.79
	10/2/2012+	Endyne	10	4.2	11.18	246	0.34	7.17	24.6	81.56
	10/2/2012+	Endyne/Duplicate	11	4.2						
	5/7/2013+	Endyne	12	4.2	8.19	236	0.36	7.54	-91.8	89.90
	10/8/13+	Endyne	16	4.3	11.10	219.5	0.23	7.90	-63.5	60.46
	5/7/14+	Endyne	13	3.7	7.33	247	0.75	7.34	-79.6	124.2
	10/7/2014	Endyne	13	4.4	11.29	270	0.33	7.94	-79.9	80.00
	Historical data archived to conserve data table space.									
MW-P-8	5/14/1998	Endyne	32	22.6	10.00	610		6.58		
	10/14/1998	Endyne	89	17.2	11.00	650		7.02		
Downgradient	5/5/1999	Endyne	23	17.7	7.00	440		7.13		
	10/12/1999	Endyne	49	27.9	11.00	650		*6.25*		
	5/4/2000	Endyne	50	36.5	--	--		--		
	10/10/2000	Endyne	34	21.8	9.34	600		7.02		
	5/3/2001	Endyne	29	36	6.40	700		6.52		
	10/3/2001	Endyne	38	35.8	12.04	1,174		7.06		
	5/2/2002	Endyne	34	34.6	5.42	744		7.21		
	10/2/2002	Endyne	30	22.9	12.79	692		6.98		
	5/6/2003	Endyne	41	52.9	5.01	667		6.61		
	10/2/2003	Endyne	15	28.9	12.77	606		7.49		
	5/4/2004	Endyne	36	27.3	6.92	442		6.85		
	10/5/2004	Endyne	690	16	11.79	565		7.16		
	5/3/2005	Endyne	31	17.1	4.65	590		7.38		
	10/4/2005	Endyne	123	21.2	12.72	966		6.67		
	5/2/2006	Endyne	54	28.3	5.68	910		6.62		
	10/3/2006	Endyne	78	22.3	12.37	908		6.57		
	5/1/2007	Endyne	< 15	22.4	6.62	1,052		6.72		
	10/4/2007	Endyne	120	15	12.16	873		6.94		
	5/6/2008	Endyne	55	18	7.65	1,057		6.69		
	10/6/2008	Endyne	220	22	15.56	363		7.61		
	5/6/2009	Endyne	210	17	7.20	879		7.00		
	10/6/2009	Endyne	150	19	9.77	773		7.94		
	5/4/2010	Endyne	140	18	7.50	600		7.10		
	10/5/2010	Endyne	**230**	20	12.50	665		7.20		
	5/4/2011	Endyne	93	17	6.38	961		6.93		
	10/4/2011^^	Endyne	140	19	12.67	1,165	1.56	7.11	-43.5	NA
	5/3/2012^^	Endyne	94	19	6.18	778	2.18	*5.87*	-40.4	831.4
	10/3/2012^^	Endyne	97	17	12.07	896		7.02		
	5/8/13^^	Endyne	170	21	7.00	607		7.10		
	10/9/2013^^	Endyne	60	22	12.10	605		6.80		
	5/7/14^^	Endyne	45	18	7.39	769	4.70	6.85	3.50	
	10/7/2014	Endyne	69	23	11.75	815	3.57	7.24	-21.2	108.5

Note:
Shaded values exceed Vermont Groundwater Enforcement Standard, as set by Vermont Groundwater Protection Rule and Strategy (GWPRS) 2005.
Bolded values exceed Vermont Preventive Action Level (PAL) as set by GWPRS, 2005.
Underlined values exceed VT Max. Acceptable Change, GWPRS, 2005
Italicized values exceed Vermont Health Advisory as set by GWPRS, 2005.
[1] from Table 2, GWPRS, 2005.
[2] from Table 3, GWPRS, 2005.
[3] from December 2002 Vermont Department of Health Drinking Water Guidance.
[4] Starting with data on 3/05 to current, samples were analyzed for Specific Conductance (temperature adjusted), as opposed to Conductivity.
The < values listed here are the reported detection limit.
NA = Not analyzed
NS = Not Sampled due to access limitations in 5/05
+MW sampling by low-flow method. Indicator parameters shown are from final stabilized readings or after one half hour, whichever comes first.
^^ Insufficient water to low-flow well, grab sample with Indicator parameters taken from grab
Blank cells indicate no analysis; Temp, Spec. Cond., Dissolved Oxygen, pH, Oxygen-Reduction Potential and Turbidity may be available upon request.

NEWSVT Landfills
Coventry, Vermont
Groundwater Analyses
Indicators

			Indicator Parameters [1]								
			COD (mg/L)	Total Sodium (mg/L)	Temp (°C)	Spec. Cond.[4] (us/cm)	Dissolved Oxygen (mg/L)	pH (s.u.)	Oxidation-Reduction Potential (mV)	Turbidity (NTU)
	VT Enforcement Standard [1]		None	250	None	None	None	None	None	None
	VT Preventive Action Level [1]		None	125	None	None	None	None	None	None
	VT Max. Acceptable Change [2]		+25	+10	+10 °F	+100	None	+/-1	None	None
	VT Health Advisory [3]		None	None	None	None	None	6.5-8.5	None	None
	Federal MCL [3]		None	None	None	None	None	None	None	None
Well	Date	Lab								
#21 Office	5/15/1998	Endyne	< 20	3.00	13.00	307		7.25		
	10/14/1998	Endyne	< 20	3.24	15.00	250		8.20		
Upgradient	5/5/1999	Endyne	< 20	3.09	18.00	230		8.05		
	10/12/1999	Endyne	< 15	3.24	15.00	240		6.54		
	5/4/2000	Endyne	< 15	3.03	--	--		--		
	10/10/2000	Endyne	< 15	3.24	12.02	250		7.94		
	5/3/2001	Endyne	< 15	3.19	15.00	150		7.30		
	10/3/2001	Endyne	< 15	3.43	16.45	170		7.30		
	5/2/2002	Endyne	< 15	2.86	7.54	450		7.76		
	10/2/2002	Endyne	< 15	73.6	16.05	315		*8.75*		
	5/6/2003	Endyne	< 15	77.7	8.90	300		7.49		
	10/2/2003	Endyne	<15	77.6	15.40	281		*8.77*		
	5/4/2004	Endyne	< 15	68.6	7.37	237		*9.02*		
	10/5/2004	Endyne	< 15	74.9	14.67	299		8.42		
	5/3/2004	Endyne	< 15	83.0	6.73	333		7.90		
	10/4/2005	Endyne	< 15	40.1	17.11	359		8.20		
	5/2/2006	Endyne	< 15	3.60	10.07	371		7.91		
	10/3/2006	Endyne	< 15	3.19	15.88	347		6.90		
	5/1/2007	Endyne	< 15	4.06	25.50	290		8.27		
	10/4/2007	Endyne	< 10	80.5	21.63	329		*8.74*		
	5/6/2008	Endyne	< 10	71	10.07	348		8.16		
	10/6/2008	Endyne	< 10	75	15.56	363		7.61		
	5/6/2009	Endyne	< 10	79	10.10	376.2		*8.70*		
	10/6/2009	Endyne	< 10	84	22.80	359.6		*8.70*		
	5/4/2010	Endyne	< 10	87	9.70	362.2		8.30		
	10/5/2010	Endyne	< 10	87	10.90	600		*9.60*		
	5/4/2011	Endyne	< 10	80	12.80	281.5		8.30		
	10/5/2011	Endyne	< 10	76	15.41	371	1.12	8.33	-17.2	
	5/3/2012	Endyne	23	75	12.31	304	1.96	8.38	8.80	10.87
	10/2/2012	Endyne	50	83	16.08	356		8.13		
	5/8/2013	Endyne	< 10	88	17.30	364.4		7.80		
	10/9/2013	Endyne	< 14	89	15.60	382		8.09		
	5/8/2014	Endyne	16	85	8.71	372	1.71	8.23	77.9	4.55
	10/8/2014	Endyne	25	95	14.91	325	2.80	*8.58*	202.8	2.51
	Historical data archived to conserve data table space.									
MW-103	12/28/2001	Endyne			6.57	241		*9.80*		
	1/3/2002	NS								
	1/15/2002	Endyne			7.26	187		8.10		
	1/25/2002	Endyne			6.93	194		8.21		
	2/6/2002	Endyne			5.79	473		8.17		
	10/28/2004	Endyne			7.44	348		7.48		
	5/3/2005	Endyne	< 15	9.69	6.04	197		7.59		
	10/4/2005	Endyne	< 15	4.12	9.70	457		8.14		
	5/2/2006	Endyne	< 15	5.12	8.03	407		7.82		
	10/3/2006	Endyne	< 15	6.93	9.02	448		7.66		
	5/1/2007	Endyne	< 15	8.67	14.16	486		7.75		
	10/4/2007	Endyne	< 10	7	12.60	523		7.83		
	5/6/2008	Endyne	24	8	7.78	430		7.50		
	10/6/2008	Endyne	< 10	11	8.44	374		7.75		
	5/6/2009	Endyne	86	10	9.58	295		*4.19*		
	10/6/2009	Endyne	< 10	8.9	8.50	131.6		8.10		
	5/4/2010	Endyne	13	9.6	10.10	219.5		8.10		
	10/5/2010	Endyne	18	9.6	10.10	215.6		*9.70*		
	5/4/2011	Endyne	52	9.7	9.10	219.7		8.30		
	10/4/2011+	Endyne	< 10	8.8	10.06	316.0	0.56	7.97	23.3	3.95
	10/4/2011+	Endyne/Duplicate	< 10	11.0						
	5/2/2012+	Endyne	65	9.6	10.29	322	0.14	7.82	-8.0	127.00
	5/2/2012+	Endyne/Duplicate	33	10.0						
	10/2/2012+	Endyne	20	9.8	13.00	319.9	2.97	7.92	192.0	7.04
	5/9/2013+	Endyne	10	10.0	13.64	319	1.57	7.57	173.4	28.36
	10/8/13+	Endyne	10	10.0	12.71	317	0.79	7.92	64.4	14.00
	5/6/2014+	Endyne	13	8.9	9.87	306	0.87	7.92	74.5	4.22
	10/6/2014	Endyne	31	11.0	12.21	273	0.95	7.62	107.9	7.49
	Historical data archived to conserve data table space.									
MW-409	10/4/2005	Endyne	< 15	2.21	10.27	420		7.55		
	5/2/2006	Endyne	< 15	1.42	5.88	401		7.35		
	10/3/2006	Endyne	< 15	2.92	9.78	311		7.59		
	5/1/2007	Endyne	< 15	0.904	6.99	426		7.50		
	10/4/2007	Endyne	35	2.47	11.86	319		7.70		
	5/6/2008	Endyne	31	8.9	8.33	343		7.85		
	10/6/2008	Endyne	11	4.7	8.14	289		7.93		
	5/6/2009	Endyne	<10	1.7	7.30	412		7.60		
	10/6/2009	Endyne	130	3.4	8.10	197		8.10		
	5/4/2010	Endyne	16	1.8	7.50	393.1		7.80		
	10/5/2010	Endyne	63	3.6	9.20	259.5		7.80		
	5/4/2011	Endyne	22	2.3	8.70	306.7		7.80		
	10/5/2011+	Endyne	51	1.9	9.82	509	3.35	7.17	29.1	266.40
	5/2/2012+	Endyne	18	1.2	7.94	371	5.89	6.61	124.9	38.53
	10/3/2012+	Endyne	24	3.1	9.32	326	3.19	6.79	44.5	145.9
	5/8/2013+	Endyne	12	1.1	8.23	311	9.60	6.82	102.1	17.83
	10/9/13+	Endyne	22	2.8	10.30	257.3	4.34	7.44	62.4	3.45
	5/8/2014+	Endyne	< 10	0.54	6.42	385	9.74	7.42	174.70	8.74
	10/7/2014	Endyne	33	2.80	9.12	338	0.39	7.53	-37.40	330.0

Note:
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Italicized values exceed Vermont Health Advisory as set by GWPRS, 2005.
[1] from Table 2, GWPRS, 2005.
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NEWSVT Landfills
Coventry, Vermont
Groundwater Analyses
Indicators

		Indicator Parameters [1]							
		COD (mg/L)	Total Sodium (mg/L)	Temp (°C)	Spec. Cond.[4] (us/cm)	Dissolved Oxygen (mg/L)	pH (s.u.)	Oxidation-Reduction Potential (mV)	Turbidity (NTU)
VT Enforcement Standard [1]		None	250	None	None	None	None	None	None
VT Preventive Action Level [1]		None	125	None	None	None	None	None	None
VT Max. Acceptable Change [2]		+25	+10	+10 °F	+100	None	+/-1	None	None
VT Health Advisory [3]		None	None	None	None	None	6.5-8.5	None	None
Federal MCL [3]		None	None	None	None	None	None	None	None
Well	Date	Lab							
Historical data archived to conserve data table space.									
412-R	10/13/1998	Endyne	71	22.2	8.50	365		8.32		
	5/5/1999	Endyne	< 20.	19.40	7.00	800		*6.97*		
Downgradient	10/12/1999	Endyne	4	9.63	8.50	450		6.82		
	5/4/2000	Endyne	< 15	17.60	8.00	330		7.39		
	10/10/2000	Endyne	< 15	7.87	9.71	1,026		6.89		
	5/3/2001	Endyne	< 15	9.70	8.00	350		7.96		
	10/3/2001	Endyne	< 15	19.90	9.81	407		7.79		
	5/2/2002	Endyne	< 15	7.52	7.84	736		7.29		
	10/2/2002	Endyne	< 15	7.18	9.92	525		7.03		
	5/6/2003	Endyne	19	7.41	8.50	787		7.06		
	10/2/2003	Endyne	<15	7.09	8.17	751		7.80		
	5/4/2004	Endyne	< 15	6.91	8.02	702		7.33		
	10/5/2004	Endyne	< 15	6.95	8.67	607		7.22		
	5/3/2005	Endyne	< 15	7.20	5.12	736		7.17		
	10/4/2005	Endyne	< 15	7.30	11.92	1,273		7.17		
	5/2/2006	Endyne	< 15	10.6	6.00	1,094		7.09		
	10/3/2006	Endyne	< 15	11.5	9.34	1,356		6.90		
	5/1/2007	Endyne	< 15	8.15	7.81	1,396		6.94		
	10/4/2007	Endyne	12	7.33	16.10	1,428		6.97		
	5/6/2008	Endyne	21	8.9	8.90	957		7.20		
	10/6/2008	Endyne	24	9.9	8.64	1,333		7.15		
	5/6/2009	Endyne	32	9.0	8.80	1,369		7.20		
	10/6/2009	Endyne	180	9.2	8.86	1,150		7.15		
	5/4/2010	Endyne	120	9.3	8.50	816		7.20		
	10/5/2010	Endyne	22	8.1	9.00	847		7.20		
	5/4/2011	Endyne	39	8.5	8.50	454		7.40		
	5/4/2011	Endyne/Duplicate	32	8.0						
	10/4/2011+	Endyne	24	7.7	9.30	1,352	0.18	6.67	-61.7	39.50
	5/1/2012+	Endyne	36	8.8	8.38	1,325	0.62	6.80	76.7	20.59
	10/2/2012+	Endyne	40	8.0	9.97	1,195	0.57	*6.36*	52.8	21.20
	5/7/2013+	Endyne	31	11.0	8.33	1,143	3.70	7.50	29.7	17.91
	5/7/2013+	Endyne/Duplicate	32	12.0						
	10/8/13+	Endyne	30	9.3	10.90	960	0.31	6.89	-82.4	1.17
	5/7/14+	Endyne	27	8.2	7.63	1,194	4.58	*6.43*	82.3	29.58
	10/7/2014	Endyne	61	8.8	9.69	1,471	1.19	6.95	-65.7	1.49
	10/7/2014	Endyne	43	11.0						
MW 703	5/14/1998	Endyne	< 20	19.7	10.00	190		7.15		
	10/14/1998	Endyne	< 20	18.3	8.00	195		7.48		
Upgradient	5/5/1999	Endyne	< 20	12.1	8.00	390		*5.06*		
	10/12/1999	Endyne	< 16	9.75	10.50	150		*6.16*		
	5/4/2000	Endyne	< 15	7.51	11.00	180		*6.40*		
	10/10/2000	Endyne	< 15	8.1	8.60	593		8.63		
	5/3/2001	Endyne	< 15	7.94	8.50	160		7.28		
	10/3/2001	Endyne	< 15	7.38	9.01	183		8.38		
	5/2/2002	Endyne	< 15	6.65	8.31	117		8.01		
	10/2/2002	Endyne	< 15	6.39	9.65	195		7.75		
	5/6/2003	Endyne	< 15	6.38	8.28	175		7.52		
	10/2/2003	Endyne	<15	6.03	8.47	179		8.06		
	5/4/2004	Endyne	< 15	6.08	7.42	173		7.44		
	10/5/2004	Endyne	< 15	6.45	7.91	197		7.60		
	5/3/2005	Endyne	< 15	6.96	6.66	269		7.49		
	10/4/2005	Endyne	< 15	5.34	11.23	271		8.27		
	5/2/2006	Endyne	< 15	9.16	7.98	257		8.14		
	10/3/2006	Endyne	< 15	7.13	10.26	261		7.87		
	5/1/2007	Endyne	< 15	6.99	13.00	268		7.47		
	10/4/2007	Endyne	< 10	6.6	13.59	239		8.02		
	5/6/2008	Endyne	< 10	6.1	8.90	1,988		8.20		
	10/6/2008	Endyne	< 10	6.8	9.10	2,968		8.00		
	5/6/2009	Endyne	740	12.0	8.58	240		*8.82*		
	10/6/2009	Endyne	< 10	7.4	8.70	263		8.30		
	5/4/2010	Endyne	24	6.4	9.00	274		7.80		
	10/5/2010	Endyne	22	6.7	8.80	188		8.20		
	5/4/2011	Endyne	21	6.0	8.70	251		7.80		
	10/4/2011+	Endyne	27	6.5	9.74	279	4.01	8.01	191.7	59.43
	5/3/2012+	Endyne	21	8.1	9.20	278	3.11	8.03	71.9	352.6
	10/2/2012+	Endyne	30	6.5	12.60	284	2.52	8.13	84.2	326.4
	5/9/2013+	Endyne	10	6.0	10.50	286	0.96	7.68	160.7	18.56
	10/9/13+	Endyne	14	6.3	8.09	285	0.91	7.95	95.4	29.90
	5/7/14+	Endyne	< 10	5.6	7.91	283	1.10	7.92	61.8	14.28
	10/6/2014	Endyne	35	6.2	9.22	256	1.56	7.50	166.0	3.86

Note:
Shaded values exceed Vermont Groundwater Enforcement Standard, as set by Vermont Groundwater Protection Rule and Strategy (GWPRS) 2005.
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[1] from Table 2, GWPRS, 2005.
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The < values listed here are the reported detection limit.
NA = Not analyzed
NS = Not Sampled due to access limitations in 5/05
**Re-sampling was conducted on 6/20/11 due to questionable results from 5/4/11
+MW sampling by low-flow method. Indicator parameters shown are from final stabilized readings or after one half hour, whichever comes first.
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			Indicator Parameters [1]							
			COD (mg/L)	Total Sodium (mg/L)	Temp (°C)	Spec. Cond.[4] (us/cm)	Dissolved Oxygen (mg/L)	pH (s.u.)	Oxidation-Reduction Potential (mV)	Turbidity (NTU)
	VT Enforcement Standard [1]		None	250	None	None	None	None	None	None
	VT Preventive Action Level [1]		None	125	None	None	None	None	None	None
	VT Max. Acceptable Change [2]		+25	+10	+10 °F	+100	None	+/-1	None	None
	VT Health Advisory [3]		None	None	None	None	None	6.5-8.5	None	None
	Federal MCL [3]		None	None	None	None	None	None	None	None
Well	Date	Lab								
MW 705	5/15/1998	Endyne	< 20	4.75	9.50	220		6.77		
	5/15/1998	Endyne	< 20	4.89	9.50	220		6.77		
Upgradient	10/14/1998	Endyne	< 20	3.18	10.00	200		7.74		
	5/5/1999	Endyne	< 20	3.04	6.00	250		8.10		
	5/5/1999	Endyne	< 20	3.29	6.00	250		8.08		
	10/12/1999	Endyne	< 15	3.41	13.00	195		6.53		
	5/4/2000	Endyne	< 15	2.64	9.00	190		--		
	10/10/2000	Endyne	< 15	2.95	10.40	503		*8.95*		
	5/3/2001	Endyne	< 15	3	7.00	180		7.73		
	10/3/2001	Endyne	< 15	3.78	9.87	223		8.07		
	5/2/2002	Endyne	< 15	3.59	7.71	152		7.73		
	10/2/2002	Endyne	< 15	3.56	10.80	242		7.67		
	5/6/2003	Endyne	< 15	3.61	6.51	201		7.38		
	10/2/2003	Endyne	<15	3.25	9.59	219		7.94		
	5/4/2004	Endyne	< 15	2.78	7.51	198		7.38		
	10/5/2004	Endyne	< 15	3.31	8.05	221		7.52		
	5/3/2005	Endyne	< 15	4.27	5.56	304		7.47		
	10/4/2005	Endyne	< 15	3.41	12.39	324		8.10		
	5/2/2006	Endyne	< 15	3.66	7.13	307		7.80		
	10/3/2006	Endyne	< 15	4.19	10.58	304		7.79		
	5/1/2007	Endyne	< 15	4.19	11.34	320		7.41		
	10/4/2007	Endyne	< 10	3.79	11.49	356		7.87		
	5/6/2008	Endyne	20	4.0	7.73	364		8.11		
	10/3/2008	Endyne	< 10	4.0	8.24	414		8.01		
	5/6/2009	Endyne	10	4.6	8.30	448.4		7.90		
	10/6/2009	Endyne	< 10	4.8	8.34	426		8.03		
	5/4/2010	Endyne	< 10	4.8	8.20	296.6		8.10		
	10/5/2010	Endyne	25	4.9	9.00	306		*9.40*		
	5/4/2011	Endyne	380	11.0	8.00	556		7.68		
	6/20/2011**	Endyne	27	5.7	10.22	514		7.17		
	10/5/2011+	Endyne	< 10	< 0.5	9.50	532	0.14	7.76	-0.4	12.07
	5/2/2012+	Endyne	18	5.2	7.13	434	0.67	7.23	37.4	40.45
	5/2/2012+	Endyne/Duplicate	10	5.1						
	10/3/2012+	Endyne	15	4.8	9.17	529	0.43	7.03	18.0	43.17
	5/8/2013+	Endyne	< 10	6.1	9.39	564	0.46	7.82	-4.7	5.66
	10/9/13+	Endyne	20	6.0	10.80	447.6	1.26	7.69	49.0	1.07
	10/9/13+	Endyne/Duplicate	< 10	5.4						
	5/8/2014+	Endyne	< 10	5.9	6.80	677	0.44	7.62	120.8	2.67
	5/8/2014+	Endyne/Duplicate	19	6.0						
	10/7/2014	Endyne	18	6.3	8.05	607	0.59	7.44	-23.2	24.11

Note:
Shaded values exceed Vermont Groundwater Enforcement Standard, as set by Vermont Groundwater Protection Rule and Strategy (GWPRS) 2005.
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[1] from Table 2, GWPRS, 2005.
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The < values listed here are the reported detection limit.
NA = Not analyzed
NS = Not Sampled due to access limitations in 5/05
**Re-sampling was conducted on 6/20/11 due to questionable results from 5/4/11
+MW sampling by low-flow method. Indicator parameters shown are from final stabilized readings or after one half hour, whichever comes first.
^^ Insufficient water to low-flow well, grab sample with Indicator parameters taken from grab
Blank cells indicate no analysis; Temp, Spec. Cond., Dissolved Oxygen, pH, Oxygen-Reduction Potential and Turbidity may be available upon requ

NEWSVT Landfills
Coventry, Vermont
Groundwater Analyses
Indicators

		Indicator Parameters [1]							
		COD (mg/L)	Total Sodium (mg/L)	Temp (°C)	Spec. Cond.[4] (us/cm)	Dissolved Oxygen (mg/L)	pH (s.u.)	Oxidation-Reduction Potential (mV)	Turbidity (NTU)
	VT Enforcement Standard [1]	None	250	None	None	None	None	None	None
	VT Preventive Action Level [1]	None	125	None	None	None	None	None	None
	VT Max. Acceptable Change [2]	+25	+10	+10 °F	+100	None	+/-1	None	None
	VT Health Advisory [3]	None	None	None	None	None	6.5-8.5	None	None
	Federal MCL [3]	None	None	None	None	None	None	None	None
Well	Date	Lab							
	Historical data archived to conserve data table space.								
MW 706	10/14/1998	Endyne	29	6.69	10.00	420		8.10		
	5/5/1999	Endyne	< 20	4.19	7.00	190		8.01		
Upgradient	10/12/1999	Endyne	5.66	3.62	12.50	185		6.51		
	5/4/2000	Endyne	< 15	3.73	--	--		--		
	10/10/2000	Endyne	< 15	3.57	9.90	290		7.55		
	5/3/2001	Endyne	< 15	3.57	7.00	170		7.07		
	10/3/2001	Endyne	< 15	4.02	9.51	200		8.07		
	5/2/2002	Endyne	< 15	3.18	7.42	210		7.93		
	10/2/2002	Endyne	< 15	3.54	10.45	216		7.82		
	5/6/2003	Endyne	< 15	3.30	7.85	194		7.51		
	10/2/2003	Endyne	<15	3.48	9.45	196		7.84		
	5/4/2004	Endyne	< 15	3.00	6.67	188		7.38		
	10/5/2004	Endyne	< 15	3.16	8.69	214		7.39		
	5/3/2005	Endyne	< 15	3.20	5.13	286		7.64		
	10/4/2005	Endyne	< 15	3.43	11.12	292		8.12		
	5/2/2006	Endyne	< 15	3.83	6.32	274		7.92		
	10/3/2006	Endyne	< 15	4.49	10.30	279		7.86		
	5/1/2007	Endyne	< 15	4.32	7.21	317		8.06		
	10/4/2007	Endyne	22	4.17	12.56	292		7.96		
	5/6/2008	Endyne	14	4.1	8.11	276		8.16		
	10/6/2008	Endyne	< 10	4.3	8.09	303		8.09		
	5/6/2009	Endyne	< 10	3.8	8.00	335.4		8.50		
	10/6/2009	Endyne	< 10	4.5	8.90	304.6		8.20		
	5/4/2010	Endyne	10	3.6	8.00	201.6		8.30		
	10/5/2010	Endyne	< 10	3.8	9.20	206.3		*9.50*		
	5/4/2011	Endyne	17	3.2	8.00	206.9		8.30		
	10/4/2011+	Endyne	< 10	8.7	10.85	288	0.45	7.87	46.6	7.70
	5/2/2012+	Endyne	22	3.7	7.47	247	0.26	7.28	86.4	11.34
	10/3/2012+	Endyne	14	7.3	10.00	292.9	1.10	8.06	105.5	12.45
	5/9/2013+	Endyne	19	3.4	9.06	283	0.29	7.81	-73.5	1.83
	5/9/2013+	Endyne/Duplicate	< 10	3.3						
	10/9/13+	Endyne	10	8.3	9.44	302	0.63	7.99	75.6	22.20
	5/7/2014+	Endyne	15	3.1	7.93	290	0.70	7.98	43.6	16.88
	10/7/2014	Endyne	27	6.8	9.69	257	0.82	7.70	151.1	10.96
	Historical data archived to conserve data table space.									
MW-801DR	5/6/2008	Endyne	33	9.7	10.5	297		7.93		
	10/6/2008	Endyne	< 10	13	9.36	271		7.65		
	5/6/2009	Endyne	< 10	6.7	9.98	310		6.64		
	10/6/2009	Endyne	< 10	13	9.77	301		7.94		
	5/3/2010	Endyne	< 10	8.2	13.5	318		7.72		
	10/5/2010	Endyne	< 10	8.8	12.84	305		7.61		
	5/3/2011	Endyne	< 10	8	12.14	361		7.62		
	10/4/2011^^^	Endyne	< 10	7.7	10.62	317	2.43	7.59	167.6	
	5/2/2012+	Endyne	12	8.2	10.14	321	-0.09	7.89	-36.5	1.98
	10/2/2012+	Endyne	18	8.5	12.4	314	0.66	8.00	192.0	29.06
	5/8/2013+	Endyne	< 10	8.7	10.7	314	1.91	7.30	74.0	22.10
	10/8/13+	Endyne	< 10	6.7	10.78	105	0.44	*9.62*	52.4	15.96
	5/6/14+	Endyne	< 10	6.5	9.59	98	0.89	*9.82*	40.4	15.13
	10/6/2014	Endyne	39	7.4	10.04	91	0.60	*9.34*	21.3	18.96
MW-801BRR	5/6/2008	Endyne	21	7.5	10.92	241		8.13		
	10/6/2008	Endyne	< 10	7.3	8.31	182		8.20		
	5/6/2009	Endyne	17	8.7	9.49	157		7.49		
	10/6/2009	Endyne	< 10	85	9.60	155		8.73		
	5/3/2010	Endyne	< 10	6.8	12.40	150		*8.93*		
	10/5/2010	Endyne	< 10	6.5	11.06	148		*8.97*		
	5/3/2011	Endyne	11	6.7	11.8	147		*9.23*		
	10/4/2011^	Endyne	< 10	7.1	9.89	125	0.99	*9.02*	-177.5	166.1
	10/4/2011+	Endyne/Duplicate	< 10	7.2						
	5/2/2012+	Endyne	10	7.5	9.68	120.00	-0.16	*9.83*	-223.6	26.43
	5/2/2012+	Endyne/Duplicate	< 10	7.5						
	10/2/2012+	Endyne	17	6.8	11.80	121.4	0.20	*9.98*	-360.2	19.04
	10/2/2012+	Endyne/Duplicate	10	7						
	5/8/2013+	Endyne	< 10	6	14.20	62	0.59	7.99	-84.9	9.65
	10/8/13+	Endyne	26	9.6	11.55	318	2.06	7.60	162.8	>1000
	10/8/13+	Endyne/Duplicate	36	10						
	5/6/14+	Endyne	24	8.2	10.30	302	2.30	7.75	101.6	62.18
	10/6/2014	Endyne	12	9.7	11.04	264	1.40	7.40	130.1	8.06

Note:
Shaded values exceed Vermont Groundwater Enforcement Standard, as set by Vermont Groundwater Protection Rule and Strategy (GWPRS) 2005.
Bolded values exceed Vermont Preventive Action Level (PAL) as set by GWPRS, 2005.
Underlined values exceed VT Max. Acceptable Change, GWPRS, 2005
Italicized values exceed Vermont Health Advisory as set by GWPRS, 2005.
[1] from Table 2, GWPRS, 2005.
[2] from Table 3, GWPRS, 2005.
[3] from December 2002 Vermont Department of Health Drinking Water Guidance.
[4] Starting with data on 3/05 to current, samples were analyzed for Specific Conductance (temperature adjusted), as opposed to Conductivity.
The < values listed here are the reported detection limit.
NA = Not analyzed
NS = Not Sampled due to access limitations in 5/05
+MW sampling by low-flow method. Indicator parameters shown are from final stabilized readings or after one half hour, whichever comes first.
^^ Insufficient water to low-flow well, grab sample with Indicator parameters taken from grab
^^^Could not get pump to stabilize flow rate for proper low-flow sampling, sample taken before readings stabilized
Blank cells indicate no analysis; Temp, Spec. Cond., Dissolved Oxygen, pH, Oxygen-Reduction Potential and Turbidity may be available upon requ

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Indicators

		Indicator Parameters [1]							
		COD (mg/L)	Total Sodium (mg/L)	Temp (°C)	Spec. Cond.[4] (us/cm)	Dissolved Oxygen (mg/L)	pH (s.u.)	Oxidation-Reduction Potential (mV)	Turbidity (NTU)
	VT Enforcement Standard [1]	None	250	None	None	None	None	None	None
	VT Preventive Action Level [1]	None	125	None	None	None	None	None	None
	VT Max. Acceptable Change [2]	+25	+10	+10 °F	+100	None	+/-1	None	None
	VT Health Advisory [3]	None	None	None	None	None	6.5-8.5	None	None
	Federal MCL [3]	None	None	None	None	None	None	None	None
Well	Date	Lab							
	Historical data archived to conserve data table space.								
MW-804SR	10/4/2005	Endyne	< 15	4.41	12.48	201		8.28		
	5/2/2006	Endyne			8.15	523		8.02		
	10/3/2006	Endyne	< 15	5.84	12.55	489		7.32		
	5/1/2007	Endyne	< 15	14.2	8.65	501		7.34		
	10/4/2007	Endyne	< 10	7.19	11.45	525		7.67		
	5/6/2008	Endyne	< 10	7.90	7.32	464		8.13		
	10/6/2008	Endyne		6.00	8.29	523		7.13		
	5/6/2009	Endyne	150	9.20	7.80	573		*5.27*		
	10/6/2009	Endyne	190	8.80	9.65	494		7.96		
	5/4/2010	Endyne	230	10.00	14.40	888		7.80		
	10/5/2010	Endyne	170	7.90	10.90	394.5		7.60		
	5/3/2011	Endyne	360	7.60	8.50	494		7.60		
	10/3/2011+	Endyne	26	5.20	12.05	450	1.3	7.12	141.2	20.20
	5/2/2012+	Endyne	12	5.70	8.17	387	2.11	6.68	79.5	83.06
	10/2/2012+	Endyne	< 10	5.90	10.41	538	0.98	7.25	33.8	38.76
	5/9/2013+	Endyne	10	5.70	9.18	518	1.69	6.91	69.3	4.27
	10/9/2013+	Endyne	13	6.00	11.00	365.4	1.10	7.34	47.1	3.67
	5/8/14+	Endyne	17	3.00	7.63	367	4.22	7.40	113.4	6.01
	5/8/14+	Endyne/Duplicate	22	3.00						
	10/7/2014	Endyne	16	6.10	11.12	511	2.58	8.39	10.6	20.90
MW-805S	12/28/2001	Endyne			6.86	161		*9.97*		
	1/3/2002	NS								
	1/15/2002	Endyne			2.3	277		*9.65*		
	1/25/2002	Endyne			6.73	169		***8.80***		
	2/6/2002	Endyne			6.71	168		7.41		
	10/28/2004	Endyne			7.35	228		7.44		
	5/4/2005	Endyne	< 15	3.82	7.61	184		7.35		
	10/4/2005	Endyne	< 15	2.49	12.84	515		7.89		
	5/2/2006	Endyne	< 15	5.63	8.38	182		8.02		
	10/3/2006	Endyne	< 15	4.82	8.84	192		7.63		
	5/1/2007	Endyne	< 15	6.12	10.15	210		7.58		
	10/4/2007	Endyne	< 10	3.75	11.40	209		8.20		
	5/6/2008	Endyne	< 10	8.70	8.24	237		7.84		
	10/6/2008	Endyne	< 10	8.30	8.19	325		7.77		
	5/6/2009	Endyne	390	17.00	9.17	304		*4.08*		
	10/6/2009	Endyne	46	8.90	8.80	201		8.00		
	5/4/2010	Endyne	110	7.90	9.70	268.1		7.80		
	10/4/2010	Endyne	180	8.30	9.50	220		*9.20*		
	5/4/2011	Endyne	14	7.80	8.80	251.3		8.30		
	6/20/2011**	Endyne	27	7.10	17.88	261		7.74		
	10/4/2011^^	Endyne	170	9.60	9.94	293	7.59	7.80	68.00	
	5/2/2012^^	Endyne	34	7.10	10.75	251	9.35	7.41	40.00	
	10/2/2012^^	Endyne	560	5.40	10.03	308		7.48		
	5/9/2013^^/	Endyne	1400	15.00	10.00	196.5		8.00		
	10/10/2013^^	Endyne	63	8.90	10.50	270		7.72		
	5/7/14^^	Endyne	170	5.10	10.45	300	7.10	7.87	78.40	
	10/7/2014^^	Endyne	110	5.10	10.35	275	7.80	7.40	97.20	2.75
DW-8519 (St. Onge 1999 Well) St. Onge Farm Well (2005) (#36516)	10/28/2004	Endyne	< 15	68.1	9.68	1,352		7.25		
	5/3/2005	Endyne	< 15	75.7	8.47	1,206		7.17		
	10/4/2005	Endyne	< 15	86	13.44	1,496		7.51		
	5/2/2006	Endyne	< 15	94.5	15.9	1,305		7.45		
	10/3/2006	Endyne	< 15	106.0	10.15	1,573		7.15		
	5/1/2007	Endyne	36	47.0	10.24	830		7.31		
	10/4/2007	Endyne	< 10	116.0	12.45	1,394		7.31		
	5/6/2008	Endyne	< 10	46.0	10.04	980		7.23		
	10/6/2008	Endyne	< 10	110.0	9.97	1,566		7.52		
	5/6/2009	Endyne	< 10	25.0	9.40	659		7.90		
	10/6/20009	Endyne	< 10	85.0	9.96	1,566		7.20		
	5/4/2010	Endyne	< 14	41.0		1,207		7.50		
	10/5/2010	Endyne	12	8.3	15.10	297		8.20		
	5/4/2011	Endyne	10	36.0	10.30	900		7.13		
	10/5/2011	Endyne	< 10	54.0	9.67	1,114	1.89	7.18	112.0	
	5/3/2012	Endyne	22	62.0	9.95	954	2.68	7.22	35.9	1.85
	10/3/2012	Endyne	10	69.0	10.21	1,214		7.44		
	5/8/2013	Endyne	15	67.0	11.40	756		7.70		
	10/9/2013	Endyne	25	74.0	11.31	1,219		*6.43*		
	5/8/2014	Endyne	28	55.0	9.97	991	2.49	7.44	103.3	5.81
	10/8/2014	Endyne	16	77.0	12.21	238	1.98	7.81	180.4	2.08

Note:
Shaded values exceed Vermont Groundwater Enforcement Standard, as set by Vermont Groundwater Protection Rule and Strategy (GWPRS) 2005.
Bolded values exceed Vermont Preventive Action Level (PAL) as set by GWPRS, 2005.
Underlined values exceed VT Max. Acceptable Change, GWPRS, 2005
Italicized values exceed Vermont Health Advisory as set by GWPRS, 2005.
[1] from Table 2, GWPRS, 2005.
[2] from Table 3, GWPRS, 2005.
[3] from December 2002 Vermont Department of Health Drinking Water Guidance.
[4] Starting with data on 3/05 to current, samples were analyzed for Specific Conductance (temperature adjusted), as opposed to Conductivity.
The < values listed here are the reported detection limit.
NA = Not analyzed
NS = Not Sampled due to access limitations in 5/05
**Re-sampling was conducted on 6/20/11 due to questionable results from 5/4/11
+MW sampling by low-flow method. Indicator parameters shown are from final stabilized readings or after one half hour, whichever comes first.
^^ Insufficient water to low-flow well, grab sample with Indicator parameters taken from grab
/ COD sample not preserved to pH<2 qualified by lab for several ICP metal values due to inter-element interfrenece from sample matrix due to significant amount of sediment
Blank cells indicate no analysis; Temp, Spec. Cond., Dissolved Oxygen, pH, Oxygen-Reduction Potential and Turbidity may be available upon request.

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			Indicator Parameters [1]							
			COD (mg/L)	Total Sodium (mg/L)	Temp (°C)	Spec. Cond.[4] (us/cm)	Dissolved Oxygen (mg/L)	pH (s.u.)	Oxidation-Reduction Potential (mV)	Turbidity (NTU)
	VT GES [1]		None	250	None	None	None	None	None	None
	VT Preventive Action Level [1]		None	125	None	None	None	None	None	None
	VT Max. Acceptable Change [2]		+25	+10	+10 °F	+100	None	+/-1	None	None
	VT Health Advisory [3]		None	None	None	None	None	6.5-8.5	None	None
	Federal MCL [3]		None	None	None	None	None	None	None	None
Well	Date	Lab								
MW-BRW-1	3/10/2005	Endyne	120	6.76	NA	402		6.59		
	3/16/2006	Endyne	26	10.7	3.4	479		6.50		
	2/6/2007	Endyne	150	9.12	3.57	480		6.62		
	2/12/2008	Endyne	< 15		2.1	473		6.78		
	2/3/2009	Endyne	120	8.5	1.12	416		*6.42*		
	2/10/2010	Endyne	77	6.6	3.3	366		6.50		
	2/8/2011^^	Endyne	130	8.3	0.11	319		*6.36*		
	2/8/2012^^	Endyne	130	6.8	4.9	210		*6.30*		
	2/5/2013^^	Endyne	35	7.8	2.5	658		7.30		
	2/24/2014	Endyne	37	8.9	3.62	449		6.66		
MW-BRW-2	3/10/2005	Endyne	32	5.74	NA	307		6.75		
	3/16/2006	Endyne	< 15	7.00	2.4	320		*6.40*		
	2/6/2007	Endyne	800	8.47	1.8	295		6.73		
	2/21/2008	Endyne	75		-0.26	52		7.74		
	2/3/2009	Endyne	34	3.70	1.21	466		6.57		
MW-BRW-2R	2/16/2010	Endyne	170	6.60	5.6	288		7.40		
	2/8/2011^^	Endyne	220	6.40	5.16	304		7.57		
	2/8/2012^^	Endyne	570	5.50	4.8	185		6.80		
	2/5/2013^^	Endyne	270	6.00	3.9	309		7.40		
	2/24/2014	Endyne	17	6.00	4.54	298		6.91		
BRW-3S	5/21/2013	Endyne	17	7.0	8.09	260	0.67	*5.01*	-2.9	NA
	6/13/2013	Endyne	< 10	7.2	10.18	248	0.25	6.64	-119.2	4.92
	7/8/2013	Endyne	15	6.3	11.36	248	0.28	6.82	-111.5	12.60
	7/25/2013	Endyne	14	6.2	10.20	245	0.19	6.96	-114.9	3.38
	9/24/2013	Endyne	13	6.6	10.67	227	0.46	7.01	-94.3	6.50
	10/10/2013	Endyne	< 10	6.5	11.30	190.3	0.59	7.79	-108.6	1.06
	10/29/2013	Endyne	15	6.9	9.35	260	2.42	7.46	156.1	1.14
	5/7/2014	Endyne	12	5.8	7.62	248	0.43	7.75	-73.0	2.07
Duplicate	5/7/2014	Endyne	18	6.3						
	10/7/2014	Endyne	12	6.2	10.69	268	1.74	7.68	-83.8	1.07
BRW-3D	9/24/2013	Endyne	24	8.5	10.86	212	0.90	*6.37*	-120.9	6.50
	10/10/2013	Endyne	< 10	8.0	10.60	176.8	0.48	8.10	-153.3	13.59
	10/29/2013	Endyne	17	6.9	8.19	258	0.21	7.72	199.3	51.02
	5/7/2014	Endyne	20	6.3	8.82	249	0.37	7.86	-21.9	85.46
	10/7/2014	Endyne	< 10	6.7	9.03	268	1.20	8.13	-112.0	2.97

Shaded values exceed Vermont Groundwater Enforcement Standard, as set by Vermont Groundwater Protection Rule and Strategy (GWPRS) 2005.
Bolded values exceed Vermont Preventive Action Level (PAL) as set by GWPRS, 2005.
Underlined values exceed VT Max. Acceptable Change, GWPRS, 2005.
Italicized values exceed Vermont Health Advisory as set by GWPRS, 2005.
[1] VT GES = VT Groundwater Enforcement Standards and Preventive Action Levels from Table 2, Groundwater Protection Rule & Strategy (GWPRS), 2005.
[2] VT Maximum Acceptable Change from Table 3, GWPRS, 2005.
[3] Vermont Health Advisory Levels and Federal MCLs from December 2002 Vermont Department of Health Drinking Water Guidance.
"<" means not detected, to the reported detection limit shown.
* GP-4 & GP-2R are grab samples by separate bailers, due to insufficient water to sample by low-flow method.
^pH probe malfunction, reading may not be accurate.
*^No sample collected, well was inaccessible due to flooding.
NA = Not analyzed.
All samples collected via low-flow technology when sufficient water was available unless otherwise indicated. Indicator parameters shown are from stabilized readings.
^^ grab sample, with Indicator parameters taken from grab, because there was insufficient water to sample using low-flow method.
BRW-2 was destroyed in February 2010 and replaced to the same depth; with BRW-2R approx. 2-feet west of BRW-2.
Blank cell indicates no data collected.

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Inorganics

				Primary Groundwater Quality Parameters [1]									Secondary Groundwater Quality Parameters [2]						
				Total Arsenic (ug/L)	Total Cadmium (ug/L)	Total Chromium (ug/L)	Total Copper (mg/L)	Total Lead (ug/L)	Total Nickel (ug/L)	Total Manganese*** (mg/L)	Dissolved Manganese*** (mg/L)	Total Mercury (ug/L)	Total Chloride (mg/L)	Total Copper (mg/L)	Total Iron (mg/L)	Dissolved Iron (mg/L)	Total Manganese (mg/L)	Dissolved Manganese (mg/L)	Total Zinc (mg/L)
	VT GES**[1]			10.0	5.0	100.0	1.300	15.0	100.0	0.300	0.300	2.0	250	1.0	0.3	0.3	0.05	0.05	5
	VT Preventive Action Level* [1]			1.0	2.5	50.0	0.650	1.5	50.0	0.150	0.150	0.5	125	0.5	0.15	0.15	0.025	0.025	2.5
	VT Health Advisory [2]			None	None	None	1.300	15	100	0.300	0.300	None	250	1.0	0.3	0.3	0.05	0.05	5
	Federal MCL [2]			10	5	100	None	None	None	None	None	2	None	None	None	None	None	None	None
Well	Date	Lab	Remarks																
MW A-1	Earlier data are archived to conserve table space. See notes [3] and [4] below.																		
	5/15/1998	Endyne	see note [a]	< 5	< 5	< 10	< 0.010	< 5	< 20	0.014	0.013	< 2.0	14.0	< 0.010	0.061	0.049	0.014	0.013	0.017
	10/13/1998	Endyne	see note [b]	**7**	< 2	**173**	< 0.020	**15**	< 20	**0.167**	0.026	< 1.0	6.1	< 0.020	**4.21**	0.026	**0.167**	**0.026**	0.062
Downgradient	5/5/1999	Endyne	see note [d]	< 5	< 3	11	< 0.010	**2**	< 20	0.013	0.007	< 1.0	7.0	< 0.010	0.146	< 0.010	0.013	0.007	< 0.010
	10/12/1999	Endyne	see note [f]	**5**	< 3	**69**	< 0.010	**7**	< 20	0.039	0.005	< 1.0	14.9	< 0.010	**2.70**	< 0.010	**0.039**	0.005	0.019
	5/4/2000	Endyne	see note [f]	**5**	< 3	< 10	< 0.010	< 2	< 20	0.010	< 0.005	< 1.0	12.2	< 0.010	**0.220**	< 0.010	0.010	< 0.005	< 0.010
	10/10/2000	Endyne	see note [g]	**5**	< 3	**125**	< 0.010	**8**	< 20	0.043	0.006	< 1.0	14.7	< 0.010	**4.05**	< 0.010	**0.043**	0.006	0.036
	5/3/2001	Endyne	see note [h]	**2.0**	**3.0**	10	< 0.010	**2**	< 20	0.052	0.028	< 2.0	23.9	< 0.010	**0.75**	< 0.010	**0.052**	**0.028**	0.02
	10/3/2001	Endyne	see note [h]	< 2.0	< 3.0	<10	< 0.010	< 2	< 20	0.006	< 0.005	< 1.0	24.8	< 0.010	**0.27**	< 0.010	0.006	< 0.005	< 0.02
	5/2/2002	Endyne	see note [h]	**2.0**	< 3.0	<10	< 0.010	< 2	< 20	0.024	0.019	< 1.0	39.3	< 0.010	**0.338**	0.019	0.024	0.019	< 0.020
	10/2/2002	Endyne	see note [a]	**5.0**	< 3.0	18.0	< 0.010	< 2	< 20	0.102	0.107	< 1.0	43.3	< 0.010	**0.562**	0.057	**0.102**	**0.107**	< 0.020
	5/6/2003	Endyne	see note [d]	**7.0**	< 3.0	< 10.0	< 0.010	< 2	< 20	**0.336**	**0.363**	< 1.0	56.0	< 0.010	**0.217**	0.051	**0.336**	**0.363**	< 0.020
duplicate	5/6/2003	Endyne	see note [d]	**7.0**	< 3.0	< 10.0	< 0.010	< 2	< 20	**0.343**	**0.374**	< 1.0	56.3	< 0.010	**0.591**	0.026	**0.343**	**0.374**	< 0.020
	10/2/2003	Endyne	see note [d]	**9.0**	< 3.0	< 10.0	< 0.010	< 2	< 20	**0.486**	**0.471**	< 1.0	66.1	< 0.010	**0.282**	0.016	**0.486**	**0.471**	< 0.020
	5/4/2004	Endyne	see note [d]	**14**	< 3.0	< 10.0	< 0.010	< 2	< 20	**0.618**	**0.559**	< 1.0	66.6	< 0.010	**0.726**	0.082	**0.618**	**0.559**	< 0.020
	10/5/2004	Endyne	see note [f]	**18**	< 3.0	< 10.0	< 0.010	< 2	< 20	**0.640**	**0.632**	< 1.0	77.3	< 0.010	**0.793**	< 0.010	**0.640**	**0.632**	< 0.020
	5/3/2005	Endyne	see note [bb]	**17**	< 3.0	< 10.0	< 0.010	< 2	< 20	**0.685**	**0.727**	< 1.0	92.7	< 0.010	**1.51**	0.071	**0.685**	**0.727**	< 0.020
	10/4/2005	Endyne	see note [s]	**22**	< 2.0	< 10.0	0.010	< 10	< 20	**0.494**	**0.535**	< 1.0	74.1	0.010	**1.11**	0.024	**0.494**	**0.535**	< 0.020
	5/2/2006	Endyne	see note [ss]	**28**	< 2.0	12	< 0.010	< 10	< 20	**0.589**	**0.502**	< 1.0	70.8	< 0.010	**3.41**	0.017	**0.589**	**0.502**	< 0.020
	10/3/2006	Endyne	see note [ccc]	**43**	< 2.0	< 20.0	< 0.020	**2**	< 20	**0.400**	**0.43**	< 1.0	68.9	< 0.020	**2.09**	0.020	**0.400**	**0.430**	< 0.020
duplicate	10/3/2006	Endyne	see note [xxx]	**27**	< 2.0	< 20.0	< 0.020	**2**	< 20	**0.486**	**0.424**	< 1.0	68.6	< 0.020	**2.93**	0.024	**0.486**	**0.424**	< 0.020
	5/1/2007	Endyne	see note [a1]	**21**	< 2.0	< 20.0	< 0.020	< 1	< 20	**0.442**	**0.414**	< 1.0	76.6	< 0.020	**1.91**	**1.18**	**0.442**	**0.414**	< 0.020
	10/4/2007	Endyne	see note [y1]	**24**	< 2.0	< 20.0	< 0.020	< 1	< 20	**0.455**	**0.435**	< 1.0	73.0	< 0.020	**4.33**	**0.890**	**0.455**	**0.435**	0.022
	5/6/2008	Endyne	see note [t2]	**22**	< 2.0	< 20.0	< 0.020	< 1	< 20	**0.45**	**0.43**	< 1.0	62.0	< 0.020	**1.60**	**1.300**	**0.45**	**0.43**	< 0.020
	10/6/2008	Endyne	see note [v3]	**22**	< 2.0	< 20.0	< 0.020	< 1	< 20	**0.50**	**0.48**	< 1.0	61.0	< 0.020	**3.50**	**1.000**	**0.50**	**0.48**	< 0.020
	5/6/2009	Endyne	see note [v4]	**24**	**3.0**	< 20.0	< 0.020	< 1	< 20	**0.41**	**0.43**	< 1.0	64.0	< 0.020	**3.40**	**1.500**	**0.41**	**0.43**	< 0.020
	10/6/2009	Endyne	see note [x5]	**29**	< 2.0	< 20.0	< 0.020	< 1	< 20	**0.44**	**0.55**	< 1.0	66.0	< 0.020	**2.60**	**2.400**	**0.44**	**0.55**	< 0.020
	5/4/2010	Endyne	see note [x6]	**20**	< 2.0	< 5.0	< 0.020	< 1	5.0	**0.53**	**0.52**	< 0.2	83.0	< 0.020	**4.10**	**2.500**	**0.53**	**0.52**	0.008
	10/5/2010	Endyne	see note [w7]	**18**	< 2.0	< 5.0	< 0.020	< 1	<5	**0.48**	**0.50**	< 0.2	74.0	< 0.020	**4.40**	**2.400**	**0.48**	**0.5**	< 0.005
	5/4/2011	Endyne	see note [t8]	**13**	< 2.0	< 5.0	< 0.020	< 1	5.0	**0.50**	**0.49**	< 0.2	65.0	< 0.020	**3.10**	**2.800**	**0.50**	**0.49**	< 0.005
	10/5/2011+	Endyne	see note [v8]	**15**	< 2.0	< 5.0	< 0.020	< 1	6.0	**0.43**	**0.41**	< 0.2	73.0	< 0.020	**4.80**	**4.100**	**0.43**	**0.41**	0.130
	5/1/2012+	Endyne	see note [w9]	**13**	< 2.0	< 5.0	< 0.020	< 1	7.0	**0.55**	**0.55**	< 0.2	94.0	< 0.020	**5.90**	**5.500**	**0.55**	**0.55**	< 0.020
	10/1/2012+	Endyne	see note [b10]	**17**	< 2.0	< 5.0	< 0.025	< 1	6.0	**0.51**	**0.55**	< 0.2	93.0	< 0.025	**6.20**	**5.800**	**0.51**	**0.55**	< 0.020
	5/7/2013+	Endyne	see note [n10]	**21**	< 2.0	< 5.0	< 0.020	< 1	9.0	**0.60**	**0.60**	< 0.2	98.0	< 0.020	**6.60**	**1.600**	**0.60**	**0.60**	< 0.020
	10/8/2013+	Endyne	see note [n11]	**23**	< 2.0	< 5.0	< 0.020	< 1	14.0	**0.63**	**0.57**	< 0.2	120.0	< 0.020	**6.10**	**5.000**	**0.63**	**0.57**	< 0.020
	5/6/2014+	Endyne	see note [x11]	**22**	< 2.0	< 5.0	< 0.020	< 1	16.0	**0.61**	**0.58**	< 0.2	**130.0**	< 0.020	**5.90**	**4.000**	**0.61**	**0.58**	< 0.020
	10/6/2014+	Endyne	see note [n11]	**27**	< 2.0	< 5.0	< 0.020	< 1	11.0	**0.54**	**0.46**	< 0.2	88.0	< 0.020	**5.50**	**4.200**	**0.54**	**0.46**	< 0.020
	See notes [3] and [4] below.																		
	Normal Distribution?			Yes		No				Yes	No				Yes	No	Yes	No	
	Transformation Closest to Normal					Ln					Exp					Sqrt		Exp	
	Does Transformation Produce Normality?					Yes					Yes					Yes		Yes	
	Mean of Transformed Data					2.49					1.48					-1.75		1.48	
	Mean of Untransformed Data			15.72						0.38					0.46		0.38		
	Std. Dev. of Transformed Data					0.86					0.31					2.48		0.31	
	Std. Dev. of Untransformed Data			9.72						0.22					1.27		0.22		
	n			36		36				36	36				36	36	36	36	
	Student's t-value (one-tailed)			1.69		1.69				1.69	1.69				1.69	1.69	1.69	1.69	
	Upper 95% Confidence Value			18.455		15.385				0.441	0.449				0.813	0.350	0.441	0.449	
	Lower 95% Confidence Value			**12.989**		9.476				**0.316**	**0.330**				0.099	0.087	**0.316**	**0.330**	

[1] VT GES = VT Groundwater Enforcement Standards and Preventive Action Levels from Table 1, Groundwater Protection Rule & Strategy (GWPRS), 2005.

[2] From December 2002 Vermont Department of Health Drinking Water Guidance.

* Bold values exceed Vermont Preventive Action Level

** Shaded values exceed Vermont GES, as set by Vermont GWPRS, 2005.

*** As of 2/26/2007, the Primary Vermont Groundwater Enforcement Standard for Manganese was changed from 0.840 mg/L to 0.300 mg/L.

The < values listed here are the reported detection limit.

[a] through [u3]: See last page of inorganic data for additional notes.

[3] Statistical analyses are conducted only on data since 5/15/1998, when requirement changed to TOTAL metals instead of dissolved metals, except for Mn & Fe (see note below).
Archived data has not been included in statistical analyses since 5/15/1998.

[4] For Fe and Mn only, requirement since 5/15/1998 is to analyze for both total and dissolved forms. The dissolved archived data are not included in the statistical analyses to give consistency between dissolved and total Mn & Fe as prior to 5/98, samples were not analyzed for total and dissolved metals on the same date. This gives consistency of comparisons between dissolved and total Fe and Mn.

+MW sampling utilized low-flow technology at the request of the State when sufficient water was available.

NEWSVT Landfills
Coventry, Vermont
Groundwater Analyses
Inorganics

				Primary Groundwater Quality Parameters [1]									Secondary Groundwater Quality Parameters [2]						
				Total Arsenic (ug/L)	Total Cadmium (ug/L)	Total Chromium (ug/L)	Total Copper (mg/L)	Total Lead (ug/L)	Total Nickel (ug/L)	Total Manganese*** (mg/L)	Dissolved Manganese*** (mg/L)	Total Mercury (ug/L)	Total Chloride (mg/L)	Total Copper (mg/L)	Total Iron (mg/L)	Dissolved Iron (mg/L)	Total Manganese (mg/L)	Dissolved Manganese (mg/L)	Total Zinc (mg/L)
	VT GES**[1]			10.0	5.0	100.0	1.300	15.0	100.0	0.300	0.300	2.0	250	1.0	0.3	0.3	0.05	0.05	5
	VT Preventive Action Level* [1]			1.0	2.5	50.0	0.650	1.5	50.0	0.150	0.150	0.5	125	0.5	0.15	0.15	0.025	0.025	2.5
	VT Health Advisory [2]			None	None	None	1.300	15	100	0.300	0.300	None	250	1.0	0.3	0.3	0.05	0.05	5
	Federal MCL [2]			10	5	100	None	None	None	None	None	2	None	None	None	None	None	None	None
Well	Date	Lab	Remarks																
MW-B1	Earlier data are archived to conserve table space. See notes [3] and [4] below.																		
	5/15/1998	Endyne	see note [a]	**23**	< 5	< 10	< 0.010	< 5	< 20	0.050	0.049	< 2.0	2.77	< 0.010	0.102	0.065	**0.050**	**0.049**	< 0.010
	10/13/1998	Endyne	see note [b]	**37**	< 2	< 10	< 0.020	**18**	**59**	**0.496**	0.037	< 1.0	< 1.00	< 0.020	**7.5**	< 0.020	**0.496**	**0.037**	0.048
Downgradient	5/5/1999	Endyne	see note [d]	**27**	< 3	< 10	0.011	**14**	< 20	**0.209**	0.045	< 1.0	< 1.00	0.011	**2.68**	< 0.010	**0.209**	**0.045**	0.044
	10/12/1999	Endyne	see note [f]	**24**	< 3	< 10	< 0.010	**8**	< 20	0.115	0.054	< 1.0	10.4	< 0.010	**4.1**	0.051	**0.115**	**0.054**	< 0.010
	5/4/2000	Endyne	see note [f]	**33**	< 3	< 10	< 0.010	**5**	< 20	0.146	0.044	< 1.0	< 4.00	< 0.010	**4.29**	< 0.010	**0.146**	**0.044**	0.016
	10/10/2000	Endyne	see note [f]	**24**	< 3	< 10	< 0.010	**5**	< 20	0.133	0.049	< 1.0	< 4.00	< 0.010	**4.24**	< 0.010	**0.133**	**0.049**	0.022
	5/3/2001	Endyne	see note [i]	**17**	< 3	< 10	0.013	**4**	< 20	**0.161**	0.045	< 2.0	< 2.50	< 0.013	**7.55**	< 0.010	**0.161**	**0.045**	< 0.020
	10/3/2001	Endyne	see note [i]	**22**	< 3	< 10	< 0.010	**2**	< 20	0.079	0.045	< 1.0	< 2.50	< 0.010	**1.61**	< 0.010	**0.079**	**0.045**	< 0.020
	5/2/2002	Endyne	see note [ll]	**28**	< 3	15	0.011	**5**	37.0	**0.209**	0.046	< 1.0	< 2.50	0.011	**5.94**	0.011	**0.209**	**0.046**	0.028
	10/2/2002	Endyne	see note [a]	**32**	< 3	18	< 0.010	**4**	< 20	0.137	0.046	< 1.0	< 2.50	< 0.010	**4.92**	< 0.010	**0.137**	**0.046**	< 0.020
duplicate	10/2/2002	Endyne	see note [a]	**28**	< 3	16	< 0.010	**2**	< 20	0.103	0.051	< 1.0	< 2.50	< 0.010	**3.00**	< 0.010	**0.103**	**0.051**	< 0.020
	5/6/2003	Endyne	see note [d]	**28**	< 3	< 10	< 0.010	**3**	< 20	0.087	0.049	< 1.0	< 2.50	< 0.010	**1.04**	< 0.010	**0.087**	**0.049**	< 0.020
	10/2/2003	Endyne	see note [d]	**30**	< 3	< 10	< 0.010	**3**	< 20	0.086	0.048	< 1.0	< 2.50	< 0.010	**1.68**	< 0.010	**0.086**	**0.048**	< 0.020
	5/4/2004	Endyne	see note [d]	**25**	< 3	< 10	< 0.010	**4**	< 20	0.088	0.046	< 1.0	< 2.50	< 0.010	**1.92**	< 0.010	**0.088**	**0.046**	< 0.020
duplicate	5/4/2004	Endyne	see note [d]	**31**	< 3	12	< 0.010	**6**	33	**0.193**	0.046	< 1.0	< 2.50	< 0.010	**6.30**	< 0.010	**0.193**	**0.046**	< 0.020
	10/5/2004	Endyne	see note [f]	**26**	< 3	< 10	0.013	**3**	22	0.096	0.052	< 1.0	< 2.50	< 0.010	**2.32**	< 0.010	**0.096**	**0.052**	< 0.020
	5/3/2005	Endyne	see note [dd]	**35**	< 3	< 34	0.018	**11**	**51**	**0.501**	0.049	< 1.0	< 2.50	0.018	**18.20**	< 0.010	**0.501**	**0.049**	0.034
	10/4/2005	Endyne	see note [p]	**27**	< 2	< 10	0.010	< 10	< 20	**0.176**	0.060	< 1.0	< 2.50	0.010	**4.48**	0.010	**0.176**	**0.060**	< 0.020
	5/2/2006	Endyne	see note [rr]	**49**	< 2	**54**	0.032	**19**	**102**	**0.93**	0.047	< 1.0	< 2.50	0.032	**27.30**	< 0.01	**0.933**	**0.047**	0.069
	10/3/2006	Endyne	see note [ddd]	**82**	< 2	**225**	0.127	**55**	**466**	**3.38**	0.042	< 1.0	< 2.50	0.127	**135.00**	< 0.020	**3.380**	**0.042**	0.251
	5/1/2007	Endyne	see note [b1]	**27**	**5**	30	< 0.020	**8**	**57**	**0.54**	0.057	< 1.0	< 2.50	< 0.020	**15.0**	0.145	**0.542**	**0.057**	0.043
	10/4/2007	Endyne	see note [z1]	**47**	**5**	**134**	0.054	**20**	**232**	**2.13**	0.046	< 1.0	< 2.50	0.054	**59.7**	< 0.020	**2.130**	**0.046**	0.111
duplicate	10/4/2007	Endyne	see note [z1']	**17**	< 2	< 20	< 0.020	**6**	< 20	**0.74**	0.062	< 1.0	< 2.50	< 0.020	**4.56**	**0.232**	**0.742**	**0.062**	< 0.020
	5/6/2008	Endyne	see note [u2]	**12**	**5**	< 20	< 0.020	**7**	0.03	**0.23**	0.044	< 1.0	< 2.50	< 0.020	**7.3**	0.130	**0.230**	**0.044**	< 0.021
	10/6/2008	Endyne	see note [w3]	**24**	< 2	**74**	0.053	**20**	0.15	**1.50**	0.053	< 1.0	< 2.50	0.053	**35**	0.076	**1.500**	**0.053**	0.084
	5/6/2009	Endyne	see note [w4]	**18**	< 2	23	< 0.020	**10**	**54**	**0.52**	0.047	< 1.0	< 2.50	< 0.020	**14**	0.140	**0.520**	**0.047**	0.037
	10/6/2009	Endyne	see note [y5]	**16**	< 2	< 20	< 0.020	**5**	< 20	**0.17**	0.059	< 1.0	< 2.50	< 0.020	**4.2**	**0.160**	**0.170**	**0.059**	< 0.020
	5/4/2010	Endyne	see note [y6]	**21**	< 2	32	0.022	**11**	**60**	**0.56**	0.046	< 0.2	< 2.50	< 0.022	**15**	0.110	**0.560**	**0.046**	< 0.039
	10/5/2010	Endyne	see note [x7]	**42**	< 2	**190**	0.100	**43**	**340**	**3.0**	0.048	< 0.2	3.2	0.1	**88**	0.150	**3.0**	**0.048**	0.18
	5/4/2011	Endyne	see note [u8]	**91**	**5**	**510**	0.200	**101**	**890**	**7.5**	0.05	< 0.2	< 2.5	0.2	**200**	**0.230**	**7.5**	**0.05**	0.41
	10/5/2011+	Endyne	see note [i9]	**24**	< 2	24	< 0.020	**5**	33	**0.29**	0.045	< 0.2	< 2.5	< 0.020	**9.6**	**0.160**	**0.29**	**0.045**	0.022
	5/1/2012+	Endyne	see note [x9]	**22**	< 2	6	< 0.020	**2**	11	0.14	0.048	< 0.2	< 2.5	< 0.020	**3.6**	< 0.020	**0.14**	**0.048**	< 0.020
	10/2/2012+	Endyne	see note [r10]	**22**	< 2	10	< 0.020	**3**	19	**0.17**	0.044	< 0.2	< 2.5	< 0.020	**5.9**	0.150	**0.17**	**0.044**	< 0.020
duplicate	10/2/2012+	Endyne	see note [s10]	**25**	< 2	10	< 0.020	**3**	20	**0.17**	0.052	< 0.2	< 2.5	< 0.020	**6.0**	**0.160**	**0.17**	**0.052**	< 0.020
	5/7/13+	Endyne	see note [o10]	**23**	< 2	< 5	< 0.020	< 1	< 5	0.06	0.052	< 0.2	< 2.5	< 0.020	**0.45**	0.050	**0.06**	**0.052**	< 0.020
	10/8/2013+	Endyne	see note [o10]	**16**	< 2	< 5	< 0.020	< 1	< 5	< 0.020	< 0.020	< 0.2	< 2.5	< 0.020	0.085	< 0.020	< 0.020	< 0.020	< 0.020
	5/6/2014+	Endyne	see note [o10]	**19**	< 2	< 5	< 0.020	< 1	< 5	0.047	0.053	< 0.2	< 2.5	< 0.020	0.12	0.088	**0.047**	**0.053**	< 0.020
	10/6/2014+	Endyne	see note [o10]	**22**	< 2	< 5	< 0.020	< 1	< 5	0.049	0.048	< 0.2	2.7	< 0.020	**0.16**	0.140	**0.049**	**0.048**	< 0.020
	See notes [3] and [4] below.																		
	Normal Distribution?			No	No	No		No	No	No					No		No	Yes	
	Transformation Closest to Normal			Ln	Ln	Ln		Ln	Ln	Ln					Ln		Ln		
	Does Transformation Produce Normality?			Yes	No	No		Yes	No	Yes					Yes		Yes		
	Mean of Transformed Data			3.29	0.97	2.88		1.77	3.08	-1.44					1.55		-1.44		
	Mean of Untransformed Data																	0.05	
	Std. Dev. of Transformed Data			0.41	0.32	1.10		1.09	1.81	1.31					1.82		1.31		
	Std. Dev. of Untransformed Data																	0.01	
	n			32	38	38		38	38	38					38		38	38	
	Student's t-value (one-tailed)			1.69	1.69	1.69		1.69	1.69	1.69					1.69		1.69	1.69	
	Upper 95% Confidence Value			30.187	2.886	24.034		7.920	35.627	0.338					7.726		0.338	0.050	
	Lower 95% Confidence Value			**23.674**	2.429	13.180		**4.366**	13.243	**0.165**					**2.861**		**0.165**	**0.046**	

[1] VT GES = VT Groundwater Enforcement Standards and Preventive Action Levels from Table 1, Groundwater Protection Rule & Strategy (GWPRS), 2005.

[2] From December 2002 Vermont Department of Health Drinking Water Guidance.

* Bold values exceed Vermont Preventive Action Level

** Shaded values exceed Vermont GES, as set by Vermont GWPRS, 2005.

*** As of 2/26/2007, the Primary Vermont Groundwater Enforcement Standard for Manganese was changed from 0.840 mg/L to 0.300 mg/L.

The < values listed here are the reported detection limit.

[a] through [u3]: See last page of inorganic data for additional notes.

[3] Statistical analyses are conducted only on data since 5/15/1998, when requirement changed to TOTAL metals instead of dissolved metals, except for Mn & Fe (see note below).
Archived data has not been included in statistical analyses since 5/15/1998.

[4] For Fe and Mn only, requirement since 5/15/1998 is to analyze for both total and dissolved forms. The dissolved archived data are not included in the statistical analyses to give consistency between dissolved and total Mn & Fe as prior to 5/98, samples were not analyzed for total and dissolved metals on the same date. This gives consistency of comparisons between dissolved and total Fe and Mn.

+MW sampling utilized low-flow technology at the request of the State when sufficient water was available.

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				Primary Groundwater Quality Parameters [1]									Secondary Groundwater Quality Parameters [2]						
				Total Arsenic (ug/L)	Total Cadmium (ug/L)	Total Chromium (ug/L)	Total Copper (mg/L)	Total Lead (ug/L)	Total Nickel (ug/L)	Total Manganese*** (mg/L)	Dissolved Manganese*** (mg/L)	Total Mercury (ug/L)	Total Chloride (mg/L)	Total Copper (mg/L)	Total Iron (mg/L)	Dissolved Iron (mg/L)	Total Manganese (mg/L)	Dissolved Manganese (mg/L)	Total Zinc (mg/L)
	VT GES**[1]			10.0	5.0	100.0	1.300	15.0	100.0	0.300	0.300	2.0	250	1.0	0.3	0.3	0.05	0.05	5
	VT Preventive Action Level* [1]			1.0	2.5	50.0	0.650	1.5	50.0	0.150	0.150	0.5	125	0.5	0.15	0.15	0.025	0.025	2.5
	VT Health Advisory [2]			None	None	None	1.300	15	100	0.300	0.300	None	250	1.0	0.3	0.3	0.05	0.05	5
	Federal MCL [2]			10	5	100	None	None	None	None	None	2	None	None	None	None	None	None	None
Well	Date	Lab	Remarks																
MW-BRW-1	3/10/2005	Endyne	see note [a]	**4**	< 3	< 10	< 0.010	< 2	46	**1.04**	**0.962**	< 1	< 2.50	< 0.010	**26.2**	0.046	**1.04**	**0.962**	< 0.020
	3/16/2006	Endyne	see note [c]	< 2	< 2	< 10	< 0.010	< 1	< 20	**1.25**	**1.14**	< 1	< 2.50	< 0.010	**38.9**	**3.47**	**1.25**	**1.14**	< 0.020
	2/6/2007	Endyne	see note [e]	< 2	< 2	22	< 0.020	< 1	< 20	**1.16**	**1.18**	< 1	< 2.50	< 0.020	**36.3**	**33.40**	**1.16**	**1.18**	< 0.020
	2/12/2008	Endyne	see note [g]	< 2	< 2	< 20	0.029	< 1	< 20	**1.20**	**1.10**	< 1	< 5.0	0.029	**44**	**26.00**	**1.20**	**1.10**	< 0.020
	2/3/2009	Endyne	see note [i]	**3**	< 2	< 20	< 0.020	< 1	< 20	**1.10**	**1.10**	< 1	< 2.5	< 0.020	**38**	**30.00**	**1.10**	**1.10**	< 0.020
	2/10/2010	Endyne	see note [k]	**2**	< 2	< 5	< 0.020	< 1	8	**0.80**	**0.86**	< 0.2	2.7	< 0.020	**25**	**22.00**	**0.80**	**0.86**	0.011
	2/8/2011	Endyne	see note [m]	**11**	< 2	**68**	0.360	**3**	**55**	**1.30**	**1.00**	< 0.2	< 2.5	< 0.360	**62**	**32.0**	**1.30**	**1.00**	0.024
	2/8/2012	Endyne	see note [o]	**4**	< 2	< 25	< 0.020	**3**	14	**0.92**	**0.89**	< 0.2	< 2.5	< 0.020	**34**	**23.0**	**0.92**	**0.89**	0.024
	2/5/2013	Endyne	see note [q]	< 1	< 2	< 5	< 0.020	< 1	< 5	**0.92**	**0.94**	< 0.2	3.4	< 0.020	**31**	**27.0**	**0.92**	**0.94**	0.020
	2/24/2014	Endyne	see note [s]	**3**	< 2	< 5	< 0.020	< 1	6	**1.20**	**1.10**	< 0.2	< 2.5	< 0.020	**38**	**35.0**	**1.20**	**1.10**	< 0.020
	See notes [3] and [4] below.																		
	Normal Distribution?			Yes		Yes		No	Yes	Yes	Yes				Yes	Yes	Yes	Yes	
	Transformation Closest to Normal							Yes											
	Does Transformation Produce Normality?							Exp											
	Mean of Transformed Data							6.661											
	Mean of Untaansformed Data			3.40		19.00			21.40	1.09	1.03				37.34	23.19	1.09	1.03	
	Std. Dev. of Transformed Data							7.23											
	Std. Dev. of Untransformed Data			2.84		18.85			16.61	0.16	0.11				10.46	12.09	0.16	0.11	
	n			10		10		10	10	10	10				10	10	10	10	
	Student's t-value (one-tailed)			1.80		1.80		1.80	1.80	1.80	1.80				1.80	1.80	1.80	1.80	
	Upper 95% Confidence Value			5.011		29.706		2.376	30.832	1.182	1.090				43.280	30.060	1.182	1.090	
	Lower 95% Confidence Value			**1.789**		8.294		0.939	11.968	**0.996**	**0.964**				**31.400**	**16.324**	**0.996**	**0.964**	

[1] VT GES = VT Groundwater Enforcement Standards and Preventive Action Levels from Table 1, Groundwater Protection Rule & Strategy (GWPRS), 2005.

[2] From December 2002 Vermont Department of Health Drinking Water Guidance.

* Bold values exceed Vermont Preventive Action Level

** Shaded values exceed Vermont GES, as set by Vermont GWPRS, 2005.

*** As of 2/26/2007, the Primary Vermont Groundwater Enforcement Standard for Manganese was changed from 0.840 mg/L to 0.300 mg/L.

The < values listed here are the reported detection limit.

[a] through [s]: See last page of inorganic data for footnotes of additional notes.

[3] Statistical analyses are conducted only on data since 5/15/1998, when requirement changed to TOTAL metals instead of dissolved metals, except for Mn & Fe (see note below).
Archived data has not been included in statistical analyses since 5/15/1998.

[4] For Fe and Mn only, requirement since 5/15/1998 is to analyze for both total and dissolved forms. The dissolved archived data are not included in the statistical analyses to give consistency between dissolved and total Mn & Fe as prior to 5/98, samples were not analyzed for total and dissolved metals on the same date. This gives consistency of comparisons between dissolved and total Fe and Mn.

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				Primary Groundwater Quality Parameters [1]									Secondary Groundwater Quality Parameters [2]						
				Total Arsenic (ug/L)	Total Cadmium (ug/L)	Total Chromium (ug/L)	Total Copper (mg/L)	Total Lead (ug/L)	Total Nickel (ug/L)	Total Manganese*** (mg/L)	Dissolved Manganese*** (mg/L)	Total Mercury (ug/L)	Total Chloride (mg/L)	Total Copper (mg/L)	Total Iron (mg/L)	Dissolved Iron (mg/L)	Total Manganese (mg/L)	Dissolved Manganese (mg/L)	Total Zinc (mg/L)
	VT GES**[1]			10.0	5.0	100.0	1.300	15.0	100.0	0.300	0.300	2.0	250	1.0	0.3	0.3	0.05	0.05	5
	VT Preventive Action Level* [1]			1.0	2.5	50.0	0.650	1.5	50.0	0.150	0.150	0.5	125	0.5	0.15	0.15	0.025	0.025	2.5
	VT Health Advisory [2]			None	None	None	1.300	15	100	0.300	0.300	None	250	1.0	0.3	0.3	0.05	0.05	5
	Federal MCL [2]			10	5	100	None	None	None	None	None	2	None	None	None	None	None	None	None
Well	Date	Lab	Remarks																
MW-BRW-2	3/10/2005	Endyne	see note [b]	< 2	< 3	< 10	< 0.010	< 2	< 20	**0.444**	**0.445**	< 1	2.94	< 0.010	**2.80**	**0.559**	**0.444**	**0.445**	< 0.020
	3/16/2006	Endyne	see note [d]	< 2	< 2	< 10	< 0.010	< 1	< 20	**0.157**	**0.154**	< 1	< 2.50	< 0.010	**2.24**	**0.728**	**0.157**	**0.154**	< 0.020
	2/6/2007	Endyne	see note [f]	22	< 2	**66**	0.069	**37**	**98**	**2.30**	**0.408**	< 1	4.76	< 0.069	**52**	**0.386**	**2.300**	**0.408**	< 0.199
	2/21/2008	Endyne	see note [h]	< 2	< 2	< 20	< 0.020	< 1	< 20	**0.30**	**0.180**	< 1	3.40	< 0.020	**4.7**	**0.830**	**0.300**	**0.180**	< 0.020
	2/3/2009	Endyne	see note [j]	< 2	< 2	< 20	< 0.020	< 1	< 20	0.065	0.057	< 1	3.20	< 0.020	**1.7**	0.029	**0.065**	**0.057**	0.035
MW-BRW-2R**^	2/16/2010	Endyne	see note [l]	**2**	< 2	< 5	< 0.020	< 1	< 5	**0.380**	**0.380**	< 0.2	5.60	< 0.020	**2.6**	**1.100**	**0.380**	**0.380**	< 0.005
	2/8/2011	Endyne	see note [n]	**2**	< 2	8	< 0.020	**3**	8	**0.240**	**0.180**	< 0.2	< 2.50	< 0.020	**4.6**	**0.630**	**0.240**	**0.180**	< 0.020
	2/8/2012	Endyne	see note [p]	< 1	< 2	< 5	< 0.020	< 1	< 5	**0.150**	**0.150**	< 0.2	< 2.50	< 0.020	**2.1**	**0.890**	**0.150**	**0.150**	< 0.020
	2/5/2013	Endyne	see note [r]	**2**	< 2	11	< 0.020	**4**	10	**0.170**	0.140	< 0.2	< 2.50	< 0.020	**5.8**	**1.300**	**0.170**	**0.140**	< 0.020
	2/24/2014	Endyne	see note [t]	**2**	< 2	< 5	< 0.020	< 1	6	0.130	0.120	< 0.2	< 2.50	< 0.020	**2.3**	**1.400**	**0.130**	**0.120**	< 0.020
See notes [3] and [4] below.																			
Normal Distribution?				No		Yes		No	No	Yes	Yes				No	Yes	Yes	Yes	
Transformation Closest to Normal				Ln				Ln	Ln						Ln				
Does Transformation Produce Normality?				No				Yes	Yes						Yes				
Mean of Transformed Data				0.861				0.679	2.60						1.369				
Mean of Untaansformed Data						16.00				0.43	0.22					0.79	0.43	0.22	
Std. Dev. of Transformed Data				0.81				1.16	0.92						0.99				
Std. Dev. of Untransformed Data						18.43				0.67	0.14					0.42	0.67	0.14	
n				10		10		10	10	10	10				10	10	10	10	
Student's t-value (one-tailed)				1.80		1.80		1.80	1.80	1.80	1.80				1.80	1.80	1.80	1.80	
Upper 95% Confidence Value				3.753		26.466		3.803	22.573	0.812	0.300				6.906	1.022	0.812	0.300	
Lower 95% Confidence Value				**1.491**		5.534		1.022	7.983	0.056	0.144				0.002	**0.550**	**0.056**	**0.144**	

[1] VT GES = VT Groundwater Enforcement Standards and Preventive Action Levels from Table 1, Groundwater Protection Rule & Strategy (GWPRS), 2005.
[2] From December 2002 Vermont Department of Health Drinking Water Guidance.
* Bold values exceed Vermont Preventive Action Level
** Shaded values exceed Vermont GES, as set by Vermont GWPRS, 2005.
*** As of 2/26/2007, the Primary Vermont Groundwater Enforcement Standard for Manganese was changed from 0.840 mg/L to 0.300 mg/L.
The < values listed here are the reported detection limit.
[b] through [t]: See last page of inorganic data for footnotes of additional data
[3] Statistical analyses are conducted only on data since 5/15/1998, when requirement changed to TOTAL metals instead of dissolved metals, except for Mn & Fe (see note below).
Archived data has not been included in statistical analyses since 5/15/1998.
[4] For Fe and Mn only, requirement since 5/15/1998 is to analyze for both total and dissolved forms. The dissolved archived data are not included in the statistical analyses to give consistency between dissolved and total Mn & Fe as prior to 5/98, samples were not analyzed for total and dissolved metals on the same date. This gives consistency of comparisons between dissolved and total Fe and Mn.
**^ BRW-2 was destroyed in February 2010 and replaced to the same depth; with BRW-2R approx. 2-feet west of BRW-2.

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				Primary Groundwater Quality Parameters [1]									Secondary Groundwater Quality Parameters [2]						
				Total Arsenic	Total Cadmium	Total Chromium	Total Copper	Total Lead	Total Nickel	Total Manganese	Dissolved Manganese	Total Mercury	Total Chloride	Total Copper	Total Iron	Dissolved Iron	Total Manganese	Dissolved Manganese	Total Zinc
				(ug/L)	(ug/L)	(ug/L)	(mg/L)	(ug/L)	(ug/L)	(mg/L)	(mg/L)	(ug/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
	VT GES**[1]			10.0	5.0	100.0	1.300	15.0	100.0	0.300	0.300	2.0	250	1.0	0.3	0.3	0.05	0.05	5
	VT Preventive Action Level* [1]			1.0	2.5	50.0	0.650	1.5	50.0	0.150	0.150	0.5	125	0.5	0.15	0.15	0.025	0.025	2.5
	VT Health Advisory [2]			None	None	None	1.300	15	100	0.300	0.300	None	250	1.0	0.3	0.3	0.05	0.05	5
	Federal MCL [2]			10	5	100	None	None	None	None	None	2	None	None	None	None	None	None	None
Well	Date	Lab	Remarks																
MW-BRW-3D	9/25/2013	En	see note (4)	**7**	< 2	< 5	< 0.020	< 1	8	0.120	0.032	< 0.2	3.8	< 0.020	**1.400**	0.021	**0.120**	**0.032**	< 0.020
	10/10/2013	En	see note (1)	**6**	< 2	< 5	< 0.020	< 1	< 5	0.034	0.033	< 0.2	3.2	< 0.020	**0.360**	< 0.020	**0.034**	**0.033**	< 0.020
	10/29/2013	En	see note (1)	**13**	< 2	< 5	< 0.020	1	< 5	0.061	0.032	< 0.2	< 2.5	< 0.020	0.080	0.070	**0.061**	**0.032**	< 0.020
	5/7/2014	En	see note (13)	**24**	< 2	10	< 0.020	1	13	0.092	0.022	< 0.2	< 2.5	< 0.020	**3.5**	**0.160**	**0.092**	0.022	< 0.020
	10/7/2014	En	see note (1)	**24**	< 2	< 5	< 0.020	< 1	< 5	0.024	0.020	< 0.2	< 2.5	< 0.020	**0.33**	**0.170**	0.024	0.020	< 0.020
Normal Distribution?				Yes											Yes		Yes		
Transformation Closest to Normal																			
Does Transformation Produce Normality?																			
Mean of Transformed Data																			
Mean of Untransformed Data				14.80											1.13		0.07		
Std. Dev. of Transformed Data																			
Std. Dev. of Untransformed Data				8.81											1.42		0.04		
n				5											5		5		
Student's t-value (one-tailed)				1.94											1.94		1.94		
Upper 95% Confidence Value				22.46											2.36		0.10		
Lower 95% Confidence Value				**7.14**											-0.097		**0.030**		
			Averages:	**15**											**1.134**		**0.066**		

[1] VT GES = VT Groundwater Enforcement Standards and Preventive Action Levels from Table , Groundwater Protection Rule & Strategy (GWPRS), 2005.
[2] Vermont Health Advisory Levels and Federal MCLs from December 2002 Vermont Department of Health Drinking Water Guidance.
* Bold values exceed Vermont Preventive Action Level.
** Shaded values exceed Vermont Groundwater Enforcement Standard, as set by Vermont Groundwater Protection Rule and Strategy, 200
En = Endyne Inc., Williston, VT.
"<" means not detected, to the reported detection limit showr
(1), (4), (13): See last page of inorganic data for footnotes of additional data

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				Primary Groundwater Quality Parameters [1]									Secondary Groundwater Quality Parameters [2]						
				Total Arsenic (ug/L)	Total Cadmium (ug/L)	Total Chromium (ug/L)	Total Copper (mg/L)	Total Lead (ug/L)	Total Nickel (ug/L)	Total Manganese (mg/L)	Dissolved Manganese (mg/L)	Total Mercury (ug/L)	Total Chloride (mg/L)	Total Copper (mg/L)	Total Iron (mg/L)	Dissolved Iron (mg/L)	Total Manganese (mg/L)	Dissolved Manganese (mg/L)	Total Zinc (mg/L)
	VT GES**[1]			10.0	5.0	100.0	1.300	15.0	100.0	0.300	0.300	2.0	250	1.0	0.3	0.3	0.05	0.05	5
	VT Preventive Action Level* [2]			1.0	2.5	50.0	0.650	1.5	50.0	0.150	0.150	0.5	125	0.5	0.15	0.15	0.025	0.025	2.5
	VT Health Advisory [3]			None	None	None	1.300	15	100	0.300	0.300	None	250	1.0	0.3	0.3	0.05	0.05	5
	Federal MCL [4]			10	5	100	None	None	None	None	None	2	None	None	None	None	None	None	None
Well	Date	Lab	Remarks																
MW-BRW-3S	5/21/2013	Endyne	see note (1)	< 1	< 2	< 5	< 0.020	< 1	< 5	0.120	0.120	< 0.2	< 2.5	< 0.020	**0.210**	0.089	**0.120**	**0.120**	< 0.020
	6/13/2013	Endyne	see note (1)	< 1	NA	< 5	< 0.020	< 1	< 5	0.075	0.083	< 0.2	< 2.5	< 0.020	0.140	0.081	**0.075**	**0.083**	< 0.020
	7/8/2013	Endyne	see note (2)	< 1	< 2	< 5	< 0.020	< 1	< 5	0.100	0.096	< 0.2	< 2.5	< 0.020	0.110	0.056	**0.100**	**0.096**	< 0.020
	7/25/2013	Endyne	see note (3)	< 20	< 2	< 5	< 0.020	< 1	< 5	0.090	0.093	< 0.2	< 2.5	< 0.020	0.069	0.040	**0.090**	**0.093**	< 0.020
	9/24/2013	Endyne	see note (1)	< 1	< 2	< 5	< 0.020	< 1	< 5	0.091	0.087	< 0.2	< 2.5	< 0.020	0.044	0.031	**0.091**	**0.087**	< 0.020
	10/10/2013	Endyne	see note (1)	< 1	< 2	< 5	< 0.020	< 1	< 5	0.074	0.073	< 0.2	< 2.5	< 0.020	0.047	< 0.020	**0.074**	**0.073**	< 0.020
	10/29/2013	Endyne	see note (1)	< 1	< 2	< 5	< 0.020	< 1	< 5	0.067	0.069	< 0.2	< 2.5	< 0.020	**0.170**	< 0.020	**0.067**	**0.069**	< 0.020
	5/7/2014	Endyne	see note (1)	< 1	< 2	< 5	< 0.020	< 1	< 5	0.080	0.089	< 0.2	< 2.5	< 0.020	0.062	0.031	**0.080**	**0.089**	< 0.020
Duplicate	5/7/2014	Endyne	see note (1)	< 1	< 2	< 5	< 0.020	< 1	< 5	0.088	0.082	< 0.2	< 2.5	< 0.020	**0.310**	0.027	**0.088**	**0.082**	< 0.020
	10/7/2014	Endyne	see note (1)	< 1	< 2	< 5	< 0.020	< 1	< 5	0.071	0.074	< 0.2	< 2.5	< 0.020	0.022	< 0.020	**0.071**	**0.074**	< 0.020
See notes [5] and [6] below.																			
Normal Distribution?																	Yes	Yes	
Transformation Closest to Normal																			
Does Transformation Produce Normality?																			
Mean of Transformed Data																			
Mean of Untransformed Data																	0.09	0.09	
Std. Dev. of Transformed Data																			
Std. Dev. of Untransformed Data																	0.02	0.02	
n																	10	10	
Student's t-value (one-tailed)																	1.80	1.80	
Upper 95% Confidence Value																	0.095	0.095	
Lower 95% Confidence Value																	**0.077**	**0.077**	
														Averages:	**0.118**		**0.808**		

[1] VT GES = VT Groundwater Enforcement Standards and Preventive Action Levels from Table 1, Groundwater Protection Rule & Strategy (GWPRS), 2005.
[2] Vermont Health Advisory Levels and Federal MCLs from December 2002 Vermont Department of Health Drinking Water Guidance.
* Bold values exceed Vermont Preventive Action Level.
** Shaded values exceed Vermont Groundwater Enforcement Standard, as set by Vermont Groundwater Protection Rule and Strategy, 2005.
En = Endyne, Inc., Williston, VT.
"<" means not detected, to the reported detection limit shown.
(1), (2), (3): See last page of inorganic data for footnotes of additional data.
NA = Not Analyzed.

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				Primary Groundwater Quality Parameters [1]									Secondary Groundwater Quality Parameters [2]						
				Total Arsenic (ug/L)	Total Cadmium (ug/L)	Total Chromium (ug/L)	Total Copper (mg/L)	Total Lead (ug/L)	Total Nickel (ug/L)	Total Manganese*** (mg/L)	Dissolved Manganese*** (mg/L)	Total Mercury (ug/L)	Total Chloride (mg/L)	Total Copper (mg/L)	Total Iron (mg/L)	Dissolved Iron (mg/L)	Total Manganese (mg/L)	Dissolved Manganese (mg/L)	Total Zinc (mg/L)
	VT GES**[1]			10.0	5.0	100.0	1.300	15.0	100.0	0.300	0.300	2.0	250	1.0	0.3	0.3	0.05	0.05	5
	VT Preventive Action Level* [1]			1.0	2.5	50.0	0.650	1.5	50.0	0.150	0.150	0.5	125	0.5	0.15	0.15	0.025	0.025	2.5
	VT Health Advisory [2]			None	None	None	1.300	15	100	0.300	0.300	None	250	1.0	0.3	0.3	0.05	0.05	5
	Federal MCL [2]			10	5	100	None	None	None	None	None	2	None	None	None	None	None	None	None
Well	Date	Lab	Remarks																
MW-D1R	Earlier data are archived to conserve table space. See notes [3] and [4] below.																		
	10/13/1998	Endyne	see note [b]	**8**	< 2	17	< 0.020	**57**	**81**	**1.32**	**0.237**	< 1	1.8	< 0.020	**15.200**	< 0.020	**1.320**	**0.237**	0.077
	5/5/1999	Endyne	see note [f]	**6**	< 3	< 10	< 0.010	**7**	< 20	**0.36**	**0.198**	< 1	< 1.0	< 0.010	**1.440**	< 0.010	**0.357**	**0.198**	0.109
Downgradient	10/12/1999	Endyne	see note [f]	**9**	< 3	< 10	< 0.010	**27**	< 20	0.12	0.111	< 1	8.19	< 0.010	**0.396**	< 0.010	**0.119**	**0.111**	0.027
	5/4/2000	Endyne	see note [f]	**12**	< 3	< 10	< 0.010	**3**	< 20	0.11	0.088	< 1	< 4.0	< 0.010	**0.879**	< 0.010	**0.109**	**0.088**	0.092
	10/10/2000	Endyne	see note [f]	**11**	< 3	< 10	< 0.010	< 2	< 20	0.07	0.065	< 1	< 4.0	< 0.010	**0.343**	< 0.010	**0.069**	**0.065**	0.054
	5/3/2001	Endyne	see note [i]	**9**	< 3	< 10	< 0.010	< 2	< 20	0.09	0.073	< 2	< 2.5	< 0.010	**0.722**	< 0.010	**0.087**	**0.073**	0.054
duplicate	5/3/2001	Endyne	see note [i]	**10**	< 3	< 10	< 0.010	< 2	< 20	**0.15**	0.070	< 2	< 2.5	< 0.010	**1.290**	< 0.010	**0.151**	**0.070**	0.035
	10/3/2001	Endyne	see note [i]	**11**	< 3	< 10	< 0.010	< 2	< 20	0.05	0.049	< 1	< 2.5	< 0.010	0.142	< 0.010	**0.048**	**0.049**	< 0.020
	5/2/2002	Endyne	see note [i]	**10**	< 3	15	< 0.010	**2**	29.0	**0.296**	0.092	< 1	< 2.50	< 0.010	**6.48**	< 0.010	**0.296**	**0.092**	0.028
	10/2/2002	Endyne	see note [a]	**16**	< 3	14	< 0.010	< 2	< 20	0.102	0.040	< 1	< 2.50	< 0.010	**2.00**	0.027	**0.102**	**0.040**	< 0.020
	5/6/2003	Endyne	see note [d]	**15**	< 3	< 10	< 0.010	**2**	27	0.148	0.058	< 1	< 2.50	< 0.010	**3.48**	< 0.010	**0.148**	**0.058**	< 0.020
	10/2/2003	Endyne	see note [d]	**16**	**4**	< 10	< 0.010	**3**	< 20	0.144	0.037	< 1	< 2.50	< 0.010	**2.22**	0.016	**0.114**	**0.037**	< 0.020
	5/4/2004	Endyne	see note [d]	**17**	< 3	< 10	< 0.010	**2**	< 20	0.100	0.056	< 1	< 2.50	< 0.010	**1.67**	< 0.010	**0.100**	**0.056**	< 0.020
	10/5/2004	Endyne	see note [f]	**17**	< 3	< 10	< 0.010	< 2	25	0.107	0.033	< 1	< 2.50	< 0.010	**2.24**	< 0.010	**0.107**	**0.033**	< 0.020
	5/3/2005	Endyne	see note [cc]	**19**	< 3	< 10	< 0.010	< 2	< 20	0.131	0.051	< 1	< 2.50	< 0.010	**3.11**	< 0.010	**0.131**	**0.051**	< 0.020
duplicate	5/3/2005	Endyne	see note [cc]	**19**	< 3	< 10	0.011	**2**	< 20	**0.186**	0.048	< 1	< 2.50	0.011	**5.40**	< 0.010	**0.186**	**0.048**	0.023
	10/4/2005	Endyne	see note [hh]	**25**	< 2	22	0.012	< 10	29	**0.314**	0.048	< 1	< 2.50	0.012	**7.49**	< 0.010	**0.314**	**0.048**	< 0.020
	5/2/2006	Endyne	see note [vv]	**91**	**3**	**263**	0.103	**74**	**491**	**6.660**	0.044	< 1	< 2.50	0.103	**166**	0.064	**6.660**	**0.044**	0.319
	10/3/2006	Endyne	see note [jjj]	**34**	< 2	23	< 0.020	**5**	42	**0.296**	0.063	< 1	< 2.50	< 0.020	**9.57**	< 0.020	**0.296**	**0.063**	0.029
duplicate	10/3/2006	Endyne	see note [yyy]	**23**	< 2	38	0.020	**5**	**59**	**0.435**	0.046	< 1	< 2.50	0.020	**16.60**	< 0.020	**0.435**	**0.046**	0.040
	5/1/2007	Endyne	see note [c1]	**20**	< 2	< 20	< 0.020	**2**	22	**0.227**	0.056	< 1	< 2.50	< 0.020	**5.52**	0.025	**0.227**	**0.056**	0.035
	10/4/2007	Endyne	see note [a2]	**19**	< 2	< 20	< 0.020	< 1	28	**0.278**	0.037	< 1	< 2.50	< 0.020	**7.71**	0.028	**0.278**	**0.037**	0.030
	5/6/2008	Endyne	see note [x2]	**23**	**3**	33	< 0.020	**6**	**60**	**0.600**	0.048	< 1	< 2.50	< 0.020	**13.00**	0.033	**0.600**	**0.048**	0.047
duplicate	5/6/2008	Endyne	see note [y2]	**28**	**5**	**57**	0.021	**12**	11	**0.910**	0.05	< 1	< 2.50	0.021	**21.00**	0.042	**0.930**	**0.050**	0.068
	10/6/2008	Endyne	see note [x3]	**21**	< 2	< 20	< 0.020	< 1	20	**0.160**	**0.55**	< 1	< 2.50	< 0.020	**3.40**	**9.100**	**0.160**	**0.550**	< 0.020
	5/6/2009	Endyne	see note [z4]	**19**	< 2	< 20	< 0.020	**2**	<20	0.140	0.052	< 1	< 2.50	< 0.020	**3.40**	0.031	**0.140**	**0.052**	< 0.020
	10/6/2009	Endyne	see note [z5]	**21**	< 2	< 20	< 0.020	< 1	<20	0.083	0.037	< 1	< 2.50	< 0.020	**1.10**	0.086	**0.083**	**0.037**	< 0.020
	5/4/2010	Endyne	see note [z6]	**20**	< 2	< 5	< 0.020	< 1	5	0.089	0.054	< 0.2	< 2.50	< 0.020	**0.82**	0.072	**0.054**	**0.089**	< 0.005
	10/5/2010	Endyne	see note [y7]	**22**	< 2	5	< 0.020	< 1	13	0.140	0.049	< 0.2	< 2.50	< 0.020	**3.20**	0.045	**0.140**	**0.049**	0.009
	5/4/2011	Endyne	see note [v8]	**21**	< 2	< 5	< 0.020	< 1	7	0.110	0.047	< 0.2	< 2.50	< 0.020	**1.80**	0.067	**0.110**	**0.047**	< 0.005
duplicate	5/4/2011	Endyne	see note [v8]	**19**	< 2	< 5	< 0.020	< 1	8	**0.160**	0.053	< 0.2	< 2.50	< 0.020	**1.80**	0.050	**0.160**	**0.053**	< 0.005
	10/5/2011+	Endyne	see note [v8]	**20**	< 2	< 5	< 0.020	< 1	5	0.071	0.053	< 0.2	< 2.50	< 0.020	**1.10**	0.068	**0.071**	**0.053**	< 0.020
	5/2/2012+	Endyne	see notes [q9]	**19**	< 2	< 5	< 0.020	< 1	< 5	0.120	0.120	< 2.0	< 2.50	< 0.020	**1.00**	**0.800**	**0.120**	**0.120**	< 0.020
	10/1/2012+	Endyne	see notes [t10]	**19**	< 2	< 5	< 0.020	< 1	< 5	0.051	0.046	< 0.2	< 2.50	< 0.020	**0.64**	**0.230**	**0.051**	**0.046**	< 0.020
	5/7/13+	Endyne	see notes [o10]	**22**	< 2	< 5	< 0.020	< 1	7	**0.650**	**0.630**	< 0.2	< 2.50	< 0.020	**0.92**	**0.780**	**0.650**	**0.630**	< 0.020
	10/8/2013+	Endyne	see notes [o10]	**19**	< 2	< 5	< 0.020	< 1	< 5	**0.210**	**0.210**	< 0.2	< 2.50	< 0.020	**0.50**	**0.330**	**0.210**	**0.210**	< 0.020
	5/6/2014+	Endyne	see notes [o10]	**13**	< 2	< 5	< 0.020	< 1	6	0.069	< 0.020	< 0.2	< 2.50	< 0.020	**0.21**	< 0.020	**0.069**	< 0.020	< 0.020
	10/6/2014+	Endyne	see notes [o10]	**23**	< 2	< 5	< 0.020	< 1	6	**0.530**	**0.470**	< 0.2	< 2.50	< 0.020	**0.44**	**0.300**	**0.530**	**0.470**	< 0.020
duplicate	10/6/2014+	Endyne	see notes [o10]	**21**	< 2	< 5	< 0.020	< 1	6	**0.520**	**0.480**	< 0.2	2.50	< 0.020	**0.39**	**0.290**	**0.520**	**0.480**	< 0.020
	See notes [3] and [4] below.																		
	Normal Distribution?			No		No		No	No	No	No				No	No	No	No	
	Transformation Closest to Normal			Ln		Ln		Ln	Ln	Ln	Ln				Ln	Ln	Ln	Ln	
	Does Transformation Produce Normality?			Yes		Yes		No	No	Yes	No				Yes	Yes	Yes	No	
	Mean of Transformed Data			2.86		2.45		0.89	2.86	-1.64	-2.60				0.76	-3.28	-1.64	-2.60	
	Mean of Untransformed Data																		
	Std. Dev. of Transformed Data			0.46		0.83		1.12	0.92	0.99	0.83				1.44	1.58	0.99	0.83	
	Std. Dev. of Untransformed Data																		
	n			39		39		39	39	39	39				39	39	39	39	
	Student's t-value (one-tailed)			1.68		1.68		1.68	1.68	1.68	1.68				1.68	1.68	1.68	1.68	
	Upper 95% Confidence Value			19.765		14.432		3.281	22.362	0.254	0.093				3.136	0.06	0.254	0.093	
	Lower 95% Confidence Value			**15.420**		9.225		**1.797**	13.583	0.149	0.059				**1.445**	0.025	**0.149**	**0.059**	

[1] VT GES = VT Groundwater Enforcement Standards and Preventive Action Levels from Table 1, Groundwater Protection Rule & Strategy (GWPRS), 2005.

[2] From December 2002 Vermont Department of Health Drinking Water Guidance.

* Bold values exceed Vermont Preventive Action Level

** Shaded values exceed Vermont GES, as set by Vermont GWPRS, 2005.

*** As of 2/26/2007, the Primary Vermont Groundwater Enforcement Standard for Manganese was changed from 0.840 mg/L to 0.300 mg/L.

The < values listed here are the reported detection limit.

[a] through [u3]: See last page of inorganic data for additional notes.

[3] Statistical analyses are conducted only on data since 5/15/1998, when requirement changed to TOTAL metals instead of dissolved metals, except for Mn & Fe (see note below).
Archived data has not been included in statistical analyses since 5/15/1998.

[4] For Fe and Mn only, requirement since 5/15/1998 is to analyze for both total and dissolved forms. The dissolved archived data are not included in the statistical analyses to give consistency between dissolved and total Mn & Fe as prior to 5/98, samples were not analyzed for total and dissolved metals on the same date. This gives consistency of comparisons between dissolved and total Fe and Mn.

+MW sampling utilized low-flow technology at the request of the State when sufficient water was available.

NEWSVT Landfills
Coventry, Vermont
Groundwater Analyses
Inorganics

				Primary Groundwater Quality Parameters [1]									Secondary Groundwater Quality Parameters [2]						
				Total Arsenic (ug/L)	Total Cadmium (ug/L)	Total Chromium (ug/L)	Total Copper (mg/L)	Total Lead (ug/L)	Total Nickel (ug/L)	Total Manganese*** (mg/L)	Dissolved Manganese*** (mg/L)	Total Mercury (ug/L)	Total Chloride (mg/L)	Total Copper (mg/L)	Total Iron (mg/L)	Dissolved Iron (mg/L)	Total Manganese (mg/L)	Dissolved Manganese (mg/L)	Total Zinc (mg/L)
	VT GES**[1]			10.0	5.0	100.0	1.300	15.0	100.0	0.300	0.300	2.0	250	1.0	0.3	0.3	0.05	0.05	5
	VT Preventive Action Level* [1]			1.0	2.5	50.0	0.650	1.5	50.0	0.150	0.150	0.5	125	0.5	0.15	0.15	0.025	0.025	2.5
	VT Health Advisory [2]			None	None	None	1.300	15	100	0.300	0.300	None	250	1.0	0.3	0.3	0.05	0.05	5
	Federal MCL [2]			10	5	100	None	None	None	None	None	2	None	None	None	None	None	None	None
Well	Date	Lab	Remarks																
MW-D2	Earlier data are archived to conserve table space. See notes [3] and [4] below.																		
	5/15/1998	Endyne	see note [a]	**16**	< 5	< 10	< 0.010	< 5	< 20	0.022	0.021	< 2.0	18	< 0.010	0.09	0.068	0.022	0.021	0.029
	10/13/1998	Endyne	see note [b]	**12**	< 2	< 10	< 0.020	< 2	32	**1.360**	**1.05**	< 1.0	79	< 0.020	**4.93**	< 0.020	**1.360**	**1.050**	0.041
Downgradient	5/5/1999	Endyne	see note [d]	**8**	< 3	< 10	< 0.010	**4**	< 20	**0.699**	**0.882**	< 1.0	61	< 0.010	**1.77**	< 0.010	**0.699**	**0.882**	0.036
	10/12/1999	Endyne	see note [f]	**24**	< 3	< 10	< 0.010	**38**	< 20	**1.73**	**1.31**	< 1.0	**134**	< 0.010	**10.6**	< 0.010	**1.730**	**1.310**	0.042
	5/4/2000	Endyne	see note [f]	**35**	< 3	< 10	< 0.010	**3**	< 20	**1.31**	**1.18**	< 1.0	113	< 0.010	**9.2**	< 0.010	**1.310**	**1.180**	0.022
	10/10/2000	Endyne	see note [g]	**35**	< 3	< 10	< 0.010	< 2	< 20	**1.33**	**1.57**	< 1.0	110	< 0.010	**15.0**	**0.387**	**1.330**	**1.570**	0.052
	5/3/2001	Endyne	see note [i]	**28**	< 3	< 10	< 0.010	**3.0**	23	**1.57**	**1.25**	< 2.0	120	< 0.010	**17.7**	< 0.010	**1.570**	**1.250**	0.023
	10/3/2001	Endyne	see note [i]	**31**	< 3	< 10	< 0.010	< 2	< 20	**1.70**	**1.72**	< 1.0	**159**	< 0.010	**20.8**	**1.99**	**1.700**	**1.720**	0.020
	5/2/2002	Endyne	see note [l]	**32**	< 3	11	0.012	**3**	30	**1.18**	**0.946**	< 1.0	**160**	0.012	**14.3**	**0.534**	**1.18**	**0.946**	< 0.020
	10/2/2002	Endyne	see note [a]	**52**	< 3	18	< 0.010	**3**	37	**2.54**	**2.06**	< 1.0	**199**	< 0.010	**30.4**	**1.08**	**2.54**	**2.06**	< 0.020
	5/6/2003	Endyne	see note [d]	**43**	< 3	< 10	< 0.010	**2**	< 20	**0.790**	**0.790**	< 1.0	**151**	< 0.010	**10.7**	**1.22**	**0.790**	**0.790**	< 0.020
	10/2/2003	Endyne	see note [d]	**58**	< 3	< 10	< 0.010	**3**	24	**2.350**	**1.940**	< 1.0	**270**	< 0.010	**29.1**	**3.89**	**2.35**	**1.940**	< 0.020
duplicate	10/2/2003	Endyne	see note [d]	**55**	< 3	17	0.012	**3**	< 20	**2.07**	**1.99**	< 1.0	**279**	0.012	**29.3**	**2.17**	**2.07**	**1.99**	< 0.020
	5/4/2004	Endyne	see note [d]	**46**	< 3	< 10	< 0.010	**2**	< 20	**1.17**	**1.25**	< 1.0	**183**	< 0.010	**9.53**	**2.70**	**1.17**	**1.25**	< 0.020
	10/5/2004	Endyne	see note [d]	**75**	< 3	< 10	< 0.010	< 2	25	**2.00**	**1.87**	< 1.0	**228**	< 0.010	**24.1**	< 0.010	**2.00**	**1.87**	< 0.020
	5/3/2005	Endyne	see note [cc]	**67**	< 3	< 10	0.015	**3**	47	**1.53**	**1.39**	< 1.0	**197**	0.015	**24.3**	**5.35**	**1.53**	**1.39**	< 0.020
	10/4/2005	Endyne	see note [ii]	**33**	2	< 10	0.045	< 10	< 20	**2.72**	**2.52**	< 1.0	**308**	0.045	**43.5**	**4.09**	**2.72**	**2.52**	0.020
	5/2/2006	Endyne	see note [tt]	**72**	< 2	19	0.020	< 10	**57**	**2.27**	**2.06**	< 1.0	**234**	0.020	**28**	**3.05**	**2.27**	**2.06**	0.021
	10/3/2006	Endyne	see note [eee]	**77**	< 2	< 20	< 0.020	**4**	**77**	**2.49**	**2.68**	< 1.0	**356**	< 0.020	**47**	**22.7**	**2.49**	**2.68**	0.025
	5/1/2007	Endyne	see note [d1]	**69**	**3**	< 20	< 0.020	1	35	**1.85**	**1.79**	< 1.0	**373**	< 0.020	**40**	**35.8**	**1.85**	**1.79**	0.022
	10/4/2007	Endyne	see note [b2]	**54**	**7**	< 20	< 0.020	< 1	**54**	**3.72**	**3.80**	< 1.0	**590**	< 0.020	**81**	**70.5**	**3.72**	**3.80**	< 0.020
	5/6/2008	Endyne	see note [z2]	**79**	**7**	< 20	< 0.020	< 1	**62**	**2.80**	**2.50**	< 1.0	**450**	< 0.020	**63**	**55**	**2.80**	**2.50**	< 0.020
	10/6/2008	Endyne	see note [y3]	**84**	< 2	< 20	0.04	< 1	**80**	**4.20**	**4.3 M-**	< 1.0	**730**	0.04	**95**	**95**	**4.20**	**4.30**	< 0.020
	5/6/2009	Endyne	see note [a5]	**110**	**3**	< 20	< 0.020	< 2	**85**	**3.30**	**3.3**	< 1.0	**700**	< 0.020	**87**	**80**	**3.30**	**3.30**	< 0.020
	10/6/2009	Endyne	see note [a6]	**110**	< 2	25	< 0.020	**6**	16	**5.10**	**4.5**	< 1.0	**890**	< 0.020	**120**	**96**	**5.10**	**4.50**	0.032
	5/4/2010	Endyne	see note [a7]	**150**	< 2	9	< 0.020	< 1	**83**	**3.70**	**3.6**	< 0.2	**900**	< 0.020	**80**	**88**	**3.70**	**3.60**	< 0.005
	10/5/2010	Endyne	see note [z7]	**118**	< 2	11	< 0.020	< 1	**81**	**5.10**	**5.5**	< 0.2	**1300**	< 0.020	**97**	**95**	**5.10**	**5.50**	0.008
	5/4/2011	Endyne	see note [w8]	**165**	**4**	10	< 0.020	< 1	**200**	**6.80**	**5.6**	< 0.2	**1100**	< 0.020	**130**	**100**	**6.80**	**5.60**	0.025
	10/5/2011+	Endyne	see note [j9]	**180**	< 2	**51**	< 0.020	< 1	**220**	**7.80**	**8.3**	< 0.2	**1500**	< 0.020	**140**	**140**	**7.80**	**8.30**	0.039
	5/2/2012+	Endyne	see note [y9]	**220**	< 2	15	< 0.020	**13**	44	**11.00**	**8.5**	< 0.2	**1400**	< 0.020	**210**	**140**	**11.00**	**8.50**	0.087
	10/1/2012+	Endyne	see note [u10]	**150**	< 6	9	< 0.025	< 3	**110**	**13.00**	**14.0**	< 0.2	**1500**	< 0.025	**80**	**73**	**13.00**	**14.00**	< 0.030
	5/7/13+	Endyne	see note [h11]	**340**	< 20	< 50	< 0.200	< 3	**340**	**6.50**	**5.9**	< 0.2	**1400**	< 0.200	**220**	**20**	**6.50**	**5.90**	< 0.200
	10/8/2013+	Endyne	see note [p11]	**340**	< 10	< 25	< 0.100	< 1	**350**	**4.90**	**7.3**	< 0.2	**1600**	< 0.100	**150**	**15**	**4.90**	**7.30**	< 0.100
	5/6/2014+	Endyne	see note [b12]	**280**	< 2	6	< 0.020	< 1	**180**	**2.50**	**3.0**	< 0.2	**980**	< 0.020	**41**	**2.4**	**2.50**	**3.00**	< 0.020
	10/6/2014+	Endyne	see note [g12]	**680**	< 20	< 50	< 0.020	< 1	**280**	**2.90**	**2.8**	< 0.2	**250**	< 0.020	**24**	**4.5**	**2.90**	**2.80**	< 0.020
	See notes [3] and [4] below.																		
	Normal Distribution?			No	No			No	No	Yes	Yes		Yes		Yes	No	Yes	Yes	
	Transformation Closest to Normal			Ln	Ln			Ln	Ln							Ln			
	Does Transformation Produce Normality?			Yes	No			Yes	Yes							Yes			
	Mean of Transformed Data			4.19	1.21			0.91	3.89				5.81			1.18			
	Mean of Untransformed Data									3.31	3.23				57.94		3.31	3.23	
	Std. Dev. of Transformed Data			0.98	0.60			0.87	0.94				1.08			3.24			
	Std. Dev. of Untransformed Data									2.83	2.84				57.36		2.83	2.84	
	n			35	35			35	35	35	35		35		35	35	35	35	
	Student's t-value (one-tailed)			1.69	1.69			1.69	1.69	1.69	1.69		1.69		1.69	1.69	1.69	1.69	
	Upper 95% Confidence Value			86.83	3.962			3.170	63.645	4.121	4.04		454.76		74.30	8.236	4.121	4.04	
	Lower 95% Confidence Value			**49.75**	**2.810**			**1.933**	37.221	**2.508**	**2.42**		**245.09**		**41.57**	**1.297**	**2.508**	**2.423**	

[1] VT GES = VT Groundwater Enforcement Standards and Preventive Action Levels from Table 1, Groundwater Protection Rule & Strategy (GWPRS), 2005.

[2] From December 2002 Vermont Department of Health Drinking Water Guidance.

* Bold values exceed Vermont Preventive Action Level

** Shaded values exceed Vermont GES, as set by Vermont GWPRS, 2005.

*** As of 2/26/2007, the Primary Vermont Groundwater Enforcement Standard for Manganese was changed from 0.840 mg/L to 0.300 mg/L.

The < values listed here are the reported detection limit.

M- = the laboratory fortified matrix (LFM) analysis indicates a potential negative bias in the reported value

[a] through [u3]: See last page of inorganic data for additional notes.

[3] Statistical analyses are conducted only on data since 5/15/1998, when requirement changed to TOTAL metals instead of dissolved metals, except for Mn & Fe (see note below).
Archived data has not been included in statistical analyses since 5/15/1998.

[4] For Fe and Mn only, requirement since 5/15/1998 is to analyze for both total and dissolved forms. The dissolved archived data are not included in the statistical analyses to give consistency between dissolved and total Mn & Fe as prior to 5/98, samples were not analyzed for total and dissolved metals on the same date. This gives consistency of comparisons between dissolved and total Fe and Mn.

+MW sampling utilized low-flow technology at the request of the State when sufficient water was available.

NEWSVT Landfills
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				Primary Groundwater Quality Parameters [1]									Secondary Groundwater Quality Parameters [2]						
				Total Arsenic (ug/L)	Total Cadmium (ug/L)	Total Chromium (ug/L)	Total Copper (mg/L)	Total Lead (ug/L)	Total Nickel (ug/L)	Total Manganese*** (mg/L)	Dissolved Manganese*** (mg/L)	Total Mercury (ug/L)	Total Chloride (mg/L)	Total Copper (mg/L)	Total Iron (mg/L)	Dissolved Iron (mg/L)	Total Manganese (mg/L)	Dissolved Manganese (mg/L)	Total Zinc (mg/L)
	VT GES**[1]			10.0	5.0	100.0	1.300	15.0	100.0	0.300	0.300	2.0	250	1.0	0.3	0.3	0.05	0.05	5
	VT Preventive Action Level* [1]			1.0	2.5	50.0	0.650	1.5	50.0	0.150	0.150	0.5	125	0.5	0.15	0.15	0.025	0.025	2.5
	VT Health Advisory [2]			None	None	None	1.300	15	100	0.300	0.300	None	250	1.0	0.3	0.3	0.05	0.05	5
	Federal MCL [2]			10	5	100	None	None	None	None	None	2	None	None	None	None	None	None	None
Well	Date	Lab	Remarks																
MW-E1	5/6/2005	Endyne	see note [s]	**28**	< 3	22	0.016	**14**	36	**0.788**	< 0.005	< 1	8	0.016	**12.9**	< 0.010	**0.788**	< 0.005	0.103
	10/4/2005	Endyne	see note [f]	**11**	< 2	< 10	< 0.010	< 10	< 20	0.138	0.091	< 1	7	< 0.010	**0.163**	< 0.010	**0.138**	**0.091**	< 0.020
	5/2/2006	Endyne	see note [u]	**20**	**3**	12	< 0.010	< 10	< 20	**0.227**	0.048	< 1	6.53	< 0.010	**4.060**	0.010	**0.227**	**0.048**	0.035
	10/3/2006	Endyne	see note	**54**	< 2.0	31	< 0.02	**10**	25	**0.786**	0.057	< 1	6.94	< 0.02	**13.40**	< 0.02	**0.786**	**0.057**	0.077
	5/1/2007	Endyne	see note [u1]	**12**	< 2.0	< 20	< 0.02	**2**	< 20	**0.187**	0.150	< 1	7.80	< 0.02	**2.18**	**0.216**	**0.187**	**0.150**	< 0.020
	10/4/2007	Endyne	see note [c2]	**13**	< 2.0	< 20	< 0.020	**2**	< 20	**0.409**	0.125	**1.0**	9.10	< 0.020	**2.34**	< 0.020	**0.409**	**0.125**	< 0.020
	5/6/2008	Endyne	see note [a3]	**21**	**34**	< 20	< 0.020	**5**	< 20	**0.340**	**0.160**	< 1	9.50	< 0.020	**5.60**	**0.18**	**0.340**	**0.160**	0.12
	10/6/2008	Endyne	see note [z3]	**24**	**45**	< 20	< 0.020	**3**	< 20	**0.400**	0.060	< 1	9.00	< 0.020	**5.20**	0.023	**0.400**	**0.060**	0.2
	5/6/2009	Endyne	see note [b5]	**110**	**55**	**120**	0.038	**41**	**110**	**1.000**	0.120	< 1	9.60	0.038	**46.00**	0.038	**1.000**	**0.120**	0.4
	10/6/2009	Endyne	see note [a3]	**33**	**8**	< 20	< 0.020	**5**	< 20	**0.340**	0.110	< 1	10.00	< 0.020	**5.80**	0.066	**0.340**	**0.110**	0.087
	5/4/2010	Endyne	see note [b7]	**20**	**23**	23	< 0.020	**6**	27	**0.430**	0.140	< 0.1	9.10	< 0.020	**9.90**	0.082	**0.430**	**0.140**	0.085
	10/5/2010	Endyne	see note [a8]	**15**	**17**	6	< 0.020	1	8	**0.190**	0.075	< 0.2	8.50	< 0.020	**2.50**	0.077	**0.190**	**0.075**	0.035
	5/4/2011	Endyne	see note [v8]	**12**	**34**	< 5	< 0.020	< 1	< 5	0.150	0.130	< 0.2	7.80	< 0.020	**0.96**	**0.17**	**0.150**	**0.130**	0.18
	10/4/2011^	Endyne	see note [v8]	**12**	**16**	< 5	< 0.020	< 1	< 5	0.073	0.077	< 0.2	9.30	< 0.020	**0.95**	0.15	**0.073**	**0.077**	0.042
	5/2/2012^	Endyne	see note [q9]	**13**	**8**	< 5	< 0.020	**2**	< 5	**0.310**	0.130	< 0.2	7.50	< 0.020	**1.50**	**0.41**	**0.310**	**0.130**	0.052
	10/2/2012^	Endyne	see note [w10]	**44**	**55**	37	< 0.020	**12**	44	**0.590**	0.150	< 0.2	8.40	< 0.020	**14.00**	0.031	**0.590**	**0.150**	0.56
	5/9/2013^	Endyne	see note [o10]	**24**	< 2	< 5	< 0.020	**7**	< 5	**0.420**	**0.210**	< 0.2	4.50	< 0.020	**6.80**	0.11	**0.420**	**0.210**	< 0.020
	10/10/2013^	Endyne	see note [o10]	**12**	**3**	9	< 0.020	**2**	8	**0.300**	**0.250**	< 0.2	6.50	< 0.020	**2.50**	0.080	**0.300**	**0.250**	0.031
Duplicate	10/10/2013^	Endyne	see note [x11]	**16**	**7**	15	< 0.020	**5**	16	**0.400**	**0.220**	< 0.2	7.50	< 0.020	**5.30**	0.039	**0.400**	**0.220**	0.057
	5/7/2014^	Endyne	see note [o10]	**10**	**3**	6	< 0.020	**26**	6	**0.250**	**0.190**	< 0.2	6.20	< 0.020	**1.80**	0.068	**0.250**	**0.190**	0.030
	10/7/2014^	Endyne	see note [o10]	**10**	2	5	< 0.020	< 1	< 5	**0.160**	0.130	< 0.2	8.30	< 0.020	**1.40**	< 0.020	**0.160**	**0.130**	0.023
	See notes [3] and [4] below.																		
	Normal Distribution?			Yes	Yes	No		Yes	Yes	Yes					Yes	Yes	Yes	Yes	
	Transformation Closest to Normal					Ln													
	Does Transformation Produce Normality?					Yes													
	Mean of Transformed Data					2.59													
	Mean of Untransformed Data			24.48	15.52			7.90	21.19	0.38					6.92	0.09	21.19	0.38	
	Std. Dev. of Transformed Data					0.85													
	Std. Dev. of Untransformed Data			22.75	18.22			9.68	23.02	0.24					9.92	0.10	23.02	0.24	
	n			21	21	21		21	21	21					21	21	21	21	
	Student's t-value (one-tailed)			1.72	1.72	1.72		1.72	1.72	1.72					1.72	1.72	1.72	1.72	
	Upper 95% Confidence Value			33.00	22.35	18.27		11.53	29.82	0.47					10.63	0.12	29.82	0.47	
	Lower 95% Confidence Value			**15.951**	**8.698**	9.70		**4.278**	12.564	**0.286**					**3.202**	0.051	**12.564**	**0.286**	

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[2] From December 2002 Vermont Department of Health Drinking Water Guidance.

* Bold values exceed Vermont Preventive Action Level

** Shaded values exceed Vermont GES, as set by Vermont GWPRS, 2005.

*** As of 2/26/2007, the Primary Vermont Groundwater Enforcement Standard for Manganese was changed from 0.840 mg/L to 0.300 mg/L.

The < values listed here are the reported detection limit.

[a] through [u3]: See last page of inorganic data for additional notes.

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Archived data has not been included in statistical analyses since 5/15/1998.

[4] For Fe and Mn only, requirement since 5/15/1998 is to analyze for both total and dissolved forms. The dissolved archived data are not included in the statistical analyses to give consistency between dissolved and total Mn & Fe as prior to 5/98, samples were not analyzed for total and dissolved metals on the same date. This gives consistency of comparisons between dissolved and total Fe and Mn.

^ Insufficient water to low-flow well, grab sample obtained

NEWSVT Landfills
Coventry, Vermont
Groundwater Analyses
Inorganics

				Primary Groundwater Quality Parameters [1]									Secondary Groundwater Quality Parameters [2]						
				Total Arsenic (ug/L)	Total Cadmium (ug/L)	Total Chromium (ug/L)	Total Copper (mg/L)	Total Lead (ug/L)	Total Nickel (ug/L)	Total Manganese*** (mg/L)	Dissolved Manganese*** (mg/L)	Total Mercury (ug/L)	Total Chloride (mg/L)	Total Copper (mg/L)	Total Iron (mg/L)	Dissolved Iron (mg/L)	Total Manganese (mg/L)	Dissolved Manganese (mg/L)	Total Zinc (mg/L)
	VT GES**[1]			10.0	5.0	100.0	1.300	15.0	100.0	0.300	0.300	2.0	250	1.0	0.3	0.3	0.05	0.05	5
	VT Preventive Action Level* [1]			1.0	2.5	50.0	0.650	1.5	50.0	0.150	0.150	0.5	125	0.5	0.15	0.15	0.025	0.025	2.5
	VT Health Advisory [2]			None	None	None	1.300	15	100	0.300	0.300	None	250	1.0	0.3	0.3	0.05	0.05	5
	Federal MCL [2]			10	5	100	None	None	None	None	None	2	None	None	None	None	None	None	None
Well	Date	Lab	Remarks																
MW-P2R	Earlier data are archived to conserve table space. See notes [3] and [4] below.																		
	10/13/1998	Endyne	see note [c]	**55**	< 2	< 10	< 0.020	< 2	**160**	**9.63**	3.410	< 1	**246**	< 0.020	**63.5**	**7.86**	**9.63**	**3.41**	0.048
	5/5/1999	Endyne	see note [e]	**15**	< 3	< 10	< 0.010	**3**	**278**	**3.24**	2.660	< 1	**184**	< 0.010	**21.2**	**2.53**	**3.24**	**2.66**	0.024
Downgradient	10/12/1999	Endyne	see note [g]	**96**	< 3	0.103	0.057	**52**	**456**	**3.61**	1.190	< 1	**209**	0.057	**92.1**	**1.82**	**3.61**	**1.19**	0.185
	5/4/2000	Endyne	see note [h]	**55**	< 3	0.021	0.014	**12**	**242**	**1.36**	1.120	< 1	**223**	0.014	**27.7**	**0.58**	**1.36**	**1.12**	0.052
	10/10/2000	Endyne	see note [g]	**65**	< 3	**81**	0.030	**40**	**277**	**2.09**	0.867	< 1	**191**	0.030	**82.5**	**6.01**	**2.09**	**0.867**	0.112
	5/3/2001	Endyne	see note [j]	**28**	< 3	37	0.034	**9**	**212**	**1.47**	0.931	< 2	43	0.034	**64.6**	**2.02**	**1.47**	**0.931**	0.059
	10/3/2001	Endyne	see note [i]	**54**	< 3	10	0.018	**3**	**103**	**0.92**	0.665	< 1	**208**	0.018	**38.9**	**0.372**	**0.92**	**0.665**	0.027
	5/2/2002	Endyne	see note [l]	**83**	< 3	49	0.050	**13**	**217**	**2.05**	0.946	< 1	**329**	0.050	**64**	**17.8**	**2.05**	**0.946**	0.092
	10/2/2002	Endyne	see note [h]	**103**	< 3	**55**	0.023	**9**	**157**	**1.31**	0.554	< 1	**250**	0.023	**56.0**	**1.19**	**1.31**	**0.554**	0.055
	5/6/2003	Endyne	see note [d]	**70**	< 3	< 10	0.015	**6**	**157**	**1.45**	1.05	< 1	**354**	0.015	**48.6**	**19.7**	**1.45**	**1.05**	< 0.020
	10/2/2003	Endyne	see note [d]	**82**	< 3	< 10	0.014	**3**	**118**	**1.02**	0.714	< 1	**367**	0.014	**38.5**	**6.60**	**1.02**	**0.714**	< 0.020
	5/4/2004	Endyne	see note [h]	**104**	< 3	23	< 0.010	**8**	**154**	**1.86**	1.37	< 1	**399**	< 0.010	**64.5**	**34.9**	**1.86**	**1.37**	0.081
	10/5/2004	Endyne	see note [f]	**144**	< 3	< 10	< 0.010	< 2	**143**	**0.694**	0.587	< 1	87	< 0.010	**47.1**	0.031	**0.694**	**0.587**	0.028
	5/3/2005	Endyne	see note [cc]	**132**	< 3	< 10	0.011	**3**	**119**	**0.857**	0.775	< 1	**408**	0.011	**45.1**	**18.8**	**0.857**	**0.775**	< 0.020
duplicate	5/3/2005	Endyne	see note [cc]	**109**	< 3	< 10	0.013	< 2	**116**	**0.776**	0.786	< 1	**394**	0.013	**44.6**	**21**	**0.776**	**0.786**	< 0.020
	10/4/2005	Endyne	see note [jj]	**104**	< 2	< 10	0.038	< 10	**92**	**0.622**	0.490	< 1	**385**	0.038	**38**	**3.46**	**0.622**	**0.490**	< 0.020
	5/2/2006	Endyne	see note [uu]	**384**	**3**	**109**	0.073	**27**	**442**	**2.150**	0.819	< 1	**436**	0.073	**151**	**17.9**	**2.15**	**0.819**	0.162
	10/3/2006	Endyne	see note [fff]	**176**	< 2	< 20	0.028	**6**	**194**	**0.610**	0.404	< 1	**425**	0.028	**38.9**	**12.2**	**0.610**	**0.404**	0.039
duplicate	10/3/2006	Endyne	see note [zzz]	**552**	< 2	**91**	0.084	**21**	**319**	**1.330**	0.407	< 1	**427**	0.084	**107**	**109**	**1.330**	**0.407**	0.208
	5/1/2007	Endyne	see note [e1]	**138**	**4**	< 20	< 0.020	**6**	**149**	**0.722**	0.388	< 1	**468**	< 0.020	**49.7**	**32.8**	**0.722**	**0.388**	0.037
	10/3/2007	Endyne	see note [d2]	**126**	**3**	< 20	0.033	**14**	**147**	**0.929**	0.309	< 1	**470**	0.033	**40.7**	**21.9**	**0.929**	**0.309**	0.039
	5/6/2008	Endyne	see note [b3]	**196**	**7**	**60**	0.052	**31**	24	**1.300**	0.55	< 1	**480**	0.052	**74.0**	**31.0**	**1.300**	**0.550**	0.077
duplicate	5/6/2008	Endyne	see note [c3]	**226**	**8**	49	0.062	**20**	25	**1.400**	0.55	< 1	**480**	0.062	**73.0**	**31.0**	**1.400**	**0.550**	0.076
	10/6/2008	Endyne	see note [a4] M-	**470**	< 2	23	0.047	**10**	19	**0.770**	**0.28**	< 1	**520**	0.047	**60.0**	**10.0**	**0.770**	**0.280**	0.052
	5/6/2009	Endyne	see note [c5]	**100**	< 2	< 20	< 0.020	< 2	**120**	**0.370**	**0.29**	< 1	**530**	< 0.020	**26.0**	**23.0**	**0.370**	**0.290**	< 0.020
	10/6/2009	Endyne	see note [c5]	**130**	< 2	< 20	< 0.020	< 1	14	**0.380**	**0.27**	< 1	**490**	< 0.020	**22.0**	**18.0**	**0.380**	**0.270**	< 0.020
	5/4/2010	Endyne	see note [c7]	**340**	< 2	21	< 0.200	**4**	**140**	**0.560**	0.31	< 0.2	**540**	< 0.020	**42.0**	**19.0**	**0.560**	**0.310**	0.027
	10/5/2010	Endyne	see note [b8]	**217**	< 2	17	< 0.020	**3**	**100**	**0.490**	**0.23**	< 0.2	**530**	< 0.020	**34.0**	**17.0**	**0.490**	**0.230**	0.023
	5/4/2011	Endyne	see note [x8]	**314**	**4**	**66**	0.022	**13**	**240**	**1.100**	**0.23**	< 0.2	**440**	0.022	**61.0**	**13.0**	**1.100**	**0.230**	0.110
	10/5/2011+	Endyne	see note [k9]	**290**	**4**	**94**	0.047	< 1.0	**220**	**1.200**	**0.25**	< 0.2	**580**	0.047	**73.0**	**22.0**	**1.200**	**0.250**	0.110
	5/2/2012+	Endyne	see note [z9]	**250**	**3**	49	< 0.020	**12**	**170**	**1.100**	**0.25**	< 0.2	**570**	< 0.020	**56.0**	**22.0**	**1.100**	**0.250**	0.054
	10/1/2012+	Endyne	see note [v10]	**730**	< 2	**73**	< 0.020	**18**	**220**	**2.000**	**0.20**	< 0.2	**520**	< 0.020	**74.0**	**18.0**	**2.000**	**0.200**	0.081
	5/7/2013+	Endyne	see note [z8]	**180**	**3**	19	< 0.020	**5**	**100**	**0.620**	**0.23**	< 0.2	**530**	< 0.020	**35.0**	**7.7**	**0.620**	**0.230**	0.028
	10/8/2013+	Endyne	see note [q11]	**230**	2	33	< 0.020	**3**	**89**	**0.500**	**0.22**	< 0.2	**540**	< 0.020	**32.0**	**17.0**	**0.500**	**0.220**	< 0.020
	5/6/2014+	Endyne	see note [c12]	**120**	< 2	14	< 0.020	**9**	**150**	**0.970**	0.34	< 0.2	**630**	< 0.020	**32.0**	**2.9**	**0.970**	**0.340**	0.071
	10/6/2014+	Endyne	see note [h12]	**470**	< 2	**62**	0.025	**6**	**170**	**0.970**	0.67	< 0.2	**550**	0.025	**63.0**	**34.0**	**0.970**	**0.670**	0.070
duplicate	10/6/2014+	Endyne	see note [i12]	**380**	< 2	**51**	0.020	**8**	**130**	**0.810**	0.66	< 0.2	**640**	0.020	**50.0**	**34.0**	**0.810**	**0.660**	0.053
	See notes [3] and [4] below.																		
	Normal Distribution?			Yes	No	No		Yes	Yes	No	No		Yes		Yes	Yes	No	No	
	Transformation Closest to Normal				Ln	Sqrt				Yes	Yes						Yes	Yes	
	Does Transformation Produce Normality?				No	Yes				Ln	Ln						Ln	Ln	
	Mean of Transformed Data				1.02	2.94				0.10	-0.62						0.10	-0.62	
	Mean of Untransformed Data			197.78				10.73	167.11				407.38		54.90	17.79			
	Std. Dev. of Transformed Data				0.33	1.66				0.66	0.70						0.66	0.70	
	Std. Dev. of Untransformed Data			161.41				11.24	99.00				151.00		25.51	18.81	186.71	0.68	
	n			37	37	37		37	37	37	37		37		37	37	37	37	
	Student's t-value (one-tailed)			1.69	1.69	1.69		1.69	1.69	1.69	1.69		1.69		1.69	1.69	1.69	1.69	
	Upper 95% Confidence Value			242.519	3.035	11.577		13.846	194.551	1.325	0.651		449.23		61.966	23.001	1.325	0.651	
	Lower 95% Confidence Value			**153.041**	**2.523**	6.160		**7.614**	**139.669**	**0.921**	0.443		**365.53**		**47.828**	**12.571**	**0.921**	**0.443**	

[1] VT GES = VT Groundwater Enforcement Standards and Preventive Action Levels from Table 1, Groundwater Protection Rule & Strategy (GWPRS), 2005.

[2] From December 2002 Vermont Department of Health Drinking Water Guidance.

* Bold values exceed Vermont Preventive Action Level

** Shaded values exceed Vermont GES, as set by Vermont GWPRS, 2005.

*** As of 2/26/2007, the Primary Vermont Groundwater Enforcement Standard for Manganese was changed from 0.840 mg/L to 0.300 mg/L.

The < values listed here are the reported detection limit.

M- = the laboratory fortified matrix (LFM) analysis indicates a potential negative bias for the reported values of total selenium and total thllium on October 6, 2008

[a] through [u3]: See last page of inorganic data for additional notes.

[3] Statistical analyses are conducted only on data since 5/15/1998, when requirement changed to TOTAL metals instead of dissolved metals, except for Mn & Fe (see note below).
Archived data has not been included in statistical analyses since 5/15/1998.

[4] For Fe and Mn only, requirement since 5/15/1998 is to analyze for both total and dissolved forms. The dissolved archived data are not included in the statistical analyses to give consistency between dissolved and total Mn & Fe as prior to 5/98, samples were not analyzed for total and dissolved metals on the same date. This gives consistency of comparisons between dissolved and total Fe and Mn.

+MW sampling utilized low-flow technology at the request of the State when sufficient water was available.

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				Primary Groundwater Quality Parameters [1]									Secondary Groundwater Quality Parameters [2]						
				Total Arsenic (ug/L)	Total Cadmium (ug/L)	Total Chromium (ug/L)	Total Copper (mg/L)	Total Lead (ug/L)	Total Nickel (ug/L)	Total Manganese*** (mg/L)	Dissolved Manganese*** (mg/L)	Total Mercury (ug/L)	Total Chloride (mg/L)	Total Copper (mg/L)	Total Iron (mg/L)	Dissolved Iron (mg/L)	Total Manganese (mg/L)	Dissolved Manganese (mg/L)	Total Zinc (mg/L)
	VT GES**[1]			10.0	5.0	100.0	1.300	15.0	100.0	0.300	0.300	2.0	250	1.0	0.3	0.3	0.05	0.05	5
	VT Preventive Action Level* [1]			1.0	2.5	50.0	0.650	1.5	50.0	0.150	0.150	0.5	125	0.5	0.15	0.15	0.025	0.025	2.5
	VT Health Advisory [2]			None	None	None	1.300	15	100	0.300	0.300	None	250	1.0	0.3	0.3	0.05	0.05	5
	Federal MCL [2]			10	5	100	None	None	None	None	None	2	None	None	None	None	None	None	None
Well	Date	Lab	Remarks																
MW-P5	Earlier data are archived to conserve table space. See notes [3] and [4] below.																		
	5/15/1998	Endyne	see note [a]	< 5	< 5	< 10	< 0.010	< 5	< 20	0.121	0.110	< 2	17	< 0.010	0.058	0.036	**0.121**	**0.110**	0.012
	10/13/1998	Endyne	see note [b]	< 5	< 2	< 10	< 0.020	**5**	< 20	**0.196**	0.122	< 1	2.6	< 0.020	**1.10**	< 0.020	**0.196**	**0.122**	0.011
Downgradient	5/5/1999	Endyne	see note [d]	< 5	< 3	< 10	< 0.010	**29**	41	**0.487**	0.127	< 1	< 1	< 0.010	**4.74**	< 0.010	**0.487**	**0.127**	0.063
	10/12/1999	Endyne	see note [g]	**40**	< 3	**141**	0.062	**72**	**293**	**1.850**	0.104	< 1	12.7	0.062	**88.10**	0.013	**1.850**	**0.104**	0.214
	5/4/2000	Endyne	see note [g]	**20**	< 3	50	0.016	**17**	**100**	**0.728**	0.099	< 1	8.2	0.016	**28.20**	0.032	**0.728**	**0.099**	0.080
	10/10/2000	Endyne	see note [g]	**16**	< 3	**72**	0.027	**126**	**128**	**0.897**	0.121	< 1	< 4	0.027	**44.70**	0.013	**0.897**	**0.121**	0.117
	5/3/2001	Endyne	see note [k]	**14**	< 3	10	0.054	**19**	**100**	**1.030**	0.116	< 2	< 2.5	0.054	**63.90**	0.028	**1.030**	**0.116**	< 0.020
	10/3/2001	Endyne	see note [i]	**2**	< 3	< 10.0	< 0.010	**2**	20	0.137	0.123	< 1	< 2.5	< 0.010	**1.89**	< 0.010	**0.137**	**0.123**	< 0.020
	5/2/2002	Endyne	see note [j]	**11**	< 3	49	0.035	**12**	**109**	**0.821**	0.111	< 1	< 2.5	0.035	**14.9**	< 0.010	**0.821**	**0.111**	0.083
	10/2/2002	Endyne	see note [a]	**11**	< 3	30	0.017	**8**	50	**0.497**	0.098	< 1	< 2.5	0.017	**17.3**	0.019	**0.497**	**0.098**	0.096
	5/6/2003	Endyne	see note [d]	< 2	< 3	< 10	< 0.010	< 2	< 20	0.138	0.121	< 1	< 2.5	< 0.010	**0.163**	< 0.010	**0.138**	**0.121**	< 0.020
	10/2/2003	Endyne	see note [d]	**3**	< 3	< 10	< 0.010	< 2	< 20	0.109	0.082	< 1	< 2.5	< 0.010	**1.49**	< 0.010	**0.109**	**0.082**	< 0.020
	5/4/2004	Endyne	see note [d]	< 2	< 3	< 10	< 0.010	< 2	< 20	0.126	0.098	< 1	< 2.5	< 0.010	0.099	< 0.010	**0.126**	**0.098**	< 0.020
	10/5/2004	Endyne	see note [f]	**11**	< 3	13	0.012	**7**	**69**	**0.486**	0.068	< 1	< 2.5	0.012	**14.5**	< 0.010	**0.486**	**0.068**	0.048
duplicate	10/5/2004	Endyne	see note [g]	**16**	< 3	**53**	0.017	**10**	**106**	**0.809**	0.075	< 1	< 2.5	0.017	**24.0**	< 0.010	**0.809**	**0.075**	0.078
	5/3/2005	Endyne	see note [bb]	**3**	< 3	10	0.01	**2**	< 20	0.137	0.084	< 1	< 2.5	< 0.010	**0.929**	0.012	**0.137**	**0.084**	< 0.020
	10/4/2005	Endyne	see note [jj]	**9**	< 2	27	0.018	< 10	41	**0.529**	0.110	< 1	< 2.5	0.018	**12.6**	0.017	**0.529**	**0.110**	0.044
	5/2/2006	Endyne	see note [u]	**11**	< 2	33	0.013	< 10	**53**	**0.545**	0.126	< 1	< 2.5	0.013	**14.40**	< 0.010	**0.545**	**0.126**	0.040
	10/3/2006	Endyne	see note [ggg]	**9**	< 2	21	0.020	< 5	40	**0.343**	0.134	< 1	< 2.5	0.020	**11.30**	< 0.020	**0.343**	**0.134**	0.031
	5/1/2007	Endyne	see note [f1]	**5**	< 2	< 20	< 0.020	**2**	20	**0.368**	0.107	< 1	< 2.5	< 0.020	**5.54**	0.038	**0.368**	**0.107**	0.020
	10/4/2007	Endyne	see note [e2]	< 2	< 2	< 20	< 0.020	**2**	< 20	**0.414**	0.077	< 1	< 2.5	< 0.020	**2.14**	< 0.020	**0.414**	**0.077**	< 0.020
	5/6/2008	Endyne	see note [d3]	**3**	< 2	< 20	< 0.020	< 1	< 20	**0.300**	0.095	< 1	< 2.5	< 0.020	**2.60**	0.033	**0.300**	**0.095**	< 0.020
duplicate	5/6/2008	Endyne	see note [e3]	**2**	< 2	< 20	< 0.020	< 1	< 20	**0.190**	0.087	< 1	< 2.5	< 0.020	**1.10**	0.11	**0.190**	**0.087**	< 0.020
	10/6/2008	Endyne	see note [b4]	**7**	13	40	0.033	**11**	**87**	**0.780**	0.130	< 1	< 2.5	0.033	**20.00**	0.06	**0.780**	**0.130**	0.074
	5/6/2009	Endyne	see note [d5]	**4**	<2	<20	< 0.020	**2**	28	**0.380**	0.079	< 1	< 2.5	< 0.020	**7.20**	0.037	**0.380**	**0.079**	0.022
	10/6/2009	Endyne	see note [d6]	**5**	<2	<20	< 0.020	**5**	39	**0.430**	0.100	< 1	< 2.5	< 0.020	**9.20**	0.044	**0.430**	**0.100**	0.025
	5/4/2010	Endyne	see note [d7]	**3**	<2	8	< 0.020	1	17	**0.320**	0.096	< 0.2	< 2.5	< 0.020	**4.10**	0.072	**0.320**	**0.096**	0.012
	10/5/2010	Endyne	see note [c8]	**4**	<2	< 5	< 0.020	< 1	11	**0.240**	0.110	< 0.2	2.9	< 0.020	**2.70**	0.044	**0.240**	**0.110**	0.007
	5/4/2011	Endyne	see note [v8]	**2**	<2	< 5	< 0.020	< 1	< 5	0.150	0.086	< 0.2	< 2.5	< 0.020	**0.19**	0.046	**0.150**	**0.086**	< 0.005
	10/5/2011+	Endyne	see note [v8]	**2**	**11**	< 5	< 0.020	< 1	< 5	0.150	0.120	< 0.2	< 2.5	< 0.020	**0.86**	0.062	**0.150**	**0.120**	< 0.020
	5/1/2012+	Endyne	see note [a10]	**3**	< 2	< 5	< 0.020	< 1	< 5	**0.170**	0.150	< 0.2	< 2.5	< 0.020	**0.43**	< 0.020	**0.170**	**0.150**	< 0.020
	10/2/2012+	Endyne	see note [t10]	**2**	< 2	< 5	< 0.020	< 1	< 5	**0.190**	0.120	< 0.2	< 2.5	< 0.020	**1.00**	< 0.020	**0.190**	**0.120**	< 0.020
	5/7/2013+	Endyne	see note [i11]	**2**	< 2	< 5	< 0.020	< 1	< 5	**0.200**	**0.160**	< 0.2	< 2.5	< 0.020	**0.44**	0.025	**0.200**	**0.160**	< 0.020
	10/8/2013+	Endyne	see note [o10]	**2**	< 2	< 5	< 0.020	< 1	< 5	0.140	0.150	< 0.2	< 2.5	< 0.020	0.071	< 0.020	**0.140**	**0.150**	< 0.020
	5/6/2014+	Endyne	see note [o10]	**2**	< 2	< 5	< 0.020	< 1	< 5	0.130	0.140	< 0.2	< 2.5	< 0.020	< 0.020	< 0.020	**0.130**	**0.140**	< 0.020
	10/6/2014+	Endyne	see note [o10]	**2**	< 2	< 5	< 0.020	< 1	< 5	**0.160**	0.140	< 0.2	2.5	< 0.020	0.027	< 0.020	**0.160**	**0.140**	< 0.020
	See notes [3] and [4] below.																		
	Normal Distribution?			No	No	No		No	No	Yes					No		Yes	Yes	
	Transformation Closest to Normal			Ln	Ln	Ln		Ln	Ln						Ln				
	Does Transformation Produce Normality?			Yes	No	Yes		No	Yes						Yes				
	Mean of Transformed Data			1.54	0.98	2.66		1.28	3.19						0.83				
	Mean of Untransformed Data									0.41							0.41	0.11	
	Std. Dev. of Transformed Data			0.84	0.44	0.89		1.32	1.11						2.23				
	Std. Dev. of Untransformed Data									0.36							0.36	0.02	
	n			36	36	36		36	36	36					36		36	36	
	Student's t-value (one-tailed)			1.69	1.69	1.69		1.69	1.69	1.69					1.69		1.69	1.69	
	Upper 95% Confidence Value			5.90	3.00	18.35		5.209	33.233	0.51					4.302		0.51	0.12	
	Lower 95% Confidence Value			**3.68**	0.97	11.13		**2.480**	17.762	**0.308**					**1.225**		**0.308**	**0.104**	

[1] VT GES = VT Groundwater Enforcement Standards and Preventive Action Levels from Table 1, Groundwater Protection Rule & Strategy (GWPRS), 2005.

[2] From December 2002 Vermont Department of Health Drinking Water Guidance.

* Bold values exceed Vermont Preventive Action Level

** Shaded values exceed Vermont GES, as set by Vermont GWPRS, 2005.

*** As of 2/26/2007, the Primary Vermont Groundwater Enforcement Standard for Manganese was changed from 0.840 mg/L to 0.300 mg/L.

The < values listed here are the reported detection limit.

[a] through [u3]: See last page of inorganic data for additional notes.

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Archived data has not been included in statistical analyses since 5/15/1998.

[4] For Fe and Mn only, requirement since 5/15/1998 is to analyze for both total and dissolved forms. The dissolved archived data are not included in the statistical analyses to give consistency between dissolved and total Mn & Fe as prior to 5/98, samples were not analyzed for total and dissolved metals on the same date. This gives consistency of comparisons between dissolved and total Fe and Mn.

+MW sampling utilized low-flow technology at the request of the State when sufficient water was available.

NEWSVT Landfills
Coventry, Vermont
Groundwater Analyses
Inorganics

				Primary Groundwater Quality Parameters [1]									Secondary Groundwater Quality Parameters [2]						
				Total Arsenic (ug/L)	Total Cadmium (ug/L)	Total Chromium (ug/L)	Total Copper (mg/L)	Total Lead (ug/L)	Total Nickel (ug/L)	Total Manganese*** (mg/L)	Dissolved Manganese*** (mg/L)	Total Mercury (ug/L)	Total Chloride (mg/L)	Total Copper (mg/L)	Total Iron (mg/L)	Dissolved Iron (mg/L)	Total Manganese (mg/L)	Dissolved Manganese (mg/L)	Total Zinc (mg/L)
	VT GES**[1]			10.0	5.0	100.0	1.300	15.0	100.0	0.300	0.300	2.0	250	1.0	0.3	0.3	0.05	0.05	5
	VT Preventive Action Level* [1]			1.0	2.5	50.0	0.650	1.5	50.0	0.150	0.150	0.5	125	0.5	0.15	0.15	0.025	0.025	2.5
	VT Health Advisory [2]			None	None	None	1.300	15	100	0.300	0.300	None	250	1.0	0.3	0.3	0.05	0.05	5
	Federal MCL [2]			10	5	100	None	None	None	None	None	2	None	None	None	None	None	None	None
Well	Date	Lab	Remarks																
MW-P6	Earlier data are archived to conserve table space. See notes [3] and [4] below.																		
	5/14/1998	Endyne	see note [a]	< 5	< 5	< 10	< 0.010	< 5	< 20	**0.264**	**0.283**	< 2	5.11	< 0.010	**2.4**	**1.10**	**0.264**	**0.283**	0.022
	10/13/1998	Endyne	see note [c]	< 5	< 2	14	< 0.020	< 2	**88**	**1.61**	**0.208**	< 1	< 1.0	< 0.020	**11.0**	< 0.020	**1.610**	**0.208**	0.085
Downgradient	5/5/1999	Endyne	see note [e]	< 5	< 3	12	0.013	**12**	**74**	**1.55**	**0.226**	< 1	< 1.0	0.013	**12.2**	< 0.010	**1.550**	**0.226**	0.066
	10/12/1999	Endyne	see note [g]	**19**	< 3	**61**	0.020	**39**	**133**	**1.18**	**0.178**	< 1	1.0	0.020	**46.3**	< 0.010	**1.180**	**0.178**	0.104
	5/4/2000	Endyne	see note [h]	**13**	< 3	22	< 0.010	**15**	**55**	**0.763**	**0.242**	< 1	< 4.0	< 0.010	**22.9**	< 0.010	**0.763**	**0.242**	0.052
	10/10/2000	Endyne	see note [g]	**17**	< 3	**94**	0.022	**40**	**157**	**1.68**	**0.260**	< 1	< 4.0	0.022	**69.7**	< 0.010	**1.680**	**0.260**	0.151
	5/3/2001	Endyne	see note [h]	**5**	< 3	12	0.018	**8**	37	**0.59**	**0.226**	< 2	< 2.5	0.018	**25.6**	< 0.019	**0.592**	**0.226**	0.032
	10/3/2001	Endyne	see note [f]	**4**	< 3	10	0.012	**3**	22	**0.39**	0.128	< 1	< 2.5	0.012	**11.7**	< 0.010	**0.391**	**0.128**	0.034
	5/2/2002	Endyne	see note [i]	**3**	< 3	< 10	< 0.010	**4**	< 20	**0.376**	**0.218**	< 1	< 2.50	< 0.010	**3.02**	0.022	**0.376**	**0.218**	0.022
	10/2/2002	Endyne	see note [a]	**5**	< 3	< 10	< 0.010	**4**	< 20	**0.530**	**0.205**	< 1	< 2.50	< 0.010	**9.14**	0.017	**0.530**	**0.205**	0.028
	5/6/2003	Endyne	see note [d]	**7**	< 3	19	0.012	**10**	48	**0.808**	**0.245**	< 1	< 2.50	0.012	**20.3**	< 0.010	**0.808**	**0.245**	0.035
	10/2/2003	Endyne	see note [d]	< 2	< 3	< 10	< 0.010	< 2	< 20	**0.165**	0.143	< 1	< 2.50	< 0.010	**0.419**	< 0.010	**0.165**	**0.143**	< 0.020
	5/4/2004	Endyne	see note [d]	**7**	< 3	22	< 0.010	**12**	39	**0.794**	**0.212**	< 1	< 2.50	< 0.010	**18.6**	0.086	**0.794**	**0.212**	0.051
	10/5/2004	Endyne	see note [f]	< 2	< 3	< 10	< 0.010	< 2	< 20	**0.225**	**0.199**	< 1	< 2.50	< 0.010	**1.50**	< 0.010	**0.225**	**0.199**	< 0.020
	5/3/2005	Endyne	see note [dd]	**3**	< 3	< 10	< 0.010	**2**	< 20	**0.446**	**0.181**	< 1	< 2.50	< 0.010	**4.76**	< 0.010	**0.446**	**0.181**	< 0.020
duplicate	5/3/2005	Endyne	see note [dd]	**13**	< 3	43	0.022	**14**	**74**	**1.02**	**0.204**	< 1	< 2.50	0.022	**34.8**	< 0.010	**1.02**	**0.204**	0.062
	10/4/2005	Endyne	see note [jj]	**4**	< 2	< 10	< 0.010	< 10	< 20	**0.458**	0.110	< 1	< 2.50	< 0.010	**6.77**	< 0.010	**0.458**	**0.110**	< 0.020
	5/2/2006	Endyne	see note [u]	**6**	< 2	25	< 0.01	< 10	38	**1.040**	**0.293**	< 1	< 2.50	< 0.01	**13.1**	< 0.010	**1.040**	**0.293**	0.031
	10/3/2006	Endyne	see note [hhh]	**26**	< 2	**56**	0.033	**14**	**115**	**0.922**	**0.268**	< 1	< 2.50	0.033	**32.80**	< 0.020	**0.922**	**0.268**	0.083
	5/1/2007	Endyne	see note [g1]	**8**	< 2	38	0.020	**8**	**76**	**0.844**	**0.269**	< 1	< 2.50	0.020	**18.1**	0.051	**0.844**	**0.269**	0.066
	10/4/2007	Endyne	see note [f2]	**5**	< 2	< 20	< 0.020	**7**	21	**1.610**	**0.230**	< 1	< 2.50	< 0.020	**7.74**	**0.533**	**1.610**	**0.230**	0.032
	5/6/2008	Endyne	see note [f3]	**5**	< 2	37	< 0.020	**9**	7	**0.840**	**0.280**	< 1	< 2.50	< 0.020	**18.00**	0.043	**0.840**	**0.280**	0.05
	10/6/2008	Endyne	see note [c4]	**6**	< 2	33	0.023	**8**	**69**	**0.810**	**0.300**	< 1	< 2.50	0.023	**2.40**	**1.000**	**0.810**	**0.300**	0.051
	5/6/2009	Endyne	see note [e5]	< 2	< 2	<20	< 0.020	**5**	39	**0.880**	**0.310**	< 1	< 2.50	< 0.020	**49.00**	0.053	**0.880**	**0.310**	0.11
	10/6/2009	Endyne	see note [e6]	**6**	< 2	32	< 0.020	**8**	**67**	**0.810**	**0.280**	< 1	< 2.50	< 0.020	**19.00**	0.064	**0.810**	**0.280**	0.052
	5/4/2010	Endyne	see note [e7]	**12**	< 2	**110**	0.061	**25**	**190**	**1.600**	**0.240**	< 0.2	< 2.50	< 0.061	**44.00**	0.110	**1.600**	**0.240**	0.13
	10/5/2010	Endyne	see note [y7]	**3**	< 2	20	< 0.020	**5**	37	**0.610**	**0.300**	< 0.2	3.5	< 0.020	**25.00**	**0.210**	**0.610**	**0.300**	0.031
	5/4/2011	Endyne	see note [y8]	**3**	< 2	15	< 0.020	**3**	19	**0.500**	**0.240**	< 0.2	< 2.5	< 0.020	**17.00**	0.050	**0.500**	**0.240**	0.017
	10/5/2011+	Endyne	see note [v8]	1	< 2	6	< 0.020	1	5	**0.290**	**0.230**	< 0.2	< 2.5	< 0.020	**12.00**	**0.340**	**0.290**	**0.230**	< 0.020
	5/1/2012+	Endyne	see note [b10]	1	< 2	< 5	< 0.020	< 1	< 5	**0.290**	**0.230**	< 0.2	< 2.5	< 0.020	**3.00**	0.076	**0.290**	**0.230**	< 0.020
	10/2/2012+	Endyne	see note [t10]	1	< 2	< 5	< 0.020	< 1	< 5	**0.340**	**0.280**	< 0.2	< 2.5	< 0.020	**12.00**	0.120	**0.340**	**0.280**	< 0.020
duplicate	10/2/2012+	Endyne	see note [o10]	1	< 2	< 5	< 0.020	< 1	< 5	**0.370**	**0.310**	< 0.2	3.5	< 0.020	**11.00**	0.040	**0.370**	**0.310**	< 0.020
	5/7/2013+	Endyne	see note [o10]	< 1	< 2	< 5	< 0.020	< 1	< 5	**0.350**	**0.280**	< 0.2	< 2.5	< 0.020	**11.00**	**0.320**	**0.350**	**0.280**	< 0.020
	10/8/2013+	Endyne	see note [o10]	< 1	< 2	< 5	< 0.020	< 1	7	**0.280**	**0.210**	< 0.2	< 2.5	< 0.020	**10.00**	**0.570**	**0.280**	**0.210**	< 0.020
	5/6/2014+	Endyne	see note [o10]	< 1	< 2	< 5	< 0.020	< 1	< 5	**0.800**	**0.700**	< 0.2	< 2.5	< 0.020	**8.40**	**0.550**	**0.800**	**0.700**	< 0.020
	10/7/2014+	Endyne	see note [o10]	< 1	< 2	< 5	< 0.020	1	6	**0.270**	**0.200**	< 0.2	2.5	< 0.020	**15.00**	0.140	**0.270**	**0.200**	< 0.020
	See notes [3] and [4] below.																		
	Normal Distribution?			No		No		No	Yes	Yes	Yes				Yes	No	Yes	Yes	
	Transformation Closest to Normal			Ln		Ln		Ln								Ln			
	Does Transformation Produce Normality?			Yes		Yes		Yes								Yes			
	Mean of Transformed Data			1.35		2.74		1.54								-3.05			
	Mean of Untransformed Data								44.11	0.73	0.25				17.49		0.73	0.25	
	Std. Dev. of Transformed Data			0.94		0.87		1.11								1.54			
	Std. Dev. of Untransformed Data								45.44	0.44	0.09				15.33		0.44	0.09	
	n			36		36		36	36	36	36				36	36	36	36	
	Student's t-value (one-tailed)			1.69		1.69		1.69	1.69	1.69	1.69				1.69	1.69	1.69	1.69	
	Upper 95% Confidence Value			5.014		19.699		6.382	56.886	0.86	0.27				21.80	0.073	0.86	0.27	
	Lower 95% Confidence Value			**2.953**		12.069		**3.414**	31.336	**0.61**	**0.22**				**13.18**	0.031	**0.606**	**0.222**	

[1] VT GES = VT Groundwater Enforcement Standards and Preventive Action Levels from Table 1, Groundwater Protection Rule & Strategy (GWPRS), 2005.

[2] From December 2002 Vermont Department of Health Drinking Water Guidance.

* Bold values exceed Vermont Preventive Action Level

** Shaded values exceed Vermont GES, as set by Vermont GWPRS, 2005.

*** As of 2/26/2007, the Primary Vermont Groundwater Enforcement Standard for Manganese was changed from 0.840 mg/L to 0.300 mg/L.

The < values listed here are the reported detection limit.

[a] through [u3]: See last page of inorganic data for additional notes.

[3] Statistical analyses are conducted only on data since 5/15/1998, when requirement changed to TOTAL metals instead of dissolved metals, except for Mn & Fe (see note below).

Archived data has not been included in statistical analyses since 5/15/1998.

[4] For Fe and Mn only, requirement since 5/15/1998 is to analyze for both total and dissolved forms. The dissolved archived data are not included in the statistical analyses to give consistency between dissolved and total Mn & Fe as prior to 5/98, samples were not analyzed for total and dissolved metals on the same date. This gives consistency of comparisons between dissolved and total Fe and Mn.

+MW sampling utilized low-flow technology at the request of the State when sufficient water was available.

NEWSVT Landfills
Coventry, Vermont
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Inorganics

				Primary Groundwater Quality Parameters [1]									Secondary Groundwater Quality Parameters [2]						
				Total Arsenic (ug/L)	Total Cadmium (ug/L)	Total Chromium (ug/L)	Total Copper (mg/L)	Total Lead (ug/L)	Total Nickel (ug/L)	Total Manganese*** (mg/L)	Dissolved Manganese*** (mg/L)	Total Mercury (ug/L)	Total Chloride (mg/L)	Total Copper (mg/L)	Total Iron (mg/L)	Dissolved Iron (mg/L)	Total Manganese (mg/L)	Dissolved Manganese (mg/L)	Total Zinc (mg/L)
	VT GES**[1]			10.0	5.0	100.0	1.300	15.0	100.0	0.300	0.300	2.0	250	1.0	0.3	0.3	0.05	0.05	5
	VT Preventive Action Level* [1]			1.0	2.5	50.0	0.650	1.5	50.0	0.150	0.150	0.5	125	0.5	0.15	0.15	0.025	0.025	2.5
	VT Health Advisory [2]			None	None	None	1.300	15	100	0.300	0.300	None	250	1.0	0.3	0.3	0.05	0.05	5
	Federal MCL [2]			10	5	100	None	None	None	None	None	2	None	None	None	None	None	None	None
Well	Date	Lab	Remarks																
MW-P8	Earlier data are archived to conserve table space. See notes [3] and [4] below.																		
	5/14/1998	Endyne	see note [a]	**62**	< 5	< 10.0	< 0.010	< 5.0	< 20	**5.30**	**5.69**	**6.0**	32.4	< 0.010	**46.3**	**43.80**	**5.30**	**5.69**	0.027
	10/14/1998	Endyne	see note [b]	**65**	< 2	< 10.0	< 0.020	< 2.0	< 20	**5.11**	**4.92**	< 1	33.2	< 0.020	**44.1**	**9.38**	**5.11**	**4.92**	0.029
	5/5/1999	Endyne	see note [d]	**36**	< 3	< 10.0	< 0.010	**6.0**	< 20	**5.62**	**4.05**	< 1	28.9	< 0.010	**37.3**	**4.23**	**5.62**	**4.05**	0.014
	10/12/1999	Endyne	see note [f]	**107**	< 3	< 10.0	< 0.010	**30**	25	**7.00**	**6.73**	< 1	60.3	< 0.010	**63.5**	**29.40**	**7.00**	**6.73**	0.021
	5/4/2000	Endyne	see note [g]	**154**	< 3	31	< 0.010	**44**	**80**	**7.62**	**7.35**	< 1	55.1	< 0.010	**95.8**	**27.60**	**7.62**	**7.35**	0.085
	10/10/2000	Endyne	see note [g]	**72**	< 3	40	< 0.010	**31**	**51**	**4.83**	**4.58**	< 1	37.9	< 0.010	**63.2**	**41.00**	**4.83**	**4.58**	0.083
	10/10/2000	Endyne	duplicate [i]	**74**	< 3	45	< 0.010	**32**	**53**	**4.66**	**4.36**	< 1	35.1	< 0.010	**63.4**	**40.80**	**4.66**	**4.36**	0.075
	5/3/2001	Endyne	see note [i]	**47**	< 3	19	0.028	**13**	48	**7.93**	**6.07**	< 2	**156.0**	0.028	**101.0**	**12.10**	**7.93**	**6.07**	0.051
	10/3/2001	Endyne	see note [f]	**36**	< 3	10	0.017	**2.0**	< 20	**8.56**	**8.30**	< 1	102.0	0.017	**49.2**	**20.00**	**8.56**	**8.30**	< 0.020
	5/2/2002	Endyne	see note [j]	**55**	< 3	**59**	0.060	**28**	**106**	**6.55**	**5.25**	< 1	78.5	0.060	**105**	**17.2**	**6.55**	**5.25**	0.132
	10/2/2002	Endyne	see note [a]	**70**	< 3	18	0.021	**6**	33	**4.60**	**4.23**	< 1	52.3	0.021	**43.8**	**16.1**	**4.60**	**4.23**	0.032
	5/6/2003	Endyne	see note [g]	**107**	**9**	**120**	0.082	**8**	**246**	**6.61**	**5.50**	< 1	82.2	0.082	**108.0**	**28.7**	**6.61**	**5.50**	0.267
	10/2/2003	Endyne	see note [m]	**153**	**8**	**347**	0.195	**9**	**516**	**8.62**	**3.66**	< 1	50.5	0.195	**241**	**3.16**	**8.62**	**3.66**	0.661
	5/4/2004	Endyne	see note [g]	**55**	< 3	**61**	0.021	**19**	**113**	**5.70**	**4.88**	< 1	47.2	0.021	**60.0**	**17.1**	**5.70**	**4.88**	0.142
	10/5/2004	Endyne	see note [f]	**49**	< 3	< 10	< 0.010	**2**	39	**4.47**	**4.41**	< 1	43.8	< 0.010	**21.6**	0.019	**4.47**	**4.41**	0.023
	5/3/2005	Endyne	see note [dd]	**3**	< 3	< 10	< 0.010	< 2	20	**1.23**	**2.60**	< 1	39.3	< 0.010	**0.914**	**2.08**	**1.23**	**2.60**	< 0.020
	10/4/2005	Endyne	see note [f]	**103**	**6**	**195**	0.135	**200**	**288**	**7.80**	**5.45**	< 1	46.4	0.135	**138**	**6.47**	**7.80**	**5.45**	0.344
duplicate	10/4/2005	Endyne	see note [f]	**68**	**4**	**122**	0.088	**175**	**169**	**7.15**	**5.36**	< 1	46.2	0.088	**90.7**	**8.24**	**7.15**	**5.36**	0.204
	5/2/2006	Endyne	see note [kk]	**52**	**3**	40	0.018	< 12	48	**5.590**	**4.72**	< 1	44.90	0.018	**57.7**	**21.2**	**5.57**	**4.72**	0.046
	10/3/2006	Endyne	see note [iii]	**45**	< 2	28	0.024	**11**	50	**41.50**	**4.59**	< 1	39.3	0.024	**24.5**	**3.32**	**41.5**	**4.59**	0.049
	5/1/2007	Endyne	see note [h1]	**73**	**5**	< 20	< 0.020	**8**	28	**4.68**	**3.93**	< 1	40.7	< 0.020	**57**	**27.5**	**4.68**	**3.93**	0.030
	10/4/2007	Endyne	see note [g2]	**128**	**7**	< 20	< 0.020	< 1	**61**	**11.70**	**3.28**	< 1	33	< 0.020	**220**	**20.7**	**11.70**	**3.28**	0.061
	5/6/2008	Endyne	see note [g3]	**102**	**6**	34	< 0.020	1.4	49	**4.60**	**3.20**	< 1	33	< 0.020	**15**	**55.0**	**4.60**	**3.20**	0.054
	10/6/2008	Endyne	see note [d4] M-	**57**	**3**	20	0.160	**118.0**	34	**6.20**	**4.50**	< 1	38	0.160	**130**	**13.0**	**6.20**	**4.50**	0.390
duplicate	10/6/2008	Endyne	see note [e4]	**74**	**3**	15	0.12	**87.0**	25	**5.50**	**4.60**	< 1	37	0.12	**100**	**13.0**	**5.50**	**4.60**	0.290
	5/6/2009	Endyne	see note [f5]	**120**	**5**	33	0.025	**22.0**	**68**	**3.70**	**4.00**	< 1	37	0.025	**70**	**27.0**	**3.70**	**4.00**	0.080
	10/6/2009	Endyne	see note [f6]	**92**	< 2	27	< 0.020	**13.0**	49	**3.50**	**3.00**	< 1	37	< 0.020	**39**	**9.2**	**3.50**	**3.00**	0.052
	5/4/2010	Endyne	see note [f7]	**220**	< 2	45	0.027	**20.0**	**56**	**4.10**	**3.90**	< 0.1	40	0.027	**78**	**25.0**	**4.10**	**3.90**	0.068
	10/5/2010	Endyne	see note [d8]	**117**	**4**	**72**	0.044	**33.0**	**99**	**4.40**	**3.90**	< 0.2	43	0.044	**83**	**19.0**	**4.40**	**3.90**	0.120
	5/4/2011	Endyne	see note [z8]	**61**	**3**	13	< 0.020	**5.0**	17	**4.40**	**3.80**	0.3	19	< 0.020	**36**	**20.0**	**4.40**	**3.80**	0.015
	10/4/2011^	Endyne	see note [l9]	**18**	2	**66**	0.032	**24.0**	**75**	**4.30**	**3.90**	< 0.2	53	0.032	**77**	**21.0**	**4.30**	**3.90**	0.100
	5/3/2012^	Endyne	see note [c10]	**110**	< 2	25	< 0.020	**9.0**	41	**3.80**	**3.40**	< 0.2	48	< 0.020	**50**	**19.0**	**3.80**	**3.40**	0.048
	10/3/2012^	Endyne	see note [e11]	**23**	< 2	< 5	< 0.020	< 1	9	**2.10**	**2.70**	< 0.2	**170**	< 0.020	**8.2**	**7.7**	**2.10**	**2.70**	< 0.020
	5/8/2013^	Endyne	see note [o11]	**140**	**7**	43	< 0.020	**19.0**	**68**	**4.90**	**4.60**	< 0.2	63	< 0.020	**72**	**24**	**4.90**	**4.60**	0.082
	10/9/2013^	Endyne	see note [z8]	**25**	< 2	8	< 0.020	**2.0**	16	**3.70**	**3.80**	< 0.2	63	< 0.020	**16**	**13**	**3.70**	**3.80**	< 0.020
	5/7/2014^	Endyne	see note [f12]	**20**	< 2	< 5	< 0.020	< 1	6	**4.10**	**4.00**	< 0.2	57	< 0.020	**19**	**14**	**4.10**	**4.00**	< 0.020
	10/7/2014^	Endyne	see note [m12]	**16**	< 2	< 5	< 0.020	< 1	6	**2.00**	**2.80**	< 0.2	53	< 0.020	**3.6**	**4.2**	**2.00**	**2.80**	< 0.020
	See notes [3] and [4] below.																		
	Normal Distribution?			Yes	No	No		No	No	No	Yes	No			Yes	Yes	No	Yes	
	Transformation Closest to Normal				Ln	Ln		Ln	Ln	Ln		Ln					Ln		
	Does Transformation Produce Normality?				No	Yes		Yes	Yes	Yes		No					Yes		
	Mean of Transformed Data				1.19	3.23		2.30	3.78	1.65		-0.38					1.65		
	Mean of Untransformed Data			75.92							4.49				68.35	18.49		4.49	
	Std. Dev. of Transformed Data				0.44	1.02		1.48	0.98	0.55		0.85					0.55		
	Std. Dev. of Untransformed Data			46.24							1.24				52.23	12.60		1.24	
	n			37	37	37		37	37	37	37	37			37	37	37	37	
	Student's t-value (one-tailed)			1.69	1.69	1.69		1.69	1.69	1.69	1.69	1.69			1.69	1.69	1.69	1.69	
	Upper 95% Confidence Value			88.735	3.694	33.557		14.971	57.190	6.094	4.83	0.869			82.824	21.98	6.094	4.83	
	Lower 95% Confidence Value			**63.103**	**2.899**	19.082		**6.587**	33.242	**4.491**	**4.143**	**0.543**			**53.868**	**15.00**	**4.491**	**4.143**	

[1] VT GES = VT Groundwater Enforcement Standards and Preventive Action Levels from Table 1, Groundwater Protection Rule & Strategy (GWPRS), 2005.

[2] From December 2002 Vermont Department of Health Drinking Water Guidance.

* Bold values exceed Vermont Preventive Action Level

** Shaded values exceed Vermont GES, as set by Vermont GWPRS, 2005.

*** As of 2/26/2007, the Primary Vermont Groundwater Enforcement Standard for Manganese was changed from 0.840 mg/L to 0.300 mg/L.

The < values listed here are the reported detection limit.

M- = The laboratory fortified matrix (LFM) analysis indicates a potential negaive bias for Total Selenium and Total Thallium on October 6, 2008

[a] through [u3]: See last page of inorganic data for additional notes.

[3] Statistical analyses are conducted only on data since 5/15/1998, when requirement changed to TOTAL metals instead of dissolved metals, except for Mn & Fe (see note below).
Archived data has not been included in statistical analyses since 5/15/1998.

[4] For Fe and Mn only, requirement since 5/15/1998 is to analyze for both total and dissolved forms. The dissolved archived data are not included in the statistical analyses to give consistency between dissolved and total Mn & Fe as prior to 5/98, samples were not analyzed for total and dissolved metals on the same date. This gives consistency of comparisons between dissolved and total Fe and Mn.

^ Insufficient water to low-flow well, grab sample obtained

NEWSVT Landfills
Coventry, Vermont
Groundwater Analyses
Inorganics

				Primary Groundwater Quality Parameters [1]									Secondary Groundwater Quality Parameters [2]						
				Total Arsenic (ug/L)	Total Cadmium (ug/L)	Total Chromium (ug/L)	Total Copper (mg/L)	Total Lead (ug/L)	Total Nickel (ug/L)	Total Manganese*** (mg/L)	Dissolved Manganese*** (mg/L)	Total Mercury (ug/L)	Total Chloride (mg/L)	Total Copper (mg/L)	Total Iron (mg/L)	Dissolved Iron (mg/L)	Total Manganese (mg/L)	Dissolved Manganese (mg/L)	Total Zinc (mg/L)
	VT GES**[1]			10.0	5.0	100.0	1.300	15.0	100.0	0.300	0.300	2.0	250	1.0	0.3	0.3	0.05	0.05	5
	VT Preventive Action Level* [1]			1.0	2.5	50.0	0.650	1.5	50.0	0.150	0.150	0.5	125	0.5	0.15	0.15	0.025	0.025	2.5
	VT Health Advisory [2]			None	None	None	1.300	15	100	0.300	0.300	None	250	1.0	0.3	0.3	0.05	0.05	5
	Federal MCL [2]			10	5	100	None	None	None	None	None	2	None	None	None	None	None	None	None
Well	Date	Lab	Remarks																
#21 Office	Earlier data are archived to conserve table space. See notes [3] and [4] below.																		
	5/15/1998	Endyne	see note [a]	< 5	< 5	< 10	< 0.010	< 5	< 20	0.128	0.128	< 2	13.1	< 0.010	0.039	0.021	**0.128**	**0.128**	0.010
	10/14/1998	Endyne	see note [b]	< 5	< 2	< 10	< 0.020	**3.0**	< 20	0.114	0.125	< 1	11.1	< 0.020	**0.789**	< 0.020	**0.114**	**0.125**	< 0.010
Upgradient	5/5/1999	Endyne	see note [d]	< 5	< 3	< 10	< 0.010	< 2	< 20	0.103	0.121	< 1	12.7	< 0.010	**0.828**	< 0.010	**0.103**	**0.121**	< 0.010
	10/12/1999	Endyne	see note [f]	< 5	< 3	< 10	< 0.010	**2.0**	< 20	0.132	0.133	< 1	20.4	< 0.010	**0.939**	< 0.010	**0.132**	**0.133**	< 0.010
	5/4/2000	Endyne	see note [f]	< 5	< 3	< 10	< 0.010	**2.0**	< 20	0.122	0.122	< 1	12.1	< 0.010	**0.879**	< 0.010	**0.122**	**0.122**	< 0.010
	10/10/2000	Endyne	see note [f]	< 5	< 3	< 10	0.040	**3.0**	< 20	0.100	0.113	< 1	14.3	0.040	**0.338**	**0.387**	**0.100**	**0.113**	0.058
	5/3/2001	Endyne	see note [h]	< 2	< 3	< 10	< 0.010	**2.0**	< 20	0.100	0.086	< 2	12.0	< 0.010	**0.558**	< 0.010	**0.100**	**0.086**	< 0.020
	10/3/2001	Endyne	see note [h]	< 2	< 3	< 10	< 0.010	NA	< 20	**0.265**	**0.235**	< 1	11.6	< 0.010	**1.180**	< 0.010	**0.265**	**0.235**	< 0.020
	5/2/2002	Endyne	see note [i]	< 2	< 3	< 10	0.037	**3.0**	< 20	**0.160**	**0.158**	< 1	12.8	0.037	**1.51**	0.015	**0.160**	**0.158**	< 0.020
	10/2/2002	Endyne	see note [a]	< 2	< 3	< 10	< 0.010	< 2	< 20	< 0.005	< 0.005	< 1	12.1	< 0.010	0.059	0.023	< 0.005	< 0.005	< 0.020
	5/6/2003	Endyne	see note [d]	< 2	< 3	< 10	< 0.010	< 2	< 20	< 0.005	< 0.005	< 1	14.3	< 0.010	**0.155**	< 0.010	< 0.005	< 0.005	< 0.020
	10/2/2003	Endyne	see note [d]	< 2	< 3	< 10	0.011	**6**	< 20	< 0.005	0.012	< 1	13.7	0.011	**0.259**	0.144	< 0.005	0.012	< 0.020
	5/4/2004	Endyne	see note [d]	< 2	< 3	< 10	< 0.010	< 2	< 20	< 0.005	< 0.005	< 1	15.6	< 0.010	0.111	< 0.010	< 0.005	< 0.005	< 0.020
	10/5/2004	Endyne	see note [f]	< 2	< 3	< 10	< 0.010	< 2	< 20	< 0.005	< 0.005	< 1	16.8	< 0.010	0.034	< 0.010	< 0.005	< 0.005	< 0.020
	5/3/2005	Endyne	see note [bb]	< 2	< 3	< 10	< 0.010	< 2	< 20	< 0.005	< 0.005	< 1	14.9	< 0.010	0.019	< 0.010	< 0.005	< 0.005	< 0.020
	10/4/2005	Endyne	see note [a]	< 2	< 2	< 10	< 0.010	< 10	< 20	0.060	0.060	< 1	16.4	< 0.010	**0.274**	0.044	**0.060**	**0.060**	< 0.020
duplicate	10/4/2005	Endyne	see note [a]	< 2	< 2	< 10	< 0.010	< 10	< 20	0.059	0.060	< 1	16.4	< 0.010	**0.272**	0.035	**0.059**	**0.060**	< 0.020
	5/2/2006	Endyne	see note [aaa]	< 2	< 2	< 10	< 0.010	< 10	< 20	**0.263**	**0.249**	< 1	14.9	< 0.010	**0.627**	0.019	**0.263**	**0.249**	< 0.020
	10/3/2006	Endyne	see note [www]	< 2	< 2	< 20	< 0.020	< 1	< 20	0.137	**0.176**	< 1	17.3	< 0.020	**0.53**	< 0.020	**0.137**	**0.176**	< 0.020
	5/1/2007	Endyne	see note [j1]	< 2	< 2	< 20	< 0.020	< 1	< 20	0.124	0.132	< 1	15.8	< 0.020	**0.406**	**0.227**	**0.124**	**0.132**	< 0.020
	10/4/2007	Endyne	see note [i2]	< 2	< 2	< 20	< 0.020	< 1	< 20	< 0.020	< 0.020	< 1	17.0	< 0.020	0.035	< 0.020	< 0.020	< 0.020	< 0.020
	5/6/2008	Endyne	see note [i3]	< 2	< 2	< 20	< 0.020	1	< 20	< 0.020	< 0.020	< 1	18.0	< 0.020	**13.000**	0.046	< 0.020	< 0.020	< 0.020
	10/6/2008	Endyne	see note [h4]	< 2	< 2	< 20	< 0.020	< 1	< 20	< 0.020	0.027	< 1	19.0	< 0.020	0.083	0.072	< 0.020	**0.027**	< 0.020
	5/6/2009	Endyne	see note [h5]	< 2	< 2	< 20	< 0.020	< 1	< 20	< 0.020	< 0.020	< 1	21.0	< 0.020	0.074	0.055	< 0.020	< 0.020	< 0.020
duplicate	5/6/2009	Endyne	see note [i5]	< 2	< 2	< 20	< 0.020	< 1	< 20	< 0.020	< 0.020	< 1	21.0	< 0.020	0.069	0.042	< 0.020	< 0.020	< 0.020
	10/6/2009	Endyne	see note [h6]	< 2	< 2	< 20	< 0.020	< 1	< 20	< 0.020	< 0.020	< 1	20.0	< 0.020	0.054	0.054	< 0.020	< 0.020	< 0.020
	5/4/2010	Endyne	see note [h7]	< 1	< 2	< 5	< 0.020	< 1	< 5	< 0.020	< 0.020	< 0.1	22.0	< 0.020	< 0.020	0.038	< 0.020	< 0.020	< 0.005
duplicate	5/4/2010	Endyne	see note [i7]	< 1	< 2	< 5	< 0.020	< 1	< 5	< 0.020	< 0.020	< 0.1	22.0	< 0.020	0.057	0.048	< 0.020	< 0.020	< 0.005
	10/5/2010	Endyne	see note [e8]	< 1	< 2	< 5	< 0.020	< 1	< 5	< 0.020	< 0.020	< 0.2	20.0	< 0.020	0.024	0.022	< 0.020	< 0.020	< 0.005
	5/4/2011	Endyne	see note [v8]	< 1	< 2	< 5	< 0.020	< 1	< 5	< 0.020	< 0.020	< 0.2	20.0	< 0.020	0.099	< 0.020	< 0.020	< 0.020	< 0.005
	10/5/2011	Endyne	see note [v8]	< 1	< 2	< 5	< 0.020	< 1	< 5	< 0.020	< 0.020	< 0.2	22.0	< 0.020	0.039	0.025	< 0.020	< 0.020	< 0.020
	5/3/2012	Endyne	see note [i9]	1	< 2	< 5	< 0.020	< 1	< 5	< 0.020	< 0.020	< 0.2	22.0	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
	10/3/2012	Endyne	see note [n10]	< 1	< 2	< 5	< 0.020	< 1	< 5	< 0.020	< 0.020	< 0.2	27.0	< 0.020	0.028	< 0.020	< 0.020	< 0.020	< 0.020
	5/8/2013	Endyne	see note [o10]	< 1	< 2	< 5	< 0.020	< 1	< 5	< 0.020	< 0.020	< 0.2	21.0	< 0.020	0.045	0.063	< 0.020	< 0.020	< 0.020
	10/9/2013	Endyne	see note [t11]	< 1	< 2	< 5	< 0.020	< 1	< 5	< 0.020	< 0.020	< 0.2	22.0	< 0.020	0.040	< 0.020	< 0.020	< 0.020	< 0.020
	5/6/2014	Endyne	see note [010]	< 1	< 2	< 5	< 0.020	< 1	< 5	< 0.020	< 0.020	< 0.2	22.0	< 0.020	0.026	< 0.020	< 0.020	< 0.020	< 0.020
	10/8/2014	Endyne	see note [010]	< 1	< 2	< 5	< 0.020	1	< 5	< 0.020	< 0.020	< 0.2	23.0	< 0.020	0.028	< 0.020	< 0.020	< 0.020	< 0.020
	See notes [3] and [4] below.																		
	Normal Distribution?														No	No	No	No	
	Transformation Closest to Normal														Ln	Ln	Sqrt	Exp	
	Does Transformation Produce Normality?														Yes	Yes	No	No	
	Mean of Transformed Data														-1.99	-3.64	0.21	1.07	
	Mean of Untransformed Data																		
	Std. Dev. of Transformed Data														1.58	0.89	0.13	0.08	
	Std. Dev. of Untransformed Data																		
	n														37	37	37	37	
	Student's t-value (one-tailed)														1.69	1.69	1.69	1.69	
	Upper 95% Confidence Value														0.21	0.034	0.061	1.18	
	Lower 95% Confidence Value														0.088	0.021	**0.031**	**1.092**	

[1] VT GES = VT Groundwater Enforcement Standards and Preventive Action Levels from Table 1, Groundwater Protection Rule & Strategy (GWPRS), 2005.

[2] From December 2002 Vermont Department of Health Drinking Water Guidance.

* Bold values exceed Vermont Preventive Action Level

** Shaded values exceed Vermont GES, as set by Vermont GWPRS, 2005.

*** As of 2/26/2007, the Primary Vermont Groundwater Enforcement Standard for Manganese was changed from 0.840 mg/L to 0.300 mg/L.

The < values listed here are the reported detection limit.

[a] through [u3]: See last page of inorganic data for additional notes.

[3] Statistical analyses are conducted only on data since 5/15/1998, when requirement changed to TOTAL metals instead of dissolved metals, except for Mn & Fe (see note below).

Archived data has not been included in statistical analyses since 5/15/1998.

[4] For Fe and Mn only, requirement since 5/15/1998 is to analyze for both total and dissolved forms. The dissolved archived data are not included in the statistical analyses to give consistency between dissolved and total Mn & Fe as prior to 5/98, samples were not analyzed for total and dissolved metals on the same date. This gives consistency of comparisons between dissolved and total Fe and Mn.

NEWSVT Landfills
Coventry, Vermont
Groundwater Analyses
Inorganics

				Primary Groundwater Quality Parameters [1]									Secondary Groundwater Quality Parameters [2]						
				Total Arsenic (ug/L)	Total Cadmium (ug/L)	Total Chromium (ug/L)	Total Copper (mg/L)	Total Lead (ug/L)	Total Nickel (ug/L)	Total Manganese*** (mg/L)	Dissolved Manganese*** (mg/L)	Total Mercury (ug/L)	Total Chloride (mg/L)	Total Copper (mg/L)	Total Iron (mg/L)	Dissolved Iron (mg/L)	Total Manganese (mg/L)	Dissolved Manganese (mg/L)	Total Zinc (mg/L)
	VT GES**[1]			10.0	5.0	100.0	1.300	15.0	100.0	0.300	0.300	2.0	250	1.0	0.3	0.3	0.05	0.05	5
	VT Preventive Action Level* [1]			1.0	2.5	50.0	0.650	1.5	50.0	0.150	0.150	0.5	125	0.5	0.15	0.15	0.025	0.025	2.5
	VT Health Advisory [2]			None	None	None	1.300	15	100	0.300	0.300	None	250	1.0	0.3	0.3	0.05	0.05	5
	Federal MCL [2]			10	5	100	None	None	None	None	None	2	None	None	None	None	None	None	None
Well	Date	Lab	Remarks																
MW-103	12/28/2001	Endyne	see note [j]	**43**	**5**	**146**	0.147	< 2	**258**	**3.62**	0.006	<2	< 2.50	0.147	**129**	0.053	**3.62**	0.006	0.418
	1/15/2002	Endyne	see note [r]	**2**	< 3	<10	< 0.010	< 2	<20	0.011		<1	2.81	< 0.010	**0.411**		0.011		< 0.020
	1/25/2002	Endyne	see note [p]	**< 2**	< 3	<10	< 0.010	< 2	<20	0.019		<1	2.96	< 0.010	**0.812**		0.019		< 0.020
	2/6/2002	Endyne	see note [p]	**5**	< 3	<10	0.011	**3**	<20	**0.166**		<1	2.87	0.011	**4.87**	< 0.010	**0.166**		0.039
	10/28/2004	Endyne	see note [n]	**3**	< 3	15	< 0.010	< 2	< 20	0.028	< 0.005	< 1	4.28	< 0.010	**1.38**	< 0.010	**0.028**	< 0.005	< 0.020
	5/3/2005	Endyne	see note [bb]	< 2	< 3	< 10	< 0.010	< 2	< 20	0.014	< 0.005	< 1	< 2.50	< 0.010	**0.529**	< 0.010	0.014	< 0.005	< 0.020
	10/4/2005	Endyne	see note [jj]	**21**	< 2	39	0.027	< 10	35	**0.513**	< 0.005	< 1	4.52	0.027	**18.4**	< 0.010	**0.513**	< 0.005	0.052
	5/2/2006	Endyne	see note [nn]	**29**	**3**	**57**	0.030	< 10	**78**	**0.836**	< 0.005	< 1	4.33	0.030	**29.30**	< 0.010	**0.836**	< 0.005	0.083
	10/3/2006	Endyne	see note [sss]	**4**	< 2	< 20	< 0.020	**2**	< 20	0.054	< 0.020	< 1	3.44	< 0.020	**2.19**	< 0.020	**0.054**	< 0.020	< 0.020
	5/1/2007	Endyne	see note [k1]	**3**	< 2	< 20	< 0.020	< 1	< 20	0.059	< 0.020	< 1	4.47	< 0.020	**2.53**	0.035	**0.059**	< 0.020	< 0.020
	10/4/2007	Endyne	see note [j2]	< 2	< 2	< 20	< 0.020	< 1	< 20	< 0.020	< 0.020	< 1	4.3	< 0.020	**0.206**	< 0.02	< 0.020	< 0.020	< 0.020
	5/6/2008	Endyne	see note [j3]	**5**	< 2	< 20	< 0.020	**4**	< 20	0.13	< 0.020	< 1	3	< 0.020	**4.800**	0.028	**0.130**	< 0.020	< 0.020
	10/6/2008	Endyne	see note [i4]	< 2	< 2	< 20	< 0.020	< 1	< 20	0.039	< 0.020	< 1	< 2.5	< 0.020	**1.000**	< 0.020	**0.039**	< 0.020	< 0.020
	5/6/2009	Endyne	see note [j5]	**19**	< 2	26	0.43	**8**	**57**	**0.84**	0.041	< 1	< 2.5	0.43	**24.000**	0.120	**0.840**	**0.041**	0.070
	10/6/2009	Endyne	see note [i6]	< 2	< 2	< 20	< 0.020	< 1	< 20	0.027	< 0.020	< 1	< 2.5	< 0.020	**0.450**	0.029	**0.027**	< 0.020	< 0.020
duplicate	10/6/2009	Endyne	see note [j6]	< 2	< 2	< 20	< 0.020	< 1	< 20	0.052	< 0.020	< 1	< 2.5	< 0.020	**0.920**	0.021	**0.052**	< 0.020	< 0.020
	5/4/2010	Endyne	see note [j7]	< 2	< 2	< 5	< 0.020	< 1	< 5	0.064	0.033	< 0.1	< 2.5	< 0.020	**0.540**	0.110	**0.064**	**0.033**	< 0.005
	10/5/2010	Endyne	see note [f8]	1	< 2	< 5	< 0.020	< 1	< 5	0.034	0.025	< 0.2	< 2.5	< 0.020	**0.550**	0.022	**0.034**	0.025	< 0.005
duplicate	10/5/2010	Endyne	see note [r8]	1	< 2	< 5	< 0.020	< 1	< 5	0.032	< 0.020	< 0.2	< 2.5	< 0.020	**0.530**	0.031	**0.032**	< 0.020	< 0.005
	5/4/2011	Endyne	see note [a9]	**3**	< 2	< 5	< 0.020	1	7	**0.27**	0.150	< 0.2	< 2.5	< 0.020	**2.8**	0.032	**0.270**	**0.150**	0.006
duplicate	5/5/2011	Endyne	see note [v8]	**2**	< 2	< 5	< 0.020	< 1	5	**0.21**	**0.160**	< 0.2	< 2.5	< 0.020	**1.6**	0.097	**0.210**	**0.160**	< 0.005
	10/4/2011	Endyne	see note [v8]	**2**	< 2	< 5	< 0.020	< 1	5	0.028	< 0.020	< 0.2	2.5	< 0.020	0.092	< 0.020	**0.028**	< 0.020	< 0.020
duplicate	10/4/2011+	Endyne	see note [v8]	**2**	< 2	< 5	< 0.020	< 1	< 5	0.030	< 0.020	< 0.2	2.5	< 0.020	0.068	0.025	**0.030**	< 0.020	< 0.020
	5/2/2012+	Endyne	see note [e10]	**7**	< 2	21	< 0.020	**6**	36	**0.710**	0.043	< 0.2	2.6	< 0.020	**8.70**	0.097	**0.710**	**0.043**	0.030
duplicate	5/2/2012+	Endyne	see note [f10]	**9**	< 2	31	< 0.020	**5**	41	**0.660**	0.036	< 0.2	< 2.5	< 0.020	**11.00**	0.053	**0.660**	**0.036**	0.035
	10/2/2012+	Endyne	see note [t10]	**2**	< 2	< 5	< 0.020	< 1	< 5	0.070	< 0.020	< 0.2	< 2.5	< 0.020	0.12	< 0.020	**0.070**	< 0.020	< 0.020
	5/9/2013+	Endyne	see note [o10]	**3**	< 2	10	< 0.020	< 1	6	0.130	< 0.020	< 0.2	< 2.5	< 0.020	**0.40**	< 0.020	**0.130**	< 0.020	< 0.020
	10/8/2013+	Endyne	see note [v11]	**4**	< 2	< 5	< 0.020	**2**	5	**0.270**	< 0.020	< 0.2	< 2.5	< 0.020	**0.58**	< 0.020	**0.270**	< 0.020	< 0.020
	5/6/2014+	Endyne	see note [v11]	**4**	< 2	< 5	< 0.020	< 1	< 5	**0.260**	< 0.020	< 0.2	2.6	< 0.020	**0.19**	< 0.020	**0.260**	< 0.020	< 0.020
	10/6/2014+	Endyne	see note [o10]	**7**	< 2	< 5	< 0.020	< 1	5	**0.730**	< 0.020	< 0.2	4.1	< 0.020	**0.64**	0.024	**0.730**	< 0.020	< 0.020
	See notes [3] and [4] below.																		
	Normal Distribution?			No	No	No			No	No					No		No	No	
	Transformation Closest to Normal			Ln	Ln	Ln			Ln	Ln					Ln		Ln	Ln	
	Does Transformation Produce Normality?			Yes	No	Yes			Yes	Yes					Yes		Yes	No	
	Mean of Transformed Data			1.31	0.80	2.51			2.69	-2.24					0.29		-2.24	-3.66	
	Mean of Untransformed Data																		
	Std. Dev. of Transformed Data			0.94	0.22	0.88			1.01	1.50					1.82		1.50	0.68	
	Std. Dev. of Untransformed Data																		
	n			30	30	30			30	30					30		30	27	
	Student's t-value (one-tailed)			1.70	1.70	1.70			1.70	1.70					1.70		1.70	1.70	
	Upper 95% Confidence Value			4.965	2.397	16.158			20.062	0.169					2.355		0.169	0.032	
	Lower 95% Confidence Value			**2.766**	2.087	9.384			10.736	0.067					**0.762**		**0.067**	0.020	

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[2] From December 2002 Vermont Department of Health Drinking Water Guidance.

* Bold values exceed Vermont Preventive Action Level

** Shaded values exceed VT GES, as set by GWPRS, 2005.

*** As of 2/26/2007, the Primary Vermont GES for Manganese was changed from 0.840 mg/L to 0.300 mg/L.

The < values listed here are the reported detection limit.

[a] through [u3]: See last page of inorganic data for additional notes.

[3] Statistical analyses are conducted only on data since 5/15/1998, when requirement changed to TOTAL metals instead of dissolved metals, except for Mn & Fe (see note below).

Archived data has not been included in statistical analyses since 5/15/1998.

[4] For Fe and Mn only, requirement since 5/15/1998 is to analyze for both total and dissolved forms. The dissolved archived data are not included in the statistical analyses to give consistency between dissolved and total Mn & Fe as prior to 5/98, samples were not analyzed for total and dissolved metals on the same date. This gives consistency of comparisons between dissolved and total Fe and Mn.

+MW sampling utilized low-flow technology at the request of the State when sufficient water was available.

NEWSVT Landfills
Coventry, Vermont
Groundwater Analyses
Inorganics

					Primary Groundwater Quality Parameters [1]									Secondary Groundwater Quality Parameters [2]						
					Total Arsenic (ug/L)	Total Cadmium (ug/L)	Total Chromium (ug/L)	Total Copper (mg/L)	Total Lead (ug/L)	Total Nickel (ug/L)	Total Manganese*** (mg/L)	Dissolved Manganese*** (mg/L)	Total Mercury (ug/L)	Total Chloride (mg/L)	Total Copper (mg/L)	Total Iron (mg/L)	Dissolved Iron (mg/L)	Total Manganese (mg/L)	Dissolved Manganese (mg/L)	Total Zinc (mg/L)
	VT GES**[1]				10.0	5.0	100.0	1.300	15.0	100.0	0.300	0.300	2.0	250	1.0	0.3	0.3	0.05	0.05	5
	VT Preventive Action Level* [1]				1.0	2.5	50.0	0.650	1.5	50.0	0.150	0.150	0.5	125	0.5	0.15	0.15	0.025	0.025	2.5
	VT Health Advisory [2]				None	None	None	1.300	15	100	0.300	0.300	None	250	1.0	0.3	0.3	0.05	0.05	5
	Federal MCL [2]				10	5	100	None	None	None	None	None	2	None	None	None	None	None	None	None
Well	Date	Lab	Remarks																	
MW-409	10/4/2005	Endyne	see note	[jj]	**9**	< 2	28	0.026	< 10	28	**0.339**	0.038	<1	< 2.50	0.026	**16**	**0.211**	**0.339**	**0.038**	0.041
	5/2/2006	Endyne	see note	[zz]	**10**	< 2	32	0.02	< 10	44	**0.573**	0.042	<1	< 2.50	0.02	**18.7**	< 0.01	**0.573**	**0.042**	0.047
	10/3/2006	Endyne	see note	[uuu]	**14**	< 2	34	0.026	**8**	44	**0.418**	0.047	<1	< 2.50	0.026	**20.7**	< 0.020	**0.418**	**0.047**	0.046
	5/1/07	Endyne	see note	[m1]	< 2	< 2	< 20	< 0.020	< 1	< 20	0.065	< 0.020	<1	< 2.50	< 0.020	**1.67**	0.037	**0.065**	< 0.020	< 0.020
	10/4/2007	Endyne	see note	[k2]	**4**	< 2	< 20	< 0.020	**6**	< 20	**0.428**	< 0.020	< 1	4.30	< 0.020	**5.47**	0.108	**0.428**	< 0.020	< 0.020
	5/6/2008	Endyne	see note	[k3]	**7**	< 2	25	< 0.020	**7**	39	**0.52**	< 0.020	< 1	< 2.50	< 0.020	**16**	0.062	**0.52**	< 0.020	0.041
	10/6/2008	Endyne	see note	[j4]	**14**	< 2	43	0.046	**18**	**87**	**1.3**	< 0.020	< 1	5.9	0.046	**35**	0.033	**1.3**	< 0.020	0.094
	5/6/2009	Endyne	see note	[k5]	< 2	< 2	< 20	< 0.020	< 1	< 20	0.032	< 0.020	< 1	2.5	< 0.020	**1.2**	0.048	**0.032**	< 0.020	< 0.020
	10/6/2009	Endyne	see note	[k6]	< 2	< 2	< 20	< 0.020	< 1	< 20	0.050	< 0.020	< 1	6.4	< 0.020	**1.7**	0.085	**0.05**	< 0.020	< 0.020
	5/4/2010	Endyne	see note	[k7]	**3**	< 2	12	< 0.020	**3**	17	**0.180**	< 0.020	< 0.2	2.5	< 0.020	**7.1**	0.060	**0.18**	< 0.020	0.017
	10/5/2010	Endyne	see note	[g8]	**5**	< 2	14	< 0.020	**3**	23	**0.250**	< 0.020	< 0.2	10	< 0.020	**9.5**	0.076	**0.25**	< 0.020	0.022
	5/4/2011	Endyne	see note	[v8]	< 1	< 2	< 5	< 0.020	< 1	< 5	0.130	< 0.020	< 0.2	3.6	< 0.020	**1**	0.040	**0.13**	< 0.020	< 0.005
	10/5/2011+	Endyne	see note	[m9]	**9**	< 2	30	0.023	< 1	35	**0.420**	0.049	< 0.2	2.7	< 0.023	**16**	**0.800**	**0.42**	**0.049**	0.039
	5/2/2012+	Endyne	see note	[g10]	**2**	< 2	< 5	< 0.020	< 1	< 5	0.060	< 0.020	< 0.2	3.1	< 0.020	**1.4**	< 0.020	**0.06**	< 0.020	< 0.020
	10/3/2012+	Endyne	see note	[y10]	**5**	< 2	12	< 0.020	**3**	18	**0.380**	< 0.020	< 0.2	8.6	< 0.020	**9**	< 0.020	**0.38**	< 0.020	0.025
	5/8/2013+	Endyne	see note	[o10]	< 1	< 2	< 5	< 0.020	< 1	< 5	0.091	< 0.020	< 0.2	<2.5	< 0.020	**0.87**	0.031	**0.091**	< 0.020	< 0.020
	10/9/2013+	Endyne	see note	[o10]	< 1	< 2	< 5	< 0.020	< 1	< 5	< 0.020	< 0.020	< 0.2	2.6	< 0.020	0.081	< 0.020	< 0.020	< 0.020	< 0.020
	5/8/2014+	Endyne	see note	[o10]	< 1	< 2	< 5	< 0.020	< 1	< 5	< 0.020	< 0.020	< 0.2	<2.5	< 0.020	0.11	< 0.020	< 0.020	< 0.020	< 0.020
	10/7/2014+	Endyne	see note	[o10]	**2**	< 2	< 5	< 0.020	1	9	**0.220**	< 0.020	< 0.2	6.0	< 0.020	**2.3**	< 0.020	**0.220**	< 0.020	< 0.020
See notes [3] and [4] below.																				
Normal Distribution?					Yes				Yes		Yes					Yes	No	Yes		
Transformation Closest to Normal																	Ln			
Does Transformation Produce Normality?																	Yes			
Mean of Transformed Data																	-3.11			
Mean of Untransformed Data					4.95				4.11		0.29					8.62		0.29		
Std. Dev. of Transformed Data																	1.02			
Std. Dev. of Untransformed Data					4.33				4.65		0.30					9.51		0.30		
n					19				19		19					19	19	19		
Student's t-value (one-tailed)					1.73				1.73		1.73					1.73	1.73	1.73		
Upper 95% Confidence Value					6.66				5.95		0.41					12.38	0.07	0.41		
Lower 95% Confidence Value					**3.24**				**2.26**		**0.169**					**4.86**	0.03	**0.169**		

[1] VT GES = VT Groundwater Enforcement Standards and Preventive Action Levels from Table 1, Groundwater Protection Rule & Strategy (GWPRS), 2005.

[2] From December 2002 Vermont Department of Health Drinking Water Guidance.

* Bold values exceed Vermont Preventive Action Level

** Shaded values exceed VT GES, as set by GWPRS, 2005.

*** As of 2/26/2007, the Primary Vermont GES for Manganese was changed from 0.840 mg/L to 0.300 mg/L.

The < values listed here are the reported detection limit.

[a] through [u3]: See last page of inorganic data for additional notes.

[3] Statistical analyses are conducted only on data since 5/15/1998, when requirement changed to TOTAL metals instead of dissolved metals, except for Mn & Fe (see note below).
Archived data has not been included in statistical analyses since 5/15/1998.

[4] For Fe and Mn only, requirement since 5/15/1998 is to analyze for both total and dissolved forms. The dissolved archived data are not included in the statistical analyses to give consistency between dissolved and total Mn & Fe as prior to 5/98, samples were not analyzed for total and dissolved metals on the same date. This gives consistency of comparisons between dissolved and total Fe and Mn.

+MW sampling utilized low-flow technology at the request of the State when sufficient water was available.

NEWSVT Landfills
Coventry, Vermont
Groundwater Analyses
Inorganics

				Primary Groundwater Quality Parameters [1]									Secondary Groundwater Quality Parameters [2]						
				Total Arsenic (ug/L)	Total Cadmium (ug/L)	Total Chromium (ug/L)	Total Copper (mg/L)	Total Lead (ug/L)	Total Nickel (ug/L)	Total Manganese*** (mg/L)	Dissolved Manganese*** (mg/L)	Total Mercury (ug/L)	Total Chloride (mg/L)	Total Copper (mg/L)	Total Iron (mg/L)	Dissolved Iron (mg/L)	Total Manganese (mg/L)	Dissolved Manganese (mg/L)	Total Zinc (mg/L)
	VT GES**[1]			10.0	5.0	100.0	1.300	15.0	100.0	0.300	0.300	2.0	250	1.0	0.3	0.3	0.05	0.05	5
	VT Preventive Action Level* [1]			1.0	2.5	50.0	0.650	1.5	50.0	0.150	0.150	0.5	125	0.5	0.15	0.15	0.025	0.025	2.5
	VT Health Advisory [2]			None	None	None	1.300	15	100	0.300	0.300	None	250	1.0	0.3	0.3	0.05	0.05	5
	Federal MCL [2]			10	5	100	None	None	None	None	None	2	None	None	None	None	None	None	None
Well	Date	Lab	Remarks																
412-R	Earlier data are archived to conserve table space. See notes [3] and [4] below.																		
	10/13/1998	Endyne	see note [b]	**15**	< 2	< 10	< 0.020	**29**	29	**3.09**	**0.251**	< 1	3.2	< 0.020	**14.4**	< 0.020	**3.09**	**0.251**	0.045
	5/5/1999	Endyne	see note [d]	**< 5**	< 3	< 10	< 0.010	< 2	< 20	**0.22**	**0.282**	< 1	3.0	< 0.010	**0.536**	< 0.014	**0.22**	**0.282**	< 0.010
Downgradient	10/12/1999	Endyne	see note [d]	**14**	< 3	< 10	< 0.010	**17**	< 20	**0.443**	**0.386**	< 1	4.0	< 0.010	**4.77**	< 0.010	**0.44**	**0.386**	0.027
	5/4/2000	Endyne	see note [f]	**8**	< 3	< 10	< 0.010	**3**	< 20	**0.299**	0.118	< 1	< 4.0	< 0.010	**1.66**	0.016	**0.299**	**0.118**	0.031
	10/10/2000	Endyne	see note [f]	**10**	< 3	< 10	< 0.010	< 2	< 20	**0.544**	**0.536**	< 1	3.49	< 0.010	**3.13**	**0.435**	**0.544**	**0.536**	0.018
	5/3/2001	Endyne	see note [j]	**10**	< 3	< 10	< 0.010	< 2	< 20	**0.590**	**0.564**	< 2	3.47	< 0.010	**3.16**	< 0.010	**0.590**	**0.564**	< 0.020
	10/3/2001	Endyne	see note [j]	**5**	< 3	< 10	< 0.010	< 2	< 20	**0.295**	**0.279**	< 1	2.62	< 0.010	**0.829**	< 0.010	**0.295**	**0.279**	< 0.020
	5/2/2002	Endyne	see note [i]	**10**	< 3	< 10	< 0.010	< 2	< 20	**0.695**	**0.650**	< 1	3.70	< 0.010	**2.49**	**0.395**	**0.695**	**0.650**	< 0.020
	5/2/2002	Endyne	duplicate [i]	**10**	< 3	< 10	< 0.010	< 2	< 20	**0.692**	**0.657**	< 1	3.68	< 0.010	**2.90**	**0.392**	**0.692**	**0.657**	< 0.020
	10/2/2002	Endyne	see note [a]	**12**	< 3	< 10	< 0.010	< 2	< 20	**0.572**	**0.489**	< 1	3.70	< 0.010	**2.50**	< 0.010	**0.572**	**0.489**	< 0.020
	5/6/2003	Endyne	see note [d]	**12**	< 3	< 10	0.018	< 2	< 20	**0.769**	**0.704**	< 1	4.70	0.018	**4.82**	**1.45**	**0.769**	**0.704**	< 0.020
	10/2/2003	Endyne	see note [d]	**13**	< 3	< 10	< 0.010	< 2	< 20	**0.730**	**0.689**	< 1	4.91	< 0.010	**3.57**	**0.256**	**0.730**	**0.689**	< 0.020
	5/4/2004	Endyne	see note [d]	**10**	< 3	< 10	< 0.010	< 2	< 20	**0.774**	**0.740**	< 1	5.39	< 0.010	**4.02**	**1.90**	**0.774**	**0.740**	< 0.020
	10/5/2004	Endyne	see note [f]	**14**	< 3	< 10	< 0.010	< 2	< 20	**0.854**	**0.834**	< 1	5.50	< 0.010	**5.05**	< 0.010	**0.854**	**0.834**	< 0.020
	5/3/2005	Endyne	see note [dd]	**14**	< 3	< 10	< 0.010	< 2	< 20	**0.843**	**0.857**	< 1	5.53	< 0.010	**5.55**	**2.14**	**0.843**	**0.857**	< 0.020
	10/4/2005	Endyne	see note [jj]	**13**	< 2	< 10	0.028	< 10	< 20	**0.997**	**0.999**	< 1	6.23	0.028	**5.24**	**1.44**	**0.997**	**0.999**	< 0.020
	5/2/2006	Endyne	see note [yy]	**17**	< 2	15	0.026	< 10	24	**1.230**	**0.953**	< 1	5.94	0.026	**14.0**	**0.561**	**1.230**	**0.953**	0.023
	10/3/2006	Endyne	see note [mmm]	**63**	< 2	**114**	0.061	**8**	**207**	**2.920**	**1.110**	< 1	6.56	0.061	**89.7**	**2.250**	**2.920**	**1.110**	0.184
	5/1/2007	Endyne	see note [n1]	**18**	< 2	< 20	< 0.020	< 1	< 20	**1.090**	**1.070**	< 1	7.49	< 0.020	**8.71**	**6.950**	**1.090**	**1.070**	< 0.020
	5/1/2007	Endyne	duplicate [n1]	**18**	< 2	< 20	< 0.020	< 1	< 20	**1.130**	**1.080**	< 1	7.34	< 0.020	**11.00**	**5.840**	**1.130**	**1.080**	< 0.020
	10/4/2007	Endyne	see note [m2]	**15**	< 2	< 20	< 0.020	< 1	< 20	**1.090**	**1.090**	< 1	8.5	< 0.020	**8.02**	**6.590**	**1.090**	**1.090**	< 0.020
	5/6/2008	Endyne	see note [m3]	**12**	**3**	< 20	< 0.020	< 1	< 20	**1.100**	**1.100**	< 1	10	< 0.020	**9.80**	**7.700**	**1.100**	**1.100**	< 0.020
	10/6/2008	Endyne	see note [m4]	**15**	< 2	< 20	< 0.020	< 2	< 20	**1.000**	**1.100**	< 1	8.1	< 0.020	**9.30**	**7.900**	**1.000**	**1.100**	< 0.020
	5/6/2009	Endyne	see note [n5]	**11**	< 2	< 20	< 0.020	< 2	< 20	**1.000**	**0.970**	< 1	9	< 0.020	**9.70**	**8.200**	**1.000**	**0.970**	< 0.020
	10/6/2009	Endyne	see note [n6]	**24**	< 2	31	< 0.020	**13**	**64**	**1.700**	**1.000**	< 1	9.7	< 0.020	**36.00**	**8.500**	**1.700**	**1.000**	0.059
duplicate	10/6/2009	Endyne	see note [m6]	**28**	< 2	45	< 0.020	**17**	**88**	**2.000**	**1.000**	< 1	9.3	< 0.020	**44.00**	**9.80**	**2.000**	**1.000**	0.077
	5/4/2010	Endyne	see note [m7]	**34**	< 2	**63**	0.045	**21**	**98**	**2.100**	**0.970**	< 0.1	9.0	0.022	**47.00**	**11.00**	**2.100**	**0.970**	0.085
	10/5/2010	Endyne	see note [i8]	**18**	< 2	< 5	< 0.020	< 1	< 5	**0.940**	**1.000**	< 0.2	11.0	< 0.020	**11.00**	**8.90**	**0.940**	**1.000**	< 0.005
duplicate	10/5/2010	Endyne	see note [s8]	**15**	< 2	< 5	< 0.020	< 1	< 5	**0.980**	**1.000**	< 0.2	8.0	< 0.020	**11.00**	**8.50**	**0.980**	**1.000**	< 0.005
	5/4/2011	Endyne	see note [c9]	**17**	< 2	< 5	< 0.020	< 1	< 5	**1.100**	**1.000**	< 0.2	9.9	< 0.020	**11.00**	**8.80**	**1.100**	**1.000**	< 0.005
duplicate	5/4/2011	Endyne	see note [d9]	**16**	< 2	< 5	< 0.020	< 1	6	**1.100**	**1.000**	< 0.3	15.0	< 0.020	**12.00**	**8.50**	**1.100**	**1.000**	< 0.005
	10/3/2011+	Endyne	see note [p9]	**15**	< 2	< 5	< 0.020	< 1	6	**0.770**	**0.790**	< 0.2	9.8	< 0.020	**10.00**	**8.90**	**0.770**	**0.790**	< 0.020
	5/1/2012+	Endyne	see note [i10]	**14**	< 2	< 5	< 0.020	< 1	< 5	**0.960**	**0.910**	< 0.2	7.6	< 0.020	**11.00**	**8.80**	**0.960**	**0.910**	< 0.020
	10/2/2012+	Endyne	see note [a11]	**11**	< 2	< 5	< 0.025	< 1	< 5	**0.870**	**0.990**	< 0.2	15.0	< 0.025	**9.60**	**9.30**	**0.870**	**0.990**	< 0.020
	5/7/2013	Endyne	see note [j11]	< 1	< 2	< 5	< 0.020	< 1	< 5	**0.830**	**0.840**	< 0.2	9.3	< 0.020	**0.54**	0.027	**0.830**	**0.840**	0.020
duplicate	5/7/2013	Endyne	see note [j11]	< 1	< 2	< 5	< 0.020	< 1	< 5	**0.840**	**0.820**	< 0.2	9.5	< 0.020	**0.55**	**0.170**	**0.840**	**0.820**	< 0.020
	10/8/2013+	Endyne	see note [s11]	**13**	< 2	< 5	< 0.020	< 1	< 5	**1.000**	**0.990**	< 0.2	12.0	< 0.020	**11.00**	**11.000**	**1.000**	**0.990**	< 0.020
	5/7/2014+	Endyne	see note [d12]	**5**	< 2	< 5	< 0.020	< 1	< 5	0.074	0.025	< 0.2	12.0	< 0.020	**2.60**	**0.160**	**0.074**	0.025	< 0.020
	10/7/2014+	Endyne	see note [j12]	**16**	< 2	< 5	< 0.020	< 1	< 5	**0.780**	**0.820**	< 0.2	15.0	< 0.020	**9.40**	**9.600**	**0.780**	**0.820**	< 0.020
duplicate	10/7/2014+	Endyne	see note [e12]	**15**	< 2	< 5	< 0.020	< 1	< 5	**0.780**	**0.770**	< 0.2	15.0	< 0.020	**9.10**	**9.000**	**0.780**	**0.770**	< 0.020
	See notes [3] and [4] below.																		
	Normal Distribution?			No		No		No	No	No	Yes				No	No	No	Yes	
	Transformation Closest to Normal			Sqrt		Ln		Ln	Ln	Sqrt					Ln	Sqrt	Sqrt		
	Does Transformation Produce Normality?			Yes		No		No	No	Yes					Yes	Yes	Yes		
	Mean of Transformed Data			3.66		2.36		0.80	2.73	0.96					1.83	1.69	0.96		
	Mean of Untransformed Data										0.79							0.79	
	Std. Dev. of Transformed Data			1.15		0.75		1.02	0.92	0.29					1.15	1.26	0.29		
	Std. Dev. of Untransformed Data										0.29							0.29	
	n			40		40		40	40	40	40				40	40	40	40	
	Student's t-value (one-tailed)			1.68		1.68		1.68	1.68	1.68	1.68				1.68	1.68	1.68	1.68	
	Upper 95% Confidence Value			15.72		12.988		2.926	19.63	1.066	0.86				8.500	4.082	1.066	0.86	
	Lower 95% Confidence Value			**11.23**		8.709		**1.704**	12.03	**0.775**	**0.708**				**4.606**	**1.822**	**0.775**	**0.708**	

[1] VT GES = VT Groundwater Enforcement Standards and Preventive Action Levels from Table 1, Groundwater Protection Rule & Strategy (GWPRS), 2005.

[2] From December 2002 Vermont Department of Health Drinking Water Guidance.

* Bold values exceed Vermont Preventive Action Level

** Shaded values exceed Vermont GES, as set by Vermont GWPRS, 2005.

*** As of 2/26/2007, the Primary Vermont GES for Manganese was changed from 0.840 mg/L to 0.300 mg/L.

The < values listed here are the reported detection limit.

[a] through [u3]: See last page of inorganic data for additional notes.

[3] Statistical analyses are conducted only on data since 5/15/1998, when requirement changed to TOTAL metals instead of dissolved metals, except for Mn & Fe (see note below).
Archived data has not been included in statistical analyses since 5/15/1998.

[4] For Fe and Mn only, requirement since 5/15/1998 is to analyze for both total and dissolved forms. The dissolved archived data are not included in the statistical analyses to give consistency between dissolved and total Mn & Fe as prior to 5/98, samples were not analyzed for total and dissolved metals on the same date. This gives consistency of comparisons between dissolved and total Fe and Mn.

+MW sampling utilized low-flow technology at the request of the State when sufficient water was available.

NEWSVT Landfills
Coventry, Vermont
Groundwater Analyses
Inorganics

				Primary Groundwater Quality Parameters [1]									Secondary Groundwater Quality Parameters [2]						
				Total Arsenic	Total Cadmium	Total Chromium	Total Copper	Total Lead	Total Nickel	Total Manganese***	Dissolved Manganese***	Total Mercury	Total Chloride	Total Copper	Total Iron	Dissolved Iron	Total Manganese	Dissolved Manganese	Total Zinc
				(ug/L)	(ug/L)	(ug/L)	(mg/L)	(ug/L)	(ug/L)	(mg/L)	(mg/L)	(ug/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
	VT GES**[1]			10.0	5.0	100.0	1.300	15.0	100.0	0.300	0.300	2.0	250	1.0	0.3	0.3	0.05	0.05	5
	VT Preventive Action Level* [1]			1.0	2.5	50.0	0.650	1.5	50.0	0.150	0.150	0.5	125	0.5	0.15	0.15	0.025	0.025	2.5
	VT Health Advisory [2]			None	None	None	1.300	15	100	0.300	0.300	None	250	1.0	0.3	0.3	0.05	0.05	5
	Federal MCL [2]			10	5	100	None	None	None	None	None	2	None	None	None	None	None	None	None
Well	Date	Lab	Remarks																
MW-703	Earlier data are archived to conserve table space. See notes [3] and [4] below.																		
	5/14/1998	Endyne	see note [a]	< 5	< 5	< 10	< 0.010	< 5	< 20	0.020	0.015	< 2	3.02	< 0.010	**0.180**	0.129	0.020	0.015	0.018
	10/14/1998	Endyne	see note [b]	**8**	< 2	< 10	0.043	**11**	< 20	**1.64**	0.029	< 1	3.0	0.043	**1.49**	0.098	**1.64**	**0.029**	0.091
Upgradient	5/5/1999	Endyne	see note [d]	< 5	< 3	< 10	< 0.010	< 2	< 20	0.148	0.1	< 1	2	< 0.010	**0.34**	< 0.010	**0.148**	**0.1**	0.011
	10/12/1999	Endyne	see note [d]	**9**	< 3	< 10	< 0.010	**36**	< 20	**0.888**	0.097	< 1	15.7	< 0.010	**1.36**	< 0.010	**0.888**	**0.097**	0.03
	5/4/2000	Endyne	see note [f]	**9**	< 3	< 10	< 0.010	**3**	< 20	**0.181**	0.048	< 1	< 4.00	< 0.010	**1.39**	< 0.010	**0.181**	**0.048**	0.023
	10/10/2000	Endyne	see note [f]	**8**	< 3	13	< 0.010	**5**	< 20	**0.494**	**0.268**	< 1	< 4.00	< 0.010	**2.90**	< 0.010	**0.494**	**0.268**	0.033
	6/3/2001	Endyne	see note [h]	**6**	< 3	< 10	< 0.010	**4**	< 20	0.139	0.092	< 2	< 2.56	< 0.010	**0.73**	< 0.010	**0.139**	**0.092**	0.029
	10/3/2001	Endyne	see note [h]	**4**	< 3	< 10	< 0.010	< 2	< 20	**0.235**	**0.232**	< 1	< 2.50	< 0.010	0.15	< 0.010	**0.235**	**0.232**	< 0.020
	5/2/2002	Endyne	see note [i]	**8**	< 3	< 10	< 0.010	< 2	< 20	**0.654**	**0.236**	< 1	3.12	< 0.010	**3.36**	0.058	**0.654**	**0.236**	< 0.020
	10/2/2002	Endyne	see note [a]	**5**	< 3	< 10	< 0.010	< 2	< 20	**0.246**	0.139	< 1	2.82	< 0.010	**0.330**	< 0.010	**0.246**	**0.139**	< 0.020
	5/6/2003	Endyne	see note [d]	**5**	< 3	< 10	< 0.010	< 2	< 20	**0.187**	0.086	< 1	2.95	< 0.010	**0.556**	0.015	**0.187**	**0.086**	< 0.020
	10/2/2003	Endyne	see note [d]	**5**	< 3	< 10	0.0120	< 2	< 20	**0.224**	0.087	< 1	3.59	0.012	0.141	< 0.010	**0.224**	**0.087**	< 0.020
	5/4/2004	Endyne	see note [d]	**4**	< 3	< 10	< 0.010	< 2	< 20	0.107	0.051	< 1	3.49	< 0.010	0.137	0.025	**0.107**	**0.051**	< 0.020
	10/5/2004	Endyne	see note [h]	**24**	< 3	27	< 0.010	**7**	44	**0.859**	**0.282**	< 1	4.02	< 0.010	**13.8**	< 0.010	**0.859**	**0.282**	0.047
	5/3/2005	Endyne	see note [bb]	**6**	< 3	< 10	< 0.010	< 2	< 20	0.148	0.094	< 1	4.10	< 0.010	**0.691**	< 0.010	**0.148**	**0.094**	< 0.020
	10/4/2005	Endyne	see note [a]	**5**	< 2	< 10	< 0.010	< 10	< 20	**0.261**	**0.239**	< 1	3.98	< 0.010	0.131	< 0.010	**0.261**	**0.239**	< 0.020
	5/2/2006	Endyne	see note [ww]	**110**	**4**	**127**	0.079	**37**	**181**	**4.850**	0.030	< 1	4.27	0.079	**90.10**	< 0.010	**4.850**	**0.030**	0.216
	10/3/2006	Endyne	see note [nnn]	**8**	< 2	< 20	< 0.020	< 2	< 20	**0.384**	0.138	< 1	4.01	< 0.020	**1.960**	< 0.020	**0.384**	**0.138**	< 0.020
	5/1/2007	Endyne	see note [o1]	**5**	< 2	< 20	< 0.020	< 1	< 20	**0.320**	**0.188**	< 1	4.53	< 0.020	**0.541**	0.029	**0.320**	**0.188**	< 0.020
duplicate	5/1/2007	Endyne	see note [x1]	**7**	< 2	< 20	< 0.020	1	< 20	**0.518**	**0.199**	< 1	4.56	< 0.020	**1.430**	0.049	**0.518**	**0.199**	0.039
	10/4/2007	Endyne	see note [n2]	**5**	< 2	< 20	< 0.020	< 1	< 20	**0.259**	**0.241**	< 1	4.50	< 0.020	0.042	< 0.020	**0.259**	**0.241**	< 0.020
	5/6/2008	Endyne	see note [n3]	**9**	< 2	< 20	< 0.020	< 1	< 20	**0.480**	**0.30**	< 1	4.80	< 0.020	**3.90**	**0.31**	**0.480**	**0.300**	< 0.020
	10/6/2008	Endyne	see note [n4]	**15**	< 2	< 20	< 0.020	**3**	26	**0.930**	**0.18**	< 1	4.90	< 0.020	**9.80**	0.035	**0.930**	**0.180**	0.31
	5/6/2009	Endyne	see note [o5]	**100**	**3**	**74**	**0.710**	**510**	1.4	**45**	**0.18**	< 1	4.70	**0.710**	**450**	**2.6**	**45**	**0.180**	1.2
	10/6/2009	Endyne	see note [o6]	**18**	< 2	< 20	< 0.020	**6**	35	**0.87**	**0.16**	< 1	5.00	< 0.020	**15**	0.048	**0.87**	**0.160**	0.038
duplicate	10/6/2009	Endyne	see note [p6]	**47**	< 2	**61**	0.040	**20**	11	**2.60**	**0.16**	< 1	5.00	0.040	**47**	< 0.020	**2.60**	**0.160**	0.11
	5/4/2010	Endyne	see note [n7]	**7**	< 2	5	< 0.020	<1	5	**0.17**	0.083	< 0.1	5.20	< 0.020	**1.9**	0.070	**0.17**	**0.083**	< 0.005
	10/5/2010	Endyne	see note [j8]	**11**	< 2	7	< 0.020	1	12	**0.35**	0.140	< 0.2	5.40	< 0.020	**4.9**	0.041	**0.35**	**0.140**	0.013
	5/4/2011	Endyne	see note [v8]	**7**	< 2	< 5	< 0.020	<1	< 5	0.13	0.057	< 0.2	5.30	< 0.020	**1.6**	0.021	**0.13**	**0.057**	< 0.005
	10/4/2011+	Endyne	see note [q9]	**7**	< 2	11	0.027	<1	9	**1.10**	0.020	< 0.2	5.90	0.027	**2.1**	0.081	**1.10**	0.020	0.011
	5/3/2012+	Endyne	see note [j10]	**28**	< 2	43	< 0.020	**13**	**72**	**3.50**	**0.170**	< 0.2	6.50	< 0.020	**27.0**	0.045	**3.50**	**0.170**	0.066
	10/2/2012+	Endyne	see note [z10]	**33**	< 2	**130**	0.021	**14**	**130**	**6.80**	**0.510**	< 0.2	8.50	0.021	**37.0**	0.040	**6.80**	**0.510**	0.094
	5/9/2013+	Endyne	see note [o10]	**6**	< 2	<5	< 0.020	1	< 5	**0.78**	0.063	< 0.2	5.40	0.020	**0.7**	< 0.020	**0.78**	**0.063**	< 0.020
	10/8/2013+	Endyne	see note [o10]	**6**	< 2	<5	< 0.020	< 1	< 5	**1.10**	0.120	< 0.2	4.90	< 0.020	**1.1**	< 0.020	**1.10**	**0.120**	< 0.020
	5/7/2014+	Endyne	see note [o10]	**6**	< 2	<5	< 0.020	< 1	< 5	**1.30**	0.029	< 0.2	5.20	< 0.020	**0.34**	< 0.020	**1.30**	**0.029**	< 0.020
	10/6/2014+	Endyne	see note [n11]	**6**	< 2	<5	< 0.020	< 1	< 5	**1.80**	**0.210**	< 0.2	5.80	< 0.020	**0.29**	< 0.020	**1.80**	**0.210**	< 0.020
	See notes [3] and [4] below.																		
	Normal Distribution?			No		No		No	No	No					No	No	No	Yes	
	Transformation Closest to Normal			Ln		Ln		Ln	Ln	Ln					Ln	Ln	Ln		
	Does Transformation Produce Normality?			No		No		No	No	Yes					Yes	Yes	Yes		
	Mean of Transformed Data			2.23		2.64		1.20	2.83	-0.60					0.52	-3.60	-0.60		
	Mean of Untransformed Data																	0.15	
	Std. Dev. of Transformed Data			0.84		0.86		1.39	0.92	1.42					2.07	1.17	1.42		
	Std. Dev. of Untransformed Data																	0.10	
	n			36		36		36	36	36					36	36	36	36	
	Student's t-value (one-tailed)			1.69		1.69		1.69	1.69	1.69					1.69	1.69	1.69	1.69	
	Upper 95% Confidence Value			11.777		17.800		4.894	22.002	0.819					3.011	0.038	0.819	0.175	
	Lower 95% Confidence Value			**7.332**		10.979		**2.241**	13.085	**0.369**					**0.941**	0.020	**0.369**	**0.133**	

[1] VT GES = VT Groundwater Enforcement Standards and Preventive Action Levels from Table 1, Groundwater Protection Rule & Strategy (GWPRS), 2005.

[2] From December 2002 Vermont Department of Health Drinking Water Guidance.

* Bold values exceed Vermont Preventive Action Level

** Shaded values exceed Vermont GES, as set by Vermont GWPRS, 2005.

*** As of 2/26/2007, the Primary Vermont GES for Manganese was changed from 0.840 mg/L to 0.300 mg/L.

The < values listed here are the reported detection limit.

[a] through [u3]: See last page of inorganic data for additional notes.

[3] Statistical analyses are conducted only on data since 5/15/1998, when requirement changed to TOTAL metals instead of dissolved metals, except for Mn & Fe (see note below).

Archived data has not been included in statistical analyses since 5/15/1998.

[4] For Fe and Mn only, requirement since 5/15/1998 is to analyze for both total and dissolved forms. The dissolved archived data are not included in the statistical analyses to give consistency between dissolved and total Mn & Fe as prior to 5/98, samples were not analyzed for total and dissolved metals on the same date. This gives consistency of comparisons between dissolved and total Fe and Mn.

+MW sampling utilized low-flow technology at the request of the State when sufficient water was available.

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				Primary Groundwater Quality Parameters [1]									Secondary Groundwater Quality Parameters [2]						
				Total Arsenic (ug/L)	Total Cadmium (ug/L)	Total Chromium (ug/L)	Total Copper (mg/L)	Total Lead (ug/L)	Total Nickel (ug/L)	Total Manganese*** (mg/L)	Dissolved Manganese*** (mg/L)	Total Mercury (ug/L)	Total Chloride (mg/L)	Total Copper (mg/L)	Total Iron (mg/L)	Dissolved Iron (mg/L)	Total Manganese (mg/L)	Dissolved Manganese (mg/L)	Total Zinc (mg/L)
	VT GES**[1]			10.0	5.0	100.0	1.300	15.0	100.0	0.300	0.300	2.0	250	1.0	0.3	0.3	0.05	0.05	5
	VT Preventive Action Level* [1]			1.0	2.5	50.0	0.650	1.5	50.0	0.150	0.150	0.5	125	0.5	0.15	0.15	0.025	0.025	2.5
	VT Health Advisory [2]			None	None	None	1.300	15	100	0.300	0.300	None	250	1.0	0.3	0.3	0.05	0.05	5
	Federal MCL [2]			10	5	100	None	None	None	None	None	2	None	None	None	None	None	None	None
Well	Date	Lab	Remarks																
MW-705	Earlier data are archived to conserve table space. See notes [3] and [4] below.																		
	5/15/1998	Endyne	see note [a]	< 5	< 5	< 10	< 0.010	< 5	< 20	**0.192**	**0.198**	< 2	11.5	< 0.010	0.074	0.064	**0.192**	**0.198**	0.016
	5/15/1998	Endyne	duplicate	< 5	< 5	< 10	< 0.010	< 5	< 20	**0.186**	**0.179**	< 2	11.5	< 0.010	0.047	0.049	**0.186**	**0.179**	0.013
Upgradient	10/14/1998	Endyne	see note [b]	**5**	< 2	< 10	< 0.020	**6**	< 20	**0.183**	0.011	< 1	6.9	< 0.020	**0.277**	< 0.020	**0.183**	0.011	0.070
	5/5/1999	Endyne	see note [d]	< 5	< 3	< 10	< 0.010	**8**	< 20	0.086	0.017	< 1	6	< 0.010	**0.21**	< 0.010	**0.086**	0.017	0.019
	5/5/1999	Endyne	duplicate	< 5	< 3	< 10	< 0.010	**8**	< 20	0.078	0.016	< 1	6	< 0.010	**0.21**	< 0.010	**0.078**	0.016	0.021
	10/12/1999	Endyne	see note [d]	**6**	< 3	< 10	< 0.010	**26**	< 20	**0.176**	< 0.005	< 1	29.8	< 0.010	**0.376**	< 0.010	**0.176**	< 0.005	0.038
	5/4/2000	Endyne	see note [f]	**7**	< 3	< 10	< 0.010	**4**	< 20	**0.157**	0.012	< 1	7.59	< 0.010	**0.476**	< 0.010	**0.157**	0.012	0.049
	5/4/2000	Endyne	duplicate [f]	**7**	< 3	< 10	< 0.010	**2**	< 20	0.057	0.016	< 1	6.13	< 0.010	**0.161**	< 0.010	**0.057**	0.016	0.02
	10/10/2000	Endyne	see note [f]	< 5	**4.0**	< 10	< 0.010	**3**	< 20	0.121	< 0.005	< 1	8.25	< 0.010	**0.204**	< 0.010	**0.121**	< 0.005	0.042
	5/3/2001	Endyne	see note [h]	**5**	< 3	< 10	< 0.010	**2**	< 20	0.057	< 0.005	< 2	5.23	< 0.010	**0.268**	< 0.010	**0.057**	< 0.005	< 0.020
	10/3/2001	Endyne	see note [h]	**5**	< 3	< 10	< 0.010	1.26	< 20	**0.385**	0.046	< 1	4.77	< 0.010	**1.26**	< 0.010	**0.385**	**0.046**	< 0.020
	5/2/2002	Endyne	see note [i]	**5**	< 3	< 10	< 0.010	< 2	< 20	0.144	0.033	< 1	5.28	< 0.010	**3.47**	< 0.010	**0.144**	**0.033**	< 0.020
	10/2/2002	Endyne	see note [a]	**4**	< 3	< 10	< 0.010	< 2	< 20	0.084	0.042	< 1	4.41	< 0.010	**0.794**	< 0.010	**0.084**	**0.042**	< 0.020
	5/6/2003	Endyne	see note [d]	**4**	< 3	< 10	< 0.010	< 2	< 20	0.129	0.082	< 1	4.12	< 0.010	**2.00**	< 0.010	**0.129**	**0.082**	< 0.020
	10/2/2003	Endyne	see note [d]	**5**	< 3	< 10	< 0.010	< 2	< 20	0.047	0.037	< 1	4.23	< 0.010	**0.649**	< 0.010	**0.047**	**0.037**	< 0.020
	5/4/2004	Endyne	see note [d]	**4**	< 3	< 10	< 0.010	< 2	< 20	0.067	0.050	< 1	3.84	< 0.010	**0.355**	< 0.010	**0.067**	**0.050**	< 0.020
	10/5/2004	Endyne	see note [f]	**8**	< 3	< 10	< 0.010	< 2	< 20	**0.296**	0.094	< 1	3.81	< 0.010	**5.150**	< 0.010	**0.296**	**0.094**	0.026
	5/3/2005	Endyne	see note [cc]	**14**	< 3	21	0.020	**10**	22	**0.717**	0.075	< 1	3.31	0.020	**20.8**	0.016	**0.717**	**0.075**	0.052
	10/4/2005	Endyne	see note [jj]	**7**	< 2	< 10	0.012	< 10	< 20	**0.277**	0.101	< 1	3.13	0.012	**5.71**	< 0.010	**0.277**	**0.101**	< 0.020
	5/2/2006	Endyne	see note [aaa]	**6**	< 2	< 10	< 0.01	< 10	< 20	**0.231**	0.101	< 1	2.71	< 0.010	**4.56**	< 0.010	**0.231**	**0.101**	< 0.020
	10/3/2006	Endyne	see note [ooo]	**11**	< 2	< 20	< 0.020	**3**	< 20	**0.366**	0.142	< 1	3.46	< 0.020	**8.47**	< 0.020	**0.366**	**0.142**	0.030
	5/1/2007	Endyne	see note [p1]	**4**	< 20	< 20	< 0.020	< 1	< 20	0.130	0.050	< 1	8.80	< 0.020	**2.34**	0.082	**0.130**	**0.050**	< 0.020
	10/4/2007	Endyne	see note [o2]	**4**	< 2	< 20	< 0.020	< 1	< 20	**0.237**	0.070	< 1	14.0	< 0.020	**1.39**	< 0.02	**0.237**	**0.070**	< 0.020
	5/6/2008	Endyne	see note [o3]	**6**	< 2	< 20	< 0.020	< 1	< 20	**0.320**	0.150	< 1	25.0	< 0.020	**6.70**	0.031	**0.320**	**0.150**	< 0.020
	10/6/2008	Endyne	see note [o4]	**5**	< 2	< 20	< 0.020	< 1	< 20	**0.250**	0.099	< 1	36.0	< 0.020	**3.30**	0.031	**0.250**	**0.099**	< 0.020
	5/6/2009	Endyne	see note [p5]	**3**	< 2	< 20	< 0.020	< 1	< 20	**0.220**	0.065	< 1	36.0	< 0.020	**1.10**	0.022	**0.220**	**0.065**	< 0.020
	10/6/2009	Endyne	see note [q6]	**5**	< 2	< 20	< 0.020	< 1	< 20	**0.280**	0.130	< 1	32.0	< 0.020	**0.97**	0.039	**0.280**	**0.130**	< 0.020
	5/4/2010	Endyne	see note [q6]	**4**	< 2	< 5	< 0.020	< 1	< 5	**0.230**	0.096	< 0.1	34.0	< 0.020	**1.60**	**0.26**	**0.230**	**0.096**	< 0.005
	10/5/2010	Endyne	see note [k8]	**4**	< 2	< 5	< 0.020	< 1	< 5	0.140	0.110	< 0.2	30.0	< 0.020	**0.40**	0.13	**0.140**	**0.110**	< 0.005
	5/4/2011	Endyne	see note	**91**	**9**	**67**	0.35	**139**	**770**	**14.0**	**0.220**	0.3	31.0	0.350	**380.0**	0.046	**14.000**	**0.220**	0.950
	6/20/2011[7]	Endyne	see note [h9]	**8**	< 2	14	< 0.020	**2**	15	**0.620**	0.140	< 0.2	34.0	< 0.020	**5.20**	0.096	**0.620**	**0.140**	< 0.020
	10/5/2011+	Endyne	see note [v8]	**5**	< 2	5	< 0.020	< 1	5	**0.300**	0.110	< 0.2	39.0	< 0.020	**1.20**	0.053	**0.300**	**0.110**	< 0.020
	5/2/2012+	Endyne	see note [k10]	**7**	< 2	< 5	< 0.020	< 1	< 5	**0.490**	0.028	< 0.2	42.0	< 0.020	**1.30**	< 0.020	**0.490**	**0.028**	< 0.020
duplicate	5/2/2012+	Endyne	see note [l10]	**8**	< 2	< 5	< 0.020	< 1	< 5	**0.500**	0.026	< 0.2	42.0	< 0.020	**1.30**	< 0.020	**0.500**	**0.026**	< 0.020
	10/3/2012+	Endyne	see note [g11]	**9**	< 2	< 5	< 0.020	< 1	< 5	**0.660**	**0.170**	< 0.2	38.0	< 0.020	**2.60**	0.052	**0.660**	**0.170**	< 0.020
	5/8/2013+	Endyne	see note [o10]	**3**	< 2	< 5	< 0.020	< 1	< 5	0.094	0.025	< 0.2	66.0	< 0.020	**0.20**	0.030	**0.094**	0.025	< 0.020
	10/9/2013+	Endyne	see note [o10]	**2**	< 2	< 5	< 0.020	< 1	< 5	0.096	0.065	< 0.2	78.0	< 0.020	0.044	< 0.020	**0.096**	**0.065**	< 0.020
duplicate	10/9/2013+	Endyne	see note [o10]	**2**	< 2	< 5	< 0.020	< 1	< 5	0.100	0.055	< 0.2	80.0	< 0.020	0.030	< 0.020	**0.100**	**0.055**	< 0.020
	5/8/2014+	Endyne	see note [o10]	**3**	< 2	< 5	< 0.020	< 1	< 5	0.110	0.064	< 0.2	93.0	< 0.020	**0.270**	0.030	**0.110**	**0.064**	< 0.020
duplicate	5/8/2014+	Endyne	see note [o10]	**2**	< 2	< 5	< 0.020	< 1	< 5	0.088	0.061	< 0.2	94.0	< 0.020	**0.160**	0.029	**0.088**	**0.061**	< 0.020
	10/7/2014+	Endyne	see note [o10]	**11**	< 2	< 5	< 0.020	< 1	< 5	**0.360**	**0.220**	< 0.2	97.0	< 0.020	**0.810**	0.100	**0.360**	**0.220**	< 0.020
	See notes [3] and [4] below.																		
	Normal Distribution?			No	No			No	No	No					No		No	Yes	
	Transformation Closest to Normal			Ln	Ln			Ln	Ln	Ln					Ln		Ln		
	Does Transformation Produce Normality?			Yes	No			No	No	Yes					Yes		Yes		
	Mean of Transformed Data			1.70	0.99			0.84	2.67	-1.60					-0.11		-1.60		
	Mean of Untransformed Data																	0.08	
	Std. Dev. of Transformed Data			0.62	0.46			1.09	0.90	0.98					1.82		0.98		
	Std. Dev. of Untransformed Data																	0.06	
	n			41	41			41	41	41					41		41	41	
	Student's t-value (one-tailed)			1.68	1.68			1.68	1.68	1.68					1.68		1.68	1.68	
	Upper 95% Confidence Value			6.426	3.026			3.079	18.360	0.260					1.447		0.260	0.094	
	Lower 95% Confidence Value			**4.628**	2.375			**1.733**	11.455	**0.156**					**0.557**		**0.156**	**0.063**	

[1] VT GES = VT Groundwater Enforcement Standards and Preventive Action Levels from Table 1, Groundwater Protection Rule & Strategy (GWPRS), 2005.

[2] From December 2002 Vermont Department of Health Drinking Water Guidance.

* Bold values exceed Vermont Preventive Action Level

** Shaded values exceed Vermont GES, as set by Vermont GWPRS, 2005.

*** As of 2/26/2007, the Primary Vermont GES for Manganese was changed from 0.840 mg/L to 0.300 mg/L.

The < values listed here are the reported detection limit.

[a] through [u3]: See last page of inorganic data for additional notes.

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Archived data has not been included in statistical analyses since 5/15/1998.

[4] For Fe and Mn only, requirement since 5/15/1998 is to analyze for both total and dissolved forms. The dissolved archived data are not included in the statistical analyses to give consistency between dissolved and total Mn & Fe as prior to 5/98, samples were not analyzed for total and dissolved metals the same date. This gives consistency of comparisons between dissolved and total Fe and Mn.

[7] Re-sampling was conducted on 6/20/11 due to questionable results from 5/4/11

+MW sampling utilized low-flow technology at the request of the State when sufficient water was available.

NEWSVT Landfills
Coventry, Vermont
Groundwater Analyses
Inorganics

				Primary Groundwater Quality Parameters [1]									Secondary Groundwater Quality Parameters [2]						
				Total Arsenic (ug/L)	Total Cadmium (ug/L)	Total Chromium (ug/L)	Total Copper (mg/L)	Total Lead (ug/L)	Total Nickel (ug/L)	Total Manganese*** (mg/L)	Dissolved Manganese*** (mg/L)	Total Mercury (ug/L)	Total Chloride (mg/L)	Total Copper (mg/L)	Total Iron (mg/L)	Dissolved Iron (mg/L)	Total Manganese (mg/L)	Dissolved Manganese (mg/L)	Total Zinc (mg/L)
	VT GES**[1]			10.0	5.0	100.0	1.300	15.0	100.0	0.300	0.300	2.0	250	1.0	0.3	0.3	0.05	0.05	5
	VT Preventive Action Level* [1]			1.0	2.5	50.0	0.650	1.5	50.0	0.150	0.150	0.5	125	0.5	0.15	0.15	0.025	0.025	2.5
	VT Health Advisory [2]			None	None	None	1.300	15	100	0.300	0.300	None	250	1.0	0.3	0.3	0.05	0.05	5
	Federal MCL [2]			10	5	100	None	None	None	None	None	2	None	None	None	None	None	None	None
Well	Date	Lab	Remarks																
MW-706	Earlier data are archived to conserve table space. See notes [3] and [4] below.																		
	10/14/1998	Endyne	see note [b]	**7**	< 2	< 10	< 0.020	**9**	< 20	**0.463**	0.067	< 1	7.2	< 0.020	**5.01**	< 0.020	**0.463**	**0.067**	0.076
	5/5/1999	Endyne	see note [d]	**12**	< 3	< 10	< 0.010	< 2	< 20	0.108	0.067	< 1	4.0	< 0.010	**1.69**	< 0.010	**0.108**	**0.067**	0.079
Upgradient	10/12/1999	Endyne	see note [d]	**6**	< 3	< 10	< 0.010	**18**	< 20	0.094	0.060	< 1	5.7	< 0.010	**1.22**	< 0.010	**0.094**	**0.060**	0.057
	5/4/2000	Endyne	see note [f]	< 5	< 3	< 10	< 0.010	**2**	< 20	0.098	0.048	< 1	4.44	< 0.010	**0.232**	< 0.010	**0.098**	**0.048**	0.024
	10/10/2000	Endyne	see note [f]	< 5	< 3	< 10	< 0.010	**3**	< 20	**0.249**	0.047	< 1	< 4.00	< 0.010	**0.864**	< 0.010	**0.249**	**0.047**	0.068
	5/3/2001	Endyne	see note [h]	**3**	< 3	< 10	< 0.010	< 2	< 20	0.094	0.014	< 2	< 2.50	< 0.010	**0.151**	< 0.010	**0.094**	0.014	< 0.020
	10/3/2001	Endyne	see note [h]	**2**	< 3	< 10	0.020	< 2	< 20	0.062	< 0.005	< 1	< 2.50	0.020	0.048	< 0.010	**0.062**	< 0.005	< 0.020
	5/2/2002	Endyne	see note [i]	**2**	< 3	< 10	< 0.010	< 2	< 20	0.052	0.011	< 1	2.87	< 0.010	**0.337**	< 0.010	**0.052**	0.011	< 0.020
	10/2/2002	Endyne	see note [a]	< 2	< 3	< 10	< 0.010	< 2	< 20	0.018	0.006	< 1	4.13	< 0.010	**0.252**	< 0.010	0.018	0.006	< 0.020
	5/6/2003	Endyne	see note [d]	**3**	< 3	< 10	< 0.010	< 2	< 20	0.074	< 0.005	< 1	4.81	< 0.010	**0.704**	< 0.010	**0.074**	< 0.005	< 0.020
	10/2/2003	Endyne	see note [d]	**3**	< 3	< 10	< 0.010	< 2	< 20	0.035	0.009	< 1	5.99	< 0.010	**0.361**	< 0.010	**0.035**	0.009	< 0.020
	5/4/2004	Endyne	see note [d]	**2**	< 3	< 10	< 0.010	< 2	< 20	0.042	0.009	< 1	3.88	< 0.010	**0.317**	< 0.010	**0.042**	0.009	< 0.020
	10/5/2004	Endyne	see note [f]	**4**	< 3	< 10	< 0.010	< 2	< 20	0.026	0.006	< 1	4.40	< 0.010	**0.512**	< 0.010	**0.026**	0.006	< 0.020
	5/3/2005	Endyne	see note [bb]	**3**	< 3	< 10	< 0.010	< 2	< 20	0.100	0.005	< 1	4.35	< 0.010	**1.37**	< 0.010	**0.100**	0.005	< 0.020
	10/4/2005	Endyne	see note [jj]	**6**	< 2	< 10	0.010	< 10	< 20	**0.530**	0.005	< 1	4.29	0.010	**5.38**	< 0.010	**0.530**	0.005	< 0.020
	5/2/2006	Endyne	see note [u]	**6**	< 2	< 10	0.010	< 10	< 20	**0.330**	0.007	< 1	3.99	0.010	**5.50**	0.035	**0.330**	0.007	0.024
	10/3/2006	Endyne	see note [ppp]	**11**	< 2	< 20	< 0.020	**4**	< 20	**0.791**	< 0.020	< 1	4.27	0.020	**9.72**	0.020	**0.791**	< 0.020	0.039
	5/1/2007	Endyne	see note [q1]	**2**	< 2	< 20	< 0.020	< 1	< 20	0.041	0.022	< 1	5.70	< 0.020	**0.352**	0.036	**0.041**	0.022	< 0.020
	10/4/2007	Endyne	see note [p2]	**3**	2	< 20	< 0.020	< 1	< 20	**0.310**	< 0.020	< 1	7.10	< 0.020	**0.454**	< 0.020	**0.310**	< 0.020	0.022
Duplicate	10/4/2007	Endyne	see note [p2']	**3**	< 2	< 20	< 0.020	< 1	< 20	**0.251**	< 0.020	< 1	7.00	< 0.020	**0.407**	< 0.020	**0.251**	< 0.020	< 0.020
	5/6/2008	Endyne	see note [p3]	**3**	< 2	< 20	< 0.020	< 1	< 20	**0.190**	< 0.020	< 1	11.00	< 0.020	**3.600**	0.044	**0.190**	< 0.020	< 0.020
	10/6/2008	Endyne	see note [p4]	**5**	< 2	< 20	< 0.020	< 1	< 20	**0.330**	< 0.020	< 1	11.00	< 0.020	**4.100**	0.036	**0.330**	< 0.020	0.024
	5/6/2009	Endyne	see note [q5]	**3**	**4**	< 20	< 0.020	< 1	< 20	0.150	0.021	< 1	15.00	< 0.020	**0.690**	< 0.020	**0.150**	< 0.021	< 0.020
	10/6/2009	Endyne	see note [q6]	**3**	< 2	< 20	< 0.020	< 1	< 20	**0.220**	< 0.020	< 1	14.00	< 0.020	**1.700**	< 0.020	**0.220**	< 0.020	< 0.020
	5/4/2010	Endyne	see note [o7]	**2**	< 2	< 5	< 0.020	< 1	< 5	0.058	< 0.020	< 0.1	15.00	< 0.020	0.130	0.044	**0.058**	< 0.020	< 0.005
Duplicate	5/4/2010	Endyne	see note [p7]	**3**	< 2	< 5	< 0.020	< 1	< 5	0.064	< 0.020	< 0.1	15.00	< 0.020	**0.260**	0.061	**0.064**	< 0.020	< 0.005
	10/5/2010	Endyne	see note [q5]	**3**	< 2	< 5	< 0.020	< 1	< 5	0.110	< 0.020	< 0.2	12.00	< 0.020	**0.660**	0.022	**0.110**	< 0.020	< 0.005
Duplicate	10/5/2010	Endyne	see note [q8]	**3**	< 2	< 5	< 0.020	< 1	< 5	**0.260**	< 0.020	< 0.2	12.00	< 0.200	**1.200**	0.033	**0.260**	< 0.020	0.014
	5/4/2011	Endyne	see note [v8]	**3**	< 2	< 5	< 0.020	< 1	< 5	0.130	0.022	< 0.2	12.00	< 0.020	**0.590**	0.020	**0.130**	< 0.022	< 0.005
	10/4/2011+	Endyne	see note [v8]	**4**	< 2	< 5	< 0.020	< 1	< 5	**0.280**	0.022	< 0.2	11.00	< 0.020	**0.450**	0.047	**0.280**	0.022	< 0.020
	5/2/2012+	Endyne	see note [m10]	**4**	< 2	< 5	< 0.020	< 1	< 5	**0.540**	0.022	< 0.2	12.00	< 0.020	**0.370**	< 0.020	**0.540**	0.022	< 0.020
	10/3/2012+	Endyne	see note [t10]	**3**	< 2	< 5	< 0.020	< 1	< 5	**0.370**	0.021	< 0.2	11.00	< 0.020	**0.210**	< 0.020	**0.370**	0.021	< 0.020
	5/9/2013+	Endyne	see note [o10]	**2**	< 2	< 5	< 0.020	< 1	< 5	0.120	0.034	< 0.2	12.00	< 0.020	0.039	< 0.020	**0.120**	**0.034**	< 0.020
Duplicate	5/9/2013+	Endyne	see note [o10]	**2**	< 2	< 5	< 0.020	< 1	< 5	0.075	0.031	< 0.2	12.00	< 0.020	< 0.020	< 0.020	**0.075**	**0.031**	< 0.020
	10/9/2013+	Endyne	see note [o10]	**8**	< 2	< 5	< 0.020	< 1	< 5	**1.700**	0.031	< 0.2	9.60	< 0.020	**1.1**	< 0.020	**1.700**	**0.031**	< 0.020
	5/7/2014+	Endyne	see note [o10]	**6**	< 2	< 5	< 0.020	< 1	< 5	**1.700**	0.032	< 0.2	11.00	< 0.020	**0.65**	< 0.020	**1.700**	**0.032**	< 0.020
	10/7/2014+	Endyne	see note [o10]	**6**	< 2	< 5	< 0.020	< 1	< 5	**2.300**	0.070	< 0.2	10.00	< 0.020	**0.51**	< 0.020	**2.300**	**0.070**	< 0.020
See notes [3] and [4] below.																			
Normal Distribution?				No				No	No						No		No	No	
Transformation Closest to Normal				Ln				Ln	Ln						Ln		Ln	Sqrt	
Does Transformation Produce Normality?				No				No	Yes						Yes		Yes	Yes	
Mean of Transformed Data				1.29				0.54	-1.81						-0.52		-1.81	0.15	
Mean of Untransformed Data																			
Std. Dev. of Transformed Data				0.49				0.77	1.16						1.38		1.16	0.05	
Std. Dev. of Untransformed Data																	0.18		
n				37				37	37						37		37	37	
Student's t-value (one-tailed)				1.69				1.69	1.69						1.69		1.69	1.69	
Upper 95% Confidence Value				4.167				2.117	0.225						0.866		0.225	0.026	
Lower 95% Confidence Value				**3.175**				1.378	0.118						**0.404**		**0.118**	0.017	

[1] VT GES = VT Groundwater Enforcement Standards and Preventive Action Levels from Table 1, Groundwater Protection Rule & Strategy (GWPRS), 2005.

[2] From December 2002 Vermont Department of Health Drinking Water Guidance.

* Bold values exceed Vermont Preventive Action Level

** Shaded values exceed Vermont GES, as set by Vermont GWPRS, 2005.

*** As of 2/26/2007, the Primary Vermont GES for Manganese was changed from 0.840 mg/L to 0.300 mg/L.

The < values listed here are the reported detection limit.

[a] through [u3]: See last page of inorganic data for additional notes.

[3] Statistical analyses are conducted only on data since 5/15/1998, when requirement changed to TOTAL metals instead of dissolved metals, except for Mn & Fe (see note below).

Archived data has not been included in statistical analyses since 5/15/1998.

[4] For Fe and Mn only, requirement since 5/15/1998 is to analyze for both total and dissolved forms. The dissolved archived data are not included in the statistical analyses to give consistency between dissolved and total Mn & Fe as prior to 5/98, samples were not analyzed for total and dissolved metals on the same date. This gives consistency of comparisons between dissolved and total Fe and Mn.

+MW sampling utilized low-flow technology at the request of the State when sufficient water was available.

NEWSVT Landfills
Coventry, Vermont
Groundwater Analyses
Inorganics

				Primary Groundwater Quality Parameters [1]									Secondary Groundwater Quality Parameters [2]						
				Total Arsenic (ug/L)	Total Cadmium (ug/L)	Total Chromium (ug/L)	Total Copper (mg/L)	Total Lead (ug/L)	Total Nickel (ug/L)	Total Manganese*** (mg/L)	Dissolved Manganese*** (mg/L)	Total Mercury (ug/L)	Total Chloride (mg/L)	Total Copper (mg/L)	Total Iron (mg/L)	Dissolved Iron (mg/L)	Total Manganese (mg/L)	Dissolved Manganese (mg/L)	Total Zinc (mg/L)
	VT GES**[1]			10.0	5.0	100.0	1.300	15.0	100.0	0.300	0.300	2.0	250	1.0	0.3	0.3	0.05	0.05	5
	VT Preventive Action Level* [1]			1.0	2.5	50.0	0.650	1.5	50.0	0.150	0.150	0.5	125	0.5	0.15	0.15	0.025	0.025	2.5
	VT Health Advisory [2]			None	None	None	1.300	15	100	0.300	0.300	None	250	1.0	0.3	0.3	0.05	0.05	5
	Federal MCL [2]			10	5	100	None	None	None	None	None	2	None	None	None	None	None	None	None
Well	Date	Lab	Remarks																
MW-801BR-R	5/6/2008	Endyne	see note [r3]	< 2	< 2	< 20	< 0.020	**2**	< 20	0.087	0.060	< 1	< 2.5	< 0.020	**8.7**	0.095	**0.087**	**0.060**	< 0.020
	10/6/2008	Endyne	see note [r4]	< 2	< 2	< 20	< 0.020	< 1	< 20	0.054	0.025	< 1	< 2.5	< 0.020	**13**	0.11	**0.054**	0.025	< 0.020
	5/6/2009	Endyne	see note [s5]	**7**	< 2	< 20	< 0.020	**2**	< 20	**0.180**	< 0.020	< 1	< 2.5	< 0.020	**6.3**	0.084	**0.180**	< 0.020	< 0.020
	10/6/2009	Endyne	see note [s6]	< 2	< 2	< 20	< 0.020	< 1	< 20	0.039	< 0.020	< 1	< 2.5	< 0.020	**5.5**	0.13	**0.039**	< 0.020	< 0.020
	5/3/2010	Endyne	see note [r7]	< 1	< 2	< 5	< 0.020	**2.8**	< 5	0.022	< 0.020	< 0.1	< 2.5	< 0.020	**2.8**	0.057	0.022	< 0.020	< 0.005
	10/5/2010	Endyne	see note [m8]	< 1	< 2	< 5	< 0.020	< 1	< 5	0.023	< 0.020	< 0.2	< 2.5	< 0.020	**3.2**	**0.33**	0.023	< 0.020	0.009
	5/4/2011	Endyne	see note [v8]	< 1	< 2	< 5	< 0.020	< 1	< 5	< 0.020	< 0.020	0.2	< 2.5	< 0.020	**0.88**	**0.38**	< 0.020	< 0.020	0.005
	10/5/2011+	Endyne	see note [v8]	< 1	< 2	5	0.027	< 1	< 5	0.028	< 0.020	< 0.2	< 2.5	0.027	**2.0**	0.03	**0.028**	< 0.020	< 0.020
Duplicate	10/5/2011+	Endyne	see note [v8]	< 1	< 2	< 5	0.025	< 1	< 5	< 0.020	< 0.020	< 0.2	< 2.5	0.025	**2.2**	**0.032**	< 0.020	< 0.020	< 0.020
	5/2/2012+	Endyne	see note [n10]	< 1	< 2	< 5	< 0.020	< 1	< 5	< 0.020	< 0.020	< 0.2	< 2.5	< 0.020	**3.6**	0.058	< 0.020	< 0.020	< 0.020
Duplicate	5/2/2012+	Endyne	see note [o10]	< 1	< 2	< 5	< 0.020	**2**	< 5	< 0.020	< 0.020	< 0.2	< 2.5	< 0.020	**3.5**	**0.35**	< 0.020	< 0.020	< 0.020
	10/2/2012+	Endyne	see note [o10]	< 1	< 2	< 5	< 0.020	< 1	< 5	< 0.020	< 0.020	< 0.2	< 2.5	< 0.020	**2.3**	< 0.020	< 0.020	< 0.020	< 0.020
Duplicate	10/2/2012+	Endyne	see note [o10]	< 1	< 2	< 5	< 0.020	< 1	< 5	< 0.020	< 0.020	< 0.2	< 2.5	< 0.020	**2.4**	< 0.020	< 0.020	< 0.020	< 0.020
	5/8/2013+	Endyne	see note [o10]	< 1	< 2	< 5	< 0.020	< 1	< 5	< 0.020	< 0.020	< 0.2	< 2.5	< 0.020	**2.6**	< 0.020	< 0.020	< 0.020	< 0.020
	10/8/2013+	Endyne	see note [z11]	**28**	< 2	27	0.023	12	56	**1.000**	0.120	< 0.2	< 2.5	< 0.023	**33.0**	0.036	**1.000**	**0.120**	0.061
Duplicate	10/8/2013+	Endyne	see note [a12]	**27**	< 2	30	0.026	13	64	**1.100**	0.110	< 0.2	< 2.5	< 0.026	**37.0**	0.024	**1.100**	**0.110**	0.070
	5/6/2014+	Endyne	see note [t9]	**8**	< 2	< 5	< 0.020	< 1	< 5	**0.220**	0.069	< 0.2	< 2.5	< 0.020	**1.6**	0.034	**0.220**	**0.069**	< 0.020
	10/6/2014+	Endyne	see note [010]	**9**	< 2	7	< 0.020	< 1	6	0.110	0.065	< 0.2	2.8	< 0.020	**0.41**	0.031	**0.110**	**0.065**	< 0.020
See notes [3] and [4] below.																			
Normal Distribution?															No	Yes	No	No	
Transformation Closest to Normal															Ln		Ln	Ln	
Does Transformation Produce Normality?															Yes		Yes	No	
Mean of Transformed Data															1.32		-2.92	-3.51	
Mean of Untransformed Data																0.10			
Std. Dev. of Transformed Data															1.13		1.34	0.66	
Std. Dev. of Untransformed Data																0.12			
n															18	18	18	18	
Student's t-value (one-tailed)															1.73	1.73	1.73	1.73	
Upper 95% Confidence Value															5.916	0.151	0.094	0.039	
Lower 95% Confidence Value															**2.354**	0.053	**0.031**	0.023	

[1] VT GES = VT Groundwater Enforcement Standards and Preventive Action Levels from Table 1, Groundwater Protection Rule & Strategy (GWPRS), 2005.

[2] From December 2002 Vermont Department of Health Drinking Water Guidance.

* Bold values exceed Vermont Preventive Action Level

** Shaded values exceed Vermont GES, as set by Vermont GWPRS, 2005.

*** As of 2/26/2007, the Primary Vermont Groundwater Enforcement Standard for Manganese was changed from 0.840 mg/L to 0.300 mg/L.

The < values listed here are the reported detection limit.

[a] through [u3]: See last page of inorganic data for additional notes.

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Archived data has not been included in statistical analyses since 5/15/1998.

[4] For Fe and Mn only, requirement since 5/15/1998 is to analyze for both total and dissolved forms. The dissolved archived data are not included in the statistical analyses to give consistency between dissolved and total Mn & Fe as prior to 5/98, samples were not analyzed for total and dissolved metals on the same date. This gives consistency of comparisons between dissolved and total Fe and Mn.

-Could not get pump to stabilize flow rate for proper low-flow sampling, sample taken before reading stabalized

+MW sampling utilized low-flow technology at the request of the State when sufficient water was available.

NEWSVT Landfills
Coventry, Vermont
Groundwater Analyses
Inorganics

					Primary Groundwater Quality Parameters [1]									Secondary Groundwater Quality Parameters [2]						
					Total Arsenic (ug/L)	Total Cadmium (ug/L)	Total Chromium (ug/L)	Total Copper (mg/L)	Total Lead (ug/L)	Total Nickel (ug/L)	Total Manganese*** (mg/L)	Dissolved Manganese*** (mg/L)	Total Mercury (ug/L)	Total Chloride (mg/L)	Total Copper (mg/L)	Total Iron (mg/L)	Dissolved Iron (mg/L)	Total Manganese (mg/L)	Dissolved Manganese (mg/L)	Total Zinc (mg/L)
	VT GES**[1]				10.0	5.0	100.0	1.300	15.0	100.0	0.300	0.300	2.0	250	1.0	0.3	0.3	0.05	0.05	5
	VT Preventive Action Level* [1]				1.0	2.5	50.0	0.650	1.5	50.0	0.150	0.150	0.5	125	0.5	0.15	0.15	0.025	0.025	2.5
	VT Health Advisory [2]				None	None	None	1.300	15	100	0.300	0.300	None	250	1.0	0.3	0.3	0.05	0.05	5
	Federal MCL [2]				10	5	100	None	None	None	None	None	2	None	None	None	None	None	None	None
Well	Date	Lab	Remarks																	
MW-801D-R	5/6/2008	Endyne	see note	[q3]	**6**	< 2	< 20	< 0.020	**2**	< 20	**0.250**	0.120	< 1	2.70	< 0.020	**6.4**	**0.27**	**0.250**	**0.120**	< 0.020
	10/6/2008	Endyne	see note	[q4]	**11**	< 2	< 20	< 0.020	< 1	< 20	0.150	0.110	< 1	14.00	< 0.020	**2.5**	0.097	**0.150**	**0.110**	< 0.020
	5/6/2009	Endyne	see note	[r5]	< 2	< 2	< 20	< 0.020	< 1	< 20	0.037	0.120	< 1	< 2.5	< 0.020	**8.1**	**0.9**	**0.037**	**0.120**	< 0.020
	10/6/2009	Endyne	see note	[r6]	**11**	< 2	< 20	< 0.020	< 1	< 20	0.093	0.078	< 1	7.3	< 0.020	**0.57**	0.13	**0.093**	**0.078**	< 0.020
	5/3/2010	Endyne	see note	[q7]	**6**	< 2	6	< 0.020	< 1	< 5	0.110	0.100	< 1	2.5	< 0.020	**0.97**	0.15	**0.110**	**0.100**	< 0.050
	10/5/2010	Endyne	see note	[l8]	**10**	< 2	9	< 0.020	< 1	10	**0.160**	0.100	< 0.2	< 2.5	< 0.020	**3.7**	0.091	**0.160**	**0.100**	0.013
	5/4/2011	Endyne	see note	[v8]	**4**	< 2	< 5	< 0.020	< 1	< 5	0.110	0.095	< 0.2	< 2.5	< 0.020	0.077	0.044	**0.110**	**0.095**	< 0.005
	10/4/2011-	Endyne	see note	[v8]	**9**	< 2	11	0.038	1	9	0.092	0.024	< 0.2	< 2.5	0.038	**0.74**	0.029	**0.092**	0.024	< 0.020
	5/2/2012+	Endyne	see note	[n10]	**7**	< 2	< 5	< 0.020	< 1	< 5	0.089	0.085	< 0.2	< 2.5	< 0.020	**0.20**	0.054	**0.089**	**0.085**	< 0.020
	10/2/2012+	Endyne	see note	[t10]	**9**	< 2	< 5	< 0.020	< 1	< 5	0.130	0.071	< 0.2	< 2.5	< 0.020	**0.48**	< 0.020	**0.130**	**0.071**	< 0.020
	5/8/2013+	Endyne	see note	[o10]	**8**	< 2	14	< 0.020	< 1	8	0.052	< 0.020	< 0.2	< 2.5	< 0.020	**0.89**	0.030	**0.052**	< 0.020	< 0.020
	10/8/2013+	Endyne	see note	[o10]	< 1	< 2	< 5	< 0.020	< 1	< 5	0.027	< 0.020	< 0.2	< 2.5	< 0.020	**4.60**	0.053	**0.027**	< 0.020	< 0.020
	5/6/2014+	Endyne	see note	[o10]	< 1	< 2	< 5	< 0.020	< 1	< 5	< 0.020	< 0.020	< 0.2	< 2.5	< 0.020	**2.40**	0.022	< 0.020	< 0.020	< 0.020
	10/6/2014+	Endyne	see note	[o10]	< 1	< 2	< 5	< 0.020	< 1	< 5	< 0.020	< 0.020	< 0.2	2.5	< 0.020	**2.30**	0.049	< 0.020	< 0.020	< 0.020
	See notes [3] and [4] below.																			
	Normal Distribution?				Yes											Yes	Yes	Yes	Yes	
	Transformation Closest to Normal																			
	Does Transformation Produce Normality?																			
	Mean of Transformed Data																			
	Mean of Untransformed Data				6.14											2.42	0.14	0.10	0.07	
	Std. Dev. of Transformed Data																			
	Std. Dev. of Untransformed Data				3.76											2.47	0.23	0.06	0.04	
	n				14											14	14	14	14	
	Student's t-value (one-tailed)				1.75											1.75	1.75	1.75	1.75	
	Upper 95% Confidence Value				7.904											3.581	0.246	0.126	0.089	
	Lower 95% Confidence Value				**4.382**											**1.266**	0.031	**0.065**	**0.051**	

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* Bold values exceed Vermont Preventive Action Level

** Shaded values exceed Vermont GES, as set by Vermont GWPRS, 2005.

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-Could not get pump to stabilize flow rate for proper low-flow sampling, sample taken before reading stabalized

+MW sampling utilized low-flow technology at the request of the State when sufficient water was available.

NEWSVT Landfills
Coventry, Vermont
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				Primary Groundwater Quality Parameters [1]									Secondary Groundwater Quality Parameters [2]						
				Total Arsenic (ug/L)	Total Cadmium (ug/L)	Total Chromium (ug/L)	Total Copper (mg/L)	Total Lead (ug/L)	Total Nickel (ug/L)	Total Manganese*** (mg/L)	Dissolved Manganese*** (mg/L)	Total Mercury (ug/L)	Total Chloride (mg/L)	Total Copper (mg/L)	Total Iron (mg/L)	Dissolved Iron (mg/L)	Total Manganese (mg/L)	Dissolved Manganese (mg/L)	Total Zinc (mg/L)
	VT GES**[1]			10.0	5.0	100.0	1.300	15.0	100.0	0.300	0.300	2.0	250	1.0	0.3	0.3	0.05	0.05	5
	VT Preventive Action Level* [1]			1.0	2.5	50.0	0.650	1.5	50.0	0.150	0.150	0.5	125	0.5	0.15	0.15	0.025	0.025	2.5
	VT Health Advisory [2]			None	None	None	1.300	15	100	0.300	0.300	None	250	1.0	0.3	0.3	0.05	0.05	5
	Federal MCL [2]			10	5	100	None	None	None	None	None	2	None	None	None	None	None	None	None
Well	Date	Lab	Remarks																
MW-804SR*	10/4/2005	Endyne	see note [jj]	**2**	< 2	< 10	< 0.010	< 10	< 20	0.108	0.107	< 1	20.30	< 0.010	**0.875**	< 0.010	**0.108**	**0.107**	< 0.020
	5/2/2006	Endyne	see note [xx]	**79**	**3**	**219**	0.144	**69**	**348**	**4.880**	0.093	< 1	14.9	0.144	**170.00**	< 0.010	**4.880**	**0.093**	0.392
	10/3/2006	Endyne	see note [rrr]	< 2	< 2	< 20	< 0.020	**2**	< 20	< 0.020	< 0.020	< 1	14.3	< 0.020	**0.477**	< 0.020	< 0.020	< 0.020	< 0.020
	5/1/2007	Endyne	see note [r1]	< 2	< 2	< 20	< 0.020	**2**	< 20	0.055	< 0.020	< 1	12.9	< 0.020	**2.08**	0.032	**0.055**	< 0.020	< 0.020
	5/1/2007	Endyne	duplicate [w1]	< 2	< 2	< 20	< 0.020	**4**	< 20	0.070	< 0.020	< 1	12.6	< 0.020	**2.41**	< 0.020	**0.070**	< 0.020	< 0.020
	10/4/2007	Endyne	see note [q2]	< 2	< 2	< 20	< 0.020	< 1	< 20	< 0.020	< 0.020	< 1	15.0	< 0.020	**0.183**	< 0.031	< 0.020	< 0.020	< 0.020
Duplicate	10/4/2007	Endyne	see note [q2']	< 2	< 2	< 20	< 0.020	< 1	< 20	< 0.020	< 0.020	< 1	15.0	< 0.020	**0.250**	< 0.020	< 0.020	< 0.020	< 0.020
	5/6/2008	Endyne	see note [s3]	< 2	< 2	< 20	< 0.020	< 1	< 20	0.058	< 0.020	< 1	13.0	< 0.020	**2.200**	0.033	**0.058**	< 0.020	< 0.020
	10/6/2008	Endyne	see note [s4]	< 2	< 2	< 20	< 0.020	< 1	< 20	0.054	0.025	< 1	< 2.5	< 0.020	**2.100**	0.026	**0.072**	< 0.020	< 0.020
	5/6/2009	Endyne	see note [t5]	**52**	**4**	**130**	0.100	**74**	24	**3.3**	**0.51**	< 1	15.0	0.100	**120**	**7.7**	**3.3**	**0.510**	0.260
	10/6/2009	Endyne	see note [t6]	**22**	< 2	**57**	0.035	**30**	10	**1.4**	0.035	< 1	15.0	0.035	**48**	**0.59**	**1.4**	**0.035**	0.110
	5/4/2010	Endyne	see note [s7]	**35**	< 2	**190**	0.170	**140**	**350**	**5**	< 0.020	< 0.1	12.0	0.170	**130**	**0.18**	**5**	< 0.020	0.360
	10/5/2010	Endyne	see note [n8]	**22**	2	**71**	0.054	**31**	**100**	**1.4**	< 0.020	< 0.2	13.0	0.054	**53**	0.067	**1.4**	< 0.020	0.130
	5/4/2011	Endyne	see note [f9]	**15**	**4**	**65**	0.073	**27**	**180**	**5.1**	**0.390**	0.4	6.3	0.073	**36**	**3.6**	**5.1**	**0.390**	0.160
	10/3/2011+	Endyne	see note [r9]	**3**	**6**	12	< 0.020	**4**	11	0.14	< 0.020	< 0.2	2.5	< 0.020	**6**	0.099	**0.14**	< 0.020	0.021
	5/2/2012+	Endyne	see note [y8]	1	2	< 5	< 0.020	**4**	< 5	0.044	< 0.020	< 0.2	9.0	< 0.020	**1.6**	< 0.020	**0.044**	< 0.020	< 0.020
	10/2/2012+	Endyne	see note [f11]	< 1	< 2	< 5	< 0.020	< 1	< 5	0.047	< 0.020	< 0.2	18.0	< 0.020	**1.3**	< 0.020	**0.047**	< 0.020	< 0.020
	5/9/2013+	Endyne	see note [010]	< 1	< 2	< 5	< 0.020	< 1	< 5	< 0.020	< 0.020	< 0.2	11.0	< 0.020	0.080	< 0.020	< 0.020	< 0.020	< 0.020
	10/9/2013+	Endyne	see note [010]	< 1	< 2	< 5	< 0.020	< 1	< 5	< 0.020	< 0.020	< 0.2	7.9	< 0.020	0.130	< 0.020	< 0.020	< 0.020	< 0.020
	5/8/2014+	Endyne	see note [010]	< 1	< 2	< 5	< 0.020	< 1	< 5	< 0.020	< 0.020	< 0.2	< 2.5	< 0.020	0.033	< 0.020	< 0.020	< 0.020	< 0.020
Duplicate	5/8/2014+	Endyne	see note [010]	< 1	< 2	< 5	< 0.020	< 1	< 5	< 0.020	< 0.020	< 0.2	< 2.5	< 0.020	0.025	< 0.020	< 0.020	< 0.020	< 0.020
	10/7/2014+	Endyne	see note [n12]	1	< 2	8	< 0.020	1	7	0.080	< 0.020	< 0.2	11.0	< 0.020	**2.800**	< 0.020	**0.080**	< 0.020	< 0.020
See notes [3] and [4] below.																			
Normal Distribution?				No	No	No		No	No	No	No				No	No	No	No	
Transformation Closest to Normal				Ln	Ln	Ln		Ln	Ln	Ln	Ln				LN	Ln	Ln	Ln	
Does Transformation Produce Normality?				No	No	No		Yes	Yes	Yes	Yes				Yes	No	Yes	Yes	
Mean of Transformed Data				1.25	0.82	2.98		1.43	2.95	-2.04	-3.45				0.79	-3.01	-2.04	-3.45	
Mean of Untransformed Data																			
Std. Dev. of Transformed Data				1.46	0.30	1.22		1.72	1.33	2.08	0.98				2.68	1.78	2.08	0.98	
Std. Dev. of Untransformed Data																			
n				22	22	22		22	22	22	22				22	22	22	22	
Student's t-value (one-tailed)				1.71	1.71	1.71		1.71	1.71	1.71	1.71				1.71	1.71	1.71	1.71	
Upper 95% Confidence Value				5.924	2.55	30.68		7.83	31.16	0.28	0.045				5.85	0.094	0.28	0.045	
Lower 95% Confidence Value				**2.040**	2.04	12.54		**2.23**	11.77	0.061	0.022				**0.823**	0.026	**0.061**	0.022	

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* Bold values exceed Vermont Preventive Action Level

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NEWSVT Landfills
Coventry, Vermont
Groundwater Analyses
Inorganics

				Primary Groundwater Quality Parameters [1]									Secondary Groundwater Quality Parameters [2]						
				Total Arsenic	Total Cadmium	Total Chromium	Total Copper	Total Lead	Total Nickel	Total Manganese***	Dissolved Manganese***	Total Mercury	Total Chloride	Total Copper	Total Iron	Dissolved Iron	Total Manganese	Dissolved Manganese	Total Zinc
				(ug/L)	(ug/L)	(ug/L)	(mg/L)	(ug/L)	(ug/L)	(mg/L)	(mg/L)	(ug/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
	VT GES**[1]			10.0	5.0	100.0	1.300	15.0	100.0	0.300	0.300	2.0	250	1.0	0.3	0.3	0.05	0.05	5
	VT Preventive Action Level* [1]			1.0	2.5	50.0	0.650	1.5	50.0	0.150	0.150	0.5	125	0.5	0.15	0.15	0.025	0.025	2.5
	VT Health Advisory [2]			None	None	None	1.300	15	100	0.300	0.300	None	250	1.0	0.3	0.3	0.05	0.05	5
	Federal MCL [2]			10	5	100	None	None	None	None	None	2	None	None	None	None	None	None	None
Well	Date	Lab	Remarks																
MW-805S	12/28/2001		see note [z]	**78**	< 3	39	0.035	**10**	**70**	**1.200**	0.116	< 2	3.19	0.035	**31.4**	0.021	**1.200**	**0.116**	0.076
	1/15/2002		see note [r]	< 2	< 3	< 10	< 0.010	<2	< 20	0.018		< 1	2.08	< 0.010	**0.229**		0.018		0.023
	1/25/2002		see note [r]	< 2	< 3	< 10	< 0.010	<2	< 20	0.016		< 1	2.50	< 0.010	**0.376**		0.016		0.026
	2/6/2002		see note [aa]	**26**	< 3	**95**	0.065	**24**	**122**	**1.62**	< 0.005	< 1	< 2.50	0.065	**58.1**	< 0.010	**1.62**	< 0.005	0.191
	10/28/2004	Endyne	see note [g]	**11**	**4**	34	0.026	**11**	46	**0.623**	< 0.005	< 1	3.02	0.026	**26.3**	< 0.010	**0.623**	< 0.005	0.116
	5/3/2005	Endyne	see note [bb]	**7**	< 3	21	0.017	**7**	20	**0.305**	< 0.005	< 1	3.17	0.017	**14.8**	< 0.010	**0.305**	< 0.005	0.041
	10/4/2005	Endyne	see note [a]	**3**	< 2	13	< 0.010	< 10	< 20	0.043	< 0.005	< 1	2.87	< 0.010	**1.60**	< 0.010	**0.043**	< 0.005	< 0.020
	5/2/2006	Endyne	see note [mm]	**47**	**5**	**218**	0.117	**47**	**298**	**3.760**	< 0.005	< 1	< 3.05	0.117	**144.00**	< 0.010	**3.760**	< 0.005	0.364
	10/3/2006	Endyne	see note [ttt]	**21**	< 2	**70**	0.032	**16**	**92**	**1.010**	< 0.020	< 1	2.73 M-	0.032	**42.80**	< 0.020	**1.010**	< 0.020	0.113
	5/1/2007	Endyne	see note [s1]	**5**	< 2	29	< 0.020	**5**	31	**0.355**	< 0.020	< 1	3.62	< 0.020	**13.40**	0.081	**0.355**	< 0.020	0.042
	10/4/2007	Endyne	see note [r2]	**6**	< 2	< 20	0.033	**15**	41	**1.910**	< 0.020	< 1	3.10	0.033	**6.06**	0.060	**1.910**	< 0.020	0.057
	5/6/2008	Endyne	see note [t3]	**8**	< 2	24	< 0.020	**2**	< 20	0.130	< 0.020	< 1	3.00	< 0.020	**4.80**	0.026	**0.130**	< 0.020	< 0.020
	10/6/2008	Endyne	see note [t4]	**11**	< 2	44	0.04	**10**	**72**	**0.890**	< 0.020	< 1	3.20	0.04	**32.00**	**0.220**	**0.890**	< 0.020	0.090
	5/6/2009	Endyne	see note [u5]	**31**	< 2	**170**	0.14	**99**	35	**4.3**	**4.6**	< 1	3.80	0.14	**160**	**110**	**4.3**	**4.6**	0.390
	10/6/2009	Endyne	see note [u6]	**8**	< 2	35	< 0.020	**9**	**51**	**0.6**	< 0.020	< 1	3.20	< 0.020	**23**	0.034	**0.6**	< 0.020	0.057
	5/4/2010	Endyne	see note [t7]	**16**	< 2	7.5	0.054	**24**	**110**	**1.4**	< 0.020	< 0.1	3.30	< 0.054	**49**	0.066	**1.4**	< 0.020	0.140
	10/5/2010	Endyne	see note [o8]	**23**	< 2	**97**	0.074	**31**	**150**	**1.9**	< 0.020	< 0.2	3.40	0.074	**76**	0.092	**1.9**	< 0.020	0.180
	5/4/2011	Endyne	see note	< 1	< 2	6	0.020	< 1	< 5	< 0.020	< 0.020	< 0.2	4.50	< 0.020	0.12	0.027	< 0.020	< 0.020	< 0.005
	6/20/2011 [5]	Endyne	see note [v8]	< 1	< 2	5	< 0.020	1	< 5	< 0.020	< 0.020	< 0.2	5.10	< 0.020	**0.48**	0.032	< 0.020	< 0.020	< 0.005
	10/4/2011^	Endyne	see note [s9]	**120**	< 2	**310**	0.190	< 1	**470**	**4.7**	0.085	0.3	6.00	0.190	**240**	**3**	**4.7**	**0.085**	0.600
	5/2/2012^	Endyne	see note [p10]	**6**	< 2	14	< 0.020	**19**	16	**0.21**	< 0.020	< 0.2	6.10	< 0.020	**7.6**	0.079	**0.21**	< 0.020	0.025
	10/2/2012^	Endyne	see note [b11]	**72**	< 5	**210**	0.160	**13**	**370**	**4.5**	0.021	**2.2**	**700**	0.160	**240.0**	**0.790**	**4.5**	0.021	0.440
	5/9/2013^/	Endyne	see note [k11]	**510**	**100**	**1100**	**0.960**	**760**	**2000**	**37.0**	**0.170**	**1.5**	3.90	**0.960**	**1600**	**4.900**	**37.0**	**0.170**	2.400
	10/10/2013^	Endyne	see note [u11]	**35**	< 2	**66**	0.061	**34**	**160**	**2.0**	0.032	< 0.2	3.50	0.061	**89**	**0.250**	**2.0**	**0.032**	0.200
	5/7/2014^	Endyne	see note [e12]	**5**	< 2	17	< 0.020	**4**	16	**0.23**	< 0.020	< 0.2	4.00	< 0.020	**10**	0.047	**0.23**	< 0.020	0.020
	10/7/2014^	Endyne	see note [k12]	**2**	< 2	7	< 0.020	**1.7**	< 5	0.043	< 0.020	< 0.2	9.50	< 0.020	**1.7**	0.048	**0.043**	< 0.020	< 0.020
	See notes [3] and [4] below.																		
	Normal Distribution?			No		No		No	No	No	No				No	No	No	No	
	Transformation Closest to Normal			Ln		Ln		Ln	Ln	Ln	sqrt				Ln	Ln	Ln	sqrt	
	Does Transformation Produce Normality?			Yes		Yes		Yes	Yes	Yes	No				Yes	Yes	Yes	No	
	Mean of Transformed Data			2.45		3.59		2.25	3.92	-0.70	0.22				2.73	-2.49	-0.70	0.22	
	Mean of Untransformed Data																		
	Std. Dev. of Transformed Data			1.53		1.37		1.55	1.46	2.06	0.40				2.35	2.28	2.06	0.40	
	Std. Dev. of Untransformed Data																		
	n			26		26		26	26	26	24				26	24	26	24	
	Student's t-value (one-tailed)			1.70		1.70		1.70	1.70	1.70	1.71				1.70	1.71	1.70	1.71	
	Upper 95% Confidence Value			19.222		57.11		15.87	81.83	0.988	0.13				33.56	0.18	0.988	0.13	
	Lower 95% Confidence Value			**6.93**		22.91		**5.65**	30.79	**0.250**	0.006				**6.97**	0.04	**0.250**	0.006	

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[5] Re-sampling was conducted on 6/20/11 due to questionable results from 5/4/11

^ Insufficient water to low-flow well, grab sample obtained

/ COD sample not preserved to pH<2 qualified by lab for several ICP metal values due to inter-element interfrenece from sample matrix due to significant amount of sediment, see lab report

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Inorganics

				Primary Groundwater Quality Parameters [1]									Secondary Groundwater Quality Parameters [2]						
				Total Arsenic (ug/L)	Total Cadmium (ug/L)	Total Chromium (ug/L)	Total Copper (mg/L)	Total Lead (ug/L)	Total Nickel (ug/L)	Total Manganese*** (mg/L)	Dissolved Manganese*** (mg/L)	Total Mercury (ug/L)	Total Chloride (mg/L)	Total Copper (mg/L)	Total Iron (mg/L)	Dissolved Iron (mg/L)	Total Manganese (mg/L)	Dissolved Manganese (mg/L)	Total Zinc (mg/L)
	VT GES**[1]			10.0	5.0	100.0	1.300	15.0	100.0	0.300	0.300	2.0	250	1.0	0.3	0.3	0.05	0.05	5
	VT Preventive Action Level* [1]			1.0	2.5	50.0	0.650	1.5	50.0	0.150	0.150	0.5	125	0.5	0.15	0.15	0.025	0.025	2.5
	VT Health Advisory [2]			None	None	None	1.300	15	100	0.300	0.300	None	250	1.0	0.3	0.3	0.05	0.05	5
	Federal MCL [2]			10	5	100	None	None	None	None	None	2	None	None	None	None	None	None	None
Well	Date	Lab	Remarks																
DW 8519	10/28/2004	Endyne	see note [a]	**3**	< 3	< 10	< 0.010	< 2	< 20	**0.242**	**0.254**	< 1	**239**	< 0.010	0.102	< 0.010	**0.242**	**0.254**	0.027
(St. Onge	5/3/2005	Endyne	see note [bb]	< 2	< 3	< 10	< 0.010	< 2	< 20	**0.215**	**0.231**	< 1	**252**	< 0.010	**0.170**	< 0.010	**0.215**	**0.231**	0.026
1999 Well)	10/4/2005	Endyne	see note [jj]	**15**	< 2	< 10	0.041	**32**	< 20	**0.259**	**0.268**	< 1	**284**	0.041	0.129	< 0.010	**0.259**	**0.268**	< 0.020
St. Onge Farm	5/2/2006	Endyne	see note [bbb]	**10**	< 2	< 10	0.035	< 10	< 20	0.039	0.037	< 1	**231**	0.035	0.031	< 0.010	**0.039**	**0.037**	< 0.020
Well (2005)	10/3/2006	Endyne	see note [vvv]	**28**	< 2	< 20	0.026	< 1	< 20	0.112	0.116	< 1	**326**	0.026	0.105	< 0.020	**0.112**	**0.116**	< 0.020
(#36516)	5/1/2007	Endyne	see note [t1]	**8**	< 2	< 2	< 0.020	< 1	< 20	< 0.020	< 0.020	< 1	**141**	< 0.020	0.107	0.087	< 0.020	< 0.020	< 0.020
	10/4/2007	Endyne	see note [s2]	**9**	< 2	< 20	< 0.020	< 1	< 20	0.106	0.106	< 1	**350**	< 0.020	0.077	< 0.020	**0.106**	**0.106**	0.108
	5/6/2008	Endyne	see note [u3]	**9**	< 2	< 20	< 0.020	< 1	< 20	< 0.020	< 0.020	< 1	**160**	< 0.020	**0.180**	< 0.027	< 0.020	< 0.020	< 0.020
	10/6/2008	Endyne	see note [u4]	**21**	< 2	< 20	0.069	**5**	< 20	0.024	0.031	< 1	**340**	0.069	**0.770**	< 0.022	0.024	**0.031**	< 0.020
	5/6/2009	Endyne	see note [v5]	**10**	< 2	< 20	< 0.020	1	< 20	< 0.020	< 0.020	< 1	68	< 0.020	**0.840**	0.033	< 0.020	< 0.020	< 0.020
duplicate	5/6/2009	Endyne	see note [w5]	**9**	< 2	< 20	< 0.020	< 1	< 20	< 0.020	< 0.020	< 1	83	< 0.020	**0.760**	0.032	< 0.020	< 0.020	< 0.020
	10/6/2009	Endyne	see note [v6]	**9**	< 2	< 20	< 0.020	< 1	< 20	< 0.020	< 0.020	< 1	**260**	< 0.020	**0.170**	0.037	< 0.020	< 0.020	< 0.020
	5/4/2010	Endyne	see note [u7]	**11**	< 2	< 5	0.033	1	< 5	< 0.020	< 0.020	< 1	**140**	0.033	**0.370**	0.035	< 0.020	< 0.020	< 0.005
duplicate	5/4/2010	Endyne	see note [v7]	**7**	< 2	< 5	< 0.020	1	< 5	< 0.020	< 0.020	< 1	**150**	< 0.020	**0.260**	< 0.020	< 0.020	< 0.020	0.008
	10/5/2010	Endyne	see note [p8]	**8**	< 2	< 5	< 0.020	< 1	< 5	0.036	0.039	< 0.200	**210**	< 0.020	**0.350**	**0.330**	**0.036**	**0.039**	0.036
	5/4/2011	Endyne	see note [g]9	**9**	< 2	< 5	0.049	< 1	< 5	< 0.020	< 0.020	0.2	120	0.049	0.085	< 0.020	< 0.020	< 0.020	0.006
	10/5/2011	Endyne	see note [t9]	**9**	< 2	< 5	< 0.020	< 1	< 5	0.029	0.024	< 0.2	**200**	< 0.020	0.150	0.054	**0.029**	0.024	< 0.020
	5/3/2012	Endyne	see note [q10]	**11**	< 2	< 5	< 0.020	< 1	< 5	0.033	0.035	< 0.2	**220**	< 0.020	0.088	< 0.020	**0.033**	**0.035**	< 0.020
	10/3/2012	Endyne	see note [d11]	**13**	< 2	< 5	< 0.020	< 1	< 5	0.089	0.100	< 0.2	**250**	< 0.020	**0.180**	< 0.020	**0.089**	**0.100**	< 0.020
	5/8/2013	Endyne	see note [n11]	**11**	< 2	< 5	< 0.020	< 1	< 5	0.028	0.031	< 0.2	**210**	< 0.020	0.093	< 0.020	**0.028**	**0.031**	< 0.020
	10/9/2013	Endyne	see note [y11]	**10**	< 2	< 5	< 0.020	< 1	< 5	0.032	0.034	< 0.2	**220**	< 0.020	0.085	< 0.020	**0.032**	**0.034**	< 0.020
	5/8/2014	Endyne	see note [n11]	**11**	< 2	< 5	< 0.020	< 1	< 5	0.024	0.021	< 0.2	**170**	< 0.020	**0.200**	< 0.020	0.024	0.021	< 0.020
	10/8/2014	Endyne	see note [l12]	**11**	< 2	< 5	< 0.020	1	< 5	0.034	0.033	< 0.2	**180**	< 0.020	0.150	< 0.020	**0.034**	**0.033**	< 0.020
See notes [3] and [4] below.																			
Normal Distribution?				No				No					Yes		No	No	No	No	
Transformation Closest to Normal				Ln				Ln							Ln	Ln	Ln	Ln	
Does Transformation Produce Normality?				Yes				No							Yes	Yes	Yes	Yes	
Mean of Transformed Data				2.24				0.38							-1.79	-3.69	-3.21	-3.19	
Mean of Untransformed Data													208.87						
Std. Dev. of Transformed Data				0.53				0.89							0.81	0.77	0.88	0.90	
Std. Dev. of Untransformed Data													75.53						
n				23				23					23		23	23	23	23	
Student's t-value (one-tailed)				1.71				1.71					1.71		1.71	1.71	1.71	1.71	
Upper 95% Confidence Value				11.39				2.01					235.82		0.22	0.03	0.06	0.06	
Lower 95% Confidence Value				**7.81**				1.065					**181.92**		0.126	0.019	**0.030**	**0.030**	

[1] VT GES = VT Groundwater Enforcement Standards and Preventive Action Levels from Table 1, Groundwater Protection Rule & Strategy (GWPRS), 2005.

[2] From December 2002 Vermont Department of Health Drinking Water Guidance.

* Bold values exceed Vermont Preventive Action Level

** Shaded values exceed Vermont GES, as set by Vermont GWPRS, 2005.

*** As of 2/26/2007, the Primary Vermont Groundwater Enforcement Standard for Manganese was changed from 0.840 mg/L to 0.300 mg/L.
The < values listed here are the reported detection limit.

[a] through [u3]: See last page of inorganic data for additional notes.

[3] Statistical analyses are conducted only on data since 5/15/1998, when requirement changed to TOTAL metals instead of dissolved metals, except for Mn & Fe (see note below).
Archived data has not been included in statistical analyses since 5/15/1998.

[4] For Fe and Mn only, requirement since 5/15/1998 is to analyze for both total and dissolved forms. The dissolved archived data are not included in the statistical analyses to give consistency between dissolved and total Mn & Fe as prior to 5/98, samples were not analyzed for total and dissolved metals on the same date. This gives consistency of comparisons between dissolved and total Fe and Mn.

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Coventry, Vermont
Footnotes to Inorganic Groundwater Summary Tables

[a] Analysis also included: Total Antimony < 4ug/l, Total Beryllium < 5 ug/l, Total Cobalt < 20 ug/l, Total Selenium < 5 ug/l, Total Silver < 10 ug/l, Total Thallium < 2 ug/l, Total Vanadium < 50 ug/l
[b] Analysis also included: Total Antimony < 4ug/l, Total Beryllium < 2 ug/l, Total Cobalt < 10 ug/l, Total Selenium < 5 ug/l, Total Silver < 10 ug/l, Total Thallium < 1 ug/l, Total Vanadium < 10 ug/l
[c] Note b except Total Cobalt detected above detection limit of 10 ug/l.
[d] Analysis also included: Total Antimony < 4ug/l, Total Beryllium < 2 ug/l, Total Cobalt < 10 ug/l, Total Selenium < 5 ug/l, Total Silver < 10 ug/l, Total Thallium < 1 ug/l, Total Vanadium < 20 ug/l
[e] Note d except Total Cobalt detected above detection limit of 10 ug/l.
[f] Analysis also included: Total Antimony < 2ug/l, Total Beryllium < 2 ug/l, Total Cobalt < 10 ug/l, Total Selenium < 5 ug/l, Total Silver < 10 ug/l, Total Thallium < 1 ug/l, Total Vanadium < 20 ug/l
[g] Note f except Total Cobalt and Total Vanadium detected above detection limit of 10 ug/l.
[h] Note f except Total Cobalt detected above detection limit of 10 ug/l.
[i] Analysis also included: Total Antimony < 2ug/l, Total Beryllium < 2 ug/l, Total Cobalt < 10 ug/l, Total Selenium < 5 ug/l, Total Thallium < 1 ug/l, Total Vanadium < 20 ug/l
[j] Note i except Total Cobalt and Total Vanadium detected above detection limit of 10 ug/l.
[k] Note i except Total Vanadium detected above detection limit of 10 ug/l.
[l] Note i except total cobalt detected above detection limit of 10 ug/l.
[m] Note d except Total Cobalt, Total Vanadium and Selenium detected above detection limits.
[n] Note a except Total Barium & Chromium detected above detection limits.
[o] Note a except Total Beryllium, Cobalt and Vanadium detected above detection limits.
[p] Analysis also included: Total Barium detected above detection limit

[q] Arsenic detected above detection limit, analysis also included: Total Barium <20 ug/l, Total Cadmium <3 ug/l, total Chromium <10 ug/l, Total Copper <0.010 ug/l, Total Lead <2 ug/l, Total Nickel <20 ug/l, Total Zinc <0.020 ug/l
[r] Analysis also included: Total Barium <20 ug/l
[s] Analysis also included: Total Antimony < 2 ug/l, Total Beryllium <4 ug/l, Total Cobalt <10 ug/l, total selenium<5 ug/l, Total Thallium < 1 ug/l, Total Vanadium <20 ug/l
[t] Note s except Total Barium, Total Cobalt, and Total Vanadium detected above detection limit
[u] Analysis also included: Total Antimony < 2 ug/l, Total Beryllium <2 ug/l, Total Cobalt <10 ug/l, total selenium<5 ug/l, Total Thallium < 1 ug/l, Total Vanadium <20 ug/l
[v] Note p plus Dissolved Nickel <20 ug/l
[w] note u except Total Barium detected above detection limit
[x] analysis also included: Dissolved Arsenic <2 ug/l, Total Barium <20 ug/l, Dissolved Barium <20 ug/l, Dissolved Nickel <20 ug/l, Dissolved Zinc <0.020 ug/l
[y] not x except Dissolved Arsenic and Total Barium detected above detection limit
[z] note u except Total Barium, Total Cobalt, and Total Vanadium detected above detection limit
[aa] note x except Total Barium and Dissolved Copper detected above detection limit, plus Dissolved Chromium <10 ug/l, Dissolved Lead <2 ug/l

[bb] Analysis also included: Total Antimony <2 ug/l, total beryllium <2 ug/l, total barium <2 ug/l, total cobalt ,10 ug/l, total selenium , 10 ug/l, total selenium ,10 ug/l, total thallium ,1 ug/l, total vanadium , 20 ug/l
[cc] note bb except total cobalt and total barium detected above detection limit
[dd] note bb except total barium detected above detection limit
[ee] On 2/25/05 the arsenic GES decreased from 50 ug/L to 10 ug/L and the PAL decreased from 5 ug/L to 1 ug/L.
[ff] On 2/25/05 the lead PAL decreased from 5 ug/L to 1.5 ug/L.
[gg] On 2/25/05 the mercury PAL decreased from 1 ug/L to 0.5 ug/L.
[hh] Note n, and beryllium detected at detection limit.
[ii] Note r, and beryllium and cadmium detected at or above detection limit.
[jj] Analysis also included barium and beryllium above detection limit.
[b*] Analysis also included: Total Antimony < 4ug/l, Total Beryllium < 2 ug/l, Total Cobalt < 10 ug/l, Total Selenium < 5 ug/l, Total Silver < 10 ug/l, Total Thallium < 1 ug/l, Total Vanadium < 10 ug/l
[v2*] Analysis also included: Total Antimony < 2 ug/l, Total Beryllium < 2 ug/l, Total Cobalt <20 ug/l, Total Selenium <2 ug/l, Total Silver <20 ug/L, Total Thallium < 1 ug/l, Total Vanadium <20 ug/l
[w2*] Analysis also included: Total Antimony < 2 ug/l, Total Beryllium < 2 ug/l, Total Cobalt <20 ug/l, Total Selenium <2 ug/l, Total Silver <20 ug/L, Total Thallium < 1 ug/l, Total Vanadium <20 ug/l

*Sodium reported in indicator table

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Coventry, Vermont
Footnotes to Inorganic Groundwater Summary Tables

FOOTNOTES AFTER [JJJ] FOR INORGANIC GROUNDWATER SUMMARY TABLES (all values are in ug/L):

	Total Antimony	Total Barium	Total Beryllium	Total Cobalt	Total Selenium	Total Silver	Total Sodium	Total Thallium	Total Vanadium
[kk] Analysis also included	< 2		3	<10	<5			<1	21
[ll] Analysis also included	< 2		2	<10	<5			<2	<20
[mm] Analysis also included	< 2		5	69	<5			<2	135
[nn] Analysis also included	< 2		4	17	<5			<2	30
[oo] Analysis also included	< 2		6	108	<5			<2	<20
[pp] Analysis also included	< 2		6	88	<5			<2	<20
[qq] Analysis also included	< 2		3	10	<5			<2	<20
[rr] Analysis also included	< 2		3	15	<5			<2	25
[ss] Analysis also included	< 2		3	<10	<5			<2	20
[tt] Analysis also included	< 2		10	<10	<5			<2	20
[uu] Analysis also included	< 2		17	46	<5			<2	54
[vv] Analysis also included	< 2		24	72	<5			<2	127
[ww] Analysis also included	< 2		6	37	<5			<2	76
[xx] Analysis also included	< 2		20	78	<5			<2	154
[yy] Analysis also included	< 2		11	<10	<5			<2	20
[zz] Analysis also included	< 2		4	<10	<5			<2	22
[aaa] Analysis also included	< 2		2	<10	<5			<2	20
[bbb] Analysis also included	< 2		4	<10	<5			<2	20
[ccc] Analysis also included	< 2	<20	< 2	<20	<10	<20	9.44	<2	20
[ddd] Analysis also included	< 2	264	< 2	67	<10	<20	11.2	<2	96
[eee] Analysis also included	< 2	132	< 2	<20	<10	<20	112	<2	<20
[fff] Analysis also included	< 2	175	< 2	<20	<10	<20	135	<2	<20
[ggg] Analysis also included	< 2	46	< 2	<20	<10	<20	11.3	<2	<20
[hhh] Analysis also included	< 2	111	< 2	<20	<10	<20	6.16	<2	25
[iii] Analysis also included	< 2	278	< 2	<20	<10	<20	22.3	<2	<20
[jjj] Analysis also included	< 2	70	< 2	<20	<10	<20	9.61	<2	<20
[kkk] Analysis also included	< 2	24	< 2	<20	<10	<20	9.3	<2	<20
[lll] Analysis also included	< 2	181	< 2	36	<10	<20	10.3	<2	<20
[mmm] Analysis also included	< 2	228	< 2	36	<10	<20	11.5	<2	63
[nnn] Analysis also included	< 2	<20	< 2	<20	<10	<20	7.13	<2	<20
[ooo] Analysis also included	< 2	52	< 2	<20	<10	<20	4.19	<2	<20
[ppp] Analysis also included	< 2	47	< 2	<20	<10	<20	4.49	<2	<20
[qqq] Analysis also included	< 2	<20	< 2	<20	<10	<20	5.67	<2	<20
[rrr] Analysis also included	< 2	<20	< 2	<20	<10	<20	5.84	<2	<20
[sss] Analysis also included	< 2	<20	< 2	<20	<10	<20	6.93	<2	<20
[ttt] Analysis also included	< 2	169	< 2	<20	<10	<20	4.82	<2	36
[uuu] Analysis also included	< 2	86	< 2	<20	<10	<20	2.92	<2	<20
[vvv] Analysis also included	< 2	28	< 2	<20	<10	<20	106	<2	<20
[www] Analysis also included	< 2	<20	< 2	<20	<10	<20	3.19	<2	<20
[xxx] Analysis also included	< 2	<20	< 2	<20	<10	<20	10.9	<2	<20
[yyy] Analysis also included	< 2	88	< 2	<20	<10	<20	15.4	<2	<20
[zzz] Analysis also included	< 2	283	< 2	34	<10	<20	159	<2	40
[a1] Analysis also included	< 2	<2	< 2	<20	<2	<20	13.3	<1	<20
[b1] Analysis also included	< 2	45	< 2	<20	<2	<20	7.96	<1	<20
[c1] Analysis also included	< 2	41	< 2	<20	<2	30	10.8	<1	<20
[d1] Analysis also included	< 2	93	< 2	<20	<2	<20	106	<1	<20
[e1] Analysis also included	< 2	175	< 2	<20	<2	<20	145	<1	22
[f1] Analysis also included	< 2	25	< 2	<20	<2	<20	5.52	<1	<20
[g1] Analysis also included	< 2	55	< 2	<20	<2	<20	5.82	<1	<20
[h1] Analysis also included	< 2	233	< 2	<20	<2	<20	22.4	<1	<20
[i1] Analysis also included	< 2	<20	< 2	<20	<2	<20	8.67	<1	<20
[j1] Analysis also included	< 2	<20	< 2	<20	<8	<20	4.06	<1	<20
[k1] Analysis also included	< 2	24	< 2	<20	2	<20	8.67	<1	<20
[l1] Analysis also included	< 2	112	< 2	80	2	<20	12.1	<1	<20
[m1] Analysis also included	< 2	<20	< 2	<20	<2	<20	0.904	<1	<20
[n1] Analysis also included	< 2	71	< 2	<20	<2	<20	8.15	<1	<20
[o1] Analysis also included	< 2	<20	< 2	<20	<2	<20	6.99	<1	<20
[p1] Analysis also included	< 2	21	< 2	<20	<2	<20	4.19	<1	<20
[q1] Analysis also included	< 2	21	< 2	<20	<2	<20	4.32	<1	<20
[r1] Analysis also included	< 2	<20	< 2	<20	<2	<20	14.2	<1	<20
[s1] Analysis also included	< 2	63	< 2	<20	<2	<20	6.12	<1	<20
[t1] Analysis also included	< 2	20	< 2	<20	<2	<20	47	<1	<20
[u1] Analysis also included	< 2	20	< 2	<20	<2	<20	4.74	<1	<20
[v1] Analysis also included	< 2	74	< 2	<20	<2	<20	8.09	<1	<20
[w1] Analysis also included	< 2	<20	< 2	<20	<2	<20	13.9	<1	<20
[x1] Analysis also included	< 2	74	< 2	<20	<2	<20	8.09	<1	<20
[y1] Analysis also included	< 2	<20	< 2	<20	<2	<20	14.6	<1	<20
[z1] Analysis also included	< 2	119	< 2	31	<2	<20	8.82	<1	45
[z1'] Analysis also included	< 2	27	< 2	<20	<2	<20	5.76	<1	<20
[a2] Analysis also included	< 2	37	< 2	<20	<2	<20	10.8	<1	<20
[b2] Analysis also included	< 2	189	< 2	<20	<2	<20	211	<1	<20
[c2] Analysis also included	< 2	<20	< 2	<20	<2	<20	4.35	<1	<20
[d2] Analysis also included	< 2	177	< 2	<20	<2	<20	118	<1	<20
[e2] Analysis also included	< 2	<20	< 2	<20	<2	23	5	<1	<20
[f2] Analysis also included	< 2	44	< 2	<20	<2	<20	4.4	<1	<20
[g2] Analysis also included	< 2	1120	< 2	29	<2	<20	15	<1	<20
[h2] Analysis also included	< 2	<20	< 2	<20	<2	<20	8.85	<1	<20
[i2] Analysis also included	< 2	<20	< 2	<20	<2	<20	80.5	<1	<20
[j2] Analysis also included	< 2	<20	< 2	<20	<2	<20	7	<1	<20
[k2] Analysis also included	< 2	33	< 2	<20	<2	<20	2.47	<1	<20
[l2] Analysis also included	< 2	122	< 2	61	<2	<20	7.55	<1	<20
[m2] Analysis also included	< 2	61	< 2	<20	<2	<20	7.33	<1	<20
[n2] Analysis also included	< 2	<20	< 2	<20	<2	<20	6.6	<1	<20
[o2] Analysis also included	< 2	<20	< 2	<20	<2	<20	3.79	<1	<20
[p2] Analysis also included	< 2	<20	< 2	<20	<2	<20	4.17	<1	<20
[p2'] Analysis also included	< 2	<20	< 2	<20	<2	<20	3.78	<1	<20
[q2] Analysis also included	< 2	<20	< 2	<20	<2	<20	7.19	<1	<20
[q2'] Analysis also included	< 2	<20	< 2	<20	<2	<20	6.25	<1	<20
[r2] Analysis also included	< 2	242	< 2	<20	<2	<20	3.75	<1	<20
[s2] Analysis also included	< 2	28	< 2	<20	<2	<20	116	<1	<20
[t2] Analysis also included	< 2	<20	< 2	<20	<2	<20	16	<1	<20
[u2] Analysis also included	< 2	39	< 2	<20	<2	<20	6.4	<1	<20
[v2] Analysis also included					<2				
[w2] Analysis also included					<2				
[x2] Analysis also included	< 2	42	< 2	<20	<2	<20	10	<1	<20
[y2] Analysis also included	< 2	54	< 2	<20	<4	<20	10	<1	<20
[z2] Analysis also included	< 2	130	< 2	<20	<2	<20	150	<1	<20
[a3] Analysis also included	< 2	26	< 2	<20	<2	<20	5	<1	<20
[b3] Analysis also included	< 2	200	< 2	28	<2	<20	140	<1	21
[c3] Analysis also included	< 2	200	< 2	28	<2	<20	140	<1	<20
[d3] Analysis also included	< 2	<20	< 2	<20	<2	<20	4.6	<1	<20
[e3] Analysis also included	< 2	<20	< 2	<20	<2	<20	5.3	<1	<20
[f3] Analysis also included	< 2	54	< 2	<20	<2	<20	4.7	<1	<20

*Sodium reported in indicator table

NEWSVT Landfills
Coventry, Vermont
Footnotes to Inorganic Groundwater Summary Tables

FOOTNOTES AFTER [JJJ] FOR INORGANIC GROUNDWATER SUMMARY TABLES (all values are in ug/L):

	Total Antimony	Total Barium	Total Beryllium	Total Cobalt	Total Selenium	Total Silver	Total Sodium	Total Thallium	Total Vanadium
[g3] Analysis also included	< 2	23	< 2	<20	<2	<20	18	<1	<20
[h3] Analysis also included	< 2	<20	< 2	<20	<2	<20	9.3	<1	<20
[i3] Analysis also included	< 2	<20	< 2	<20	<2	<20	71	<1	<20
[j3] Analysis also included	< 2	29	< 2	<20	<2	<20	8.2	<1	<20
[k3] Analysis also included	< 2	57	< 2	<20	<2	<20	2.6	<1	<20
[l3] Analysis also included	< 2	97	< 2	67	<2	<20	8.7	<1	<20
[m3] Analysis also included	< 2	69	< 2	<20	<2	<20	8.9	<1	<20
[n3] Analysis also included	< 2	22	< 2	<20	<2	<20	6.1	<1	<20
[o3] Analysis also included	< 2	43	< 2	<20	<2	<20	4	<1	<20
[p3] Analysis also included	< 2	<20	< 2	<20	<2	<20	4.1	<1	<20
[q3] Analysis also included	< 2	35	< 2	<20	<2	52	9.7	<1	<20
[r3] Analysis also included	< 2	<20	< 2	<20	<2	<20	7.5	<1	<20
[s3] Analysis also included	< 2	<20	< 2	<20	<2	<20	7.9	<1	<20
[t3] Analysis also included	< 2	59	< 2	<20	<2	39	8.7	<1	<20
[u3] Analysis also included	< 2	23	< 2	<20	<2	39	46	<1	<20
[v3] Analysis also included	< 2	<20	< 2	<20	<2	39	23	<1	<20
[w3] Analysis also included	< 2	83	< 2	21	<2	39	8.2	<1	<20
[x3] Analysis also included	< 2	22	< 2	<20	<2	<20	11	<1	<20
[y3] Analysis also included	< 2	23	< 2	<20	<2	<20	290	<1	<20
[z3] Analysis also included	< 2	25	< 2	<20	<2	<20	4.5	<1	<20
[a4] Analysis also included	< 2	21	< 2	21	<2	<20	140	<1	<20
[b4] Analysis also included	< 2	78	< 2	<20	<2	21	5.9	<1	26
[c4] Analysis also included	< 2	66	< 2	<20	<2	<20	5.2	<1	<20
[d4] Analysis also included	< 4	750	< 2	58	<2	<20	18	<1	92
[e4] Analysis also included	< 2	600	< 2	42	<2	<20	22	<1	74
[f4] Analysis also included	< 2	<20	< 2	<20	<2	<20	9.7	<1	<20
[g4] Analysis also included	< 2	<20	< 2	<20	<2	<20	11	<1	<20
[h4] Analysis also included	< 2	<20	< 2	<20	<2	<20	75	<1	<20
[i4] Analysis also included	< 2	<20	< 2	<20	<2	<20	11	<1	<20
[j4] Analysis also included	< 2	97	< 2	20	<2	<20	4.7	<1	26
[k4] Analysis also included	< 2	99	< 2	100	<2	<20	8.2	<1	<20
[l4] Analysis also included	< 2	100	< 2	76	<2	<20	8.3	<1	<20
[m4] Analysis also included	< 2	67	< 2	<20	<2	<20	9.9	<1	<20
[n4] Analysis also included	< 2	39	< 2	<20	<2	<20	6.8	<1	<20
[o4] Analysis also included	< 2	23	< 2	<20	<2	<20	4	<1	<20
[p4] Analysis also included	< 4	<20	< 2	<20	<2	<20	4.3	<1	<20
[q4] Analysis also included	< 2	21	< 2	<20	<2	<20	13	<1	<20
[r4] Analysis also included	< 2	<20	< 2	<20	<2	<20	7.3	<1	<20
[s4] Analysis also included	< 2	<20	< 2	<20	<2	<20	6	<1	<20
[t4] Analysis also included	< 2	130	< 2	<20	<2	<20	8.3	<1	24
[u4] Analysis also included	< 2	35	< 2	<20	<2	<20	110	<1	24
[v4] Analysis also included	< 2	<20	< 2	<20	<2	<20	22	<1	<20
[w4] Analysis also included	< 2	52	< 2	<20	<2	<20	7.7	<1	<20
[x4] Analysis also included	< 2	56	< 2	<20	<2	<20	8.5	<1	<20
[y4] Analysis also included	< 2	22	< 2	<20	<2	<20	3.7	<1	<20
[z4] Analysis also included	< 2	25	< 2	<20	<2	<20	9.6	<1	<20
[a5] Analysis also included	< 2	19	< 2	<20	<2	<20	250	<1	<20
[b5] Analysis also included	< 2	14	< 2	24	<2	<20	6.1	<1	29
[c5] Analysis also included	< 2	13	< 2	<20	<2	<20	150	<1	<20
[d5] Analysis also included	< 2	30	< 2	<20	<2	<20	5.6	<1	<20
[e5] Analysis also included	< 2	54	< 2	<20	<2	<20	4.1	<1	<20
[f5] Analysis also included	< 2	29	< 2	<20	<2	<20	17	<1	26
[g5] Analysis also included	< 2	<20	< 2	<20	<2	<20	9.5	<1	<20
[h5] Analysis also included	< 2	<20	< 2	<20	<2	<20	79	<1	<20
[i5] Analysis also included	< 2	<20	< 2	<20	<2	<20	80	<1	<20
[j5] Analysis also included	< 2	86	< 2	<20	<2	<20	103	<1	<20
[k5] Analysis also included	< 2	<20	< 2	<20	<2	<20	1.7	<1	<20
[l5] Analysis also included	< 2	85	< 2	64	<2	<20	8.5	<1	<20
[m5] Analysis also included	< 2	94	< 2	69	<2	<20	8.3	<1	<20
[n5] Analysis also included	< 2	72	< 2	<20	<2	<20	9	<1	140
[o5] Analysis also included	< 2	1700	12	310	<2	<20	<20	<1	140
[p5] Analysis also included	< 2	<20	< 2	<20	<2	<20	4.6	<1	<20
[q5] Analysis also included	< 2	<20	< 2	<20	<2	<20	3.8	<1	<20
[r5] Analysis also included	< 2	<20	< 2	<20	<2	<20	6.7	<1	<20
[s5] Analysis also included	< 2	28	< 2	<20	<2	<20	8.7	<1	<20
[t5] Analysis also included	< 2	380	< 2	5	<2	<20	9.2	<1	84
[u5] Analysis also included	< 2	580	< 2	73	<2	<20	17	<1	97
[v5] Analysis also included	< 2	<20	< 2	<20	<2	<20	25	<1	<20
[w5] Analysis also included	< 2	<20	< 2	<20	<2	<20	26	<1	<20
[x5] Analysis also included	< 2	<20	< 2	<20	<2	<20	32	<1	<20
[y5] Analysis also included	< 2	27	< 2	<20	<2	<20	7.3	<1	<20
[z5] Analysis also included	< 2	<20	< 2	<20	<2	<20	10	<1	<20
[a6] Analysis also included	< 2	280	< 2	31	<2	<20	370	<1	<20
[b6] Analysis also included	< 2	280	< 2	<20	<2	<2	370	<1	<20
[c6] Analysis also included	< 2	160	< 2	<20	<2	<2	160	<1	<20
[d6] Analysis also included	< 2	40	< 2	<20	<2	<2	5.8	<1	<20
[e6] Analysis also included	< 2	69	< 2	<20	<2	<2	5.9	<1	<20
[f6] Analysis also included	< 2	270	< 2	<20	<2	<2	19	<1	<20
[g6] Analysis also included	< 2	<20	< 2	<20	<2	<2	9.4	<1	<20
[h6] Analysis also included	< 2	<20	< 2	<20	<2	<2	84	<1	<20
[i6] Analysis also included	< 2	<20	< 2	<20	<2	<2	8.9	<1	<20
[j6] Analysis also included	< 2	<20	< 2	<20	<2	<2	9	<1	<20
[k6] Analysis also included	< 2	<20	< 2	<20	<2	<2	3.4	<1	<20
[l6] Analysis also included	< 2	87	< 2	87	<2	<2	8	<1	<20
[m6] Analysis also included	< 2	13	< 2	<20	<2	<2	9.1	<1	<20
[n6] Analysis also included	< 2	120	< 2	<20	<2	<2	9.2	<1	20
[o6] Analysis also included	< 2	50	< 2	<20	<2	<2	7.4	<1	33
[p6] Analysis also included	< 2	130	< 2	23	<2	<2	8.2	<1	<20
[q6] Analysis also included	< 2	<20	< 2	<20	<2	<2	4.8	<1	<20
[r6] Analysis also included	< 2	<20	< 2	<20	<2	<2	13	<1	<20
[q6] Analysis also included	< 2	<20	< 2	<20	<2	<2	4.5	<1	<20
[s6] Analysis also included	< 2	<20	< 2	<20	<2	<2	7.1	<1	<20
[t6] Analysis also included	< 2	220	< 2	26	<2	<2	8.8	<1	36
[u6] Analysis also included	< 2	100	< 2	<20	<2	<2	8.9	<1	20
[v6] Analysis also included	< 2	26	< 2	<20	<2	<2	85	<1	<20
[x6] Analysis also included	< 2	<20	< 2	<20	<2	<2	40	<1	<20
[y6] Analysis also included	< 2	56	< 1	<20	<2	<2	7.9	<1	<20
[z6] Analysis also included	< 2	<20	< 1	<20	<2	<2	10	<1	<20

*Sodium reported in indicator table

NEWSVT Landfills
Coventry, Vermont
Footnotes to Inorganic Groundwater Summary Tables

FOOTNOTES AFTER [JJJ] FOR INORGANIC GROUNDWATER SUMMARY TABLES (all values are in ug/L):

	Total Antimony	Total Barium	Total Beryllium	Total Cobalt	Total Selenium	Total Silver	Total Sodium	Total Thallium	Total Vanadium
[a7] Analysis also included	< 2	190	< 1	<20	<2	<2	330	<1	<20
[b7] Analysis also included	< 2	40	< 1	<20	<2	<2	4.8	<1	<20
[c7] Analysis also included	< 2	190	< 1	<20	<2	<2	150	<1	<20
[d7] Analysis also included	< 2	25	< 1	<20	<2	<2	5.3	<1	<20
[e7] Analysis also included	< 2	120	< 1	33	<2	<2	6.7	<1	<20
[f7] Analysis also included	< 2	340	< 1	<20	<2	<2	18	<1	<20
[g7] Analysis also included	< 2	<20	< 1	<20	<2	<2	9.5	<1	<20
[h7] Analysis also included	< 2	<20	< 1	<20	<2	<2	87	<1	<20
[i7] Analysis also included	< 2	<20	< 1	<20	<2	<2	88	<1	<20
[j7] Analysis also included	< 2	<20	< 1	<20	<2	<2	9.6	<1	<20
[k7] Analysis also included	< 2	35	< 1	<20	<2	<2	1.8	<1	<20
[l7] Analysis also included	< 2	95	< 1	94	<2	<2	7.9	<1	<20
[m7] Analysis also included	< 2	140	< 1	22	<2	<2	9.3	<1	25
[n7] Analysis also included	< 2	<20	< 1	<20	<2	<2	6.4	<1	< 50
[o7] Analysis also included	< 2	<20	< 1	<20	<2	<2	3.6	<1	< 50
[p7] Analysis also included	< 2	<20	< 1	<20	<2	<2	3	<1	< 50
[q7] Analysis also included	< 2	<20	< 1	<20	<2	<2	8.2	<1	< 50
[r7] Analysis also included	< 2	<20	< 1	<20	<2	<2	6.8	<1	< 50
[s7] Analysis also included	< 2	64	3	87	<2	<2	10	<1	75
[t7] Analysis also included	< 2	200	< 1	26	<2	<2	7.9	<1	38
[u7] Analysis also included	< 2	23	< 1	<20	<2	<2	41	<1	<20
[v7] Analysis also included	< 2	21	< 1	<20	<2	<2	41	<1	<20
[w7] Analysis also included	< 2	<0.20	< 1	<20	<2	<2	43	<1	<20
[x7] Analysis also included	< 2	17	< 1	49	<2	<2	9.3	<1	50
[y7] Analysis also included	< 2	<20	< 1	<20	<2	<2	10	<1	<20
[z7] Analysis also included	< 2	27	< 1	<20	<2	<2	440	<1	<20
[a8] Analysis also included	< 2	<20	< 1	<20	<2	<2	4.6	<1	<20
b8] Analysis also included	< 2	180	< 1	<20	<2	<2	140	<1	<20
[c8] Analysis also included	< 2	<20	< 1	<20	<2	<2	5.3	<1	<20
[d8] Analysis also included	< 2	420	< 1	<20	<2	<2	20	<1	36
[e8] Analysis also included	< 2	<20	< 1	<20	<2	<2	87	<1	<20
[f8] Analysis also included	< 2	<20	< 1	<20	<2	<2	9.6	<1	<20
[g8] Analysis also included	< 2	39	< 1	<20	<2	<2	3.6	<1	<20
[h8] Analysis also included	< 2	10	< 1	52	<2	<2	8.7	<1	<20
[i8] Analysis also included	< 2	76	< 1	<20	<2	<2	8.1	<1	<20
[j8] Analysis also included	< 2	27	< 1	<20	<2	<2	6.7	<1	<20
[k8] Analysis also included	< 2	<20	< 1	<20	<2	<2	4.9	<1	<20
[l8] Analysis also included	< 2	20	< 1	<20	<2	<2	8.8	<1	<20
[m8] Analysis also included	< 2	<20	< 1	<20	<2	<2	6.5	<1	<20
[n8] Analysis also included	< 2	23	< 1	<20	<2	<2	7.9	<1	37
[o8] Analysis also included	< 2	280	< 1	35	<2	<2	8.3	<1	55
[o8] Analysis also included	< 2	<20	< 1	<20	<2	<2	6.5	<1	<20
[q8] Analysis also included	< 2	<20	< 1	<20	<2	<2	4.1	<1	<20
[r8] Analysis also included	< 2	<20	< 1	<20	<2	<2	9.7	<1	<20
[s8] Analysis also included	< 2	71	< 1	<20	<2	<2	7.8	<1	<20
[t8] Analysis also included	< 2	<20	< 1	<20	<2	<20	38	<1	<20
[u8] Analysis also included	< 2	380	< 1	120	<2	<20	*	<1	140
[v8] Analysis also included	< 2	<20	< 1	< 20	< 2	< 20	*	< 1	< 20
[w8] Analysis also included	< 2	360	< 1	30	< 2	< 20	*	< 1	< 20
[x8] Analysis also included	< 2	300	< 1	29	< 2	< 20	*	< 1	27
[y8] Analysis also included	< 2	50	< 1	< 20	< 2	< 20	*	< 1	< 20
[z8] Analysis also included	< 2	190	< 1	< 20	< 2	< 20	*	< 1	< 20
[a9] Analysis also included	3	25	< 1	< 20	< 2	< 20	*	< 1	< 20
[b9] Analysis also included	< 2	99	< 1	50	< 2	< 20	*	< 1	< 20
[c9] Analysis also included	< 2	81	< 1	< 20	< 2	< 20	*	< 1	< 20
[d9] Analysis also included	< 2	78	< 1	< 20	< 2	< 20	*	< 1	< 20
[e9] Analysis also included	< 2	1.3	< 1	200	< 2	< 20	*	< 1	40
[f9] Analysis also included	< 2	340	< 1	90	< 2	< 20	*	< 1	47
[g9] Analysis also included	< 2	20	< 1	< 20	< 2	< 20	*	< 1	< 20
[h9] Analysis also included	< 5	50	< 1	< 20	< 2	< 20	*	< 5	< 20
[i9] Analysis also included	< 2	22	< 1	< 20	< 2	< 20	*	< 1	< 20
[j9] Analysis also included	< 2	29	< 1	32	< 2	< 20	*	< 1	< 20
[k9] Analysis also included	< 2	23	< 1	31	< 2	< 20	*	< 1	38
[l9] Analysis also included	< 2	35	< 1	< 20	< 2	< 20	*	< 1	34
[m9] Analysis also included	< 2	89	< 1	< 20	< 2	< 20	*	< 1	< 20
[n9] Analysis also included	< 2	92	< 1	30	< 2	< 20	*	< 1	< 20
[o9] Analysis also included	< 2	90	< 1	29	< 2	< 20	*	< 1	< 20
[p9] Analysis also included	< 2	61	< 1	< 20	< 2	< 20	*	< 1	< 20
[q9] Analysis also included	< 2	25	< 1	< 20	< 2	< 20	*	< 1	< 20
[r9] Analysis also included	< 2	59	< 1	< 20	< 2	< 20	*	< 2	< 20
[s9] Analysis also included	< 2	69	< 1	93	< 2	< 20	*	< 1	23
[t9] Analysis also included	< 2	21	< 1	< 20	< 2	< 20	*	< 1	< 20
[u9] Analysis also included	< 2	59	6	< 20	< 2	< 20	*	< 1	< 20
[v9] Analysis also included	< 2	25	8	< 20	< 2	< 20	*	< 1	< 20
[w9] Analysis also included	< 2	90	< 4	< 20	< 2	< 20	*	< 1	< 20
[x9] Analysis also included	< 2	36	< 1	< 20	< 2	< 20	*	< 1	< 20
[y9] Analysis also included	< 2	1.2	< 6	0.054	< 2	< 50	*	< 1	< 20
[z9] Analysis also included	< 2	380	< 5	0.023	< 2	< 20	*	< 1	< 20
[a10] Analysis also included	< 2	21	< 1	< 20	< 2	0.035	*	< 1	< 20
[b10] Analysis also included	< 2	24	< 2	< 20	< 2	< 20	*	< 1	< 20
[c10] Analysis also included	< 2	290	< 2	< 20	< 2	< 20	*	< 1	< 20
[d10] Analysis also included	< 2	47	< 2	< 20	< 2	< 20	*	< 1	< 20
[e10] Analysis also included	< 2	74	< 2	< 20	< 2	< 20	*	< 1	< 20
[f10] Analysis also included	< 2	87	< 4	< 20	< 2	< 20	*	< 1	< 20
[g10] Analysis also included	< 2	44	< 2	< 20	< 2	< 20	*	< 1	< 20
[h10] Analysis also included	< 2	22	< 5	41	< 2	< 40	*	< 1	< 20
[i10] Analysis also included	< 2	150	< 5	< 20	< 2	< 20	*	< 1	< 20
[j10] Analysis also included	< 2	140	< 2	< 20	< 2	< 20	*	< 1	< 20
[k10] Analysis also included	< 2	46	< 3	< 20	< 2	< 20	*	< 1	< 20
[l10] Analysis also included	< 2	45	< 1	< 20	< 2	< 20	*	< 1	< 20
[m10] Analysis also included	< 2	27	< 2	< 20	< 2	< 20	*	< 1	< 20
[n10] Analysis also included	< 2	26	< 1	< 20	< 2	< 20	*	< 1	< 20
[o10] Analysis also included	< 2	< 20	< 1	< 20	< 2	< 20	*	< 1	< 20
[p10] Analysis also included	< 2	66	< 4	< 20	< 2	< 20	*	< 1	< 20
[q10] Analysis also included	< 2	82	< 3	< 20	< 2	< 20	*	< 1	< 20
[r10] Analysis also included	< 2	25	< 2	< 20	< 2	< 20	*	< 1	< 20
[s10] Analysis also included	< 2	26	< 2	< 20	< 2	< 20	*	< 1	< 20
[t10] Analysis also included	< 2	< 20	< 2	< 20	< 2	< 20	*	< 1	< 20
[u10] Analysis also included	< 2	310	< 4	< 20	< 2	< 20	*	< 1	< 20
[v10] Analysis also included	< 2	270	< 3	34	< 2	< 20	*	< 1	< 20
[w10] Analysis also included	< 2	51	< 2	< 20	< 2	< 20	*	< 1	< 20
[x10] Analysis also included	< 2	21	< 3	< 20	< 2	< 20	*	< 1	< 20
[y10] Analysis also included	< 2	42	< 3	< 20	< 2	< 20	*	< 1	< 20
[z10] Analysis also included	< 2	190	< 2	24	< 2	< 20	*	< 1	22
[a11] Analysis also included	< 2	70	< 3	< 20	< 2	< 20	*	< 1	< 20
[b11] Analysis also included	< 2	660	< 1	83	< 2	49	*	< 1	130
[c11] Analysis also included	< 2	110	< 4	21	< 2	29	*	< 1	< 20
[d11] Analysis also included	5	31	< 3	< 20	< 2	< 20	*	< 1	< 20
[e11] Analysis also included	< 2	160	< 3	< 20	< 2	< 20	*	< 1	< 20
[f11] Analysis also included	< 2	21	< 2	< 20	< 2	< 20	*	< 1	< 20
[g11] Analysis also included	< 2	25	< 3	< 20	< 2	< 20	*	< 1	< 20
[h11] Analysis also included	< 2	340	< 1	< 200	< 2	< 200	*	< 1	< 200
[i11] Analysis also included	< 2	< 20	< 1	< 20	< 2	33	*	< 1	< 200
[j11] Analysis also included	< 2	41	< 2	< 20	< 2	< 20	*	< 1	< 20
[k11] Analysis also included	< 13	4300	28	420	11	< 300	*	3	770
[l11] Analysis also included	< 2	110	< 2	30	< 2	< 20	*	< 1	< 20

*Sodium reported in indicator table

NEWSVT Landfills
Coventry, Vermont
Footnotes to Inorganic Groundwater Summary Tables

FOOTNOTES AFTER [JJJ] FOR INORGANIC GROUNDWATER SUMMARY TABLES (all values are in ug/L):

	Total Antimony	Total Barium	Total Beryllium	Total Cobalt	Total Selenium	Total Silver	Total Sodium	Total Thallium	Total Vanadium
[m11] Analysis also included	< 2	120	< 2	31	< 2	< 20	*	< 1	< 20
[n11] Analysis also included	< 2	27	< 1	< 20	< 2	< 20	*	< 1	< 20
[o11] Analysis also included	< 2	300	< 1	< 20	< 2	< 20	*	< 1	24
[p11] Analysis also included	< 2	170	< 5	< 100	< 2	< 100	*	< 1	< 100
[q11] Analysis also included	< 2	220	< 1	< 20	< 2	< 20	*	< 1	< 20
[r11] Analysis also included	< 2	250	< 1	< 20	< 2	< 20	*	< 1	< 20
[s11] Analysis also included	< 2	69	< 1	< 20	< 2	< 20	*	< 1	< 20
[t11] Analysis also included	< 2	< 1	< 1	< 20	< 2	< 20	*	< 1	< 20
[u11] Analysis also included	< 2	350	< 1	< 40	< 2	< 20	*	< 1	80
[v11] Analysis also included	< 2	20	< 1	< 20	< 2	< 20	*	< 1	< 20
[w11] Analysis also included	< 2	130	< 1	35	< 2	< 20	*	< 1	< 20
[x11] Analysis also included	< 2	30	< 1	< 20	< 2	< 20	*	< 1	< 20
[y11] Analysis also included	< 2	31	< 1	< 20	< 2	< 20	*	< 1	< 20
[z11] Analysis also included	< 2	140	< 1	< 20	< 2	< 20	*	< 1	26
[a12] Analysis also included	< 2	150	< 1	< 20	< 2	< 20	*	< 1	29
[b12] Analysis also included	< 2	100	< 1	< 20	< 2	< 20	*	< 1	< 20
[c12] Analysis also included	< 2	190	< 1	< 20	< 2	< 20	*	< 1	< 20

*Sodium reported in indicator table

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Coventry, Vermont
Footnotes to BRW-1 and BRW-2R Inorganic Groundwater Summary Tables

Footnote	Date	Total Antimony	Total Barium	Total Beryllium	Total Cobalt	Total Selenium	Total Silver	Total Thallium	Total Vanadium
[a] Analysis also included	3/10/2005	< 2	37	< 2	< 10	< 5	< 10		<20
[b] Analysis also included	3/10/2005	< 2	23	< 2	< 10	< 5	< 10		<20
[c] Analysis also included	3/16/2006	< 2	46	4	< 10	< 5	< 10	< 1	<10
[d] Analysis also included	3/16/2006	< 2	< 20	4	< 10	< 5	< 10	< 1	<10
[e] Analysis also included	2/6/2007	< 2	46	< 2	<20	<2	<20	<1	<20
[f] Analysis also included	2/6/2007	< 2	81.8	< 2	<20	<2	<20	<1	37
[g] Analysis also included	2/12/2008	< 2		< 1	<20	<2	<2	<1	<20
[h] Analysis also included	2/21/2008	< 2		< 1	<20	<2	<20	<1	<20
[i] Analysis also included	2/3/2009	< 2	56	< 2	< 20	< 2	< 20	< 1	< 20
[j] Analysis also included	2/3/2009	< 2	22	< 2	< 20	< 2	< 20	< 1	< 20
[k] Analysis also included	2/10/2010	< 2	41	< 1	< 20	< 2	< 20	< 1	< 20
[l] Analysis also included	2/16/2010	< 2	66	< 1	< 20	< 2		< 1	< 20
[m] Analysis also included	2/8/2011	2	76	< 1	< 20	< 2	< 20	< 1	< 20
[n] Analysis also included	2/8/2011	< 2	42	< 1	< 20	< 2	< 20	< 1	< 20
[o] Analysis also included	2/8/2012	< 2	59	6	< 20	< 2	< 20	< 1	< 20
[p] Analysis also included	2/8/2012	< 2	25	8		< 2	< 20	< 1	< 20
[q] Analysis also included	2/5/2013	< 2	45	< 1	< 20	< 2	< 20	< 1	< 20
[r] Analysis also included	2/5/2013	< 2	39	< 1	< 20	< 2	< 20	< 1	< 20
[s] Analysis also included	2/24/2014	< 2	56	< 1	< 20	< 2	< 20	< 1	< 20
[t] Analysis also included	2/24/2014	< 2	< 20	< 1	< 20	< 2	< 20	< 1	< 20

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Coventry, Vermont
Groundwater Analysis
Exotic Metals
(Footnotes to Inorganics, BRW-3S, BRW-3D, BRW-4S thru BRW-9S, GP-4 & GP-2R)

			(all values are in ug/L)							
			Total Antimony	**Total Barium**	**Total Beryllium**	**Total Cobalt**	**Total Selenium**	**Total Silver**	**Total Thallium**	**Total Vanadium**
		VT GES**[1]	6	2000	4	none	50	none	2	none
		VT Preventive Action Level* [1]	3	1000	1	none	25	none	1	none
		VT Health Advisory [2]	none	none	none	none	none	none	none	none
Well	**Date**	Federal MCL [2]	6	2000	4	none	50	none	2	none
BRW-3S	5/21/2013	(1) Footnotes	< 2	< 20	< 1	< 20	< 2	< 20	< 1	< 20
	6/13/2013	(1) Footnotes	< 2	< 20	< 1	< 20	< 2	< 20	< 1	< 20
	7/8/2013	(2) Footnotes	< 2	< 20	**1**	< 20	< 2	< 20	< 1	< 20
	7/25/2013	(3) Footnotes	**< 50**	< 20	< 1	< 20	< 2	< 20	**< 50**	< 20
	9/24/2013	(1) Footnotes	< 2	< 20	< 1	< 20	< 2	< 20	< 1	< 20
	10/10/2013	(1) Footnotes	< 2	< 20	< 1	< 20	< 2	< 20	< 1	< 20
	10/29/2013	(1) Footnotes	< 2	< 20	< 1	< 20	< 2	< 20	< 1	< 20
	5/7/2014	(1) Footnotes	< 2	< 20	< 1	< 20	< 2	< 20	< 1	< 20
Duplicate	5/7/2014	(1) Footnotes	< 2	< 20	< 1	< 20	< 2	< 20	< 1	< 20
	10/7/2014	(1) Footnotes	< 2	< 20	< 1	< 20	< 2	< 20	< 1	< 20
BRW-3D	9/25/2013	(4) Footnotes	< 2	26	< 1	< 20	< 2	< 20	< 1	< 20
	10/10/2013	(1) Footnotes	< 2	< 20	< 1	< 20	< 2	< 20	< 1	< 20
	10/29/2013	(1) Footnotes	< 2	< 20	< 1	< 20	< 2	< 20	< 1	< 20
	5/7/2014	(13) Footnotes	< 2	27	< 1	< 20	< 2	< 20	< 1	< 20
	10/7/2014	(1) Footnotes	< 2	< 20	< 1	< 20	< 2	< 20	< 1	< 20

* Bold values exceed Vermont Preventive Action Level.

** Shaded values exceed Vermont Groundwater Enforcement Standard, as set by Vermont Groundwater Protection Rule and Strategy, 2005.

[1] VT GES = VT Groundwater Enforcement Standards and Preventive Action Levels from Table 2, Groundwater Protection Rule & Strategy (GWPRS), 2005.

[2] Vermont Health Advisory Levels and Federal MCLs from December 2002 Vermont Department of Health Drinking Water Guidance.

"<" means not detected, to the reported detection limit shown.

^No sample collected, well was inaccessible due to flooding

NEWSVT Landfills
Coventry, Vermont
Groundwater Analyses
Volatile Organics

				Acetone	Benzene	Bromo-methane	2-Butanone (MEK)	t-Butanol	Chloro-benzene	Chloro-ethane	Chloro-methane	1,2 Dichloro-benzene	1,4-Di-chloro-benzene	1,1-Di-chloro-ethane	1,2-Di-chloro-ethane	Cis-1,2-Dichloro-ethene	1,2-Di-chloro-propane	Dichloro-difluoro-methane	Diethyl Ether	Ethyl-Benzene	2-Hexanone	Isopropyl-benzene
VT GES [1]				700	5	none	4200	none	100	none	30	600	75	70	5	70	5	1000	none	700	none	none
VT Preventive Action Level [1]				350	0.5	none	2100	none	50	none	15	300	37.5	35	0.5	35	0.5	500	none	350	none	none
VT Health Advisory [2]				700	none	10.0	4200	none	none	none	30	none	none	70	none	none	none	1000	none	none	none	none
Federal MCL [2]				none	5	none	none	none	100	none	none	none	75	none	5	70	5	none	none	700	none	none
Date	Lab	Method	Non-detect	(ug/L)	(ug/L)		(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
MW A-1																						
7/24/1990	St	8240	ND																			
10/31/1990	St	8240	ND																			
12/6/1990	En	8240	ND																			
3/28/1991	En	8240	ND																			
5/28/1991	En	8240	ND																			
7/30/1991	En	8240	ND																			
10/31/1991	En	8240	ND																			
5/27/1992	En	8240	ND																			
10/27/1992	En	8240	ND																			
10/27/1992	En	8240	ND																			
5/24/1993	En	8240																				
10/26/1993	En	8240	ND																			
5/26/1994	En	8240	ND																			
10/12/1994	En	8260	ND																			
5/24/1995	En	8260	ND																			
10/25/1995	En	8260	ND																			
5/23/1996	En	8260	ND																			
5/23/1996	duplicate	8260	ND																			
10/23/1996	En	8260																14.4				
5/21/1997	En	8260																30.6				
10/28/1997	En	8260																21.0				
5/15/1998	En	8260																37.0				
10/13/1998	En	8260																60.0				
5/5/1999	En	8260												1				13.2				
10/12/1999	En	8260												1.3				36.0				
5/4/2000	En	8260												1.6				25.6				
10/10/2000	En	8260												3.3				19.5				
5/3/2001	En	8260												3.7				25.1				
10/3/2001	En	8260												4.7				21.8				
5/2/2002	En	8260												6.6				17.0				
10/2/2002	En	8260												7.2				19.2				
5/6/2003	En	8260								5.7				11.4				27.2				
5/6/2003	duplicate	8260												9.2				23.7				
10/2/2003	En	8260												10.6				13.2				
5/4/2004	En	8260												9.4				18.1				
10/5/2004	En	8260												11.6				13.8				
5/3/2005	En	8260								9.1				10.3				14.0				
10/4/2005	En	8260								9.0				7.2				7.4				
5/2/2006	En	8260			**1.2**					19.3				6.9				5.4				
10/3/2006	En	8260			**1.2**					13.6				3.6				6.0				
10/3/2006	duplicate	8260			**1.4**					14.8				6.7				7.1				
5/1/2007	En	8260			**1.4**					12.8				6.0				5.3				
10/4/2007	En	8260		26.5	**2.0**		19.4			14.9				10.2		1.5		6.5				
5/6/2008	En	8260B		40	**1.9**		21.4			11.1				8.3		1.6		6.9	77.0			
10/6/2008	En	8260B		52.1	**3.1**		18.5			14.2				10.6		2.1			93.9			
5/6/2009	En	8260B		32.3	**2.8**		16.4			16.9				8.8		2.3			100.0			
10/7/2009	En	8260B		39.7	**3.8**		23.1			14.3				8.8		2.8		7.0	104.0	1.1		
5/4/2010	En	8260B		120	**2.6**		111			17.7				6.5		2.5			103.0	1.4		
10/5/2010	En	8260B		20.3	**2.9**					8.9				6.0		2.2			83.1	1.1		
5/4/2011	En	8260B		67.8	**4.8**		49			13.9				5.9		2.7			82.0	1.9		
10/5/2011+	En	8260B		19.4	**4.6**		13.9			12.1				4.6		1.6			92.7	1.7		
5/1/2012+	En	8260B		33.6	**6.1**		13.8			14.4				3.9		1.1			110.0	2.7		
10/1/2012+	En	8260B			**5.3**			21.9		15.3				3.6					107.0	2.7		
5/7/2013+	En	8260B		32.9	**7.1**		18.6	30.4		17.1				4.9					122.0	3.8		
10/8/2013+	En	8260B			**7.6**					16.5				4.6					147.0	3.8		
5/6/2014+	En	8260C			**6.9**		10	33.5		35.0				5.4					158.0	3.0		
10/6/2014+	En	8260C			**5.7**					20.6				5.3					121.0	2.7		

Normal Distribution?	Yes
Transformation Closest to Normal	
Does Transformation Produce Normality?	
Mean of Transformed Data	
Mean of Untransformed Data	3.81
Std. Dev. of Transformed Data	
Std. Dev. of Untransformed Data	2.15
n	19
Student's t-value (one-tailed)	1.725
Upper 95% Confidence Value	4.662
Lower 95% Confidence Value	**2.959**

[1] VT GES = VT Groundwater Enforcement Standards and Preventive Action Levels from Table 1, Groundwater Protection Rule & Strategy (GWPRS), 2005.
[2] From December 2002 Vermont Department of Health Drinking Water Guidance.
* Bold values exceed Vermont Preventive Action Level
** Shaded values exceed Vermont GES, as set by Vermont GWPRS, 2005.
En = Endyne Inc., Williston, VT St = State of Vermont, Department of Water Resources
ND = Non-detect for all parameters tested.
Results listed here as "< - - - " are shown on lab reports as "TBQ: Trace, below quantitation limit." The < values listed here are the reported detection limit.
Blank = not detected (see individual lab reports for detection level
In statistical calculations, values below the detection limit are not included in calculations
PLE = Present in background laboratory environment
+MW sampling utilized low-flow technology at the request of the State when sufficient water was available.

NEWSVT Landfills
Coventry, Vermont
Groundwater Analyses
Volatile Organics

Date	Lab	Method	Non-detect	p-Isopropyl-toluene	4-Methyl-2-pentanone (MIBK)	Methylene Chloride	MTBE	Tetra-chloro-ethene	Tetra-hydro-furan	Toluene	1,2,3 Tri Chloro-Benzene	1,1,1-Tri chloro-ethane	Trichloro ethene	Trichloro fluoro methane	1,2,4-Tri-methyl-benzene	1,3,5-Tri-methyl-benzene	Vinyl Chloride	Total Xylenes	Unidentified Peaks
VT GES [1]				none	none	5	40	5	none	1000	none	200	5.0	2100	350		2	10000	
VT Preventive Action Level [1]				none	none	0.5	20	0.5	none	500	none	100	0.5	1050	none		0.5	5000	
VT Health Advisory [2]				none	none	none	40	none	none	none	none	none	none	2100	350		none	none	
Federal MCL [2]				none	none	5	none	5.0	none	1000.0	none	200	5.0	none	none		2	10000	
				(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	
MW A-1																			
7/24/1990	St	8240	ND																
10/31/1990	St	8240	ND																
12/6/1990	En	8240	ND																0
3/28/1991	En	8240	ND																0
5/28/1991	En	8240	ND																0
7/30/1991	En	8240	ND																0
10/31/1991	En	8240	ND																0
5/27/1992	En	8240	ND																0
10/27/1992	En	8240	ND																0
10/27/1992	En	8240	ND																0
5/24/1993	En	8240																	0
10/26/1993	En	8240	ND																0
5/26/1994	En	8240	ND																0
10/12/1994	En	8260	ND																0
5/24/1995	En	8260	ND																0
10/25/1995	En	8260	ND																0
5/23/1996	En	8260	ND																0
5/23/1996	duplicate	8260	ND																0
10/23/1996	En	8260																	0
5/21/1997	En	8260																	0
10/28/1997	En	8260																	0
5/15/1998	En	8260												2.1					1
10/13/1998	En	8260				**6**								2.5					1
5/5/1999	En	8260																	1
10/12/1999	En	8260				**9**								2.5					1
5/4/2000	En	8260				**14**								2.5					0
10/10/2000	En	8260				**18**								2.4					1
5/3/2001	En	8260				**26.4**				1.6				2.4					3
10/3/2001	En	8260				**21**													2
5/2/2002	En	8260				**26.1**													4
10/2/2002	En	8260				**16.3**													7
5/6/2003	En	8260				**5.9**				2.8									10
5/6/2003	duplicate	8260				**5.7**				2.6									10
10/2/2003	En	8260								4.2									5
5/4/2004	En	8260								9.1									9
10/5/2004	En	8260								18.8									10
5/3/2005	En	8260								59.7							**2.3**		8
10/4/2005	En	8260								29.6							**2.0**		7
5/2/2006	En	8260					3.3			18.6							**2.0**		7
10/3/2006	En	8260					2.1			8.7							**2.3**		10
10/3/2006	duplicate	8260					2.3			9.3							**2.4**		10
5/1/2007	En	8260					2.2			4.3									> 10
10/4/2007	En	8260			12.6		2.8			4.8							**2.6**		0
5/6/2008	En	8260B			10.7		2.9		30.9	5.2									7
10/6/2008	En	8260B			21.1		2.7		31.3	7.1							**2.4**		0
5/6/2009	En	8260B			14.8		3.2		40.3	5.1							**2.5**		0
10/7/2009	En	8260B			20.5		2.6		37.1	57.0							**3.8**		3
5/4/2010	En	8260B			48.5		2.6		34.7	16.1							**2.3**		2
10/5/2010	En	8260B					2.8		27.7	4.5							**2.2**		0
5/4/2011	En	8260B			26.3		2.4		34.3	9.7							**3.0**		8
10/5/2011+	En	8260B			10.9		2.7		40.2	6.3							**4.1**		0
5/1/2012+	En	8260B			36.4		3.0		59.0	11.7							**4.9**		5
10/1/2012+	En	8260B			11.9		2.6		64.0	7.5							**4.8**		4
5/7/2013+	En	8260B			15.8		3.2		76.9	10.7							**5.8**	2.6	> 10
10/8/2013+	En	8260B							79.5	5.9							**5.7**		0
5/6/2014+	En	8260C					3.3		88.4	8.0							**15.3**		0
10/6/2014+	En	8260C					3.2		56.3	1.4							**7.8**	2.1	0
Normal Distribution?						Yes											Yes		
Transformation Closest to Normal																			
Does Transformation Produce Normality?																			
Mean of Transformed Data																			
Mean of Untransformed Data						14.84											4.12		
Std. Dev. of Transformed Data																			
Std. Dev. of Untransformed Data						8.08											3.16		
n						10											19		
Student's t-value (one-tailed)						1.796											1.725		
Upper 95% Confidence Value						19.426											5.37		
Lower 95% Confidence Value						**10.254**											**2.87**		

[1] VT GES = VT Groundwater Enforcement Standards and Preventive Action Levels from Table 1, Groundwater Protection Rule & Strategy (GWPRS), 2005.
[2] From December 2002 Vermont Department of Health Drinking Water Guidance.
* Bold values exceed Vermont Preventive Action Level
** Shaded values exceed Vermont GES, as set by Vermont GWPRS, 2005
En = Endyne Inc., Williston, VT St = State of Vermont, Department of Water Resources
ND = Non-detect for all parameters tested.
Results listed here as "< - - - " are shown on lab reports as "TBQ: Trace, below quantitation limit." The < values listed here are the reported detection limit.
Blank = not detected (see individual lab reports for detection levels)
In statistical calculations, values below the detection limit are not included in calculations
PLE = Present in background laboratory environment
+MW sampling utilized low-flow technology at the request of the State when sufficient water was available.

NEWSVT Landfills
Coventry, Vermont
Groundwater Analyses
Volatile Organics

				Acetone	Benzene	Bromo-methane	2-Butanone (MEK)	t-Butanol	Chloro-benzene	Chloro-ethane	Chloro-methane	1,2 Dichloro-benzene	1,4-Di-chloro-benzene	1,1-Di-chloro-ethane	1,2-Di-chloro-ethane	Cis-1,2-Dichloro-ethene	1,2-Di-chloro-propane	Dichloro-difluoro-methane	Diethyl Ether	Ethyl-Benzene	2-Hexanone	Isopropyl-benzene
VT GES [1]				700	5	none	4200	none	100	none	30	600	75	70	5	70	5	1000	none	700	none	none
VT Preventive Action Level [1]				350	0.5	none	2100	none	50	none	15	300	37.5	35	0.5	35	0.5	500	none	350	none	none
VT Health Advisory [2]				700	none	10.0	4200	none	none	none	30	none	none	70	none	none	none	1000	none	none	none	none
Federal MCL [2]				none	5	none	none	none	100	none	none	none	75	none	5	70	5	none	none	700	none	none
Date	Lab	Method	Non-detect	(ug/L)	(ug/L)		(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
MW D-2																						
7/24/1990	St	8240	ND																			
7/24/1990	St	8240	ND																			
10/31/1990	St	8240												3.0								
12/6/1990	En	8240												10.4								
3/29/1991	En	8240												28.4								
5/29/1991	En	8240								9.67	9.67			15.1								
7/30/1991	En	8240												18.3								
7/30/1991	En	8240												18.7								
10/31/1991	En	8240								4.42	4.42			14.4								
5/27/1992	En	8240												19.3								
10/26/1992	En	8240								8.4	8.4			19.8								
5/25/1993	En	8240			**1.4**					7.5	7.5			17.5								
10/26/1993	En	8240			**1.2**						8.8			18.7								
5/26/1994	En	8240			**1.8**					9				19.7				13.3				
10/12/1994	En	8260			**2.3**					11.3				21.9				14.8				
5/23/1995	En	8260			**2.4**					6.2				26.7								
10/24/1995	En	8260			**5.1**					19.9				**48.5**		3.1		15.1				
5/23/1996	En	8260								8.0				22.6				11.9				
10/23/1996	En	8260			**4.7**					11.8				33.7		3.5		13.8				
5/22/1997	En	8260			**4.9**					10.6				28.7		3.0						
10/29/1997	En	8260			**4.7**					7.4				32.3		3.1		22.8				
5/15/1998	En	8260	ND																			
10/13/1998	En	8260			**4.5**					11.3				24.8		2.3		55.9				
5/5/1999	En	8260			**5.6**									28.1		2.0		18.6				
10/12/1999	En	8260			**6.3**					9.2				27.3		4.1		25.5		4.7		
5/4/2000	En	8260			**6.8**					8.1				24.3		3.6		29.6		4.9		
10/10/2000	En	8260			**9.5**					9.0				**35.9**		4.6		18.7		8.5		1.0
5/3/2001	En	8260			**8.5**					10.6				22.4		4.4		26.1		7.5		
10/3/2001	En	8260			**10.8**					14.3				16.7		7.7				20.2		1.0
5/2/2002	En	8260			**7.5**					6.8				21.3		3.2		34.8		5.6		
10/2/2002	En	8260			**12.2**					14.8				13.1		7.4				26.2		1.3
5/6/2003	En	8260			**6.7**					14.5				22.2		2.7		44.8		5.8		
10/2/2003	En	8260			**14.6**					20.2				17.0		8.6		8.5		42.5		2.2
10/2/2003	duplicate	8260			**13.9**					20.4				16.1		8.3		8.2		39.1		2.0
5/4/2004	En	8260			**6.1**					16.3				13.8		3.8		22.4		7.8		
10/5/2004	En	8260			**12.1**					15.1				14.4		6.8		8.9		27.6		1.8
5/3/2005	En	8260			**10.5**					13.7				13.5		4.7		15.9		20.8		1.4
10/4/2005	En	8260			**10.8**					9.7				12.0		7.5		5.3		45.2		1.7
5/2/2006	En	8260			**12.2**					19.7				8.0		7.7				36.4		1.6
10/3/2006	En	8260			**11.5**					11.0				10.0				5.2		52.4		2.7
5/1/2007	En	8260			**11.1**					12.7				9.7		6.3				39.5		1.9
10/4/2007	En	8260		**3,850**	**9.4**		**8,370**			8.7				7.0		7.3				69.8	19.1	2.7
5/6/2008	En	8260B		**2,220**	**10.5**		**3,370**	117		9.4				8.2		8.2			355	48.9	15.4	3.0
10/6/2008	En	8260B		**4,810**			**7,040**															
5/6/2009	En	8260B		**4,220**	**11.6**		**7,890**	125		8.4				5.4		6.2			396	61.7	25.7	3.8
10/7/2009	En	8260B		**5,700**	**12.7**		**11,800**	164						6.2		7.9			435	70.7		
5/4/2010	En	8260B		**6,040**			**12,200**												505	53.5		
10/5/2010	En	8260B		**13,500**	**12.3**		**20,900**	214		7.2				4.0					318	59.5	35.2	2.8
5/4/2011	En	8260B		**6,760**			**14,200**	243											335	70.5		
10/5/2011+	En	8260B		**6,290**			**21,600**												370	68.8		
5/2/2012+	En	8260B		**12,500**			**24,700**												358	64.5		
10/1/2012+	En	8260B		**8,060**			**14,700**															
5/7/2013+	En	8260B		**18,200**	**7.2**		**14,700**	523								8.4			205	35.1	121	2.1
10/8/2013+	En	8260B		**26,000**			**76,300**															
5/6/2014+	En	8260C		**16,500**			**30,200**															
10/6/2014+	En	8260C		**21,700**			**36,200**															
Normal Distribution?				Yes	Yes		Yes															
Transformation Closest to Normal																						
Does Transformation Produce Normality?																						
Mean of Transformed Data																						
Mean of Untransformed Data				10423	8.04		20278															
Std. Dev. of Transformed Data																						
Std. Dev. of Untransformed Data				7266	3.89		17938															
n				15	34		15															
Student's t-value (one-tailed)				1.746	1.690		1.746															
Upper 95% Confidence Value				13698.534	9.168		28364.724															
Lower 95% Confidence Value				**7147.466**	**6.914**		**12191.276**															

[1] VT GES = VT Groundwater Enforcement Standards and Preventive Action Levels from Table 1, Groundwater Protection Rule & Strategy (GWPRS), 2005.
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** Shaded values exceed Vermont GES, as set by Vermont GWPRS, 2005.
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ND = Non-detect for all parameters tested.
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In statistical calculations, values below the detection limit are not included in calculation
PLE = Present in background laboratory environment
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				p-Isopropyl-toluene	4-Methyl-2-pentanone (MIBK)	Methylene Chloride	MTBE	Tetra-chloro-ethene	Tetra-hydro-furan	Toluene	1,2,3 Tri Chloro-Benzene	1,1,1-Tri chloro-ethane	Trichloro ethene	Trichloro fluoro methane	1,2,4-Tri-methyl-benzene	1,3,5-Tri-methyl-benzene	Vinyl Chloride	Total Xylenes	Unidentified Peaks
VT GES [1]				none	none	5	40	5	none	1000	none	200	5.0	2100	350		2	10000	
VT Preventive Action Level [1]				none	none	0.5	20	0.5	none	500	none	100	0.5	1050	none		0.5	5000	
VT Health Advisory [2]				none	none	none	40	none	none	none	none	none	none	2100	350		none	none	
Federal MCL [2]				none	none	5	none	5.0	none	1000.0	none	200	5.0	none	none		2	10000	
Date	Lab	Method	Non-detect	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	
MW D-2																			
7/24/1990	St	8240	ND																
7/24/1990	St	8240	ND																
10/31/1990	St	8240										3							
12/6/1990	En	8240										6.96							0
3/29/1991	En	8240				**25.4**						9.4							0
5/29/1991	En	8240				**14.3**						2.95							1
7/30/1991	En	8240				**16.6**						5.43							2
7/30/1991	En	8240				**11.8**						5.9							2
10/31/1991	En	8240				**17.8**						4.18		2.43					3
5/27/1992	En	8240				**28.9**						5.64							1
10/26/1992	En	8240										3.6							1
5/25/1993	En	8240				**PLE**						4							0
10/26/1993	En	8240										3.6							0
5/26/1994	En	8240				**79.4**						4.1							2
10/12/1994	En	8260				**55.5**						4.6							2
5/23/1995	En	8260				**65.2**						4.2							1
10/24/1995	En	8260				**90.6**	5.8					6.7							0
5/23/1996	En	8260				**36**						2.8							2
10/23/1996	En	8260				**44.9**						5.5							3
5/22/1997	En	8260				**22.1**	6					4.1							3
10/29/1997	En	8260				**26.1**	5.1					4.7	**1.2**						3
5/15/1998	En	8260	ND																0
10/13/1998	En	8260				**9.5**	4.6					2.5	**1.1**						5
5/5/1999	En	8260					5.5												7
10/12/1999	En	8260				**7.3**	5.6			14.7		1	**1.3**					2.3	> 10
5/4/2000	En	8260		1.5		**11.4**	6			16.6			**1.2**					3.1	> 10
10/10/2000	En	8260		2.6			9.3			28.1			**1.6**					5.9	> 10
5/3/2001	En	8260		2.6	1.3	**8.5**	6.4			28.4			**1.0**					5	> 10
10/3/2001	En	8260		2.8		**8**	7.3			56.4			**2.0**					10.6	> 10
5/2/2002	En	8260		1.3			7.0			24.8								3.6	> 10
10/2/2002	En	8260		3.2			7.1			73.3			**1.8**					14.9	> 10
5/6/2003	En	8260		1.2			11.8			27.7			**1.3**					3.9	> 10
10/2/2003	En	8260		5.7		**8.3**	9.6			105			**2.3**			1.0		24.1	> 10
10/2/2003	duplicate	8260		5.2		**8.4**	9.5			97.6			**2.0**					23.1	> 10
5/4/2004	En	8260		1.8			12.2			32.6								4.8	> 10
10/5/2004	En	8260		4.3		**5.7**	15.8			81.3			**1.7**					16.9	> 10
5/3/2005	En	8260		3.2			13.0			60.2			**1.3**					12.8	> 10
10/4/2005	En	8260		4.1		**6.2**	10.9			94.5			**1.5**					24.9	> 10
5/2/2006	En	8260		3.4			17.5			80.7			**1.6**					19.8	>10
10/3/2006	En	8260		6.8			10.7			93.8			**1.7**		1.3	1.4		31.2	> 10
5/1/2007	En	8260		6.2			12.9			66.9			**1.1**		1.2			22.2	> 10
10/4/2007	En	8260		9.2	524		9.0			104			**1.2**		1.5	1.3		39.5	> 10
5/6/2008	En	8260B			299		14.0		657	75.2			**1.3**		1.8	6.6		30.8	>10
10/6/2008	En	8260B								107									> 10
5/6/2009	En	8260B		9.2	503		14.0		1,110	86.8			**1.1**		2.1	1.4		37.3	> 10
10/7/2009	En	8260B		8.4	594		13.4		1,330	87.5								44.6	> 10
5/4/2010	En	8260B			502				1,320	95.0									0
10/5/2010	En	8260B		9.9	628		12.3		2,100	83.6					3.1	1.8		39.2	>10
5/4/2011	En	8260B			629				1,400	95.5									0
10/5/2011+	En	8260B			973				1,800	118.0									0
5/2/2012+	En	8260B			898				1,850	103.0									0
10/1/2012+	En	8260B			632				1,750	53.5									1
5/7/2013+	En	8260B		3.6			15.8		2,400	85.5					2.3			23.1	>10
10/8/2013+	En	8260B							3,040										0
5/6/2014+	En	8260C							1,270										0
10/6/2014+	En	8260C							1,630										0
Normal Distribution?						Yes							Yes						
Transformation Closest to Normal																			
Does Transformation Produce Normality?																			
Mean of Transformed Data																			
Mean of Untransformed Data						26.43							1.47						
Std. Dev. of Transformed Data																			
Std. Dev. of Untransformed Data						24.58							0.36						
n						23							20						
Student's t-value (one-tailed)						1.711							1.721						
Upper 95% Confidence Value						35.200							1.604						
Lower 95% Confidence Value						**17.659568**							**1.326374**						

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				Acetone	Benzene	Bromo-methane	2-Butanone (MEK)	t-Butanol	Chloro-benzene	Chloro-ethane	Chloro-methane	1,2 Dichloro-benzene	1,4-Di-chloro-benzene	1,1-Di-chloro-ethane	1,2-Di-chloro-ethane	Cis-1,2-Dichloro-ethene	1,2-Di-chloro-propane	Dichloro-difluoro-methane	Diethyl Ether	Ethyl-Benzene	2-Hexanone	Isopropyl-benzene
VT GES [1]				700	5	none	4200	none	100	none	30	600	75	70	5	70	5	1000	none	700	none	none
VT Preventive Action Level [1]				350	0.5	none	2100	none	50	none	15	300	37.5	35	0.5	35	0.5	500	none	350	none	none
VT Health Advisory [2]				700	none	10.0	4200	none	none	none	30	none	none	70	none	none	none	1000	none	none	none	none
Federal MCL [2]				none	5	none	none	none	100	none	none	none	75	none	5	70	5	none	none	700	none	none
Date	Lab	Method	Non-detect	(ug/L)	(ug/L)		(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
MW P-2R																						
10/13/1998	En	8260			**3.3**									24.1	**1.9**	3.7	**1.7**	14		11.7		
5/5/1999	En	8260			**3.7**									19.9	**1.5**	2.9				9.2		
10/12/1999	En	8260			**2.2**									7.0						7.7		
5/4/2000	En	8260			**2.2**					11.5				7.3						6.7		
10/10/2000	En	8260												16.6						7.8		
5/3/2001	En	8260																				
10/3/2001	En	8260																				
5/2/2002	En	8260																				
10/2/2002	En	8260																				
5/6/2003	En	8260																		11.0		
10/2/2003	En	8260												10.3						13.2		
5/4/2004	En	8260																				
10/5/2004	En	8260			**3.9**					14.6				3.6	**3.1**	2.5				15.5		4.7
5/3/2005	Duplicate	8260			**4.3**					13.2				4.0	**3.7**	2.6				16.8		5.2
5/3/2005	En	8260			**4.1**					14.3				3.3	**3.5**	2.5				16.1		5.2
10/4/2005	En	8260			**3.5**					13.9				5.3	**2.5**	2.8				13.8		4.1
5/2/2006	En	8260			**4.3**					17.5			1.1	3.7	**3.6**	3.2				18.1		5.5
10/3/2006	En	8260			**3.6**					14.2				2.5	**2.4**	2.6				18.3		7.1
10/3/2006	duplicate	8260			**3.8**					13.3				2.6	**3**	2.7				18.2		7.1
5/1/2007	En	8260			**4.6**					13.1				3.5	**3.3**	3.0				20.4		7.2
10/4/2007	En	8260		223	**3.5**		327			17.4				3.5	**1.9**	2.0				18.5	29.1	6.5
5/6/2008	En	8260B		**1420**	**4.2**		1570	71.5		11.4				4.1	**3**	2.5			195	21.3	59.3	9.1
5/6/2008	Duplicate	8260B		**787**	**3.6**		647	66.7		10.4				3.8	**2.8**	2.3			158	20.1	58.5	9.0
10/6/2008	En	8260B		202			171												174	19.9		8.5
5/6/2009	En	8260B		43.8	**3.7**		66.2	41.9		15.5				3.9	**1.7**	1.8			191	19.3		8.3
10/7/2009	En	8260B		60	**3.8**		61.1	53.6		15.5				3.5	**1.4**	1.6			208	18.6		8.4
5/4/2010	En	8260B		139	**2.6**		143	47.1		16.9				4.1	**1.4**	1.3			209	16	11.0	5.9
10/5/2010	En	8260B		297	**3.8**		254	60.4		17.1				4.3	**1.1**				174	17.4		7.4
5/4/2011	En	8260B		**378**	**3.4**		294	51.6		12.7				5.1					163	14.2	10.9	5.1
10/5/2011+	En	8260B			**3.6**			65.4		8.8				3.0	**1.2**	1.2			214	16.6		5.3
5/2/2012+	En	8260B			**4.2**			71.6		14.5				4.7					217	16.7		5.5
10/1/2012+	En	8260B			**4.6**			66.3		17.1				4.5					217	21.2		7.0
5/7/2013+	En	8260B		211	**4.9**		387	109		10.2				4.8	**1.1**				186	21.4		7.6
10/8/2013+	En	8260B			**5.5**			49.4		16.6				5.2					240	23.7		7.9
5/6/2014+	En	8260C		42.8	**6.5**			83.6		37.9				6.7	**2.1**	1.5			270	38.4		10.0
10/6/2014+	En	8260C			**5.0**			75.6		20.2				5.3	**1.1**				256	21.0		6.0
10/6/2014+	Duplicate	8260C			**5.7**			90.1		22.7				5.8	**1.2**				301	23.7		6.5
Normal Distribution?				Yes	Yes																	
Transformation Closest to Normal																						
Does Transformation Produce Normality?																						
Mean of Transformed Data																						
Mean of Untransformed Data				345.78	4.00																	
Std. Dev. of Transformed Data																						
Std. Dev. of Untransformed Data				413.93	0.96																	
n				11	28																	
Student's t-value (one-tailed)				1.782	1.699																	
Upper 95% Confidence Value				568.2	4.3																	
Lower 95% Confidence Value				123.4	**3.7**																	

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				p-Isopropyl-toluene	4-Methyl-2-pentanone (MIBK)	Methylene Chloride	MTBE	Tetra-chloro-ethene	Tetra-hydro-furan	Toluene	1,2,3 Tri Chloro-Benzene	1,1,1-Tri chloro-ethane	Trichloro ethene	Trichloro fluoro methane	1,2,4-Tri-methyl-benzene	1,3,5-Tri-methyl-benzene	Vinyl Chloride	Total Xylenes	Unidentified Peaks
VT GES [1]				none	none	5	40	5	none	1000	none	200	5.0	2100	350		2	10000	
VT Preventive Action Level [1]				none	none	0.5	20	0.5	none	500	none	100	0.5	1050	none		0.5	5000	
VT Health Advisory [2]				none	none	none	40	none	none	none	none	none	none	2100	350		none	none	
Federal MCL [2]				none	none	5	none	5.0	none	1000.0	none	200	5.0	none	none		2	10000	
Date	Lab	Method	Non-detect	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	
MW P-2R																			
10/13/1998	En	8260		2.5		**38.7**		**1.4**		102			**1**		2.2			23.4	
5/5/1999	En	8260		2.6		**42.9**				106					1.8			20.6	> 10
10/12/1999	En	8260		2.8		**22.4**				148								13.6	7
5/4/2000	En	8260		2.7		**19.1**				222								13.2	> 10
10/10/2000	En	8260				**34.9**				**573**								14.4	7
5/3/2001	En	8260								**654**									5
10/3/2001	En	8260								**982**									2
5/2/2002	En	8260								**942**									4
10/2/2002	En	8260								**1,260**									4
5/6/2003	En	8260								**1,480**									7
10/2/2003	En	8260								**1,130**									5
5/4/2004	En	8260								**1,640**									5
10/5/2004	En	8260		2.3						**1,250**					1.9			18.1	> 10
5/3/2005	Duplicate	8260		2.2						**1,820**					1.8			20.0	> 10
5/3/2005	En	8260		5.5						**2,100**					2			19.6	> 10
10/4/2005	En	8260		1.3						**972**					1.1			12.6	> 10
5/2/2006	En	8260		1.4						**1,580**					1.4			19.5	> 10
10/3/2006	En	8260		1.7						**1,040**					1.6			15.0	> 10
10/3/2006	duplicate	8260		1.6						**1,120**					1.6			15.0	> 10
5/1/2007	En	8260		2.0						**929**					1.3			17.1	> 10
10/4/2007	En	8260			156					**756**								12.1	> 10
5/6/2008	En	8260B		1.4	267				74.1	**1,260**					1.5			18.0	> 10
5/6/2008	Duplicate	8260B		1.9	167				66.4	**1,210**						1.4		16.8	> 10
10/6/2008	En	8260B			72.6				75.8	409								13.3	> 10
5/6/2009	En	8260B			31.8				86.9	176								13.2	> 10
10/7/2009	En	8260B		1.2	38.1				89.8	116								13.2	> 10
5/4/2010	En	8260B			53.6				72.7	96.7								10.1	0
10/5/2010	En	8260B		2.8	55.2				81.7	147.0								10.9	>10
5/4/2011	En	8260B			50.7				70.2	102.0								9.5	>10
10/5/2011+	En	8260B							99.6	5.8								10.5	2
5/2/2012+	En	8260B							96.7									12.4	5
10/1/2012+	En	8260B		2.6					87.0										0
5/7/2013+	En	8260B							121.0						1.1			12.9	>10
10/8/2013+	En	8260B		3.0					83.2									14.1	0
5/6/2014+	En	8260C							126.0	121.0					1.7			25.7	0
10/6/2014+	En	8260C							95.8	3.8					1.1			10.3	2
10/6/2014+	Duplicate	8260C							115.0	4.3					1.2			12	2
Normal Distribution?						Yes				Yes									
Transformation Closest to Normal																			
Does Transformation Produce Normality?																			
Mean of Transformed Data																			
Mean of Untransformed Data						31.60				741.1									
Std. Dev. of Transformed Data																			
Std. Dev. of Untransformed Data						10.37				615.8									
n						5				33									
Student's t-value (one-tailed)						1.943				1.691									
Upper 95% Confidence Value						40.608				922.4									
Lower 95% Confidence Value						**22.592**				**559.9**									

[1] VT GES = VT Groundwater Enforcement Standards and Preventive Action Levels from Table 1, Groundwater Protection Rule & Strategy (GWPRS), 2005.
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+MW sampling utilized low-flow technology at the request of the State when sufficient water was available

NEWSVT Landfills
Coventry, Vermont
Groundwater Analyses
Volatile Organics

				Acetone	Benzene	Bromo-methane	2-Butanone (MEK)	t-Butanol	Chloro-benzene	Chloro-ethane	Chloro-methane	1,2 Dichloro-benzene	1,4-Di-chloro-benzene	1,1-Di-chloro-ethane	1,2-Di-chloro-ethane	Cis-1,2-Dichloro-ethene	1,2-Di-chloro-propane	Dichloro-difluoro-methane	Diethyl Ether	Ethyl-Benzene	2-Hexanone	Isopropyl-benzene
VTGES [1]				700	5	none	4200	none	100	none	30	600	75	70	5	70	5	1000	none	700	none	none
VT Preventive Action Level [1]				350	0.5	none	2100	none	50	none	15	300	37.5	35	0.5	35	0.5	500	none	350	none	none
VT Health Advisory [2]				700	none	10.0	4200	none	none	none	30	none	none	70	none	none	none	1000	none	none	none	none
Federal MCL [2]				none	5	none	none	none	100	none	none	none	75	none	5	70	5	none	none	700	none	none
Date	Lab	Method	Non-detect	(ug/L)	(ug/L)		(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
MW P-8																						
5/28/1992	En	8240	ND																			
10/27/1992	En	8240	ND																			
5/25/1993	En	8240	ND																			
5/25/1993	dup	8240	ND																			
10/26/1993	En	8240	ND																			
5/26/1994	En	8240	ND																			
10/11/1994	En	8260	ND																			
5/24/1995	En	8260	ND																			
10/25/1995	En	8260																				
5/23/1996	En	8260																				
10/23/1996	En	8260	ND																			
5/21/1997	En	8260	ND																			
10/28/1997	En	8260	ND																			
5/14/1998	En	8260	ND																			
10/13/1998	En	8260	ND																			
5/5/1999	En	8260	ND																			
10/12/1999	En	8260	ND																			
5/4/2000	En	8260	ND																			
10/10/2000	En	8260	ND																			
10/10/2000	dup	8260	ND																			
5/3/2001	En	8260	ND																			
10/3/2001	En	8260	ND																			
5/2/2002	En	8260	ND																			
10/2/2002	En	8260	ND																			
5/6/2003	En	8260	ND																			
10/2/2003	En	8260	*																			
5/4/2004	En	8260	ND																			
10/5/2004	En	8260	ND																			
5/3/2005	En	8260	ND																			
10/4/2005	En	8260	ND																			
10/4/2005	dup	8260	ND																			
5/2/2006	En	8260	ND																			
10/3/2006	En	8260	ND																			
5/1/2007	En	8260	ND																			
10/4/2007	En	8260																24.2				
5/6/2008	En	8260B																	5.3			
10/6/2008	En	8260B																	5.2			
10/6/2008	dup	8260B	ND																			
5/6/2009	En	8260B	ND																			
10/7/2009	En	8260B	ND																			
5/4/2010	En	8260B	ND																			
10/5/2010	En	8260B	ND																			
5/4/2011	En	8260B	ND																			
10/4/2011^	En	8260B						26.8														
5/3/2012^	En	8260B						26.7														
10/3/2012^	En	8260B						35.2														
5/8/2013^	En	8260B						22.4														
10/9/2013^	En	8260B	ND																			
5/7/2014^	En	8260C	ND																			
10/7/2014^	En	8260C						32.7														

[1] VT GES = VT Groundwater Enforcement Standards and Preventive Action Levels from Table 1, Groundwater Protection Rule & Strategy (GWPRS), 2005.
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In statistical calculations, values below the detection limit are not included in calculations
PLE = Present in background laboratory environment
^ Insufficient water to low-flow well, grab sample obtained

NEWSVT Landfills
Coventry, Vermont
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Volatile Organics

				p-Isopropyl-toluene	4-Methyl-2-pentanone (MIBK)	Methylene Chloride	MTBE	Tetra-chloro-ethene	Tetra-hydro-furan	Toluene	1,2,3 Tri Chloro-Benzene	1,1,1-Tri chloro-ethane	Trichloro ethene	Trichloro fluoro methane	1,2,4-Tri-methyl-benzene	1,3,5-Tri-methyl-benzene	Vinyl Chloride	Total Xylenes	Unidentified Peaks
VTGES [1]				none	none	5	40	5	none	1000	none	200	5.0	2100	350		2	10000	
VT Preventive Action Level [1]				none	none	0.5	20	0.5	none	500	none	100	0.5	1050	none		0.5	5000	
VT Health Advisory [2]				none	none	none	40	none	none	none	none	none	none	2100	350		none	none	
Federal MCL [2]				none	none	5	none	5.0	none	1000.0	none	200	5.0	none	none		2	10000	
Date	Lab	Method	Non-detect	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	
MW P-8																			
5/28/1992	En	8240	ND																
10/27/1992	En	8240	ND																
5/25/1993	En	8240	ND																
5/25/1993	dup	8240	ND																
10/26/1993	En	8240	ND																
5/26/1994	En	8240	ND																
10/11/1994	En	8260	ND																
5/24/1995	En	8260	ND																
10/25/1995	En	8260																	
5/23/1996	En	8260																	
10/23/1996	En	8260	ND																
5/21/1997	En	8260	ND																
10/28/1997	En	8260	ND																
5/14/1998	En	8260	ND																
10/13/1998	En	8260	ND																
5/5/1999	En	8260	ND																
10/12/1999	En	8260	ND																
5/4/2000	En	8260	ND																
10/10/2000	En	8260	ND																
10/10/2000	dup	8260	ND																
5/3/2001	En	8260	ND																
10/3/2001	En	8260	ND																
5/2/2002	En	8260	ND																
10/2/2002	En	8260	ND																
5/6/2003	En	8260	ND																
10/2/2003	En	8260	*																
5/4/2004	En	8260	ND																
10/5/2004	En	8260	ND																
5/3/2005	En	8260	ND																
10/4/2005	En	8260	ND																
10/4/2005	dup	8260	ND																
5/2/2006	En	8260	ND																
10/3/2006	En	8260	ND																
5/1/2007	En	8260	ND																
10/4/2007	En	8260																	
5/6/2008	En	8260B																	0
10/6/2008	En	8260B																	1
10/6/2008	dup	8260B	ND																1
5/6/2009	En	8260B	ND																0
10/7/2009	En	8260B	ND																1
5/4/2010	En	8260B	ND																0
10/5/2010	En	8260B	ND																0
5/4/2011	En	8260B	ND																1
10/4/2011^	En	8260B																	1
5/3/2012^	En	8260B																	1
10/3/2012^	En	8260B																	1
5/8/2013^	En	8260B																	0
10/9/2013^	En	8260B	ND																0
5/7/2014^	En	8260C	ND																0
10/7/2014^	En	8260C																	2

[1] VT GES = VT Groundwater Enforcement Standards and Preventive Action Levels from Table 1, Groundwater Protection Rule & Strategy (GWPRS), 2005.
[2] From December 2002 Vermont Department of Health Drinking Water Guidance.
* Bold values exceed Vermont Preventive Action Level
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NEWSVT Landfills
Coventry, Vermont
Groundwater Analyses
Volatile Organics

				Acetone	Benzene	Bromo-methane	2-Butanone (MEK)	t-Butanol	Chloro-benzene	Chloro-ethane	Chloro-methane	1,2 Dichloro-benzene	1,4-Di-chloro-benzene	1,1-Di-chloro-ethane	1,2-Di-chloro-ethane	Cis-1,2-Dichloro-ethene	1,2-Di-chloro-propane	Dichloro-difluoro-methane	Diethyl Ether	Ethyl-Benzene	2-Hexanone	Isopropyl-benzene
VT GES [1]				700	5	none	4200	none	100	none	30	600	75	70	5	70	5	1000	none	700	none	none
VT Preventive Action Level [1]				350	0.5	none	2100	none	50	none	15	300	37.5	35	0.5	35	0.5	500	none	350	none	none
VT Health Advisory [2]				700	none	10.0	4200	none	none	none	30	none	none	70	none	none	none	1000	none	none	none	none
Federal MCL [2]				none	5	none	none	none	100	none	none	none	75	none	5	70	5	none	none	700	none	none
Date	Lab	Method	Non-detect	(ug/L)	(ug/L)		(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
MW 103																						
12/28/2001	En	8260	ND																			
1/15/2002	En	8260	ND																			
1/25/2002	En	8260	ND																			
2/6/2002	En	8260	ND																			
10/28/2004	En	8260	ND																			
5/3/2005	En	8260	ND																			
10/4/2005	En	8260	ND																			
5/2/2006	En	8260	ND																			
10/3/2006	En	8260	ND																			
5/1/2007	En	8260	ND																			
10/4/2007	En	8260	ND																			
5/6/2008	En	8260B	ND																			
10/6/2008	En	8260B	ND																			
5/6/2009	En	8260B	ND																			
10/7/2009*	En	8260B		19.2																		
10/7/2009	duplicate	8260B	ND																			
5/4/2010	En	8260B	ND																			
10/5/2010	En	8260B	ND																			
10/5/2010	duplicate	8260B	ND																			
5/4/2011	En	8260B	ND																			
5/4/2011	duplicate	8260B	ND																			
10/4/2011+	En	8260B	ND																			
10/4/2011+	duplicate	8260B	ND																			
5/2/2012+	En	8260B			**1.9**		10.5															
5/2/2012+	duplicate	8260B			**1.8**		10.2															
10/2/2012+	En	8260B	ND																			
5/9/2013+	En	8260B	ND																			
10/8/13+	En	8260B	ND																			
5/6/2014+	En	8260C																				
10/6/2014+	En	8260C	ND																			

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NEWSVT Landfills
Coventry, Vermont
Groundwater Analyses
Volatile Organics

				p-Isopropyl-toluene	4-Methyl-2-pentanone (MIBK)	Methylene Chloride	MTBE	Tetra-chloro-ethene	Tetra-hydro-furan	Toluene	1,2,3 Tri Chloro-Benzene	1,1,1-Tri chloro-ethane	Trichloro ethene	Trichloro fluoro methane	1,2,4-Tri-methyl-benzene	1,3,5-Tri-methyl-benzene	Vinyl Chloride	Total Xylenes	Unidentified Peaks
VT GES [1]				none	none	5	40	5	none	1000	none	200	5.0	2100	350		2	10000	
VT Preventive Action Level [1]				none	none	0.5	20	0.5	none	500	none	100	0.5	1050	none		0.5	5000	
VT Health Advisory [2]				none	none	none	40	none	none	none	none	none	none	2100	350		none	none	
Federal MCL [2]				none	none	5	none	5.0	none	1000.0	none	200	5.0	none	none		2	10000	
Date	Lab	Method	Non-detect	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	
MW 103																			
12/28/2001	En	8260	ND																0
1/15/2002	En	8260	ND																0
1/25/2002	En	8260	ND																0
2/6/2002	En	8260	ND																0
10/28/2004	En	8260	ND																0
5/3/2005	En	8260	ND																0
10/4/2005	En	8260	ND																2
5/2/2006	En	8260	ND																3
10/3/2006	En	8260	ND																1
5/1/2007	En	8260	ND																0
10/4/2007	En	8260	ND																0
5/6/2008	En	8260B	ND																0
10/6/2008	En	8260B	ND																0
5/6/2009	En	8260B	ND																0
10/7/2009*	En	8260B																	1
10/7/2009	duplicate	8260B	ND																0
5/4/2010	En	8260B	ND																0
10/5/2010	En	8260B	ND																0
10/5/2010	duplicate	8260B	ND																0
5/4/2011	En	8260B	ND																1
5/4/2011	duplicate	8260B	ND																1
10/4/2011+	En	8260B	ND																0
10/4/2011+	duplicate	8260B	ND																0
5/2/2012+	En	8260B																	0
5/2/2012+	duplicate	8260B																	0
10/2/2012+	En	8260B	ND																0
5/9/2013+	En	8260B	ND																0
10/8/13+	En	8260B	ND																0
5/6/2014+	En	8260C																5	0
10/6/2014+	En	8260C	ND																0

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NEWSVT Landfills
Coventry, Vermont
Groundwater Analyses
Volatile Organics

				Acetone	Benzene	Bromo-methane	2-Butanone (MEK)	t-Butanol	Chloro-benzene	Chloro-ethane	Chloro-methane	1,2 Dichloro-benzene	1,4-Di-chloro-benzene	1,1-Di-chloro-ethane	1,2-Di-chloro-ethane	Cis-1,2-Dichloro-ethene	1,2-Di-chloro-propane	Dichloro-difluoro-methane	Diethyl Ether	Ethyl-Benzene	2-Hexanone	Isopropyl-benzene
VT GES [1]				700	5	none	4200	none	100	none	30	600	75	70	5	70	5	1000	none	700	none	none
VT Preventive Action Level [1]				350	0.5	none	2100	none	50	none	15	300	37.5	35	0.5	35	0.5	500	none	350	none	none
VT Health Advisory [2]				700	none	10.0	4200	none	none	none	30	none	none	70	none	none	none	1000	none	none	none	none
Federal MCL [2]				none	5	none	none	none	100	none	none	none	75	none	5	70	5	none	none	700	none	none
Date	Lab	Method	Non-detect	(ug/L)	(ug/L)		(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
MW-801BR-R																						
5/6/2008	En	8260B	ND																			
10/6/2008	En	8260B	ND																			
5/6/2009	En	8260B	ND																			
10/7/2009	En	8260B	ND																			
5/4/2010	En	8260B	ND																			
10/5/2010	En	8260B	ND																			
5/3/2011	En	8260B	ND																			
10/5/2011+	En	8260B																				
10/5/2011+	dup	8260B																				
5/2/2012+	En	8260B	ND																			
5/2/2012+	dup	8260B	ND																			
10/2/2012+	En	8260B	ND																			
10/2/2012+	dup	8260B	ND																			
5/8/2013+	En	8260B	ND																			
10/8/2013+	En	8260B	ND																			
10/8/2013+	dup	8260B	ND																			
5/6/2014+	En	8260C	ND																			
10/6/2014+	En	8260C	ND																			

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Blank = not detected (see individual lab reports for detection levels)
In statistical calculations, values below the detection limit are not included in calculations
PLE = Present in background laboratory environment
+MW sampling utilized low-flow technology at the request of the State when sufficient water was available
-Could not get pump to stabilize flow rate for proper low-flow sampling, sample taken before reading stabalize
^ Insufficient water to low-flow well, grab sample obtaine

NEWSVT Landfills
Coventry, Vermont
Groundwater Analyses
Volatile Organics

				p-Isopropyl-toluene	4-Methyl-2-pentanone (MIBK)	Methylene Chloride	MTBE	Tetra-chloro-ethene	Tetra-hydro-furan	Toluene	1,2,3 Tri Chloro-Benzene	1,1,1-Tri chloro-ethane	Trichloro ethene	Trichloro fluoro methane	1,2,4-Tri-methyl-benzene	1,3,5-Tri-methyl-benzene	Vinyl Chloride	Total Xylenes	Unidentified Peaks
VT GES [1]				none	none	5	40	5	none	1000	none	200	5.0	2100	350		2	10000	
VT Preventive Action Level [1]				none	none	0.5	20	0.5	none	500	none	100	0.5	1050	none		0.5	5000	
VT Health Advisory [2]				none	none	none	40	none	none	none	none	none	none	2100	350		none	none	
Federal MCL [2]				none	none	5	none	5.0	none	1000.0	none	200	5.0	none	none		2	10000	
Date	Lab	Method	Non-detect	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
MW-801BR-R																			
5/6/2008	En	8260B	ND																
10/6/2008	En	8260B	ND																
5/6/2009	En	8260B	ND																
10/7/2009	En	8260B	ND																
5/4/2010	En	8260B	ND																
10/5/2010	En	8260B	ND																
5/3/2011	En	8260B	ND																
10/5/2011+	En	8260B					3.3												0
10/5/2011+	dup	8260B					3.3												0
5/2/2012+	En	8260B	ND																0
5/2/2012+	dup	8260B	ND																0
10/2/2012+	En	8260B	ND																0
10/2/2012+	dup	8260B	ND																0
5/8/2013+	En	8260B	ND																0
10/8/2013+	En	8260B	ND																0
10/8/2013+	dup	8260B	ND																0
5/6/2014+	En	8260C	ND																0
10/6/2014+	En	8260C	ND																0

[1] VT GES = VT Groundwater Enforcement Standards and Preventive Action Levels from Table 1 Groundwater Protection Rule & Strategy (GWPRS), 2005.
[2] From December 2002 Vermont Department of Health Drinking Water Guidance.
* Bold values exceed Vermont Preventive Action Level
** Shaded values exceed Vermont GES, as set by Vermont GWPRS, 2005.
En = Endyne Inc., Williston, VT St = State of Vermont, Department of Water Resources
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				Acetone	Benzene	Bromo-methane	2-Butanone (MEK)	t-Butanol	Chloro-benzene	Chloro-ethane	Chloro-methane	1,2 Dichloro-benzene	1,4-Di-chloro-benzene	1,1-Di-chloro-ethane	1,2-Di-chloro-ethane	Cis-1,2-Dichloro-ethene	1,2-Di-chloro-propane	Dichloro-difluoro-methane	Diethyl Ether	Ethyl-Benzene	2-Hexanone	Isopropyl-benzene
VT GES [1]				700	5	none	4200	none	100	none	30	600	75	70	5	70	5	1000	none	700	none	none
VT Preventive Action Level [1]				350	0.5	none	2100	none	50	none	15	300	37.5	35	0.5	35	0.5	500	none	350	none	none
VT Health Advisory [2]				700	none	10.0	4200	none	none	none	30	none	none	70	none	none	none	1000	none	none	none	none
Federal MCL [2]				none	5	none	none	none	100	none	none	none	75	none	5	70	5	none	none	700	none	none
Date	Lab	Method	Non-detect	(ug/L)	(ug/L)		(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
MW 801D-R																						
5/6/2008	En	8260B	ND																			
10/6/2008	En	8260B																				
5/6/2009	En	8260B	ND																			
10/7/2009	En	8260B	ND	12.2			13.8															
5/4/2010	En	8260B	ND																			
10/5/2010	En	8260B	ND																			
5/3/2011	En	8260B	ND																			
10/4/2011-	En	8260B	ND																			
5/2/2012+	En	8260B	ND																			
10/2/2012+	En	8260B	ND																			
5/8/2013+	En	8260B	ND																			
10/8/13+	En	8260B	ND																			
5/6/2014+	En	8260C	ND																			
10/6/2014+	En	8260C	ND																			

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[2] From December 2002 Vermont Department of Health Drinking Water Guidance.
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				p-Isopropyl-toluene	4-Methyl-2-pentanone (MIBK)	Methylene Chloride	MTBE	Tetra-chloro-ethene	Tetra-hydro-furan	Toluene	1,2,3 Tri Chloro-Benzene	1,1,1-Tri chloro-ethane	Trichloro ethene	Trichloro fluoro methane	1,2,4-Tri-methyl-benzene	1,3,5-Tri-methyl-benzene	Vinyl Chloride	Total Xylenes	Unidentified Peaks
VT GES [1]				none	none	5	40	5	none	1000	none	200	5.0	2100	350		2	10000	
VT Preventive Action Level [1]				none	none	0.5	20	0.5	none	500	none	100	0.5	1050	none		0.5	5000	
VT Health Advisory [2]				none	none	none	40	none	none	none	none	none	none	2100	350		none	none	
Federal MCL [2]				none	none	5	none	5.0	none	1000.0	none	200	5.0	none	none		2	10000	
Date	Lab	Method	Non-detect	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	
MW 801D-R																			
5/6/2008	En	8260B	ND																
10/6/2008	En	8260B																3.7	0
5/6/2009	En	8260B	ND																
10/7/2009	En	8260B	ND																
5/4/2010	En	8260B	ND																0
10/5/2010	En	8260B	ND																0
5/3/2011	En	8260B	ND																0
10/4/2011-	En	8260B	ND																0
5/2/2012+	En	8260B	ND																0
10/2/2012+	En	8260B	ND																0
5/8/2013+	En	8260B	ND																0
10/8/13+	En	8260B	ND																0
5/6/2014+	En	8260C	ND																0
10/6/2014+	En	8260C	ND																2

[1] VT GES = VT Groundwater Enforcement Standards and Preventive Action Levels from Table 1, Groundwater Protection Rule & Strategy (GWPRS), 2005.
[2] From December 2002 Vermont Department of Health Drinking Water Guidance.
* Bold values exceed Vermont Preventive Action Level
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				Acetone	Benzene	Bromo-methane	2-Butanone (MEK)	t-Butanol	Chloro-benzene	Chloro-ethane	Chloro-methane	1,2 Dichloro-benzene	1,4-Di-chloro-benzene	1,1-Di-chloro-ethane	1,2-Di-chloro-ethane	Cis-1,2-Dichloro-ethene	1,2-Di-chloro-propane	Dichloro-difluoro-methane	Diethyl Ether	Ethyl-Benzene	2-Hexanone	Isopropyl-benzene
VT GES [1]				700	5	none	4200	none	100	none	30	600	75	70	5	70	5	1000	none	700	none	none
VT Preventive Action Level [1]				350	0.5	none	2100	none	50	none	15	300	37.5	35	0.5	35	0.5	500	none	350	none	none
VT Health Advisory [2]				700	none	10.0	4200	none	none	none	30	none	none	70	none	none	none	1000	none	none	none	none
Federal MCL [2]				none	5	none	none	none	100	none	none	none	75	none	5	70	5	none	none	700	none	none
Date	Lab	Method	Non-detect	(ug/L)	(ug/L)		(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
MW 805S																						
12/28/2001	En	8260B	ND																			
1/15/2002	En	8260B	ND																			
1/25/2002	En	8260B	ND																			
2/6/2002	En	8260B	ND																			
10/28/2004	En	8260B	ND																			
5/3/2005	En	8260B	ND																			
10/4/2005	En	8260B	ND																			
5/2/2006	En	8260B	ND																			
10/3/2006	En	8260B	ND																			
5/1/2007	En	8260B	ND																			
10/4/2007	En	8260B	ND																			
5/6/2008	En	8260B	ND																			
10/6/2008	En	8260B	ND																			
5/6/2009	En	8260B	ND																			
10/7/2009	En	8260B		23.5																		
5/4/2010	En	8260B					18.5															
10/5/2010	En	8260B	ND																			
5/4/2011	En	8260B	ND																			
10/4/2011^	En	8260B	ND																			
5/2/2012^	En	8260B	ND																			
10/2/2012^	En	8260B	ND																			
5/9/2013^	En	8260B	ND																			
10/10/2013^	En	8260B	ND																			
5/7/2014^	En	8260C	ND																			
10/7/2014^	En	8260C	ND																			

[1] VT GES = VT Groundwater Enforcement Standards and Preventive Action Levels from Table 1, Groundwater Protection Rule & Strategy (GWPRS), 2005.
[2] From December 2002 Vermont Department of Health Drinking Water Guidance.
* Bold values exceed Vermont Preventive Action Level
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				p-Isopropyl-toluene	4-Methyl-2-pentanone (MIBK)	Methylene Chloride	MTBE	Tetra-chloro-ethene	Tetra-hydro-furan	Toluene	1,2,3 Tri Chloro-Benzene	1,1,1-Tri chloro-ethane	Trichloro ethene	Trichloro fluoro methane	1,2,4-Tri-methyl-benzene	1,3,5-Tri-methyl-benzene	Vinyl Chloride	Total Xylenes	Unidentified Peaks
VT GES [1]				none	none	5	40	5	none	1000	none	200	5.0	2100	350		2	10000	
VT Preventive Action Level [1]				none	none	0.5	20	0.5	none	500	none	100	0.5	1050	none		0.5	5000	
VT Health Advisory [2]				none	none	none	40	none	none	none	none	none	none	2100	350		none	none	
Federal MCL [2]				none	none	5	none	5.0	none	1000.0	none	200	5.0	none	none		2	10000	
Date	Lab	Method	Non-detect	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
MW 805S																			
12/28/2001	En	8260B	ND																
1/15/2002	En	8260B	ND																
1/25/2002	En	8260B	ND																
2/6/2002	En	8260B	ND																
10/28/2004	En	8260B	ND																
5/3/2005	En	8260B	ND																
10/4/2005	En	8260B	ND																
5/2/2006	En	8260B	ND																
10/3/2006	En	8260B	ND																
5/1/2007	En	8260B	ND																
10/4/2007	En	8260B	ND																
5/6/2008	En	8260B	ND																
10/6/2008	En	8260B	ND																
5/6/2009	En	8260B	ND																
10/7/2009	En	8260B																	
5/4/2010	En	8260B																	
10/5/2010	En	8260B	ND																0
5/4/2011	En	8260B	ND																0
10/4/2011^	En	8260B	ND																0
5/2/2012^	En	8260B	ND																0
10/2/2012^	En	8260B	ND																0
5/9/2013^	En	8260B	ND																0
10/10/2013^	En	8260B	ND																0
5/7/2014^	En	8260C	ND																0
10/7/2014^	En	8260C	ND																0

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				Acetone	Benzene	Bromo-methane	2-Butanone (MEK)	t-Butanol	Chloro-benzene	Chloro-ethane	Chloro-methane	1,2 Dichloro-benzene	1,4-Di-chloro-benzene	1,1-Di-chloro-ethane	1,2-Di-chloro-ethane	Cis-1,2-Dichloro-ethene	1,2-Di-chloro-propane	Dichloro-difluoro-methane	Diethyl Ether	Ethyl-Benzene	2-Hexanone	Isopropyl-benzene
VT GES [1]				700	5	none	4200	none	100	none	30	600	75	70	5	70	5	1000	none	700	none	none
VT Preventive Action Level [1]				350	0.5	none	2100	none	50	none	15	300	37.5	35	0.5	35	0.5	500	none	350	none	none
VT Health Advisory [2]				700	none	10.0	4200	none	none	none	30	none	none	70	none	none	none	1000	none	none	none	none
Federal MCL [2]				none	5	none	none	none	100	none	none	none	75	none	5	70	5	none	none	700	none	none
Date	Lab	Method	Non-detect	(ug/L)	(ug/L)		(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
St. Onge 1999 Well (8519)																						
10/28/2004	En	8260	ND																			
5/3/2005	En	8260	ND																			
10/4/2005	En	8260	ND																			
St. Onge Farm Well (2005) (#36516)																						
5/2/2006	En	8260	ND																			
10/3/2006	En	8260	ND																			
5/1/2007	En	8260	ND																			
10/4/2007	En	8260	ND																			
5/6/2008	En	8260B	ND																			
10/6/2008	En	8260B	ND																			
5/6/2009	En	8260B	ND																			
10/7/2009	En	8260B	ND																			
5/4/2010	En	8260B	ND																			
5/4/2010	duplicate	8260B	ND																			
10/5/2010	En	8260B	ND																			
5/4/2011	En	8260B	ND																			
10/5/2011	En	8260B	ND																			
5/3/2012	En	8260B	ND																			
10/3/2012	En	8260B	ND																			
5/9/2013	En	8260B		42.5			99.9															
8/1/2013	En	8260B	ND																			
10/9/2013	En	8260B	ND																			
5/8/2014	En	8260C	ND																			
10/8/2014	En	8260C	ND																			

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				p-Isopropyl-toluene	4-Methyl-2-pentanone (MIBK)	Methylene Chloride	MTBE	Tetra-chloro-ethene	Tetra-hydro-furan	Toluene	1,2,3 Tri Chloro-Benzene	1,1,1-Tri chloro-ethane	Trichloro ethene	Trichloro fluoro methane	1,2,4-Tri-methyl-benzene	1,3,5-Tri-methyl-benzene	Vinyl Chloride	Total Xylenes	Unidentified Peaks
VT GES [1]				none	none	5	40	5	none	1000	none	200	5.0	2100	350		2	10000	
VT Preventive Action Level [1]				none	none	0.5	20	0.5	none	500	none	100	0.5	1050	none		0.5	5000	
VT Health Advisory [2]				none	none	none	40	none	none	none	none	none	none	2100	350		none	none	
Federal MCL [2]				none	none	5	none	5.0	none	1000.0	none	200	5.0	none	none		2	10000	
Date	Lab	Method	Non-detect	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	
St. Onge 1999 Well (8519)																			
10/28/2004	En	8260	ND																0
5/3/2005	En	8260	ND																0
10/4/2005	En	8260	ND																0
St. Onge Farm Well (2005) (#36516)																			
5/2/2006	En	8260	ND																0
10/3/2006	En	8260	ND																0
5/1/2007	En	8260	ND																0
10/4/2007	En	8260	ND																0
5/6/2008	En	8260B	ND																0
10/6/2008	En	8260B	ND																0
5/6/2009	En	8260B	ND																0
10/7/2009	En	8260B	ND																0
5/4/2010	En	8260B	ND																0
5/4/2010	duplicate	8260B	ND																0
10/5/2010	En	8260B	ND																0
5/4/2011	En	8260B	ND																0
10/5/2011	En	8260B	ND																0
5/3/2012	En	8260B	ND																0
10/3/2012	En	8260B	ND																0
5/9/2013	En	8260B																	0
8/1/2013	En	8260B	ND																0
10/9/2013	En	8260B	ND																0
5/8/2014	En	8260C	ND																0
10/8/2014	En	8260C	ND																0

[1] VT GES = VT Groundwater Enforcement Standards and Preventive Action Levels from Table 1, Groundwater Protection Rule & Strategy (GWPRS), 2005.
[2] From December 2002 Vermont Department of Health Drinking Water Guidance.
* Bold values exceed Vermont Preventive Action Level
** Shaded values exceed Vermont GES, as set by Vermont GWPRS, 2005.
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				Hexa-Chloro-Butadiene	Unidentified Peaks
VT GES [1]				1.0	
VT Preventive Action Level [1]				0.5	
VT Health Advisory [2]				1.0	
Federal MCL [2]				none	
Date	Lab	Method	Non-detect		
MW BRW-3S					
5/21/2013	En	8260B	ND		0
6/13/2013	En	8260B	ND		0
7/8/2013	En	8260B	ND		0
7/25/2013	En	8260B		**0.7**	0
9/24/2013	En	8260B	ND		0
10/10/2013	En	8260B	ND		0
10/29/2013	En	8260B	ND		0
5/7/2014	En	8260B	ND		0
5/7/2014	duplicate	8260C	ND		0
10/7/2014		8260C	ND		0

[1] VT GES = VT Groundwater Enforcement Standards and Preventive Action Levels from Table 1, Groundwater Protection Rule & Strategy (GWPRS), 2005.

[2] Vermont Health Advisory Levels and Federal MCLs from December 2002 Vermont Department of Health Drinking Water Guidance.

Bold values exceed Vermont Preventive Action Level.

Shaded values exceed Vermont Groundwater Enforcement Standard (Primary Standards: February 2005 GWPRS).

En = Endyne Inc., Williston, VT.

ND = Non-detect for all parameters tested.

"<" means not detected, to the reported detection limit shown.

Blank = not detected (see individual lab reports for detection levels).

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				Bromo-dichloro-methane (Trihalomethane)	Bromoform (Trihalomethane)	Chloroform (Trihalomethane)	Dibromo-chloro-methane (Trihalomethane)	Total Trihalo-methanes	Unidentified Peaks
VT GES [1]				none	none	none	none	80.0	
VT Preventive Action Level [1]				none	none	none	none	8.0	
VT Health Advisory [2]				none	none	none	none	none	
Federal MCL [2]				none	none	none	none	80.0	
Date	Lab	Method	Non-detect						
MW BRW-3D									
9/24/2013	En	8260B		< 5	< 2	7.8	< 2	< 16.8	0
10/10/2013	En	8260B		0.7	< 2	6.8	< 2	11.5	0
10/29/2013	En	8260B	ND						0
5/7/2014	En	8260C	ND						0
10/7/2014	En	8260C	ND						0

[1] VT GES = VT Groundwater Enforcement Standards and Preventive Action Levels from Table 1, Groundwater Protection Rule & Strategy (GWPRS), 2005.
[2] Vermont Health Advisory Levels and Federal MCLs from December 2002 Vermont Department of Health Drinking Water Guidance.
Bold values exceed Vermont Preventive Action Level.
Shaded values exceed Vermont Groundwater Enforcement Standard (Primary Standards: February 2005 GWPRS).
En = Endyne Inc., Williston, VT .
ND = Non-detect for all parameters tested.
"<" means not detected, to the reported detection limit shown.
Blank = not detected (see individual lab reports for detection levels).

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Volatile Organics --**NON-DETECTED**

Date	Lab	Method	Non-detect	UIPs
MW-B-1				
7/24/1990	St	8240	ND	0
10/31/1990	St	8240	ND	0
12/6/1990	En	8240	ND	0
3/29/1991	En	8240	ND	0
5/29/1991	En	8240	ND	0
7/30/1991	En	8240	ND	0
10/31/1991	En	8240		0
5/27/1992	En	8240	ND	0
10/27/1992	En	8240	ND	0
5/25/1993	En	8240	ND	0
10/26/1993	En	8240	ND	0
5/26/1994	En	8240	ND	0
10/12/1994	En	8260	ND	0
5/23/1995	En	8260	ND	0
10/31/1995	En	8260	ND	0
5/23/1996	En	8260	ND	0
10/23/1996	En	8260	ND	
5/22/1997	En	8260	ND	0
10/29/1997	En	8260	ND	0
5/15/1998	En	8260	ND	0
10/13/1998	En	8260	ND	0
5/5/1999	En	8260	ND	0
10/12/1999	En	8260	ND	0
5/4/2000	En	8260	ND	0
10/10/2000	En	8260	ND	0
5/3/2001	En	8260	ND	0
10/3/2001	En	8260	ND	0
5/2/2002	En	8260	ND	0
10/2/2002	En	8260	ND	0
10/2/2002	duplicate	8260	ND	0
5/6/2003	En	8260	ND	0
10/2/2003	En	8260	ND	0
5/4/2004	En	8260	ND	0
5/4/2004	duplicate	8260	ND	0
10/5/2004	En	8260	ND	0
5/3/2005	En	8260	ND	0
10/4/2005	En	8260	ND	0
5/2/2006	En	8260	ND	0
10/3/2006	EN	8260	ND	0
5/1/2007	En	8260	ND	0
10/04.07	En	8260	ND	0
10/04.07	duplicate	8260	ND	0
5/6/2008	En	8260	ND	0
10/6/2008	En	8260	ND	0
5/6/2009	En	8260B	ND	0
10/7/2009	En	8260B	ND	0
5/4/2010	En	8260B	ND	0
10/5/2010	En	8260B	ND	0
5/4/2011	En	8260B	ND	0
10/5/2011+	En	8260B	ND	0
5/1/2012+	En	8260B	ND	0
10/2/2012+	En	8260B	ND	0
10/2/2012+	duplicate	8260B	ND	0
5/7/2013+	En	8260B	ND	0
10/8/2013+	En	8260B	ND	0
5/6/14+	En	8260B	ND	0
10/6/14+	En	8260C	ND	0

	Unidentified Peaks
VT GES [1]	none
VT Preventive Action Level [1]	none
VT Health Advisory [2]	none
Federal MCL [2]	none

Date	Lab	Method	Non-detect	UIPs
MW D-1R				
10/13/1998	En	8260	ND	0
5/5/1999	En	8260		1
10/12/1999	En	8260		0
5/4/2000	En	8260	ND	0
10/10/2000	En	8260	ND	0
5/3/2001	En	8260	ND	0
5/3/2001	duplicate	8260	ND	1
10/3/2001	En	8260	ND	0
5/2/2002	En	8260	ND	0
10/2/2002	En	8260	ND	0
5/6/2003	En	8260	ND	0
10/2/2003	En	8260	ND	0
5/4/2004	En	8260	ND	0
10/5/2004	En	8260	ND	0
5/3/2005	En	8260	ND	0
5/3/2005	duplicate	8260	ND	0
10/4/2005	En	8260	ND	0
5/2/2006	En	8260	ND	0
10/3/2006	En	8260	ND	0
10/3/2006	duplicate	8260	ND	0
5/1/2007	En	8260	ND	0
10/4/2007	En	8260	ND	0
5/6/2008	En	8260B	ND	0
5/6/2008	duplicate	8260B	ND	0
10/6/2008	En	8260B	ND	0
5/6/2009	En	8260B	ND	0
5/6/2009	duplicate	8260B	ND	0
10/7/2009	En	8260B	ND	0
5/4/2010	En	8260B	ND	0
10/5/2010	En	8260B	ND	0
5/4/2011	En	8260B	ND	0
5/4/2011	duplicate	8260B	ND	0
10/5/2011+	En	8260B	ND	0
5/2/2012+	En	8260B	ND	0
10/102012+	En	8260B	ND	0
5/7/2013+	En	8260B	ND	0
10/8/2013+	En	8260B	ND	0
5/6/14+	En	8260B	ND	0
10/6/14+	En	8260C	ND	0
10/6/14+	duplicate	8260C	ND	0

[1] Vermont GES = VT Groundwater Enforcement Standards and Preventive Action Levels from Table 1, Groundwater Protectoin Rule & Strategy (GWPRS), 2005.
[2] from December 2002 Vermont Department of Health Drinking Water Guidance.
En = Endyne Inc., Williston, VT St = State of Vermont, Department of Water Resources.
ND = Non-detected for all parameters tested.
*On 10/7/2009, several wells that are typically non-detected to VOCs had small acetone detections, most likely due to sampling or lab contamination,
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+MW sampling utilized low-flow technology at the request of the State when sufficient water was available.

NEWSVT Landfills
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Volatile Organics --**NON-DETECTED**

				Unidentified Peaks
VT GES [1]				
VT Preventive Action Level [1]				
VT Health Advisory [2]				
Federal MCL [2]				
Date	Lab	Method	Non-detect	
MW P-5				
3/29/1991	En	8240	ND	0
5/28/1991	En	8240	ND	0
7/30/1991	En	8240	ND	0
10/31/1991	En	8240	ND	0
5/28/1992	En	8240	ND	0
5/25/1993	En	8240	ND	0
10/26/1993	En	8240	ND	0
5/26/1994	En	8240		5
10/12/1994	En	8260	ND	0
5/24/1995	En	8260	ND	0
10/25/1995	En	8260	ND	1
5/23/1996	En	8260	ND	0
10/23/1996	En	8260	ND	0
5/21/1997	En	8260	ND	0
10/29/1997	En	8260	ND	0
5/15/1998	En	8260	ND	0
10/13/1998	En	8260	ND	0
5/5/1999	En	8260	ND	1
10/12/1999	En	8260	ND	0
5/4/2000	En	8260	ND	0
10/10/2000	En	8261	ND	0
5/3/2001	En	8260	ND	0
10/3/2001	En	8260	ND	0
5/2/2002	En	8260	ND	0
10/2/2002	En	8260	ND	0
5/6/2003	En	8260	ND	0
10/2/2003	En	8260	ND	0
5/4/2004	En	8260	ND	0
10/5/2004	En	8260	ND	0
10/5/2004	duplicate	8260	ND	0
5/3/2005	En	8260	ND	0
10/4/2005	En	8260	ND	0
5/2/2006	En	8260	ND	0
10/3/2006	En	8260	ND	0
5/1/2007	En	8260	ND	0
10/4/2007	En	8260B	ND	0
5/6/2008	duplicate	8260B	ND	0
10/6/2008	En	8260B	ND	0
5/6/2009	En	8260B	ND	0
10/7/2009*	En	8260B	Acetone (13.5)	0
5/4/2010	En	8260B	ND	0
10/5/2010	En	8260B	ND	0
5/4/2011	En	8260B	ND	0
10/5/2011+	En	8260B	ND	0
5/1/2012+	En	8260B	ND	0
10/1/2012+	En	8260B	ND	0
5/7/2013+	En	8260B	ND	0
10/8/2013+	En	8260B	ND	0
5/6/14+	En	8260B	ND	0
10/6/14+	En	8260C	ND	0

				Unidentified Peaks
VT GES [1]				
VT Preventive Action Level [1]				
VT Health Advisory [2]				
Federal MCL [2]				
Date	Lab	Method	Non-detect	
MW P-6				
5/28/1992	En	8240	ND	0
10/27/1992	En	8240	ND	0
5/24/1993	En	8240	ND	0
10/26/1993	En	8240		0
5/26/1994	En	8240	ND	0
10/11/1994	En	8260	ND	0
5/23/1995	En	8260	ND	0
10/31/1995	En	8260	ND	0
5/23/1996	En	8260	ND	0
10/23/1996	En	8260	ND	0
5/21/1997	En	8260	ND	0
10/28/1997	En	8260	ND	0
5/14/1998	En	8260	ND	0
10/13/1998	En	8260	ND	0
5/5/1999	En	8260	ND	0
10/12/1999	En	8260		1
5/4/2000	En	8260	ND	0
10/10/2000	En	8260	ND	0
5/3/2001	En	8260	ND	0
10/3/2001	En	8260	ND	0
5/2/2002	En	8260	ND	0
10/2/2002	En	8260	ND	0
5/6/2003	En	8260	ND	0
10/2/2003	En	8260	ND	0
5/4/2004	En	8260	ND	0
10/5/2004	En	8260	ND	0
5/3/2005	En	8260	ND	0
5/3/2005	duplicate	8260	ND	0
10/4/2005	En	8260	ND	0
5/2/2006	En	8260	ND	0
10/3/2006	En	8260	ND	0
5/1/2007	En	8260	ND	0
10/4/2007	En	8260	ND	0
5/6/2008	En	8260	ND	0
10/6/2008	En	8260B	ND	0
5/6/2009	En	8260B	ND	0
10/7/2009	En	8260B	ND	0
5/4/2010	En	8260B	ND	0
10/5/2010	En	8260B	ND	0
5/4/2011	En	8260B	ND	0
10/5/2011+	En	8260B	ND	0
5/1/2012+	En	8260B	ND	0
10/2/2012+	En	8260B	ND	0
10/2/2012+	duplicate	8260B	ND	0
5/7/2013+	En	8260B	ND	0
10/8/2013+	En	8260B	ND	0
5/7/14+	En	8260B	ND	0
10/7/14+	En	8260C	ND	0

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NEWSVT Landfills
Coventry, Vermont
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Volatile Organics --**NON-DETECTED**

				Unidentified Peaks
VT GES [1]				
VT Preventive Action Level [1]				
VT Health Advisory [2]				
Federal MCL [2]				
Date	Lab	Method	Non-detect	
MW 706				
10/13/1998	En	8260	ND	0
5/5/1999	En	8260	ND	1
10/12/1999	En	8260	ND	0
5/4/2000	En	8260	ND	0
5/4/2000	duplicate	8260	ND	0
10/10/2000	En	8260	ND	0
5/3/2001	En	8260	ND	0
10/3/2001	En	8260	ND	0
5/2/2002	En	8260	ND	0
10/2/2002	En	8260	ND	0
5/6/2003	En	8260	ND	0
10/2/2003	En	8260	ND	0
5/4/2004	En	8260	ND	0
10/5/2004	En	8260	ND	0
5/3/2005	En	8260	ND	0
10/4/2005	En	8260	ND	0
5/2/2006	En	8260	ND	0
10/3/2006	En	8260	ND	0
5/1/2007	En	8260	ND	0
10/4/2007	En	8260	ND	0
10/4/2007	duplicate	8260	ND	0
5/6/2008	En	8260B	ND	0
10/6/2008	En	8260B	ND	0
5/6/2009	En	8260B	ND	0
10/7/2009	En	8260B	ND	0
5/4/2010	En	8260B	ND	0
5/4/2010	duplicate	8260B	ND	0
10/5/2010	En	8260B	ND	0
10/5/2010	duplicate	8260B	ND	0
5/4/2011	En	8260B	ND	0
10/4/2011+	En	8260B	ND	0
5/2/2012+	En	8260B	ND	0
10/3/2012+	En	8260B	ND	0
5/9/2013+	En	8260B	ND	0
5/9/2013+	En	8260B	ND	0
10/9/13+	En	8260B	ND	0
5/7/14+	En	8260B	ND	0
10/7/14+	En	8260C	ND	0

				Unidentified Peaks
VT GES [1]				
VT Preventive Action Level [1]				
VT Health Advisory [2]				
Federal MCL [2]				
Date	Lab	Method	Non-detect	
MW 412 R				
10/13/1998	En	8260	ND	0
5/5/1999	En	8260	ND	0
10/12/1999	En	8260	ND	0
5/4/2000	En	8260	ND	0
10/10/2000	En	8260	ND	0
5/3/2001	En	8260	ND	0
10/3/2001	En	8260	ND	0
5/2/2002	En	8260	ND	0
5/2/2002	duplicate	8260	ND	0
10/2/2002	En	8260	ND	0
5/6/2003	En	8260	ND	0
10/2/2003	En	8260	ND	0
5/4/2004	En	8260	ND	0
10/5/2004	En	8260	ND	0
5/3/2005	En	8260	ND	0
10/4/2005	En	8260	ND	0
5/2/2006	En	8260	ND	0
10/3/2006	En	8260	ND	0
5/1/2007	En	8260	ND	0
5/1/2007	duplicate	8260	ND	0
10/4/2007	En	8260	ND	0
5/6/2008	En	8260B	ND	0
10/6/2008	En	8260B	ND	0
5/6/2009	En	8260B	ND	0
10/7/2009*	En	8260B	Acetone (19.7)	0
5/4/2010	En	8260B	ND	0
10/5/2010	En	8260B	ND	0
10/5/2010	duplicate	8260B	ND	0
5/4/2011	En	8260B	ND	0
5/4/2011	duplicate	8260B	ND	0
10/4/2011+	En	8260B	ND	0
10/4/2011+	En	8260B	ND	0
5/1/2012+	En	8260B	ND	0
10/2/2012+	En	8260B	ND	0
5/7/2013+	En	8260B	ND	0
10/8/13+	En	8260B	ND	0
5/7/2014+	En	8260B	ND	0
10/7/2014+	En	8260C	ND	0
10/7/2014+	duplicate	8260C	ND	0

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				Unidentified Peaks
VT GES [1]				
VT Preventive Action Level [1]				
VT Health Advisory [2]				
Federal MCL [2]				
Date	Lab	Method	Non-detect	
MW 703				
5/15/1998	En	8260	ND	0
10/13/1998	En	8260	ND	0
5/5/1999	En	8260	ND	0
10/12/1999	En	8260	ND	0
5/4/2000	En	8260	ND	0
10/10/2000	En	8260	ND	0
5/3/2001	En	8260	ND	0
10/3/2001	En	8260	ND	0
5/2/2002	En	8260	ND	0
10/2/2002	En	8260	ND	0
5/6/2003	En	8260	ND	0
10/2/2003	En	8260	ND	0
5/4/2004	En	8260	ND	0
10/5/2004	En	8260	ND	0
5/3/2005	En	8260	ND	0
10/4/2005	En	8260	ND	0
5/2/2006	En	8260	ND	0
10/3/2006	En	8260	ND	0
5/1/2007	En	8260	ND	0
5/1/2007	duplicate	8260	ND	0
10/4/2007	En	8260	ND	0
5/6/2008	En	8260B	ND	0
10/6/2008	En	8260B	ND	0
5/6/2009	En	8260B	ND	0
10/7/2009*	En	8260B	Acetone (15.4)	0
10/7/2009	duplicate	8260B	ND	0
5/4/2010	En	8260B	ND	0
10/5/2010	En	8260B	ND	0
5/4/2011	En	8260B	ND	0
10/4/2011+	En	8260B	ND	0
5/3/2012+	En	8260B	ND	0
10/2/2012+	En	8260B	ND	0
5/9/2013+	En	8260B	ND	1
10/8/13+	En	8260B	ND	1
5/7/2014+	En	8260B	ND	1
10/6/2014+	En	8260C	ND	0

				Unidentified Peaks
VT GES [1]				
VT Preventive Action Level [1]				
VT Health Advisory [2]				
Federal MCL [2]				
Date	Lab	Method	Non-detect	
MW 705				
5/15/1998	En	8260	ND	0
10/13/1998	En	8260	ND	0
5/5/1999	En	8260	ND	1
5/5/1999	duplicate	8260	ND	1
10/12/1999	En	8260	ND	1
5/4/2000	En	8260	ND	0
10/10/2000	En	8260	ND	0
5/3/2001	En	8260	ND	0
10/3/2001	En	8260	ND	0
5/2/2002	En	8260	ND	0
10/2/2002	En	8260	ND	0
5/6/2003	En	8260	ND	0
10/2/2003	En	8260	ND	0
5/4/2004	En	8260	ND	0
10/5/2004	En	8260	ND	0
5/3/2005	En	8260	ND	0
10/4/2005	En	8260	ND	0
5/2/2006	En	8260	ND	0
10/3/2006	En	8260	ND	0
5/1/2007	En	8260	ND	0
10/4/2007	En	8260	ND	0
5/6/2008	En	8260B	ND	0
10/6/2008	En	8260B	ND	0
5/6/2009	En	8260B	ND	0
10/7/2009*	En	8260B	Acetone (12.8)	0
5/4/2010	En	8260B	ND	0
10/5/2010	En	8260B	ND	0
5/3/2011	En	8260B	ND	0
10/5/2011+	En	8260B	ND	0
5/2/2012+	En	8260B	ND	0
5/2/2012+	duplicate	8260B	ND	0
10/3/2012+	En	8260B	ND	0
5/8/2013+	En	8260B	ND	1
10/9/2013+	En	8260B	ND	0
10/9/13+	duplicate	8260B	ND	0
5/8/14+		8260B	ND	0
5/8/14+	duplicate	8260B	ND	0
10/7/14+		8260C	ND	0

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NEWSVT Landfills
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Volatile Organics --**NON-DETECTED**

				Unidentified Peaks
VT GES [1]				
VT Preventive Action Level [1]				
VT Health Advisory [2]				
Federal MCL [2]				
Date	Lab	Method	Non-detect	
MW-804SR				
10/4/2005	En	8260	ND	0
5/2/2006	En	8260	ND	0
10/3/2006	En	8260	ND	0
5/1/2007	En	8260	ND	0
5/1/2007	duplicate	8260	ND	0
10/4/2007	En	8260	ND	0
10/4/2007	duplicate	8260	ND	0
5/6/2008	En	8260B	ND	0
10/6/2008	En	8260B	ND	0
5/6/2009	En	8260B	ND	0
10/7/2009	En	8260B	ND	0
5/4/2010	En	8260B	ND	0
10/5/2010	En	8260B	ND	0
5/3/2011	En	8260B	ND	0
10/3/2011+	En	8260B	ND	0
5/2/2012+	En	8260B	ND	0
10/2/2012+	En	8260B	ND	0
5/9/2013+	En	8260B	ND	0
10/9/2013+	En	8260B	ND	0
5/8/14+	En	8260B	ND	0
5/8/14+	duplicate	8260B	ND	0
10/7/14+		8260C	ND	0

				Unidentified Peaks
VT GES [1]				
VT Preventive Action Level [1]				
VT Health Advisory [2]				
Federal MCL [2]				
Date	Lab	Method	Non-detect	
MW-E1				
5/3/2005	En	8260	ND	0
10/4/2005	En	8260	ND	0
5/2/2006	En	8260	ND	0
10/3/2006	En	8260	ND	0
5/1/2007	En	8260	ND	0
10/4/2007	En	8260	ND	0
5/6/2008	En	8260B	ND	0
10/6/2008	En	8260B	ND	0
5/6/2009	En	8260B	ND	0
10/7/2009	En	8260B	ND	1
5/4/2010	En	8260B	ND	0
10/5/2010	En	8260B	ND	0
5/4/2011	En	8260B	ND	0
10/4/2011^	En	8260B	ND	0
5/2/2012^	En	8260B	ND	0
10/2/2012^	En	8260B	ND	0
5/9/2013^	En	8260B	ND	0
10/8/2013^	En	8260B	ND	0
10/8/2013^	duplicate	8260B	ND	0
5/7/14^	En	8260B	ND	0
10/7/14^	En	8260C	ND	0

				Unidentified Peaks
VT GES [1]				
VT Preventive Action Level [1]				
VT Health Advisory [2]				
Federal MCL [2]				
Date	Lab	Method	Non-detect	
MW-409				
10/4/2005	En	8260	ND	0
5/2/2006	En	8260	ND	0
10/3/2006	En	8260	ND	0
5/1/2007	En	8260	ND	0
10/4/2007	En	8260	ND	0
5/6/2008	En	8260	ND	0
10/6/2008	En	8260B	ND	0
5/6/2009	En	8260B	ND	0
10/7/2009	En	8260B	Acetone (27.3)	0
5/4/2010	En	8260B	ND	0
10/5/2010	En	8260B	ND	0
5/4/2011	En	8260B	ND	0
10/5/2011+	En	8260B	ND	0
5/2/2012+	En	8260b	ND	0
10/3/2012+	En	8260b	ND	0
5/8/2013+	En	8260b	ND	0
10/9/2013+	En	8260b	ND	0
5/8/14+	En	8260b	ND	0
10/7/14+	En	8260C	ND	0

[1] Vermont GES = VT Groundwater Enforcement Standards and Preventive Action Levels from Table 1, Groundwater Protectoin Rule & Strategy (GWPRS), 2005.
[2] from December 2002 Vermont Department of Health Drinking Water Guidance.
En = Endyne Inc., Williston, VT St = State of Vermont, Department of Water Resources
ND = Non-detect for all parameters tested.
*On 10/7/2009, several wells that are typically non-detected to VOCs had small acetone detections, most likely due to sampling or lab contamination,
The wells with these detections are indicated and the concentrations are in parentheses.
+MW sampling utilized low-flow technology at the request of the State when sufficient water was available.
^ Insufficient water to low-flow well, grab sample obtained

NEWSVT Landfills
Coventry, Vermont
Groundwater Analyses
Volatile Organics --**NON-DETECTED**

				Unidentified Peaks
VT GES [1]				
VT Preventive Action Level [1]				
VT Health Advisory [2]				
Federal MCL [2]				
Date	Lab	Method	Non-detect	
DW #21 Office				
8/7/1986	St	8240		
5/27/1991	En	8240	ND	0
7/30/1991	En	8240		0
10/31/1991	En	8240	ND	0
5/27/1992	En	8240	ND	0
10/27/1992	En	8240	ND	0
5/24/1993	En	8240	ND	0
10/26/1993	En	8240	ND	0
5/26/1994	En	8240	ND	0
10/12/1994	En	8260	ND	0
5/24/1995	En	8260	ND	0
10/31/1995	En	8260	ND	0
5/23/1996	En	8260	ND	0
10/23/1996	En	8260	ND	0
5/21/1997	En	8260	ND	0
10/28/1997	En	8260	ND	0
5/15/1998	En	8260	ND	0
10/13/1998	En	8260	ND	0
5/5/1999	En	8260	ND	0
10/12/1999	En	8260	ND	0
5/4/2000	En	8260	ND	0
10/10/2000	En	8260	ND	0
5/3/2001	En	8260	ND	0
10/3/2001	En	8260	ND	0
5/2/2002	En	8260	ND	0
10/2/2002	En	8260	ND	0
5/6/2003	En	8260	ND	0
10/2/2003	En	8260	ND	0
5/4/2004	En	8260	ND	0
10/5/2004	En	8260	ND	0
5/3/2005	En	8260	ND	0
10/4/2005	En	8260	ND	0
10/4/2005	Dup	8260	ND	0
5/2/2006	En	8260	ND	0
10/3/2006	En	8260	ND	0
5/1/2007	En	8260	ND	0
10/4/2007	En	8260	ND	0
5/6/2008	En	8260B	ND	0
10/6/2008	En	8260B	ND	0
5/6/2009	En	8260B	ND	0
5/6/2009	Dup	8260B	ND	0
10/7/2009*	En	8260B	Acetone (15.7)	0
5/4/2010	En	8260B	ND	0
5/4/2010	duplicate	8260B	ND	0
10/5/2010	En	8260B	ND	0
5/4/2011	En	8260B	ND	0
10/5/2011	En	8260B	ND	0
5/3/2012	En	8260B	ND	0
10/3/2012	En	8260B	ND	0
5/8/2013	En	8260B	ND	0
10/9/2013	En	8260B	ND	0
5/6/2014	En	8260B	ND	0
10/8/2014	En	8260C	ND	0

[1] Vermont GES = VT Groundwater Enforcement Standards and Preventive Action Levels from Table 1, Groundwater Protectoin Rule & Strategy (GWPRS), 2005.
[2] from December 2002 Vermont Department of Health Drinking Water Guidance.
En = Endyne Inc., Williston, VT St = State of Vermont, Department of Water Resources
ND = Non-detect for all parameters tested.
*On 10/7/2009, several wells that are typically non-detected to VOCs had small acetone detections, most likely due to sampling or lab contamination,
The wells with these detections are indicated and the concentrations are in parentheses.

NEWSVT Landfills
Coventry, Vermont
Groundwater Analyses
Volatile Organics --**NON-DETECTED**

				Unidentified Peaks
VT GES [1]				
VT Preventive Action Level [1]				
VT Health Advisory [2]				
Federal MCL [2]				
Date	Lab	Method	Non-detect	
Trip Blank	En	8260	ND	0
5/3/2000	En	8260	ND	7
10/9/2000	En	8260	ND	0
5/3/2001	En	8260	ND	0
10/3/2001	En	8260	ND	0
12/28/2001	En	8260	ND	0
1/15/2002	En	8261	ND	0
1/25/2002	En	8262	ND	0
2/6/2002	En	8263	ND	0
5/2/2002	En	8260	ND	0
10/2/2002	En	8260	ND	0
5/6/2003	En	8260	ND	0
10/2/2003	En	8260	ND	0
5/4/2004	En	8260	ND	0
10/5/2004	En	8260	ND	0
10/28/2004	En	8260	ND	0
5/3/2005	En	8260	ND	0
10/4/2005	En	8260	ND	0
5/2/2006	En	8260	ND	0
10/3/2006	En	8260	ND	0
5/1/2007	En	8260	ND	0
10/4/2007	En	8260	ND	0
5/6/2008	En	8260B	ND	0
10/6/2008	En	8260B	ND	0
10/7/2009	En	8260B	ND	0
10/1/2010	En	8260B	ND	0
10/5/2010	En	8260B	ND	0
10/3/2011	En	8260B	ND	0
4/30/2012	En	8260B	ND	0
10/1/2012	En	8260B	ND	0
5/7/2013 (#1)	En	8260B	ND	0
5/7/2013 (#2)	En	8260B	ND	0
10/8/2013	En	8260B	ND	0
2/24/2014	En	8260C	ND	0
5/1/2014 (#1)	En	8260C	ND	0
5/1/2014 (#2)	En	8260C	ND	0
10/2/2014 (#1)	En	8260C	ND	0
10/2/2014 (#2)	En	8260C	ND	0

				Unidentified Peaks
VT GES [1]				
VT Preventive Action Level [1]				
VT Health Advisory [2]				
Federal MCL [2]				
Date	Lab	Method	Non-detect	
Equipment Blank	En	8260	ND	0
10/6/2011 (#	En	8260	ND	0
10/6/2011 (#	En	8260	ND	0
5/3/2012	En	8260	ND	0
10/3/2012	En	8260	ND	0
5/7/2013	En	8260	ND	0
10/8/2013	En	8260	ND	0
5/6/2014	En	8260	ND	0
10/6/2014	En	8260C	ND	0

[1] Vermont GES = VT Groundwater Enforcement Standards and Preventive Action Levels from Table 1, Groundwater Protectoin Rule & Strategy (GWPRS), 2005.
[2] from December 2002 Vermont Department of Health Drinking Water Guidance.
En = Endyne Inc., Williston, VT St = State of Vermont, Department of Water Resources
ND = Non-detect for all parameters tested.

NEWSVT Landfills
Coventry, Vermont
Groundwater Analyses - BRW-1 BRW-2
Volatile Organics -- **NON-DETECTED**

				Unidentified Peaks
VT GES [1]				none
VT Preventive Action Level [1]				none
VT Health Advisory [2]				none
Federal MCL [2]				none
Date	Lab	Method	Non-detect	UIPs
MW-BRW-1				
3/10/2005	En	8260	ND	0
3/16/2006	En	8260	ND	0
2/6/2007	En	8260	ND	0
2/12/2008	En	8260	ND	0
2/3/2009	En	8260	ND	0
2/10/2010	En	8260	ND	0
2/8/2011	En	8260	ND	0
2/28/2012	En	8260	ND	0
2/5/2013	En	8260C	ND	0
2/24/2014+	En	8260C	ND	0

				Unidentified Peaks
VT GES [1]				none
VT Preventive Action Level [1]				none
VT Health Advisory [2]				none
Federal MCL [2]				none
Date	Lab	Method	Non-detect	UIPs
MW-BRW-2				
3/10/2005	En	8260	ND	0
3/16/2006	En	8260	ND	0
2/6/2007	En	8260	ND	0
2/21/2008	En	8260	ND	0
2/3/2009	En	8260	ND	0
2/16/2010	En	8260	ND	0
2/8/2011	En	8260	ND	0
2/28/2012	En	8260	ND	0
2/5/2013	En	8260C	ND	0
2/24/2014+	En	8260C	ND	0

				Unidentified Peaks
VT GES [1]				
VT Preventive Action Level [1]				
VT Health Advisory [2]				
Federal MCL [2]				
Date	Lab	Method	Non-detect	
Trip Blank	En	8260	ND	0
3/10/2005		NS		
3/16/2006		NS		
2/6/2007		NS		
2/21/2008	En	8260	ND	0
2/3/2009	En	8260	ND	0
2/10/2010	En	8261	ND	0
2/16/2010	En	8262	ND	0
2/7/2011	En	8263	ND	0
2/8/2012	En	8260	ND	0
2/4/2013	En	8260	ND	0
2/24/2014	En	8260	ND	0

[1] Vermont GES = VT Groundwater Enforcement Standards and Preventive Action Levels from Table 1, Groundwater Protectoin Rule & Strategy (GWPRS), 2005.
[2] from December 2002 Vermont Department of Health Drinking Water Guidance.
En = Endyne Inc., Williston, VT St = State of Vermont, Department of Water Resources.
ND = Non-detected for all parameters tested.
NS = No Sample
+MW sampling utilized low-flow technology at the request of the State when sufficient water was available.

NEWSVT Landfills
Coventry, Vermont
Groundwater Analyses
Semi-Volatile Organics

Location	Date	Lab	Method	Result	Unidentified Peaks
VT GES [1]					none
VT Preventive Action Level [1]					none
VT Health Advisory [2]					none
Federal MCL [2]					none
MW-BRW-1	3/10/2005	Endyne	EPA 8270	ND	0
	3/16/2006	Endyne	EPA 8270	ND	0
	2/6/2007	Endyne	EPA 8270	ND	0
	2/21/2008	Endyne	EPA 8270	ND [3]	0
	2/3/2009	Endyne	EPA 8270	ND	0
	2/10/2010	Endyne	EPA 8270	ND	0
	2/8/2011	Endyne	EPA 8270	ND	0
	2/28/2012	Endyne	EPA 8270	ND	0
	2/5/2013	Endyne	EPA 8270	ND	0
	2/24/2014+	Endyne	EPA 8270D	ND	0
MW-BRW-2	3/10/2005	Endyne	EPA 8270	ND	0
	3/16/2006	Endyne	EPA 8270	ND	0
	2/6/2007	Endyne	EPA 8270	ND	0
	2/21/2008	Endyne	EPA 8270 PAH	ND	0
	2/3/2009	Endyne	EPA 8270	ND	0
	2/18/2010	Endyne	EPA 8270	ND	0
	2/8/2011	Endyne	EPA 8270	ND	0
	2/28/2012	Endyne	EPA 8270	ND	>10
	2/5/2013	Endyne	EPA 8270	ND	0
	2/24/2014+	Endyne	EPA 8270D	ND	0

ND = Non-detect for all parameters tested.
[1] VT GES = VT Groundwater Enforcement Standards and Preventive Action Levels from Table 1, Groundwater Protection Rule & Strategy (GWPRS), 2005.
[2] From December 2002 Vermont Department of Health Drinking Water Guidance.
[3] 2/21/08 Sample of BRW-1 showed phtalate present at low level;
assumed to be plasticizer from well installation
ND = Non-detected for all parameters tested.
+MW sampling utilized low-flow technology at the request of the State when sufficient water was available.

NEWSVT Landfills
Coventry, Vermont
Surface Water Analyses
Metals

Station: SW-1 Black River Upstream

			Arsenic (ug/l)	Barium (mg/l)	Cadmium (ug/l)	Chromium (ug/l)	Copper (mg/l)	Iron (mg/l)	Lead (ug/l)	Mang. (mg/l)	Mercury (ug/l)	Nickel (ug/l)	Selenium (ug/l)	Silver (ug/l)	Zinc (mg/l)
VT WQ Standard (Prot. Human Health): [1]			2 [5]	none	none	none	none	none	none	none	0.2 [5]	4,600	none	none	none
VT WQ Standard (Prot. Aq. Biota): [1]			190	none	[C - 1]	11 (for Cr-VI)	[C - 2]	1.0	[C - 3]	none	0.2 [5]	[C - 4]	5	none	[C - 5]
Date	Lab	Type *													
Earlier data are archived to conserve space [6]															
5/5/1999	Endyne	Total	< 5		< 3	< 10	< 0.010	0.416	< 2	0.094	< 1	< 20			< 0.010
10/11/1999	Endyne	Total	< 5		< 3	< 10	< 0.010	0.379	< 2	0.075	< 1	< 20			< 0.010
5/3/2000	Endyne	Total	< 5		< 3	< 10	< 0.010	0.335	< 2	0.096	< 1	< 20			< 0.010
10/9/2000	Endyne	Total	< 5		< 3	< 10	< 0.010	0.593	< 2	0.076	< 1	< 20			< 0.010
5/3/2001	Endyne	Total	< 3		< 3	< 10	< 0.010	1.330	< 2	0.073	< 2	< 20			< 0.020
10/2/2001	Endyne	Total	< 3		< 3	< 10	NA	0.582	2	0.101	< 1	< 20			< 0.020
5/1/2002	Endyne	Total	< 2		< 3	< 10	< 0.010	0.322	< 2	0.032	< 1	< 20			< 0.020
10/2/2002	Endyne	Total	< 2		< 3	< 10	< 0.010	0.469	< 2	0.098	< 1	< 20			< 0.020
5/5/2003	Endyne	Total	< 2		< 3	< 10	< 0.010	0.042	< 2	0.035		< 20			< 0.020
10/1/2003	Endyne	Total	< 3		< 3	< 10	< 0.010	0.468	< 2	0.063	< 1	< 20			< 0.020
5/4/2004	Endyne	Total	< 2		< 3	< 10	< 0.010	0.594	< 2	0.104	< 1	< 20			< 0.020
10/5/2004	Endyne	Total	< 2		< 3	< 10	< 0.010	0.421	< 2	0.055	< 1	< 20			< 0.020
5/2/2005	Endyne	Total	< 2		< 3	< 10	< 0.010	0.422	< 2	0.042	< 1	< 20			< 0.020
10/3/2005	Endyne	Total	< 3		< 2	< 10	< 0.010	0.527	< 2	0.087	< 1	< 20			< 0.020
5/1/2006	Endyne	Total	< 2		< 2	< 10	< 0.010	0.612	< 10	0.091	< 1	< 20			< 0.020
10/2/2006	Endyne	Total	< 3		< 2	< 20	< 0.020	0.609	< 1	0.073	< 1	< 20			< 0.020
4/30/2007	Endyne	Total	< 2		< 2	< 20	< 0.020	0.698	< 1	0.044	< 1	< 20			< 0.020
10/3/2007	Endyne	Total	3		< 2	< 20	< 0.020	0.657	< 1	0.224	< 1	< 20			< 0.020
5/6/2008	Endyne	Total	< 2	< 0.020	< 2	< 20	< 0.020	0.910	< 1	0.220	< 1	< 20			3.400
10/6/2008	Endyne	Total	< 2	< 0.020	< 2	< 20	< 0.020	0.570	< 1	0.086	< 1	< 20	< 2		< 0.020
5/6/2009	Endyne	Total	< 2	< 0.020	< 2	< 20	< 0.020	0.770	< 1	0.210	< 1	< 20	< 2		< 0.020
10/6/2009	Endyne	Total	8	34	< 2	< 20	< 0.020	9.000	4	0.044	< 1	< 21	< 2		0.032
5/3/2010	Endyne	Total	< 1	< 0.020	< 2	< 5	< 0.020	0.280	< 1	0.038	< 0.20	< 5	< 2		< 0.005
10/4/2010	Endyne	Total	2	< 0.020	< 2	< 5	< 0.020	1.600	< 1	0.098	< 0.20	< 5	< 2		< 0.005
5/3/2011	Endyne	Total	< 1	< 0.020	< 2	< 5	< 0.020	0.420	< 1	0.051	< 0.20	< 5	< 2		< 0.005
10/3/2011	Endyne	Total	< 2	< 0.020	< 2	< 5	< 0.020	1.500	< 1	0.073	< 0.20	< 5	< 2		< 0.020
5/1/2012	Endyne	Total	1	< 0.020	< 2	< 5	< 0.020	0.850	< 1	0.090	< 0.20	< 5	< 2		< 0.020
10/1/202	Endyne	Total	3	0.023	< 2	< 5	< 0.020	1.500	3	0.180	< 0.20	< 5	< 2		< 0.020
5/8/2013	Endyne	Total	2	< 0.020	< 2	< 5	< 0.020	0.240	< 1	0.061	< 0.20	< 5	< 2		< 0.020
10/9/2013	Endyne	Total	1	< 0.020	< 2	< 5	< 0.020	0.910	< 1	0.090	< 0.20	< 5	< 2		< 0.020
5/7/2014	Endyne	Total	< 1	< 0.020	< 2	< 5	< 0.020	0.840	< 1	0.062	< 0.20	< 5	< 2		< 0.020
10/9/2014	Endyne	Total	2	< 0.020	< 2	< 5	< 0.020	0.480	< 1	0.096	< 0.20	< 5	< 2		< 0.020

Labs: MES = Lab unknown (sampled and reported by Marshfield Engineering Services, Marshfield, VT)
IEA = Industrial and Environmental Analysts, Inc., Essex Junction, VT
State = State of Vermont, Department of Water Resources; Endyne = Endyne, Inc., Williston, V
Shading bold indicates exceedance of Surface Water Quality Standard, Prot. Human Healt
[1] Vt Water Quality Standards (12/30/11, no change from 08), Appendix C: Protection of Human Health (consumption of organisms only).
If no Human Health standard is shown, the standard for Protection of Aquatic Biota, Chronic Criteria is calculated in table at righ
[2] Analysis also included Beryllium <1 ug/l, Antimony <10 ug/l, Thallium <2 ug/l, Sulfate 6.9 mg/l, NO2 + NO3 4.44 mg/l
[3] Analysis also included Beryllium <1 ug/l, Antimony <10 ug/l, Thallium <2 ug/l, Sulfate 8.7 mg/l, NO3 0.31 mg
[4] Samples inadvertently analyzed for dissolved metals; permit calls for total metals analysi
[5] Arsenic std. of 2 ppm, and Mercury std. of 0.2 ppb are the ANR Laboratory's Practical Quantitation Limits, for the specifi
purposes of SWMD; per telecon S. Bushman, SWMD, 9/7/93
[6] Data between 1981 and 1998 are archived to conserve table space and can be shown upon request. Statistics are not required to be ru

Calculation formulas for WQ Standards for Prot.of Aquatic Biota, Chronic Crit.: [1]	WQ Std. 10/9/2014
Cadmium: [C - 1] = exp(0.7852 * ln(hardness) - 3.490)	1.27 ppb
Copper: [C - 2] = exp(0.8545 * ln(hardness) - 1.465)	0.013 mg/l
Lead: [C - 3] = exp(1.273 * ln(hardness) - 4.705)	3.84 ppb
Nickel: [C - 4] = exp(0.8460 * ln(hardness) + 1.1645)	179 ppb
Zinc: [C - 5] = exp(0.8473 * ln(hardness) + 0.7614)	0.120 mg/l
10/9/14 hardness = 116 mg/l	

NEWSVT Landfills
Coventry, Vermont
Surface Water Analyses
Metals

Station: SW-2 Black River Downstream

			Arsenic (ug/l)	Barium (mg/l)	Cadmium (ug/l)	Chromium (ug/l)	Copper (mg/l)	Iron (mg/l)	Lead (ug/l)	Mang. (mg/l)	Mercury (ug/l)	Nickel (ug/l)	Selenium (ug/l)	Silver (ug/l)	Zinc (mg/l)
VT WQ Standard (Prot. Human Health): [1]			2 [5]	none	none	none	none	none	none	none	0.2 [5]	4,600	none	none	none
VT WQ Standard (Prot. Aq. Biota): [1]			190	none	[C - 1]	11 (for Cr-VI)	[C - 2]	1.0	[C - 3]	none	0.2 [5]	[C - 4]	5	none	[C - 5]
Date	Lab	Type *													
Earlier data are archived to conserve space [6]															
5/5/1999	Endyne	Total	**< 5**		**< 3**	< 10	**<** 0.010	0.313	**<** 2	0.072	**< 1**	**<** 20			< 0.010
10/11/1999	Endyne	Total	**< 5**		**< 3**	< 10	**<** 0.010	0.419	**<** 2	0.06	**< 1**	< 20			< 0.010
5/3/2000	Endyne	Total	**< 5**		**< 3**	< 10	**<** 0.010	0.326	**<** 2	0.042	**< 1**	< 20			0.040
10/9/2000	Endyne	Total	**< 5**		**< 3**	< 10	**<** 0.010	0.659	**<** 2	0.062	**< 1**	< 20			< 0.010
5/3/2001	Endyne	Total	**3**		**< 3**	< 10	**<** 0.010	0.766	**<** 2	0.057	**< 2**	< 20			< 0.020
10/2/2001	Endyne	Total	**3**		**< 3**	< 10	**NA**	0.63	**<** 2	0.099	**< 1**	< 20			0.022
5/1/2002	Endyne	Total	< 2		**< 3**	< 10	**<** 0.010	0.239	**<** 2	0.047	**< 1**	36			0.079
10/2/2002	Endyne	Total	< 2		**< 3**	< 10	**<** 0.010	0.402	**<** 2	0.055	**< 1**	< 20			< 0.020
5/5/2003	Endyne	Total	< 2		**< 3**	< 10	**<** 0.010	0.477	**<** 2	0.036		< 20			< 0.020
10/1/2003	Endyne	Total	**3**		**< 3**	< 10	**<** 0.010	0.550	**<** 2	0.066	**< 1**	< 20			< 0.020
5/4/2004	Endyne	Total	< 2		**< 3**	< 10	**<** 0.010	0.315	**<** 2	0.056	**< 1**	< 20			< 0.020
10/5/2004	Endyne	Total	< 2		**< 3**	< 10	**<** 0.010	0.536	**<** 2	0.079	**< 1**	< 20			< 0.020
5/2/2005	Endyne	Total	< 2		**< 3**	< 10	**<** 0.010	0.396	**<** 2	0.037	**< 1**	< 20			< 0.020
10/3/2005	Endyne	Total	2		**< 2**	< 10	**<** 0.010	0.658	**<** 2	0.092	**< 1**	< 20			< 0.020
5/1/2006	Endyne	Total	< 2		**< 2**	< 10	**<** 0.010	0.848	**< 10**	0.083	**< 1**	< 20			< 0.020
10/2/2006	Endyne	Total	**4**		**< 2**	< **20**	**< 0.020**	0.973	2	0.079	**< 1**	< 20			< 0.020
4/30/2007	Endyne	Total	< 2		**< 2**	< **20**	**< 0.020**	0.625	< 1	0.039	**< 1**	< 20			< 0.020
10/3/2007	Endyne	Total	2		**< 2**	< **20**	**< 0.020**	0.791	< 1	0.117	**< 1**	< 20			< 0.020
5/6/2008	Endyne	Total	< 2	< 0.020	**< 2**	< **20**	**< 0.020**	0.620	< 1	0.075	**< 1**	< 20			< 0.020
10/6/2008	Endyne	Total	< 2	< 0.020	**< 2**	< **20**	**< 0.020**	0.500	< 1	0.080	**< 1**	< 20	< 2		< 0.020
5/6/2009	Endyne	Total	< 2	< 0.020	**< 2**	< **20**	**< 0.020**	0.590	< 1	0.092	**< 1**	< 20	< 2		< 0.020
10/6/2009	Endyne	Total	< 2	< 0.020	**< 2**	< **20**	**< 0.020**	0.650	< 1	0.075	**< 1**	< 20	< 2		< 0.020
5/3/2010	Endyne	Total	< 1	< 0.020	**< 2**	< 5	**< 0.020**	0.340	< 1	0.040	< 0.2	< 5	< 2		< 0.005
10/4/2010	Endyne	Total	1	< 0.020	**< 2**	< 5	**< 0.020**	**1.100**	< 1	0.065	< 0.2	< 5	< 2		< 0.005
5/3/2011	Endyne	Total	< 1	< 0.020	**< 2**	< 5	**< 0.020**	0.230	< 1	< 0.020	< 0.2	< 5	< 2		< 0.005
10/3/2011	Endyne	Total	2	< 0.020	**< 2**	< 5	**< 0.020**	**1.80**	< 1	0.079	< 0.2	< 5	< 2		< 0.020
5/1/2012	Endyne	Total	1	< 0.020	**< 2**	< 5	**< 0.020**	0.56	< 1	0.061	< 0.2	< 5	< 2		< 0.020
10/1/2012	Endyne	Total	2	< 0.020	**< 2**	< 5	**< 0.020**	0.770	< 1	0.086	< 0.2	< 5	< 2		< 0.020
5/8/2013	Endyne	Total	**3**	< 0.020	**< 2**	< 5	**< 0.020**	**1.100**	< 1	0.480	< 0.2	< 5	< 2		< 0.020
10/9/2013	Endyne	Total	2	< 0.020	**< 2**	< 5	**< 0.020**	0.700	< 1	0.084	< 0.2	< 5	< 2		< 0.020
5/7/2014	Endyne	Total	< 1	< 0.020	**< 2**	< 5	**< 0.020**	0.600	< 1	0.044	< 0.2	< 5	< 2		< 0.020
10/9/2014	Endyne	Total	1	< 0.020	**< 2**	< 5	**< 0.020**	0.690	< 1	0.110	< 0.2	< 5	< 2		< 0.020

Labs: MES = Lab unknown (sampled and reported by Marshfield Engineering Services, Marshfield, VT)
IEA = Industrial and Environmental Analysts, Inc., Essex Junction, VT
State = State of Vermont, Department of Water Resources; Endyne = Endyne, Inc., Williston, V
Shading bold indicates exceedance of Surface Water Quality Standard, Prot. Human Healt
[1] Vt Water Quality Standards (12/30/11, no change from 08), Appendix C: Protection of Human Health (consumption of organisms only).
If no Human Health standard is shown, the standard for Protection of Aquatic Biota, Chronic Criteria is calculated in table at righ
[2] Analysis also included Beryllium <1 ug/l, Antimony <10 ug/l, Thallium <2 ug/l, Sulfate 6.9 mg/l, NO2 + NO3 4.44 mg/l
[3] Analysis also included Beryllium <1 ug/l, Antimony <10 ug/l, Thallium <2 ug/l, Sulfate 8.7 mg/l, NO3 0.31 mg
[4] Samples inadvertently analyzed for dissolved metals; permit calls for total metals analysi
[5] Arsenic std. of 2 ppm, and Mercury std. of 0.2 ppb are the ANR Laboratory's Practical Quantitation Limits, for the specifi
purposes of SWMD; per telecon S. Bushman, SWMD, 9/7/93
[6] Data between 1981 and 1998 are archived to conserve table space and can be shown upon request. Statistics are not required to be ru

Calculation formulas for WQ Standards for Prot.of Aquatic Biota, Chronic Crit.: [1]	**WQ Std. 10/9/2014**
Cadmium: [C - 1] = exp(0.7852 * ln(hardness) - 3.490)	1.15 ppb
Copper: [C - 2] = exp(0.8545 * ln(hardness) - 1.465)	0.012 mg/l
Lead: [C - 3] = exp(1.273 * ln(hardness) - 4.705)	3.26 ppb
Nickel: [C - 4] = exp(0.8460 * ln(hardness) + 1.1645)	160 ppb
Zinc: [C - 5] = exp(0.8473 * ln(hardness) + 0.7614)	0.108 mg/l
10/9/14 hardness = 102 mg/l	

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Station: SW-3 Landfill Brook Southeast

			Arsenic (ug/l)	Barium (mg/l)	Cadmium (ug/l)	Chromium (ug/l)	Copper (mg/l)	Iron (mg/l)	Lead (ug/l)	Mang. (mg/l)	Mercury (ug/l)	Nickel (ug/l)	Selenium (ug/l)	Silver (ug/l)	Zinc (mg/l)
VT WQ Standard (Prot. Human Health): [1]			2 [5]	none	none	none	none	none	none	none	0.2 [5]	4,600	none	none	none
VT WQ Standard (Prot. Aq. Biota): [1]			190	none	[C - 1]	11 (for Cr-VI)	[C - 2]	1.0	[C - 3]	none	0.2 [5]	[C - 4]	5	none	[C - 5]
Date	Lab	Type *													
Earlier data are archived to conserve space [6]															
5/5/1999	NS														
10/11/1999	NS														
5/3/2000	Endyne	Total	**< 5**		**< 3**	< 10	< 0.010	0.326	**<** 7	0.125	**< 1**	< 20			0.012
10/9/2000	Endyne	Total	**< 5**		**< 3**	< 10	**< 1.010**	0.311	**<** 7	0.379	**< 1**	< 20			< 0.010
5/3/2001	NS														
10/2/2001	NS														
5/1/2002	Endyne	Total	2		**< 3**	< 10	< 0.010	1.00	< 2	0.050	**< 1**	33			< 0.020
10/2/2002	Endyne	NS													
5/5/2003	Endyne	Total	**3**		**< 3**	< 10	< 0.010	**2.48**	< 2	0.076		< 20			< 0.020
10/2/2003	Endyne	NS													
5/4/2004	Endyne	Total	< 2		**< 3**	< 10	< 0.010	**1.18**	3	0.067	**< 1**	< 20			< 0.020
10/5/2004	Endyne	NS													
5/3/2005	Endyne	Total	2		**< 3**	< 10	< 0.010	**1.03**	< 2	0.224	**< 1**	< 20			< 0.020
10/3/2005	Endyne	NS													
5/1/2006	Endyne	NS													
10/2/2006	Endyne	NS													
4/30/2007	Endyne	NS													
10/3/2007	Endyne	NS													
5/6/2008	Endyne	NS													
10/6/2008	Endyne	NS													
5/6/2009	Endyne	NS													
10/6/2009	Endyne	NS													
5/3/2010	DRY	NS													
10/4/2010	DRY	NS													
5/3/2011	Endyne	Total	**4**	0.023	< 2	< 5	< 0.020	0.89	< 1	0.660	< 0.2	0	< 2		0.006
10/3/2011	Endyne	Total	**3**	0.031	< 2	< 5	< 0.020	**2.50**	< 1	0.100	< 0.2	240	< 2		< 0.020
5/1/2012	Endyne	Total	2	0.047	< 2	< 5	< 0.020	**1.10**	< 1	0.130	< 0.2	8	< 2		< 0.020
10/1/2012	Endyne	Total	2	0.040	< 2	< 5	< 0.020	0.81	< 1	0.039	< 0.2	< 5	< 2		< 0.020
5/8/2013	Endyne	Total	**4**	0.025	< 2	< 5	< 0.020	**1.10**	8.0	0.093	< 0.2	7	< 2		< 0.020
10/9/2013	Endyne	Total	2	0.025	< 2	< 5	< 0.020	0.49	< 1	0.055	< 0.2	< 5	< 2		< 0.020
5/7/2014	Endyne	Total	**3**	0.042	< 2	< 5	< 0.020	**1.10**	2.0	0.300	< 0.2	9	< 2		< 0.020
10/9/2014	Endyne	Total	1	0.026	< 2	< 5	< 0.020	0.47	< 1	0.045	< 0.2	< 5	< 2		< 0.020

Labs: MES = Lab unknown (sampled and reported by Marshfield Engineering Services, Marshfield, VT)
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State = State of Vermont, Department of Water Resources; Endyne = Endyne, Inc., Williston, V
Shading bold indicates exceedance of Surface Water Quality Standard, Prot. Human Healt
[1] Vt Water Quality Standards (12/30/11, no change from 08), Appendix C: Protection of Human Health (consumption of organisms only).
If no Human Health standard is shown, the standard for Protection of Aquatic Biota, Chronic Criteria is calculated in table at righ
[2] Analysis also included Beryllium <1 ug/l, Antimony <10 ug/l, Thallium <2 ug/l, Sulfate 6.9 mg/l, NO2 + NO3 4.44 mg/l
[3] Analysis also included Beryllium <1 ug/l, Antimony <10 ug/l, Thallium <2 ug/l, Sulfate 8.7 mg/l, NO3 0.31 mg
[4] Samples inadvertently analyzed for dissolved metals; permit calls for total metals analysi
[5] Arsenic std. of 2 ppm, and Mercury std. of 0.2 ppb are the ANR Laboratory's Practical Quantitation Limits, for the specifi
purposes of SWMD; per telecon S. Bushman, SWMD, 9/7/93
[6] Data between 1981 and 1998 are archived to conserve table space and can be shown upon request. Statistics are not required to be ru

Calculation formulas for WQ Standards for Prot.of Aquatic Biota, Chronic Crit.: [1]	**WQ Std. 10/9/2014**
Cadmium: [C - 1] = exp(0.7852 * ln(hardness) - 3.490)	2.17 ppb
Copper: [C - 2] = exp(0.8545 * ln(hardness) - 1.465)	0.024 mg/l
Lead: [C - 3] = exp(1.273 * ln(hardness) - 4.705)	9.08 ppb
Nickel: [C - 4] = exp(0.8460 * ln(hardness) + 1.1645)	317 ppb
Zinc: [C - 5] = exp(0.8473 * ln(hardness) + 0.7614)	0.213 mg/l
10/9/14 hardness = 228 mg/l	

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Station: **SW-4 Landfill Brook Downstream**

			Arsenic (ug/l)	Barium (mg/l)	Cadmium (ug/l)	Chromium (ug/l)	Copper (mg/l)	Iron (mg/l)	Lead (ug/l)	Mang. (mg/l)	Mercury (ug/l)	Nickel (ug/l)	Selenium (ug/l)	Silver (ug/l)	Zinc (mg/l)
VT WQ Standard (Prot. Human Health): [1]			2 [5]	none	none	none	none	none	none	none	0.2 [5]	4,600	none	none	none
VT WQ Standard (Prot. Aq. Biota): [1]			190	none	[C - 1]	11 (for Cr-VI)	[C - 2]	1.0	[C - 3]	none	0.2 [5]	[C - 4]	5	none	[C - 5]
Date	Lab	Type *													
Earlier data are archived to conserve space [6]															
5/5/1999	Endyne	Total	**< 5**		**< 3**	< 10	< 0.010	0.611	< 2	0.525	**< 1**	< 20			< 0.010
10/11/1999	Endyne	Total	**< 5**		**< 3**	< 10	< 0.010	0.286	< 2	0.074	**< 1**	< 20			< 0.010
5/4/2000	Endyne	Total	**< 5**		**< 3**	< 10	< 0.010	0.151	< 2	0.092	**< 1**	< 20			< 0.010
10/9/2000	Endyne	Total	**< 5**		**< 3**	< 10	< 0.010	0.311	< 2	0.379	**< 1**	< 20			< 0.010
5/3/2001	Endyne	Total	< 2		**< 3**	< 10	< 0.010	0.306	< 2	0.250	**< 2**	< 20			< 0.020
10/2/2001	NS														
5/1/2002	Endyne	Total	< 2		**< 3**	< 10	0.011	0.096	< 2	0.030	**< 1**	24			< 0.020
10/2/2002	Endyne	Total	< 2		**< 3**	< 10	< 0.010	0.120	< 2	0.246	**< 1**	< 20			< 0.020
5/5/2003	Endyne	Total	< 2		**< 3**	< 10	< 0.010	0.079	< 2	0.016		< 20			< 0.020
10/1/2003	Endyne	Total	< 2		**< 3**	< 10	< 0.010	0.266	< 2	0.113	**< 1**	< 20			< 0.020
5/4/2004	Endyne	Total	< 2		**< 3**	< 10	< 0.010	0.063	< 2	0.053	**< 1**	< 20			< 0.020
10/5/2004	Endyne	Total	< 2		**< 3**	< 10	0.010	**1.040**	< 2	5.450	**< 1**	< 20			< 0.020
5/2/2005	Endyne	Total	< 2		**< 3**	< 10	< 0.010	0.094	< 2	0.164	**< 1**	< 20			< 0.020
10/3/2005	Endyne	Total	< 2		**< 2**	< 10	< 0.010	0.118	< 2	0.176	**< 1**	< 20			< 0.020
5/1/2006	Endyne	Total	< 2		**< 2**	< 10	< 0.010	0.779	**< 10**	0.219	**< 1**	< 20			< 0.020
10/2/2006	Endyne	Total	**3**		**< 2**	< 20	< 0.020	**1.460**	< 1	0.775	**< 1**	< 20			< 0.020
4/30/2007	Endyne	Total	2		**< 2**	< 20	< 0.020	**1.180**	< 1	0.833	**< 1**	< 20			< 0.020
10/3/2007	Endyne	Total	< 2		**< 2**	< 20	< 0.020	**1.530**	< 2	1.500	**< 1**	< 20			< 0.020
5/6/2008	Endyne	Total	< 2	0.025	**< 2**	< 20	< 0.020	0.240	< 1	0.290	**< 1**	< 20			< 0.020
10/6/2008	Endyne	Total	**3**	0.028	**< 2**	< 20	< 0.020	**2.900**	< 1	0.790	**< 1**	< 20	< 2		< 0.020
5/6/2009	Endyne	Total	< 2	< 0.020	**< 2**	< 20	< 0.020	1.000	< 1	0.270	**< 1**	< 20	< 2		< 0.020
10/6/2009	Endyne	Total	< 2	< 0.020	**< 2**	< 20	< 0.020	0.290	< 1	0.220	**< 1**	< 20	< 2		< 0.020
5/3/2010	Endyne	Total	< 1	0.023	**< 2**	< 5	< 0.020	0.160	< 1	0.110	< 0.2	< 5	< 2		< 0.005
10/4/2010	Endyne	Total	< 1	0.020	**< 2**	< 5	< 0.020	0.220	< 1	0.062	< 0.2	< 5	< 2		< 0.005
5/3/2011	Endyne	Total	< 1	< 0.020	**< 2**	< 5	< 0.020	0.065	< 1	0.037	< 0.2	< 5	< 2		< 0.005
10/3/2011	Endyne	Total	< 1	< 0.020	**< 2**	< 5	< 0.020	0.180	< 1	0.042	< 0.2	< 5	< 2		< 0.020
5/1/2012	Endyne	Total	1	0.039	**< 2**	< 5	< 0.020	0.900	< 1	0.130	< 0.2	< 5	< 2		< 0.020
10/1/2012	Endyne	Total	< 1	0.046	**< 2**	< 5	< 0.020	0.170	< 1	0.620	< 0.2	< 5	< 2		< 0.020
5/8/2013	Endyne	Total	< 1	0.021	**< 2**	< 5	< 0.020	0.470	< 1	0.250	< 0.2	< 5	< 2		< 0.020
10/9/2013	Endyne	Total	< 1	< 0.020	**< 2**	< 5	< 0.020	0.480	< 1	0.390	< 0.2	< 5	< 2		< 0.020
5/7/20104	Endyne	Total	< 1	0.022	**< 2**	< 5	< 0.020	0.340	< 1	0.270	< 0.2	5	< 2		< 0.020
10/9/2014	Endyne	Total	< 1	< 0.020	**< 2**	< 5	< 0.020	0.670	< 1	0.190	< 0.2	< 5	< 2		< 0.020

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Shading bold indicates exceedance of Surface Water Quality Standard, Prot. Human Healt
[1] Vt Water Quality Standards (12/30/11, no change from 08), Appendix C: Protection of Human Health (consumption of organisms only).
If no Human Health standard is shown, the standard for Protection of Aquatic Biota, Chronic Criteria is calculated in table at righ
[2] Analysis also included Beryllium <1 ug/l, Antimony <10 ug/l, Thallium <2 ug/l, Sulfate 6.9 mg/l, NO2 + NO3 4.44 mg/l
[3] Analysis also included Beryllium <1 ug/l, Antimony <10 ug/l, Thallium <2 ug/l, Sulfate 8.7 mg/l, NO3 0.31 mg/l
[4] Samples inadvertently analyzed for dissolved metals; permit calls for total metals analysi
[5] Arsenic std. of 2 ppm, and Mercury std. of 0.2 ppb are the ANR Laboratory's Practical Quantitation Limits, for the specifi
purposes of SWMD; per telecon S. Bushman, SWMD, 9/7/93
[6] Data between 1981 and 1998 are archived to conserve table space and can be shown upon request. Statistics are not required to be ru

Calculation formulas for WQ Standards for Prot.of Aquatic Biota, Chronic Crit.: [1]	**WQ Std. 10/9/2014**
Cadmium: [C - 1] = exp(0.7852 * ln(hardness) - 3.490)	2.37 ppb
Copper: [C - 2] = exp(0.8545 * ln(hardness) - 1.465)	0.026 mg/l
Lead: [C - 3] = exp(1.273 * ln(hardness) - 4.705)	10.53 ppb
Nickel: [C - 4] = exp(0.8460 * ln(hardness) + 1.1645)	349 ppb
Zinc: [C - 5] = exp(0.8473 * ln(hardness) + 0.7614)	0.235 mg/l
10/9/14 hardness = 256 mg/l	

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Station: SW-5 St. Onge Stream Upstream

			Arsenic (ug/l)	Barium (mg/l)	Cadmium (ug/l)	Chromium (ug/l)	Copper (mg/l)	Iron (mg/l)	Lead (ug/l)	Mang. (mg/l)	Mercury (ug/l)	Nickel (ug/l)	Zinc (mg/l)
VT WQ Standard (Prot. Human Health): [1]			2	none	none	none	none	none	none	none	0.2 [5]	4,600	none
VT WQ Standard (Prot. Aq. Biota): [1]			190	none	[C - 1]	11 (for Cr-VI)	[C - 2]	1.0	[C - 3]	none	0.2 [5]	[C - 4]	[C - 5]
Date	Lab	Type											
10/28/2004	Endyne	Total	**3**		**<** 3	< 10	< 0.010	0.590	< 2	0.493	**< 1**	< 20	< 0.020
5/3/2005	Endyne	Total	< 2		**<** 3	< 10	< 0.010	0.570	< 2	0.486	**< 1**	< 20	< 0.020
10/3/2005	Endyne	Total	**7**		< 2	< 10	< 0.010	**3.58**	< 3	2.250	**< 1**	< 20	< 0.020
5/1/2006	Endyne	Total	**10**		< 2	**14**	< 0.014	**7.80**	**<** 10	1.020	**< 1**	26	< 0.027
10/2/2006	Endyne	Total	**9**		< 2	**< 20**	< 0.020	**6.71**	1	2.920	**< 1**	< 20	< 0.020
4/30/2007	Endyne	Total	**4**		< 2	**< 20**	< 0.020	**6.59**	3	0.418	**< 1**	< 20	0.026
10/3/2007	Endyne	Total	**7**		< 2	**< 20**	< 0.020	**5.77**	1	1.87	**< 1**	< 20	< 0.020
5/6/2008	Endyne	Total	< 2	< 0.020	< 2	**< 20**	< 0.020	0.93	1	0.35	**< 1**	< 20	< 0.020
10/6/2008	Endyne	Total	**5**	0.049	< 2	**< 20**	< 0.020	**4.30**	< 1	2.30	**< 1**	< 20	< 0.020
5/6/2009	Endyne	Total	**7**	0.050	< 2	**< 20**	< 0.020	**4.70**	< 1	3.40	**< 1**	< 20	< 0.020
10/6/2009	Endyne	Total	**5**	0.330	< 2	**42**	0.022	**73.00**	**18**	34.00	**< 1**	83	0.130
5/3/2010	Endyne	Total	**3**	0.027	< 2	< 5	< 0.020	**2.20**	< 1	0.56	< 0.2	5	< 0.005
10/4/2010	Endyne	Total	1	0.020	< 2	< 5	< 0.020	0.73	< 1	0.070	< 0.2	< 5	< 0.005
5/3/2011	Endyne	Total	**3**	< 0.020	< 2	< 5	**0.034**	**1.30**	< 1	0.540	< 0.2	< 5	0.014
10/3/2011	Endyne	Total	**5**	0.039	< 2	8	< 0.020	**4.00**	1	0.160	< 0.2	12	< 0.020
5/1/2012	Endyne	Total	1	0.043	< 2	< 5	< 0.020	0.86	< 1	0.480	< 0.2	< 5	< 0.020
10/1/2012	Endyne	Total	**7**	0.071	< 2	**16**	< 0.020	**12.00**	5	1.70	< 0.2	24	0.034
5/8/2013	Endyne	Total	1	0.028	< 2	< 5	< 0.020	0.10	< 1	0.17	< 0.2	< 5	< 0.020
10/9/2013	Endyne	Total	**5**	0.027	< 2	< 5	< 0.020	**4.70**	< 1	1.60	< 0.2	< 5	< 0.020
5/7/25014	Endyne	Total	< 1	< 0.020	< 2	< 5	< 0.020	0.88	< 1	0.42	< 0.2	< 5	< 0.020
10/9/2014	Endyne	Total	2	< 0.020	< 2	< 5	< 0.020	0.76	< 1	0.96	< 0.2	< 5	< 0.020

Calculation formulas for WQ Standards for Prot.of Aquatic Biota, Chronic Crit.: [1]	**WQ Std. 10/9/2014**
Cadmium: [C - 1] = exp(0.7852 * ln(hardness) - 3.490)	2.41 ppb
Copper: [C - 2] = exp(0.8545 * ln(hardness) - 1.465)	0.027 mg/l
Lead: [C - 3] = exp(1.273 * ln(hardness) - 4.705)	11 ppb
Nickel: [C - 4] = exp(0.8460 * ln(hardness) + 1.1645)	355 ppb
Zinc: [C - 5] = exp(0.8473 * ln(hardness) + 0.7614)	0.239 mg/l
10/9/14 hardness = 261 mg/l	

Shading bold indicates exceedance of Surface Water Quality Standard, Prot. Human Health

[1] Vt Water Quality Standards (12/30/11, no change from 08), Appendix C: Protection of Human Health (consumption of organisms only).

[5] Arsenic, Mercury: VT Surface Water Std. is the ANR Laboratory's Practical Quantitation Limit, for the specific purposes of SWMD; per telecon S. Bushman, SWMD, 9/7/93

[2008] Vermont Water Quality Standards, Appendix C: Protection of Human Health, Consumption of organisms only. Effective January 1, 2008.

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Station: SW-6 Eastern Stream Downstream

			Arsenic (ug/l)	Barium (mg/l)	Cadmium (ug/l)	Chromium (ug/l)	Copper (mg/l)	Iron (mg/l)	Lead (ug/l)	Mang. (mg/l)	Mercury (ug/l)	Nickel (ug/l)	Zinc (mg/l)
VT WQ Standard (Prot. Human Health): [1]			2 [5]	none	none	none	none	none	none	none	0.2 [5]	4,600	none
VT WQ Standard (Prot. Aq. Biota): [1]			190	none	[C - 1]	11 (for Cr-VI)	[C - 2]	1.0	[C - 3]	none	0.2 [5]	[C - 4]	[C - 5]
Date	Lab	Type											
10/28/2004	Endyne	NS											
5/2/2005	Endyne	Total	< 2		< 3	< 10	< 0.010	0.415	< 2	0.164	< 1	< 20	< 0.020
10/3/2005	Endyne	NS											
5/1/2006	Endyne	Total	**38**		2	**51**	0.029	**32.9**	15	3.650	< 1	82	0.117
10/2/2006	Endyne	Total	**38**		2	**51**	0.029	**32.9**	15	3.650	< 1	82	0.117
4/30/2007	Endyne	Total	**7**		< 2	< **20**	< 0.020	**6.5**	4	0.421	< 1	< 20	0.023
10/3/2007	Endyne	NS											
5/6/2008	Endyne	Total	**9**	0.18	< 2	< **20**	< 0.020	**12.0**	15	2.800	< 1	56	0.058
10/6/2008	Endyne	NS											
5/6/2009	Endyne	Total	**13**	0.071	< 2	**24**	< 0.020	**17.0**	8	1.200	< 1	48	0.051
10/6/2009	Endyne	Total	< 2		< 2	< **20**	< 0.020	0.370	< 1	0.022	< 1	< 20	< 0.020
5/3/2010	Endyne	Total	2	0.023	< 2	< 5	< 0.020	**1.700**	< 1	0.270	< 0.2	< 5	0.007
10/4/2010	Endyne	Total	2	< 0.020	< 2	< 5	< 0.020	**1.400**	< 1	0.210	< 0.2	< 5	0.005
5/3/2011	Endyne	Total	< 1	0.027	< 2	< 5	< 0.020	0.290	< 1	0.096	< 0.2	< 5	< 0.005
10/3/2011	Endyne	Total	< 1	< 0.020	< 2	< 5	< 0.020	0.200	< 1	0.081	< 0.2	< 5	< 0.020
5/1/2012	Endyne	Total	**5**	0.091	< 2	5	< 0.020	**5.7**	3	1.700	< 0.2	15	0.029
10/1/2012	Endyne	NS											
5/8/2013	Endyne	Total	**10**	0.066	< 2	**13**	< 0.020	**14.0**	8	1.600	< 0.2	27	0.051
10/9/2013	Endyne	Total	**3**	0.039	< 2	< 5	< 0.020	**4.2**	1	1.000	< 0.2	13	< 0.020
5/7/2014	Endyne	Total	**4**	0.032	< 2	< 5	< 0.020	**3.6**	2	0.920	< 0.2	9	< 0.020
10/9/2014	Endyne	NS											

Calculation formulas for WQ Standards for Prot.of Aquatic Biota, Chronic Crit.: [1]	**WQ Std. 10/9/2014**
Cadmium: [C - 1] = exp(0.7852 * ln(hardness) - 3.490)	#NUM! ppb
Copper: [C - 2] = exp(0.8545 * ln(hardness) - 1.465)	#NUM! mg/l
Lead: [C - 3] = exp(1.273 * ln(hardness) - 4.705)	#NUM! ppb
Nickel: [C - 4] = exp(0.8460 * ln(hardness) + 1.1645)	#NUM! ppb
Zinc: [C - 5] = exp(0.8473 * ln(hardness) + 0.7614)	#NUM! mg/l
10/9/14 hardness = mg/l	

Shading bold indicates exceedance of Surface Water Quality Standard, Prot. Human Health
[1] Vt Water Quality Standards (12/30/11, no change from 08), Appendix C: Protection of Human Health (consumption of organisms only).
[5] Arsenic, Mercury: VT Surface Water Std. is the ANR Laboratory's Practical Quantitation Limit, for the specific purposes of SWMD; per telecon S. Bushman, SWMD, 9/7/93
[2008] Vermont Water Quality Standards, Appendix C: Protection of Human Health, Consumption of organisms only. Effective January 1, 2008.
NS = Not Sampled because the stream was dry.

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Station: SW-7 Western Stream Below UD-3,4 Downstream

			Arsenic (ug/l)	Barium (mg/l)	Cadmium (ug/l)	Chromium (ug/l)	Copper (mg/l)	Iron (mg/l)	Lead (ug/l)	Mang. (mg/l)	Mercury (ug/l)	Nickel (ug/l)	Zinc (mg/l)
VT WQ Standard (Prot. Human Health): [1]			2 [5]	none	none	none	none	none	none	none	0.2 [5]	4,600	none
VT WQ Standard (Prot. Aq. Biota): [1]			190	none	[C - 1]	11 (for Cr-VI)	[C - 2]	1.0	[C - 3]	none	0.2 [5]	[C - 4]	[C - 5]
Date	Lab	Type											
10/28/2004	Endyne	Total	**7**		**< 3**	< 10	< 0.010	0.136		0.018	**< 1**	< 20	< 0.020
5/2/2005	Endyne	Total	**15**		**< 3**	< 10	< 0.010	**1.790**	< 2	0.264	**< 1**	< 20	< 0.020
10/3/2005	Endyne	Total	**6**		< 2	< 10	< 0.010	0.754	< 2	0.247	**< 1**	< 20	< 0.020
5/1/2006	Endyne	Total	**20**		< 2	< 10	< 0.010	**2.90**	**< 10**	0.359	**< 1**	< 20	< 0.020
10/2/2006	Endyne	Total	**21**		< 2	**< 20**	< 0.020	**1.30**	< 1	0.478	**< 1**	< 20	< 0.020
4/30/2007	Endyne	Total	**36**		< 2	**< 20**	< 0.020	**6.83**	4	1.640	**< 1**	< 20	0.024
10/3/2007	Endyne	Total	**14**		< 2	**< 20**	< 0.020	**2.60**	< 1	0.505	**< 1**	< 20	< 0.020
5/6/2008	Endyne	Total	**8**	0.025	< 2	**< 20**	< 0.020	0.590	1	0.140	**< 1**	21	< 0.020
10/6/2008	Endyne	Total	**7**	0.020	< 2	**< 20**	< 0.020	0.120	< 1	0.110	**< 1**	< 20	< 0.020
5/6/2009	Endyne	Total	**24**	0.032	< 2	**< 20**	< 0.020	**2.400**	< 1	0.470	**1**	< 20	< 0.020
10/6/2009	Endyne	Total	**9**	0.031	< 2	**< 20**	< 0.020	0.860	< 1	0.160	**1**	20	0.063
5/3/2010	Endyne	Total	**6**	0.033	< 2	< 5	< 0.020	0.330	< 1	0.075	< 0.2	< 5	< 0.005
10/4/2010	Endyne	Total	**6**	0.03	< 2	< 5	< 0.020	0.260	< 1	0.150	< 0.2	< 5	< 0.005
5/3/2011	Endyne	Total	< 1	0.038	< 2	< 5	< 0.020	0.230	< 1	0.550	< 0.2	< 5	< 0.005
10/3/2011	Endyne	Total	**9**	0.030	< 2	< 5	< 0.020	0.630	< 1	0.190	< 0.2	< 5	< 0.020
5/1/2012	Endyne	Total	**45**	0.081	< 2	5	< 0.020	**7.500**	3	1.200	< 0.2	10	0.026
10/1/2012	Endyne	Total	**5**	0.032	< 2	< 5	< 0.020	0.340	< 1	0.170	< 0.2	< 5	< 0.020
5/8/2013	Endyne	Total	**4**	0.034	< 2	< 5	< 0.020	0.240	< 1	0.120	< 0.2	< 5	< 0.020
10/9/2013	Endyne	Total	**5**	0.035	< 2	< 5	< 0.020	0.310	< 1	0.110	< 0.2	< 5	< 0.020
5/7/2014	Endyne	Total	**10**	0.033	< 2	< 5	< 0.020	0.850	< 1	0.200	< 0.2	< 5	< 0.020
10/9/2014	Endyne	Total	**7**	0.038	< 2	< 5	< 0.020	0.460	< 1	0.110	< 0.2	< 5	< 0.020

Calculation formulas for WQ Standards for Prot.of Aquatic Biota, Chronic Crit.: [1]	**WQ Std. 10/9/2014**
Cadmium: [C - 1] = exp(0.7852 * ln(hardness) - 3.490)	2.22 ppb
Copper: [C - 2] = exp(0.8545 * ln(hardness) - 1.465)	0.025 mg/l
Lead: [C - 3] = exp(1.273 * ln(hardness) - 4.705)	9 ppb
Nickel: [C - 4] = exp(0.8460 * ln(hardness) + 1.1645)	325 ppb
Zinc: [C - 5] = exp(0.8473 * ln(hardness) + 0.7614)	0.219 mg/l
10/9/14 hardness = 235 mg/l	

Shading bold indicates exceedance of Surface Water Quality Standard, Prot. Human Health

[1] Vt Water Quality Standards (12/30/11, no change from 08), Appendix C: Protection of Human Health (consumption of organisms only).

[5] Arsenic, Mercury: VT Surface Water Std. is the ANR Laboratory's Practical Quantitation Limit, for the specific purposes of SWMD; per telecon S. Bushman, SWMD, 9/7/93

[2008] Vermont Water Quality Standards, Appendix C: Protection of Human Health, Consumption of organisms only. Effective January 1, 2008.

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Station: SW-8 Wetland Below UD-1, 2 Downstream

			Arsenic (ug/l)	Barium (mg/l)	Cadmium (ug/l)	Chromium (ug/l)	Copper (mg/l)	Iron (mg/l)	Lead (ug/l)	Mang. (mg/l)	Mercury (ug/l)	Nickel (ug/l)	Zinc (mg/l)
VT WQ Standard (Prot. Human Health): [1]			2 [5]	none	none	none	none	none	none	none	0.2 [5]	4,600	none
VT WQ Standard (Prot. Aq. Biota): [1]			190	none	[C - 1]	11 (for Cr-VI)	[C - 2]	1.0	[C - 3]	none	0.2 [5]	[C - 4]	[C - 5]
Date	Lab	Type											
10/28/2004	Endyne	Total	**18**		**< 3**	**13**	< 0.010	**13.5**	6	1.730	**< 1**	22	0.061
5/2/2005	Endyne	Total	**131**		**< 3**	**34**	**0.048**	**161.0**	2	29.10	**< 1**	103	0.267
10/3/2005	Endyne	Total	**24**		< 2	**13**	< 0.010	**24.4**	9	0.883	**< 1**	< 20	0.046
5/1/2006	Endyne	Total	2		< 2	10	0.012	0.471	< 10	0.151	**< 1**	< 20	< 0.020
10/2/2006	Endyne	Total	**6**		< 2	**20**	< 0.020	**2.120**	1	0.901	**< 1**	< 20	< 0.020
4/30/2007	Endyne	Total	< 2		< 2	**< 20**	**< 20.0**	0.500	< 1	0.203	**< 1**	< 20	< 0.020
10/3/2007	Endyne	Total	**18**		< 2	**37**	**< 20.0**	**30.1**	< 10	3.670	**< 1**	66	0.094
5/6/2008	Endyne	Total	< 2	0.024	< 2	**< 20**	**< 20.0**	0.770	< 1	0.360	**< 1**	< 20	< 0.020
10/6/2008	Endyne	Total	< 2	0.021	< 2	**< 20**	**< 20.0**	**1.300**	<' 1	0.300	**< 1**	< 20	< 0.020
5/6/2009	Endyne	Total	**16**	0.120	< 2	**27**	< 0.020	**30.0**	11	4.300	**< 1**	61	0.095
10/6/2009	Endyne	Total	< 2	0.022	< 2	**< 20**	< 0.020	**1.2**	< 1	< 1.00	**< 1**	< 20	< 0.020
5/3/2010	Endyne	Total	1	0.028	< 2	< 5	< 0.020	0.49	< 1	1.6	< 0.2	< 5	< 0.005
10/4/2010	Endyne	Total	< 1	0.025	< 2	< 5	< 0.020	0.10	< 1	< 0.020	< 0.2	7	< 0.005
5/3/2011	Endyne	Total	< 1	< 0.020	< 2	< 5	< 0.020	0.23	< 1	0.022	< 0.2	< 5	< 0.005
10/3/2011	Endyne	Total	1	0.035	< 2	< 5	< 0.020	**1.80**	< 1	0.360	< 0.2	< 6	0.015
5/1/2012	Endyne	Total	< 1	0.068	< 2	< 5	< 0.020	0.74	< 1	0.360	< 0.2	6	< 0.020
10/1/2012	Endyne	Total	2	0.032	< 2	< 5	< 0.020	**2.60**	1	1.200	< 0.2	< 5	< 0.020
5/8/2013	Endyne	Total	2	0.036	< 2	< 5	< 0.020	**4.10**	4	0.390	< 0.2	12	0.021
10/9/2013	Endyne	Total	< 1	< 0.020	< 2	< 5	< 0.020	0.56	< 1	0.560	< 0.2	< 5	< 0.020
5/7/2014	Endyne	Total	< 1	< 0.020	< 2	< 5	< 0.020	0.16	< 1	0.180	< 0.2	< 5	< 0.020
10/9/2014	Endyne	Total	2	0.026	< 2	< 5	< 0.020	**1.50**	< 1	2.000	< 0.2	5	< 0.020

Calculation formulas for WQ Standards for Prot.of Aquatic Biota, Chronic Crit.: [1]	**WQ Std. 10/9/2014**
Cadmium: [C - 1] = exp(0.7852 * ln(hardness) - 3.490)	2.76 ppb
Copper: [C - 2] = exp(0.8545 * ln(hardness) - 1.465)	0.031 mg/l
Lead: [C - 3] = exp(1.273 * ln(hardness) - 4.705)	13 ppb
Nickel: [C - 4] = exp(0.8460 * ln(hardness) + 1.1645)	412 ppb
Zinc: [C - 5] = exp(0.8473 * ln(hardness) + 0.7614)	0.277 mg/l
10/9/14 hardness = 311 mg/l	

Shading bold indicates exceedance of Surface Water Quality Standard, Prot. Human Health

[1] Vt Water Quality Standards (12/30/11, no change from 08), Appendix C: Protection of Human Health (consumption of organisms only).

[5] Arsenic, Mercury: VT Surface Water Std. is the ANR Laboratory's Practical Quantitation Limit, for the specific purposes of SWMD; per telecon S. Bushman, SWMD, 9/7/93

[2008] Vermont Water Quality Standards, Appendix C: Protection of Human Health, Consumption of organisms only. Effective January 1, 2008.

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Station: SW-1 Black River Upstream

			BOD (mg/l)	COD (mg/l)	Chloride (mg/l)	Specific Conductance (umhos) [3]	Hardness (mg/L)	pH (s.u.)	Sodium (mg/l)	Dissolved Oxygen (mg)	Temper-ature (°C)
Surface Water Std: Appendix C [1]			none	none	none	none	none	none	none	none	none
Date	Lab	Type									
Earlier data are archived to conserve space [2]											
5/5/1999	Endyne	Total		< 20	11.7	275	78.7	7.29	4.68	14.10	16
10/11/1999	Endyne	Total		< 15	10.0	145	77.7	6.38	4.76	13.90	11
5/3/2000	Endyne	Total		< 15	8.5	110	68.9	8.59	4.24	10.51	11
10/9/2000	Endyne	Total		20	6.8	510	82.7	9.62	4.47		7.15
5/3/2001	Endyne	Total		< 15	4.8	190	58.5	7.1	2.97	10.80	15.5
10/2/2001	Endyne	Total		< 15	< 2.5	456	109.0	8	7.19	7.30	13.3
5/1/2002	Endyne	Total		21	6.87	94	48.4	8.12	3.73	12.26	6.86
10/2/2002	Endyne	Total		< 15	9.90	170	80.4	8.38	5.62	11.11	13.68
5/5/2003	Endyne	Total		17	8.47	140	58.5	7.2	4.88		11.66
10/1/2003	Endyne	Total		18	10.40	147	68.8	8.32	4.87	17.50	11.64
5/4/2004	Endyne	Total		< 15	9.29	168	74.1	7.74	5.17	10.46	14.66
10/5/2004	Endyne	Total	< 2	< 15	12.0	230	103	7.92	6.58	10.85	11.38
5/2/2005	Endyne	Total	< 2.0	< 15	7.7	159	59	8.44	5.21		7.49
10/3/2005	Endyne	Total	2.0	< 15	9.59	235	84.5	6.95	6.55		12.89
5/1/2006	Endyne	Total	< 2.0	< 15	8.36	181	83.2	7.70	5.04		11.14
10/2/2006	Endyne	Total	< 2.0	18.0	8.80	202	91.8	6.57	5.62		11.25
4/30/2007	Endyne	Total		< 15	5.27	145	58.1	7.28	3.59		7.95
05/24/2007**	Endyne		< 2.0			193		8.07			15.03
10/4/2007	Endyne	Total	2.40	29	12.00	234	123	7.54	8.51		14.04
5/6/2008	Endyne	Total	< 2.0	< 10	14.00	182	71	7.23	11.00		9.72
10/6/2008	Endyne	Total	< 2.0	< 10	9.50	213	96	5.46	6.20		8.74
5/6/2009	Endyne	Total	< 2.0	27	17.00	188	86	6.00	6.90		12.59
10/6/2009	Endyne	Total	< 2.0	10	10.00	199	112	7.44	7.00		11.49
5/3/2010	Endyne	Total	< 2.0	14	4.70	137	60	7.98	3.60		13.31
10/4/2010	Endyne	Total	< 2.0	39	5.00	109	49	8.30	4.30		11.40
5/3/2011	Endyne	Total	< 2.0	18	5.50	150.1	68	8.10	4.80		12.50
10/3/2011	Endyne	Total	< 2.0	23	3.60	124.2	48	8.10	2.60		12.30
5/1/2012	Endyne	Total	< 2.0	16	5.70	127.2	69	7.40	5.10		9.20
10/1/2012	Endyne	Total	< 2.5	24	9.10	252.6	111	7.40	5.70		12.00
5/8/2013	Endyne	Total	< 2.5	< 10	9.30	208.7	104	8.20	5.40		19.20
10/9/2013	Endyne	Total	< 2.5	200	6.60	153.5	83	7.88	4.40		9.70
5/7/2014	Endyne	Total	< 2.5	26	19.00	140	72	6.98	4.10		8.55
10/9/2014	Endyne	Total	< 2.5	22	12.00	260	116	8.10	6.90		11.49

Labs: MES = Lab unknown (sampled and reported by Marshfield Engineering Services, Marshfield, VT); IEA = Industrial and Environmental Analysts, Inc., Essex Junction, VT; Endyne = Endyne, Inc. Willliston, VT.

State = State of Vermont, Department of Water Resources.

[1] Surface Water Quality Standard from Appendix C: Protection of Human Health (consumption of organisms only), Vermont Water Quality Standards, effective date 12/30/11 (no changes from 2008 standards).

[2] Data between 1981 and 1998 are archived to conserve table space and can be shown upon request. Statistics are not required to be run.

Results listed here as "<---" are shown on lab reports as ND. The < values listed here are the reported detection limit.

Blank = Not Analyzed

"NS" indicates not sampled, stream was dry.

[3] Starting with data on 5/05 to current, samples were analyzed for Specific Conductance (temperature adjusted). Measurements prior to this were for Conductivity.

** resampled due to inadvertant laboratory error

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Station: SW-2 Black River Downstream

			BOD (mg/l)	COD (mg/l)	Chloride (mg/l)	Specific Conductance (umhos) [2]	Hardness (mg/L)	pH (s.u.)	Sodium (mg/l)	Dissolved Oxygen (mg)	Temper-ature (°C)
Surface Water Std: Appendix C [1]			none	none	none	none	none	none	none	none	none
Date	Lab	Type									
Earlier data are archived to conserve space [2]											
5/5/1999	Endyne	Total		< 20	11.0	290	91.1	7.34	5.27	14.2	16.0
10/11/1999	Endyne	Total		< 15	11.5	160	83.5	6.31	5.27	13.9	11.0
5/3/2000	Endyne	Total		< 15	7.56	100	66.1	8.79	4.31	10.5	11.0
10/9/2000	Endyne	Total		< 15	7.8	564	83.3	9.50	4.09		7.59
5/3/2001	Endyne	Total		< 15	5.03	700	57.7	7.05	3.24	10.8	15.00
10/2/2001	Endyne	Total		< 15	< 2.5	733	101	7.90	6.70	6.9	15.23
5/1/2002	Endyne	Total		21	11.0	103	51.2	8.16	4.06	12.5	6.59
10/2/2002	Endyne	Total		< 15	9.34	168	69.8	8.54	4.96	11.5	14.93
5/5/2003	Endyne	Total		< 15	7.86	140	59.4	7.19	4.78		12.80
10/1/2003	Endyne	Total		16	10.80	169	68.1	8.23	4.96	18.0	12.39
5/4/2004	Endyne	Total		< 15	9.40	176	71.3	7.72	5.16	9.7	16.54
10/5/2004	Endyne	Total	< 2	< 15	12.10	239	102	7.85	6.55	10.8	12.32
5/2/2005	Endyne	Total	< 2.0	15	6.95	152	57.0	7.62	4.57		7.47
10/3/2005	Endyne	Total	< 2.0	16	9.63	228	87.2	7.20	6.74		13.16
5/1/2006	Endyne	Total	< 4.0	15	11.90	195	80.8	7.95	5.69		11.71
10/2/2006	Endyne	Total	14	15	9.75	216	87.3	7.31	6.12		11.57
4/30/2007	Endyne	Total		15	5.78	137	57.0	7.43	3.68		8.19
05/24/2007**	Endyne		< 2.0			189		8.12			16.23
10/3/2007	Endyne	Total	< 2.0	10	12.00	264	120.0	7.34	8.06		14.63
5/6/2008	Endyne	Total	< 2.0	11	8.10	161	69.0	7.17	4.80		10.50
10/6/2008	Endyne	Total	< 2.0	11	10.00	211	95.0	6.05	5.90		8.59
5/6/2009	Endyne	Total	< 2.0	17	9.40	198	83.0	3.59	6.20		11.80
10/6/2009	Endyne	Total	< 2.0	10	9.80	187	96.0	7.54	5.90		11.67
5/3/2010	Endyne	Total	< 2.0	18	4.90	132	59.0	7.80	3.90		13.60
10/4/2010	Endyne	Total	< 2.0	23	5.10	106.7	45.0	7.90	3.30		11.50
5/3/2011	Endyne	Total	< 2.0	12	4.70	134.7	56.0	7.50	4.10		13.20
10/3/2011	Endyne	Total	< 2.0	27	3.60	121.5	51.0	8.20	2.90		12.70
5/1/2012	Endyne	Total	< 2.5	11	8.10	139.4	65.0	7.40	7.00		9.10
10/1/2012	Endyne	Total	< 2.0	21	14.00	249.6	110.0	7.40	6.10		12.10
5/8/2013	Endyne	Total	9.9	20	8.70	216.5	105.0	7.50	5.50		16.90
10/9/2013	Endyne	Total	< 2.5	25	7.50	151.3	98.0	7.96	5.70		11.30
5/7/2014	Endyne	Total	< 2.5	26	7.00	136	69.0	6.81	3.90		8.98
10/9/2014	Endyne	Total	< 2.5	23	10.00	233	102.0	8.16	5.90		12.42

Labs: MES = Lab unknown (sampled and reported by Marshfield Engineering Services, Marshfield, VT); IEA = Industrial and Environmental Analysts, Inc., Essex Junction, VT; Endyne = Endyne, Inc. Willliston, VT.
State = State of Vermont, Department of Water Resources.

[1] Surface Water Quality Standard from Appendix C: Protection of Human Health (consumption of organisms only), Vermont Water Quality Standards, effective date 12/30/11 (no changes from 2008 standards).

[2] Data between 1981 and 1998 are archived to conserve table space and can be shown upon request. Statistics are not required to be run.

Results listed here as "<---" are shown on lab reports as ND. The < values listed here are the reported detection limit.

Blank = Not Analyzed

"NS" indicates not sampled, stream was dry.

[3] Starting with data on 5/05 to current, samples were analyzed for Specific Conductance (temperature adjusted). Measurements prior to this were for Conductivity.

** resampled due to inadvertant laboratory error

NEWSVT Landfills
Coventry, Vermont
Surface Water Analyses
Inorganics

Station: SW-3 Landfill Brook Southeast

			BOD (mg/l)	COD (mg/l)	Chloride (mg/l)	Specific Conductance (umhos) [2]	Hardness (mg/L)	pH (s.u.)	Sodium (mg/l)	Dissolved Oxygen (mg)	Temper-ature C
Surface Water Std: Appendix C [1]			none	none	none	none	none	none	none	none	none
Date	Lab	Type									
Earlier data are archived to conserve space [2]											
5/5/1999	Endyne	NS									
10/11/1999	Endyne	NS									
5/3/2000	Endyne	Total		< 18	< 4.0	370	235	6.71	4.48	6.74	18.0
10/9/2000	Endyne	NS									
5/3/2001	Endyne	NS									
10/2/2001	Endyne	NS									
5/1/2002	Endyne	Total		25	< 2.5	222	137	7.69	2.34	12.94	7.7
10/2/2002	Endyne	NS									
5/5/2003	Endyne	Total		20	2.8	275	188	7.03	2.58	10.90	9.95
10/1/2003	Endyne	NS									
5/4/2004	Endyne	Total		23	< 2.5	277	166	7.35	2.28	8.0	10.34
10/5/2004	Endyne	NS									
5/3/2005	Endyne	Total	< 2.0 *	23	38.4	481	197	7.16	14.30		6.73
10/3/2005	Endyne	NS									
5/1/2006	Endyne	NS									
10/2/2006	Endyne	NS									
4/30/2007	Endyne	NS									
05/24/2007**	Endyne	NS									
10/3/2007	Endyne	NS									
5/6/2008	Endyne	NS									
10/6/2008	Endyne	NS									
5/6/2009	Endyne	NS									
10/6/2009	dry	NS									
5/3/2010	dry	NS									
10/4/2010	dry	NS									
5/3/2011	Endyne	Total	8.8	100	22.0	407.7	171	7.90	18.00		13.4
10/3/2011	Endyne	Total	<2.0	19	13.0	318.2	147	8.10	9.70		13.0
5/1/2012	Endyne	Total	4.5	37	30.0	318.7	168	7.00	16.00		7.5
10/1/2012	Endyne	Total	< 2.0	32	14.0	371.7	163	7.60	6.30		12.4
5/8/2013	Endyne	Total	4.6	27	41.0	409.3	232	7.90	23.00		15.5
10/9/2013	Endyne	Total	< 2.5	26	29.0	354.3	212	7.96	16.00		9.4
5/7/2014	Endyne	Total	< 2.5	25	84.0	701	272	7.41	52.00		11.54
10/9/2014	Endyne	Total	< 2.5	19	27.0	548	228	7.80	13.00		12.96

Labs: MES = Lab unknown (sampled and reported by Marshfield Engineering Services, Marshfield, VT); IEA = Industrial and Environmental Analysts, Inc., Essex Junction, VT; Endyne = Endyne, Inc. Willliston, VT.

State = State of Vermont, Department of Water Resources.

[1] Surface Water Quality Standard from Appendix C: Protection of Human Health (consumption of organisms only), Vermont Water Quality Standards, effective date 12/30/11 (no changes from 2008 standards).

[2] Data between 1981 and 1998 are archived to conserve table space and can be shown upon request. Statistics are not required to be run.

Results listed here as "<---" are shown on lab reports as ND. The < values listed here are the reported detection limit.

Blank = Not Analyzed

"NS" indicates not sampled, stream was dry.

* BOD was reanalyzed past EPA specified holding time

[3] Starting with data on 5/05 to current, samples were analyzed for Specific Conductance (temperature adjusted). Measurements prior to this were for Conductivity.

** resampled due to inadvertant laboratory error

NEWSVT Landfills
Coventry, Vermont
Surface Water Analyses
Inorganics

Station: SW-4 Landfill Brook Downstream

			BOD (mg/l)	COD (mg/l)	Chloride (mg/l)	Specific Conductance (umhos) [2]	Hardness (mg/L)	pH (s.u.)	Sodium (mg/l)	Dissolved Oxygen (mg)	Temper-ature C
Surface Water Std: Appendix C [1]			none	none	none	none	none	none	none	none	none
Date	Lab	Type									
Earlier data are archived to conserve space [2]											
5/5/1999	Endyne	Total		< 20	49.8	350	176	5.60	21.9	14.1	12.0
10/11/1999	Endyne	Total		< 15	33.4	320	160	6.70	15.8	14.0	10.0
5/4/2000	Endyne	Total		< 15	35.5	350	162	6.70	25.5	10.0	12.0
10/9/2000	Endyne	Total		15	39.6	833	194	8.50	22.1		7.3
5/3/2001	Endyne	Total		< 15	43.1	400	170	7.25	21.6	11.2	19.0
10/2/2001	Dry	NS				826		7.72		2.7	14.24
5/1/2002	Endyne	Total		24	59.1	353	141	7.82	29.3	11.3	9.22
10/2/2002	Endyne	Total		< 15	57.5	547	161	7.75	24.0	9.3	14.24
5/5/2003	Endyne	Total		23	57.2	365	134	7.27	32.7	10.74	13.79
10/1/2003	Endyne	Total		< 15	68.4	367	170	8.00	24.6	8.06	9.21
5/4/2004	Endyne	Total		24	59.0	347	148	7.48	24.0	10.79	12.10
10/5/2004	Endyne	Total	< 2	26	34.8	363	262	7.47	15.4	10.12	9.88
5/2/2005	Endyne	Total	< 2.0	15	51.4	402	139	7.21	26.2		6.49
10/3/2005	Endyne	Total	< 2.0	15	51.8	560	193	7.90	24.5		11.68
5/1/2006	Endyne	Total	< 4.0	< 15	64.0	429	149	7.49	27.3		6.38
10/2/2006	Endyne	Total	< 2.0	16	55.1	574	261	7.47	20.8		10.54
4/30/2007	Endyne	Total		17	37.4	372	138	7.47	17.6		8.49
05/24/2007*	Endyne		< 2.0			523		7.53			12.83
10/3/2007	Endyne	Total	< 2.0	16	29.0	526	237	7.04	16.8		12.13
5/6/2008	Endyne	Total	< 2.0	23	53.0	487	177	6.98	28.0		8.14
10/6/2008	Endyne	Total	< 2.0	< 10	61.0	571	237	6.36	26.0		6.6
5/6/2009	Endyne	Total	< 2.0	66	53.0	524	222	7.11	24.0		9.04
10/6/2009	Endyne	Total	< 2.0	21	66.0	375	250	7.44	26.0		10.4
5/3/2010	Endyne	Total	< 2.0	30	45.0	542	223	7.36	25.0		14.87
10/4/2010	Endyne	Total	< 2.0	<10	36.0	322.6	232	8.20	13.0		8.4
5/3/2011	Endyne	Total	< 2.0	27	40.0	431.5	183	7.70	25.0		10.8
10/3/2011	Endyne	Total	< 2.0	21	23.0	412.7	179	7.90	15.0		13.4
5/1/2012	Endyne	Total	< 2.5	34	66.0	310.8	148	7.00	27.0		5.8
10/1/2012	Endyne	Total	< 2.0	21	99.0	583	232	7.20	25.0		11.1
5/8/2013	Endyne	Total	< 2.5	22	52.0	330.6	226	7.50	26.0		8.7
10/9/2013	Endyne	Total	< 2.5	33	52.0	338.4	219	7.76	23.0		6.6
5/7/2014	Endyne	Total	< 2.5	25	56.0	481	192	6.10	32.0		5.05
10/9/2014	Endyne	Total	< 2.5	29	60.0	641	256	7.80	28.0		12.12

Labs: MES = Lab unknown (sampled and reported by Marshfield Engineering Services, Marshfield, VT); IEA = Industrial and Environmental Analysts, Inc., Essex Junction, VT; Endyne = Endyne, Inc. Willliston, VT.
State = State of Vermont, Department of Water Resources.

[1] Surface Water Quality Standard from Appendix C: Protection of Human Health (consumption of organisms only), Vermont Water Quality Standards, effective date 12/30/11 (no changes from 2008 standards).

[2] Data between 1981 and 1998 are archived to conserve table space and can be shown upon request. Statistics are not required to be run.

Results listed here as "<---" are shown on lab reports as ND. The < values listed here are the reported detection limit.

Blank = Not Analyzed

"NS" indicates not sampled, stream was dry.

[3] Starting with data on 5/05 to current, samples were analyzed for Specific Conductance (temperature adjusted). Measurements prior to this were for Conductivity.

** resampled due to inadvertant laboratory error

NEWSVT Landfills
Coventry, Vermont
Surface Water Analyses
Inorganics

Station: SW-5 St. Onge Stream Upstream

			BOD (mg/l)	COD (mg/l)	Chloride (mg/l)	Specific Conductance (umhos) [2]	Hardness (mg/L)	pH (s.u.)	Sodium (mg/l)	Temper-ature C
Surface Water Std: Appendix C [1]			none	none	none	none	none	none	none	none
Date	Lab	Type								
10/28/2004	Endyne	Dissolved	< 2	21	198	1031	225	7.47	105	5.68
5/3/2005	Endyne	Total	< 2.0 *	20	81.5	456	112	7.36	39.8	10.14
10/3/2005	Endyne	Total	3.5	54	382	2128	426	9.10	279	11.06
5/1/2006	Endyne	Total	< 4.0	17	173	768	194	7.50	79.6	10.26
10/2/2006	Endyne	Total	7.1	38	172	839	265	7.16	103	10.85
4/30/2007	Endyne	Total		26	29	304	118	7.68	14.5	9.08
05/24/2007**	Endyne		< 2.0			14.53		7.66		14.53
10/3/2007	Endyne	Total	2.7	100	214	1573	307	6.77	140	12.26
5/6/2008	Endyne	Total	< 2.0	32	150	750	202	7.30	76	10.88
10/6/2008	Endyne	Total	< 2.0	11	160	903	252	7.14	92	7.66
5/6/2009	Endyne	Total	2.6	23	170	883	349	6.26	89	9.37
10/6/2009	Endyne	Total	14	320	120	739	324	7.70	77	10.88
5/3/2010	Endyne	Total	< 2.0	29	58	550	184	7.41	38	15.65
10/4/2010	Endyne	Total	< 2.0	12	6.6	144.9	79	8.20	6.0	11.60
5/3/2011	Endyne	Total	5.0	61	46.0	497.0	183	7.70	31.0	10.90
10/3/2011	Endyne	Total	<2.0	34	5.7	236.4	107	7.90	7.0	12.60
5/1/2012	Endyne	Total	< 2.5	30	68	366.2	172	7.00	35.0	6.10
10/1/2012	Endyne	Total	< 2.0	43	100	753	263	7.10	64.0	12.00
5/8/2013	Endyne	Total	2.9	21	82	536	240	7.50	44.0	18.00
10/9/2013	Endyne	Total	< 2.5	47	43	358.7	201	7.55	36.0	7.80
5/7/2014	Endyne	Total	< 2.5	28	69	510	187	6.89	38.0	8.42
10/9/2014	Endyne	Total	3.2	38	84	806	261	7.40	76.0	12.34

Station: SW-6 Eastern Stream

			BOD (mg/l)	COD (mg/l)	Chloride (mg/l)	Specific Conductance (umhos) [2]	Hardness (mg/L)	pH (s.u.)	Sodium (mg/l)	Temper-ature C
Surface Water Std: Appendix C [1]			none	none	none	none	none	none	none	none
Date	Lab	Type								
10/28/2004	Endyne	NS								
5/2/2005	Endyne	Total	< 2.0	17.00	104	621	210	7.32	53.5	6.46
10/3/2005	Endyne	NS								
5/1/2006	Endyne	Total	< 4.0	< 58	73.20	582	243	7.73	36.7	8.80
10/2/2006	Endyne	NS								
4/30/2007	Endyne	Total		22	42.80	512	218	7.36	20.5	8.39
05/24/2007**	Endyne		< 2.0			530		7.69		11.98
10/3/2007	Endyne	NS								
5/6/2008	Endyne	Total	< 2.0	19	47	565	306	7.44	27	12.81
10/6/2008	Endyne	NS								
5/6/2009	Endyne	Total	2.1	49	42	548	281	7.03	21	9.41
10/6/2009	Endyne	Total	< 2.0	< 10	17	435	227	7.81	11	11.03
5/3/2010	Endyne	Total	< 2.0	16	34	541	243	7.74	20	15.31
10/4/2010	Endyne	Total	< 2.0	30	38	334.7	224	8.30	17	10.00
5/3/2011	Endyne	Total	< 2.0	20	31	393.6	200	7.80	20	9.50
10/3/2011	Endyne	Total	< 2.0	17	31	348.4	223	7.90	16	12.80
5/1/2012	Endyne	Total	< 2.5	20	42	331.3	215	7.20	16	6.10
10/1/2012	Endyne	NS								
5/8/2013	Endyne	Total	4.6	54	44	387.2	278	7.7	21	10.9
10/9/2013	Endyne	Total	< 2.5	170	45	814	349	7.32	23	8.7
5/7/2014	Endyne	Total	< 2.5	29	53	521	245	6.96	25	7.7
10/9/2014	Endyne	NS								

Labs: MES = Lab unknown (sampled and reported by Marshfield Engineering Services, Marshfield, VT); IEA = Industrial and Environmental Analysts, Inc., Essex Junction, VT; Endyne = Endyne, Inc. Willliston, VT.

State = State of Vermont, Department of Water Resources.

[1] Surface Water Quality Standard from Appendix C: Protection of Human Health (consumption of organisms only), Vermont Water Quality Standards, effective date 12/30/11 (no changes from 2008 standards).

Results listed here as "<---" are shown on lab reports as ND. The < values listed here are the reported detection limit.

Blank = Not Analyzed

"NS" indicates not sampled, stream was dry.

* BOD was reanalyzed past EPA specified holding time

[3] Starting with data on 5/05 to current, samples were analyzed for Specific Conductance (temperature adjusted). Measurements prior to this were for Conductivity.

** resampled due to inadvertant laboratory error

NEWSVT Landfills
Coventry, Vermont
Surface Water Analyses
Inorganics

Station: SW-7 Western Stream Below UD-3,4 Downstream

			BOD (mg/l)	COD (mg/l)	Chloride (mg/l)	Specific Conductance (umhos) [2]	Hardness (mg/L)	pH (s.u.)	Sodium (mg/l)	Temper-ature C
Surface Water Std: Appendix C [1]			none	none	none	none	none	none	none	none
Date	Lab	Type								
10/28/2004	Endyne	Dissolved	< 2	< 15	6.02	356	145	7.87	3.52	6.25
5/2/2005	Endyne	Total	< 2.0	42	4.26	239	120	7.73	2.98	5.16
10/3/2005	Endyne	Total	2.3	17	5.68	398	167	8.42	4.74	12.68
5/1/2006	Endyne	Total	< 4.0	< 16	6.13	300	155	7.77	3.49	7.31
10/2/2006	Endyne	Total	< 2.0	58	5.73	320	178	7.83	3.53	10.31
4/30/2007	Endyne	Total		29	4.24	246	138	7.54	2.55	6.32
05/24/2007**	Endyne		< 2.0			319		7.66		10.08
10/3/2007	Endyne	Total	< 2.0	12	6.80	365	182	7.80	4.78	12.56
5/6/2008	Endyne	Total	< 2.0	11	6.00	324	158	7.29	5.50	10.08
10/6/2008	Endyne	Total	< 2.0	< 10	6.10	335	174	7.40	4.10	7.52
5/6/2009	Endyne	Total	< 2.0	61	6.00	305	167	6.68	4.00	8.77
10/6/2009	Endyne	Total	< 2.0	< 10	8.70	329	187	8.10	4.30	10.60
5/3/2010	Endyne	Total	< 2.0	10	8.00	414	200	7.71	5.30	11.15
10/4/2010	Endyne	Total	< 2.0	13	8.70	314.8	236	8.80	5.50	10.40
5/3/2011	Endyne	Total	5.7	30	9.40	380.8	222	8.00	7.00	8.80
10/3/2011	Endyne	Total	<2.0	19	8.00	374.2	220	8.20	5.40	13.30
5/1/2012	Endyne	Total	< 2.5	62	6.90	233.1	192	7.10	4.70	7.00
10/1/2012	Endyne	Total	< 2.0	12	8.90	439	247	7.60	6.50	12.30
5/8/2013	Endyne	Total	< 2.5	10	11.00	209.3	264	7.90	7.20	13.30
10/9/2013	Endyne	Total	< 2.5	14	12.00	388.8	277	8.02	7.30	10.90
5/7/2014	Endyne	Total	< 2.5	24	9.60	464	258	6.60	5.30	11.00
10/9/2014	Endyne	Total	< 2.5	13	9.80	460	235	7.90	5.40	13.52

Station: SW-8 Wetland Below UD-1, 2

			BOD (mg/l)	COD (mg/l)	Chloride (mg/l)	Specific Conductance (umhos) [2]	Hardness (mg/L)	pH (s.u.)	Sodium (mg/l)	Temper-ature C
Surface Water Std: Appendix C [1]			none	none	none	none	none	none	none	none
Date	Lab	Type								
10/28/2004	Endyne	Dissolved	5.5	320	13.00	459	185	7.62	7.45	7.35
5/2/2005	Endyne	Total	26	300	10.50	569	513	7.43	9.77	4.62
10/3/2005	Endyne	Total	6.9	119	16.10	798	382	6.95	23.28	12.89
5/1/2006	Endyne	Total	< 4.0	< 15	17.40	738	329	7.33	12.10	
10/2/2006	Endyne	Total	11	26	14.80	617	336	7.24	12.10	10.38
4/30/2007	Endyne	Total		< 15	8.65	441	223	7.19	5.81	7.53
05/24/2007**	Endyne		6.2			663		7.46		10.95
10/3/2007	Endyne	Total	4.2	350	17.0	515	383	7.35	12.70	13.29
5/6/2008	Endyne	Total	< 4.0	27	17.0	650	332	7.06	11.00	8.12
10/6/2008	Endyne	Total	< 2.0	20	19.0	615	315	7.30	11.00	5.74
5/6/2009	Endyne	Total	9.9	230	14.0	543	344	6.68	9.20	7.01
10/6/2009	Endyne	Total	4.6	47	14.0	514	333	7.66	10.00	10.16
5/3/2010	Endyne	Total	< 2.0	26	12.0	598	314	7.24	8.80	15.14
10/4/2010	Endyne	Total	< 2.0	41	4.8	78.3	44	8.50	2.40	10.00
5/3/2011	Endyne	Total	< 2.0	16	4.9	131.9	65	7.70	4.10	13.10
10/3/2011	Endyne	Total	2.5	35	6.5	577	332	7.70	5.50	14.20
5/1/2012	Endyne	Total	< 2.5	22	13.0	301.4	415	7.10	16.00	5.40
10/1/2012	Endyne	Total	2.2	44	15.0	645	346	7.30	12.00	11.30
5/8/2013	Endyne	Total	3.8	230	22.0	409.4	349	7.60	15.00	9.00
10/9/2013	Endyne	Total	< 2.5	51	17.0	389	313	7.53	13.00	7.00
5/7/2014	Endyne	Total	2.9	33	14.0	552	312	6.35	11.00	6.07
10/9/2014	Endyne	Total	7.0	48	18.0	630	311	7.33	12.00	13.21

Labs: MES = Lab unknown (sampled and reported by Marshfield Engineering Services, Marshfield, VT); IEA = Industrial and Environmental Analysts, Inc., Essex Junction, VT; Endyne = Endyne, Inc. Willliston, VT.

State = State of Vermont, Department of Water Resources.

[1] Surface Water Quality Standard from Appendix C: Protection of Human Health (consumption of organisms only), Vermont Water Quality Standards, effective date 12/30/11 (no changes from 2008 standards).

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Blank = Not Analyzed

"NS" indicates not sampled, stream was dry.

* BOD was reanalyzed past EPA specified holding time

[3] Starting with data on 5/05 to current, samples were analyzed for Specific Conductance (temperature adjusted). Measurements prior to this were for Conductivity.

** resampled due to inadvertant laboratory error

NEWSVT Landfills
Coventry, Vermont
Surface Water Analyses
Volatile Organics (EPA Methods 601, 602, 8240, 8260B, 8270C)

SW-1 Black River Upstream

							VOCs (Mthd. 8260):		
							Xylenes	Unidentified	
	Surface Water Standards: Appendix C [1]					ug/L	none	Peaks	
Date	Lab	EPA Method						(Number of)	
		8240	8260	8270	601	602	ug/L	VOCs (Mthd. 8260):	SVOCs (Mthd. 8270):
Earlier data are archived to conserve space [6]									
5/5/1999	Endyne		ND					0	
10/12/1999	Endyne		ND					0	
5/3/2000	Endyne		ND					0	
10/9/2000	Endyne		ND					0	
5/3/2001	Endyne		ND					0	
10/2/2001	Endyne		ND					0	
5/1/2002	Endyne		ND					0	
10/2/2002	Endyne		ND					0	
5/5/2003	Endyne		ND					0	
10/2/2003	Endyne		ND					0	
5/4/2004	Endyne		ND					0	
10/5&28/2004	Endyne		ND	ND				0	0
5/2/2005	Endyne		ND	ND				0	0
10/3/2005	Endyne		ND	ND				0	0
5/1/2006	Endyne		ND	ND				0	0
10/2/2006	Endyne		ND	ND				0	0
4/30/2007	Endyne		ND	ND				0	0
10/3/2007	Endyne		ND	ND				6	0
5/6/2008	Endyne		ND	ND				0	0
10/6/2008	Endyne		ND	ND				0	0
5/6/2009	Endyne		ND	ND				0	0
10/6/2009	Endyne		ND	ND				0	0
5/3/2010	Endyne		ND	ND				0	0
10/4/2010	Endyne		ND	ND				0	0
5/3/2011	Endyne		ND	ND				0	0
10/3/2011	Endyne		ND	ND				0	0
5/1/2012	Endyne		ND	ND				0	0
10/1/2012	Endyne		ND	ND				0	0
5/8/2013	Endyne		ND	ND				0	0
10/9/2013	Endyne		ND	ND				0	0
5/7/2014	Endyne		ND	ND				0	0
10/9/2014	Endyne		ND	ND				0	0

Labs: State = State of Vermont, Department of Water Resources.
Endyne = Endyne Inc., Williston, VT.

"ND" indicates no detects for that test method (see individual lab reports for detection levels).

Results listed here as "<---" are shown on lab reports as "TBQ: Trace, below quantitation limit". The < values listed here are the reported detection limit.

Blank in Xylene column = ND; blank elsewhere in table = not analyzed by that test method

Shading indicates exceedence of Vermont Surface Water Standard

[1] Appendix C: Protection of Human Health (consumption of organisms only) (VT Water Quality Standards, effective 12/30/11, no changes from 08 standards).

Sampling for SVOCs (EPA Method 8270) began in Oct. 2004, per amended Solid Waste Cert. (dated 5 Oct. '04).

[2] Data between 1981 and 1998 are archived to conserve table space and can be shown upon request. Statistics are not required to be run.

NEWSVT Landfills
Coventry, Vermont
Surface Water Analyses
Volatile Organics (EPA Methods 601, 602, 8240, 8260B, 8270C)

SW-2 Black River Downstream

							SVOCs (Mthd. 8270): Bis (2-ethyl-hexyl) phthalate	Unidentified Peaks (Number of)	
Surface Water Standards: Appendix C [1]						ug/L	5.9		
Date	Lab	EPA Method							
		8240	8260	8270	601	602	ug/L	VOCs (Mthd. 8260):	SVOCs (Mthd. 8270):
Earlier data are archived to conserve space [6]									
5/5/1999	Endyne		ND					0	
10/12/1999	Endyne		ND					0	
5/3/2000	Endyne		ND					0	
10/9/2000	Endyne		ND					0	
5/3/2001	Endyne		ND					0	
10/2/2001	Endyne		ND					0	
5/1/2002	Endyne		ND					0	
10/2/2002	Endyne		ND					0	
5/5/2003	Endyne		ND					0	
10/2/2003	Endyne		ND					0	
5/4/2004	Endyne		ND					0	
10/5&28/2004	Endyne		ND				**17.2**	0	0
5/2/2005	Endyne		ND	ND				0	
10/3/2005	Endyne		ND	ND				0	0
5/1/2006	Endyne		ND	ND				0	0
10/2/2006	Endyne		ND	ND				0	0
4/30/2007	Endyne		ND	ND				0	0
10/3/2007	Endyne		ND	ND				0	0
5/6/2008	Endyne		ND	ND				0	0
10/6/2008	Endyne		ND	ND				0	0
5/6/2009	Endyne		ND	ND				0	0
10/6/2009	Endyne		ND	ND				0	0
5/3/2010	Endyne		ND	ND				0	0
10/4/2010	Endyne		ND	ND				0	0
5/3/2011	Endyne		ND	ND				0	0
10/3/2011	Endyne		ND	ND				0	0
5/1/2012	Endyne		ND	ND				0	0
10/1/2012	Endyne		ND	ND				0	0
5/8/2013	Endyne		ND	ND				1	0
10/9/2013	Endyne		ND	ND				0	0
5/7/2014	Endyne		ND	ND				0	0
10/9/2014	Endyne		ND	ND				0	0

Labs: State = State of Vermont, Department of Water Resources.
Endyne = Endyne Inc., Williston, VT.
"ND" indicates no detects for that test method (see individual lab reports for detection levels).
Results listed here as "<---" are shown on lab reports as "TBQ: Trace, below quantitation limit". The < values listed here are the reported detection limit.
Blank in Xylene column = ND; blank elsewhere in table = not analyzed by that test method
Shading indicates exceedence of Vermont Surface Water Standard
[1] Appendix C: Protection of Human Health (consumption of organisms only) (VT Water Quality Standards, effective 12/30/11, no changes from 08 standards).
Sampling for SVOCs (EPA Method 8270) began in Oct. 2004, per amended Solid Waste Cert. (dated 5 Oct. '04).

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Volatile Organics (EPA Methods 601, 602, 8240, 8260B, 8270C)

SW-3 Landfill Brook Southeast

							VOCs (Method 8260)					
							Acetone	2-Butanone	p-Isopropyl-toluene	Toluene	Unidentified Peaks (Number of)	
	Surface Water Standards: Appendix C [1]					ug/L	none	none	none	200,000		
Date	Lab	EPA Method									VOCs (Mthd. 8260):	SVOCs (Mthd. 8270):
		8240	8260	8270	601	602	(ug/L)		(ug/L)	(ug/L)		
Earlier data are archived to conserve space [6]												
5/5/1999			NS									
10/12/1999			NS									
5/3/2000	Endyne		ND								0	
10/9/2000	Endyne		NS									
5/3/2001			NS									
10/2/2001			NS									
5/1/2002	Endyne		ND								0	
10/2/2002	Endyne		NS									
5/5/2003	Endyne		ND								0	
10/2/2003	Endyne		NS									
5/4/2004	Endyne		ND								0	
10/5&28/2004	Endyne		NS	NS								
5/3/2005	Endyne		ND	ND							0	
10/3/2005	Endyne		NS	NS								
5/1/2006	Endyne		NS	NS								
10/2/2006	Endyne		NS	NS								
4/30/2007	Endyne		NS	NS								
4/30/2007	Endyne		NS	NS								
5/6/2008	Endyne		NS	NS								
10/6/2008	Endyne		NS	NS								
5/6/2009	Endyne		NS	NS								
10/6/2009	Endyne		NS	NS								
5/3/2010	Endyne		NS	NS								
10/4/2010	Endyne		NS	NS								
5/3/2011	Endyne			ND			55.9	37.4			0	5
6/20/2011			NS	NS								
10/3/2011	Endyne		ND	ND							0	0
5/1/2012	Endyne		ND	ND							0	0
10/1/2012	Endyne		ND	ND							0	0
5/8/2013	Endyne		ND	ND							0	0
10/9/2013	Endyne		ND	ND							0	0
5/7/2014	Endyne		ND	ND							0	0
10/9/2014	Endyne		ND	ND							0	0

Labs: State = State of Vermont, Department of Water Resources.
Endyne = Endyne Inc., Williston, VT.
"ND" indicates no detects for that test method (see individual lab reports for detection levels).
"NS" indicates not sampled, stream was dry.
Results listed here as "<---" are shown on lab reports as "TBQ: Trace, below quantitation limit". The < values are the reported detection limit.
Blank in Xylene column = ND; blank elsewhere in table = not analyzed by that test method
Shading indicates exceedence of Vermont Surface Water Standard
[1] Appendix C: Protection of Human Health (consumption of organisms only) (VT Water Quality Standards, effective 12/30/11, no changes from 08 standards).
Sampling for SVOCs (EPA Method 8270) began in Oct. 2004, per amended Solid Waste Cert. (dated 5 Oct. '04).

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SW-4 Landfill Brook Downstream

Date	Lab	EPA Method					Unidentified Peaks (Number of)	
		8240	8260	8270	601	602	VOCs (Mthd. 8260):	SVOCs (Mthd. 8270):
Earlier data are archived to conserve space [6]								
5/5/1999	Endyne		ND					
10/12/1999	Endyne		ND					
5/4/2000	Endyne		ND					
10/9/2000	Endyne		ND					
5/3/2001	Endyne		ND					
10/2/2001	Endyne		NS					
5/1/2002	Endyne		ND					
10/2/2002	Endyne		ND					
5/5/2003	Endyne		ND					
10/2/2003	Endyne		ND					
5/4/2004	Endyne		ND					
10/5&28/2004	Endyne		ND	ND				
5/2/2005	Endyne		ND	ND				
10/3/2005	Endyne		ND	ND				
5/1/2006	Endyne		ND	ND				
10/2/2006	Endyne		ND	ND				
4/30/2007	Endyne		ND	ND				
10/3/2007	Endyne		ND	ND				
5/6/2008	Endyne		ND	ND			0	0
10/6/2008	Endyne		ND	ND			0	0
5/6/2009	Endyne		ND	ND			0	0
10/6/2009	Endyne		ND	ND			0	0
5/3/2010	Endyne		ND	ND			0	0
10/4/2010	Endyne		ND	ND			0	0
5/3/2011	Endyne		ND	ND			0	0
10/3/2011	Endyne		ND	ND			0	0
5/1/2012	Endyne		ND	ND			0	0
10/1/2012	Endyne		ND	ND			0	0
5/8/2013	Endyne		ND	ND			0	0
10/9/2013	Endyne		ND	ND			0	0
5/7/2014	Endyne		ND	ND			0	0
10/9/2014	Endyne		ND	ND			0	0

Labs: State = State of Vermont, Department of Water Resources.
Endyne = Endyne Inc., Williston, VT.
"ND" indicates no detects for that test method (see individual lab reports for detection levels).
Blank cell in table = not analyzed by that test method.
Sampling for SVOCs (EPA Method 8270) began in Oct. 2004, per amended Solid Waste Cert. (dated 5 Oct. '04).

NEWSVT Landfills
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Surface Water Analyses
Volatile Organics (EPA Methods 8260B, 8270C)

SW-5 St. Onge Stream Upstream

Date	Lab			Unidentified Peaks (Number of)	
		8260	8270	8260):	SVOCs (Mthd 8270):
10/28/2004	Endyne	ND	ND	ND	ND
5/3/2005	Endyne	ND	ND	0	0
10/3/2005	Endyne	ND	ND	0	0
5/1/2006	Endyne	ND	ND	0	0
10/2/2006	Endyne	ND	ND	0	0
4/30/2007	Endyne	ND	ND	0	0
10/3/2007	Endyne	ND	ND	0	0
5/6/2008	Endyne	ND	ND	0	0
10/6/2008	Endyne	ND	ND	0	0
5/6/2009	Endyne	ND	ND	0	0
10/6/2009	Endyne	ND	ND	0	0
5/3/2010	Endyne	ND	ND	0	0
10/4/2010	Endyne	ND	ND	0	0
5/3/2011	Endyne	ND	ND	0	0
10/3/2011	Endyne	ND	ND	0	0
5/1/2012	Endyne	ND	ND	0	0
10/1/2012	Endyne	ND	ND	0	0
5/8/2013	Endyne	ND	ND	0	0
10/9/2013	Endyne	ND	ND	0	0
5/7/2014	Endyne	ND	ND	0	0
10/9/2014	Endyne	ND	ND	0	2

SW-6 Eastern Stream Upstream

Date	Lab			Unidentified Peaks (Number of)	
		8260	8270	8260):	SVOCs (Mthd 8270):
10/28/2004	Endyne	NS	NS	NS	NS
5/3/2005	Endyne	ND	ND	0	0
10/3/2005	Endyne	NS	NS	NS	NS
5/1/2006	Endyne	ND	ND	0	0
10/2/2006	Endyne	NS	NS	NS	NS
4/30/2007	Endyne	ND	ND	0	0
10/3/2007	Endyne	NS	NS	NS	NS
5/6/2008	Endyne	ND	ND	0	0
10/6/2008	Endyne	NS	NS	NS	NS
5/6/2009	Endyne	ND	ND	0	0
10/6/2009	Endyne	ND	ND	0	0
5/3/2010	Endyne	ND	ND	0	0
10/4/2010	Endyne	ND	ND	0	0
5/3/2011	Endyne	ND	ND	0	0
10/3/2011	Endyne	ND	ND	0	0
5/1/2012	Endyne	ND	ND	0	0
10/1/2012	Endyne	ND	ND	0	0
5/8/2013	Endyne	ND	ND	0	> 10
10/9/2013	Endyne	ND	ND	0	0
5/7/2014	Endyne	ND	ND	0	0
10/9/2014	Endyne	NS	NS	NS	NS

Endyne = Endyne Inc., Williston, VT.
"ND" indicates no detects for that test method (see individual lab reports for detection levels).
"NS" indicates not sampled, stream was dry.
'04).

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SW-7 Western Stream Below UD3,4 Downstream

		EPA Method 8260				EPA Method 8270	
		8260	Acetone	2-Butanone	UIP's		
Surface Water Standards[1]:			none	none			
Date	Lab		ug/L	ug/L			UIP's
10/28/2004	Endyne	ND			0	ND	0
5/2/2005	Endyne	ND			0	ND	0
10/3/2005	Endyne	ND			0	ND	0
5/1/2006	Endyne	ND			0	ND	0
10/2/2006	Endyne	ND			0	ND	0
4/30/2007	Endyne	ND			0	ND	0
10/3/2007	Endyne	ND			0	ND	0
5/6/2008	Endyne	ND			0	ND	0
10/6/2008	Endyne	ND			0	ND	0
5/6/2009	Endyne	ND			0	ND	0
10/6/2009	Endyne	ND			0	ND	1
5/3/2010	Endyne	ND			0	ND	0
10/4/2010	Endyne	ND			0	ND	0
5/3/2011	Endyne		72.2	55.8	0	ND	4
6/20/2011	Endyne	ND			0	NS	
10/3/2011	Endyne	ND			0	ND	0
5/1/2012	Endyne	ND			0	ND	0
10/1/2012	Endyne	ND			0	ND	0
5/8/2013	Endyne	ND			0	ND	0
10/9/2013	Endyne	ND			0	ND	0
5/7/2014	Endyne	ND			0	ND	0
10/9/2014	Endyne	ND			0	ND	0

Endyne = Endyne Inc., Williston, VT.
"ND" indicates no detects for that test method (see individual lab reports for detection levels).
"NS" indicates not sampled, stream was dry.
Sampling for SVOCs (EPA Method 8270) began in Oct. 2004, per amended Solid Waste Cert. (dated 5 Oct. '04).
[1] Appendix C: Protection of Human Health (consumption of organisms only) (VT Water Quality Standards, effective 12/30/11, no changes from 08 standards).

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SW-8 Wetland Below UD-1, 2 Downstream

Date	Lab			Unidentified Peaks (Number of)	
		8260	8270	VOCs (Mthd. 8260):	SVOCs (Mthd 8270):
10/28/2004	Endyne	ND	ND	ND	NS
5/3/2005	Endyne	ND	ND	0	>10
10/3/2005	Endyne	ND	ND	0	0
5/1/2006	Endyne	ND	ND	0	0
10/2/2006	Endyne	ND	ND	0	0
4/30/2007	Endyne	ND	ND	0	0
10/3/2007	Endyne	ND	ND	0	0
5/6/2008	Endyne	ND	ND	0	0
10/6/2008	Endyne	ND	ND	0	0
5/6/2009	Endyne	ND	ND	0	0
10/6/2009	Endyne	ND	ND	0	0
5/3/2010	Endyne	ND	ND	0	0
10/4/2010	Endyne	ND	ND	0	0
5/3/2011	Endyne	ND	ND	0	0
10/3/2011	Endyne	ND	ND	0	0
5/1/2012	Endyne	ND	ND	0	0
10/1/2012	Endyne	ND	ND	0	0
5/8/2013	Endyne	ND	ND	2	0
10/9/2013	Endyne	ND	ND	2	>10
5/7/2014	Endyne	ND	ND	0	0
10/9/2014	Endyne	ND	ND	0	4

Endyne = Endyne Inc., Williston, VT.
"ND" indicates no detects for that test method (see individual lab reports for detection levels).
"NS" indicates not sampled, stream was dry.
Sampling for SVOCs (EPA Method 8270) began in Oct. 2004, per amended Solid Waste Cert. (dated 5 Oct. '04).

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Trip Blank

Date	Lab				Unidentified Peaks (Number of)
		8260	Toluene (ug/L)	Tetrahydrofuran ug/L)	VOCs (Mthd. 8260):
10/6/08 (Trip Blank 1)	Endyne		1.6	11.8	0
5/6/2009 (Trip Blank 2)	Endyne	ND			0
10/6/2009 (Trip Blank)	Endyne	ND			0
10/6/2009 (Trip Blank 2)	Endyne	ND			0
5/3/2010	Endyne	ND			0
10/1/2010	Endyne	ND			0
5/2/2011	Endyne	ND			0
5/3/2011	Endyne	ND			0
10/3/2011	Endyne	ND			0
4/30/2012	Endyne	ND			0
10/1/2012	Endyne	ND			0
5/7/2013	Endyne	ND			0
10/9/2013	Endyne	ND	18.6		0
5/1/2014	Endyne	ND			0
10/9/2014	Endyne	ND			0

Endyne = Endyne Inc., Williston, VT.
"ND" indicates no detects for that test method (see individual lab reports for detection levels).

Hardness Values for Underdrains [1]
and Calculations of Metals Standards based on Hardness Values
October 8, 2014

Underdrain #1

Calculation formulas for WQ Standards for Prot.of Aquatic Biota, Chronic Crit.: [1]	WQ Std. 10/8/2014	
Cadmium: [C - 1] = exp(0.7852 * ln(hardness) - 3.490)	5	ppb
Copper: [C - 2] = exp(0.8545 * ln(hardness) - 1.465)	0.065	mg/l
Lead: [C - 3] = exp(1.273 * ln(hardness) - 4.705)	40	ppb
Nickel: [C - 4] = exp(0.8460 * ln(hardness) + 1.1645)	846	ppb
Zinc: [C - 5] = exp(0.8473 * ln(hardness) + 0.7614)	0.571	mg/l
10/8/2014 729 mg/l		

Underdrain #2

Calculation formulas for WQ Standards for Prot.of Aquatic Biota, Chronic Crit.: [1]	WQ Std. 10/8/2014	
Cadmium: [C - 1] = exp(0.7852 * ln(hardness) - 3.49(	3	ppb
Copper: [C - 2] = exp(0.8545 * ln(hardness) - 1.465)	0.033	mg/l
Lead: [C - 3] = exp(1.273 * ln(hardness) - 4.705)	14	ppb
Nickel: [C - 4] = exp(0.8460 * ln(hardness) + 1.1645)	431	ppb
Zinc: [C - 5] = exp(0.8473 * ln(hardness) + 0.7614)	0.290	mg/l
10/8/2014 328 mg/l		

Underdrain #3

Calculation formulas for WQ Standards for Prot.of Aquatic Biota, Chronic Crit.: [1]	WQ Std. 10/8/2014	
Cadmium: [C - 1] = exp(0.7852 * ln(hardness) - 3.490)	2	ppb
Copper: [C - 2] = exp(0.8545 * ln(hardness) - 1.465)	0.025	mg/l
Lead: [C - 3] = exp(1.273 * ln(hardness) - 4.705)	10	ppb
Nickel: [C - 4] = exp(0.8460 * ln(hardness) + 1.1645)	328	ppb
Zinc: [C - 5] = exp(0.8473 * ln(hardness) + 0.7614)	0.221	mg/l
10/8/2014 238 mg/l		

Underdrain #4

Calculation formulas for WQ Standards for Prot.of Aquatic Biota, Chronic Crit.: [1]	WQ Std. 10/8/2014	
Cadmium: [C - 1] = exp(0.7852 * ln(hardness) - 3.49(	2	ppb
Copper: [C - 2] = exp(0.8545 * ln(hardness) - 1.465)	0.027	mg/l
Lead: [C - 3] = exp(1.273 * ln(hardness) - 4.705)	11	ppb
Nickel: [C - 4] = exp(0.8460 * ln(hardness) + 1.1645)	362	ppb
Zinc: [C - 5] = exp(0.8473 * ln(hardness) + 0.7614)	0.244	mg/l
10/8/2014 267 mg/l		

[1] Vermont Water Quality Standards (December 30, 2011, no changes from 2008), Appendix C: Protection of Human Health (consumption of organisms only).
If no Human Health standard is shown, the standard for Protection of Aquatic Biota, Chronic Criteria is calculated in table above.

NEWSVT Landfills
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Underdrains
Metals

				Arsenic (ug/L)	Barium (mg/L)	Cadmium (ug/L)	Chromium (ug/L)	Copper (mg/L)	Iron (mg/L)	Lead (ug/L)	Manganese (mg/L)	Mercury (ug/L)	Nickel (ug/L)	Silver (ug/L)	Zinc (mg/L)
VT WQ Standard (Prot. Human Health): [1]				2 [5]	none	none	none	none	none	none	none	0.2 [5]	4600	none	none
VT WQ Standard (Prot. Aq. Biota): [1]				190	none	[C-1]	11 (for Cr-VI)	[C-2]	1	[C-3]	none	0.2 [5]	[C-4]	none	[C-5]
	Date	Lab	Type												
Phase 1	10/13/1997	Endyne	Total	**< 5**		< 2	< 10	< 0.010	0.11	21	0.202	**< 1**	32	< 10	0.020
Under	5/14/1998	Endyne	Total	**< 5**		< 5	< 10	< 0.010	**1.21**	< 5	2.83	**< 2**	81		0.013
drain	10/13/1998	Endyne	Total	**< 5**		< 2	< 10	< 0.020	0.49	< 2	1.41	**< 1**	47		< 0.010
Outlet	5/5/1999	Endyne	Total	**< 5**		< 3	< 10	0.013	0.46	13	0.017	**< 1**	26		0.010
	10/11/1999	Endyne	*												
	5/3/2000	Endyne	Total	**< 5**		< 3	< 10	< 0.010	0.24	< 2	0.776	**< 1**	93		< 0.010
	10/10/2000	Endyne	*												
	5/3/2001	Endyne	Total	< 2		< 3	< 10	< 0.010	0.14	< 2	0.068	**< 2**	38.0		< 0.020
	10/2/2001	Endyne	*												
	5/1/2002	Endyne	Total	< 2		< 3	< 10	0.011	0.18	< 2	0.231	**< 1**	60		< 0.020
	10/2/2002	Endyne	*												
	5/5/2003	Endyne	Total	< 2		< 3	< 10	< 0.010	0.12	< 2	0.286	**1****	60		< 0.020
	10/1/2003	Endyne	Total	< 2		< 3	< 10	< 0.010	0.06	< 2	0.006	**< 1**	< 20		< 0.020
	5/4/2004	Endyne	Total	< 2		< 3	< 10	< 0.010	0.04	< 2	0.010	**< 1**	< 20		< 0.020
	10/5/2004	Endyne	Total	**5**		< 3	< 10	< 0.010	0.39	< 2	0.576	**< 1**	< 20		< 0.020
	5/2/2005	Endyne	Total	< 2		< 3	< 10	< 0.010	0.31	< 2	< 0.005	**< 1**	< 20		< 0.020
	10/3/2005	Endyne	*												
	5/1/2006	Endyne	Total	**38**		< 2	< 10	0.032	0.01	< 10	< 0.005	**< 1**	35		< 0.020
	10/2/2006	Endyne	Total	**28**		< 2	< 2	0.026	0.02	< 1	< 0.020	**< 1**	< 20		< 0.020
	4/30/2007	Endyne	Total	< 2		< 2	< **20**	0.020	0.07	< 1	< 0.020	**< 1**	< 20		< 0.020
	10/3/2007	Endyne	Total	< 2		< 2	< **20**	0.020	0.15	< 1	< 0.020	**< 1**	< 20		< 0.020
	5/6/2008	Endyne	Total	2	0.034	< 2	< **20**	0.020	**1.40**	9	0.32	**< 1**	31		< 0.020
	10/6/2008	Endyne	Total	< 2	0.025	< 2	< **20**	< 0.020	0.16	< 1	0.04	**< 1**	< 20		< 0.020
	5/6/2009	Endyne	Total	< 2	0.031	< 2	< **20**	< 0.020	0.04	< 1	< 0.020	**< 1**	< 20		< 0.020
	10/6/2009	Endyne	NS	DRY											
	5/3/2010	Endyne	total	< 1	0.028	< 2	< 5	< 0.020	0.02	< 1	< 0.020	< 0.2	9		< 0.005
	10/4/2010	Endyne	Total	< 1	0.025	< 2	< 5	< 0.020	0.10	< 1	< 0.020	< 0.2	7		< 0.005
	5/3/2011	Endyne	Total	< 1	0.039	< 2	< 5	< 0.020	0.14	< 1	0.220	< 0.2	15		< 0.005
	10/3/2011	Endyne	Total	**7**	0.022	< 2	< 5	< 0.020	**1.50**	< 1	0.030	< 0.2	8		< 0.020
	5/1/2012	Endyne	Total	**3**	0.094	< 2	< 5	< 0.020	0.75	< 1	0.110	< 0.2	9		< 0.020
	10/1/2012	Endyne	Total	DRY											
	5/8/2013	Endyne	Total	< 1	0.026	< 2	< 5	< 0.020	< 0.020	< 1	< 0.020	< 0.2	6		< 0.020
	10/9/2013	Endyne	Total	< 1	0.025	< 2	< 5	< 0.020	0.022	< 1	< 0.020	< 0.2	< 5		< 0.020
	5/7/2014	Endyne	Total	< 1	0.028	< 2	< 5	< 0.020	0.046	< 1	< 0.020	< 0.2	11		< 0.020
	10/8/2014	Endyne	Total	< 1	0.021	< 2	< 5	< 0.020	< 0.020	< 1	< 0.020	< 0.2	6		< 0.020

Lab: Endyne = Endyne, Inc., Williston, VT
Shading indicates exceedance of Surface Water Quality Standard.
All metals are dissolved through 3/28/94; all metals total thereafter.
NOTE: Only total metals are included in statistical analysis.
[5] Arsenic, Mercury: VT Surface Water Std. is the ANR Laboratory's Practical Quantitation Limit, for the specific purposes of SWMD; per telecon S. Bushman, SWMD, 9/7/93
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[C-1] -[C-5] are indicated on a following page

NEWSVT Landfills
Coventry, Vermont
Underdrains
Metals

				Arsenic (ug/L)	Barium (mg/L)	Cadmium (ug/L)	Chromium (ug/L)	Copper (mg/L)	Iron (mg/L)	Lead (ug/L)	Manganese (mg/L)	Mercury (ug/L)	Nickel (ug/L)	Silver (ug/L)	Zinc (mg/L)
VT WQ Standard (Prot. Human Health): [1]				2 [5]	none	none	none	none	none	none	none	0.2 [5]	4600	none	none
VT WQ Standard (Prot. Aq. Biota): [1]				190	none	[C-1]	11 (for Cr-VI)	[C-2]	1	[C-3]	none	0.2 [5]	[C-4]	none	[C-5]
	Date	Lab	Type												
Phase 2	10/13/1997	Endyne	Total	**< 5**		< 2	< 10	< 0.010	0.25	**19**	0.441	< **1**	< 20	< 10	0.034
Under	5/14/1998	Endyne	Total	**6**		< 5	< 10	0.021	**2.15**	< 5	1.05	< **2**	< 20		< 0.010
drain	10/13/1998	Endyne	Total	**19**		< 2	< 10	< 0.020	**4.95**	2	0.510	< **1**	< 20		< 0.010
Outlet	5/5/1999	Endyne	Total	**< 5**		< 3	< 10	< 0.010	**1.32**	14	0.368	< **1**	< 20		< 0.010
	10/11/1999	Endyne	Total	**< 5**		< 3	< 10	< 0.010	0.15	< 2	0.272	< **1**	< 20		< 0.010
	5/3/2000	Endyne	Total	**17**		< 3	< 10	< 0.010	**3.63**	< 2	1.330	< **1**	< 20		< 0.010
	10/9/2000	Endyne	Total	**< 5**		< 3	< 10	< 0.010	0.35	< 2	0.472	< **1**	< 20		< 0.010
	5/3/2001	Endyne	Total	**12**		< 3	< 10	< 0.010	**2.39**	< 2	0.752	< **2**	< 20		< 0.020
	10/2/2001	Endyne	Total	< 2		< 3	< 10	NA	0.55	2	0.317	< **1**	< 20		< 0.020
	5/1/2002	Endyne	Total	**8**		< 3	< 10	0.019	**1.39**	< 2	0.869	< **1**	33		< 0.020
	10/2/2002	Endyne	Total	< 2		< 3	< 10	< 0.010	0.26	< 2	0.298	< **1**	< 20		< 0.020
	5/5/2003	Endyne	Total	**10**		< 3	< 10	< 0.010	**2.90**	< 2	0.743	**1****	< 20		< 0.020
	10/1/2003	Endyne	Total	**4**		< 3	< 10	< 0.010	0.58	< 2	0.458	< **1**	< 20		< 0.020
	5/4/2004	Endyne	Total	**9**		< 3	< 10	< 0.010	**1.17**	< 2	0.597	< **1**	< 20		< 0.020
	10/5/2004	Endyne	Total	< 2		< 3	< 10	0.018	0.08	< 2	< 0.005	< **1**	< 20		< 0.020
	5/2/2005	Endyne	Total	**15**		< 3	< 10	< 0.010	**2.10**	< 2	0.743	< **1**	33		< 0.020
	10/3/2005	Endyne	Total	**3**		< 2	< 10	< 0.010	0.10	< 2	0.303	< **1**	< 20		< 0.020
	5/1/2006	Endyne	Total	**4**		< 2	< 10	< 0.010	**1.63**	< 10	0.726	< **1**	< 20		< 0.020
	10/2/2006	Endyne	Total	**5**		< 2	< **20**	< 0.020	0.68	< 1	0.426	< **1**	< 20		< 0.020
	4/30/2007	Endyne	Total	**7**		< 2	< **20**	< 0.020	**2.49**	< 1	0.875	< **1**	< 20		< 0.020
	10/3/2007	Endyne	Total	**4**		< 2	< **20**	< 0.020	**1.06**	< 1	0.794	< **1**	< 20		< 0.020
	5/6/2008	Endyne	Total	**21**	0.056	< 2	< **20**	< 0.020	**8.30**	< 1	2.000	< **1**	32		< 0.020
	10/6/2008	Endyne	Total	**4**	0.039	< 2	< **20**	< 0.020	**1.20**	< 1	1.700	< **1**	22		< 0.020
	5/6/2009	Endyne	Total	< 2	0.041	< 2	< **20**	< 0.020	**3.00**	< 1	2.000	< **1**	32		< 0.020
	10/6/2009	Endyne	Total	**8**	0.034	< 2	< **20**	< 0.020	0.84	< 1	1.300	< **1**	< 20		< 0.020
	5/3/2010	Endyne	Total	**11**	0.042	< 2	< 5	< 0.020	**2.00**	< 1	1.600	< 0.2	16		< 0.005
	10/4/2010	Endyne	Total	**5**	0.046	< 2	< 5	< 0.020	0.53	< 1	0.041	< 0.2	< 5		< 0.005
	5/3/2011	Endyne	Total	**14**	0.067	< 2	< 5	< 0.020	**3.60**	< 1	1.600	< 0.2	19		< 0.005
	10/3/2011	Endyne	Total	**9**	0.040	< 2	< 5	< 0.020	**1.80**	< 1	0.910	< 0.2	21		< 0.020
	5/1/2012	Endyne	Total	**5**	0.080	< 2	< 5	< 0.020	**1.20**	< 1	1.300	< 0.2	13		< 0.020
	10/1/2012	Endyne	Total	**3**	0.065	< 2	< 5	< 0.020	0.76	< 1	0.920	< 0.2	10		< 0.020
	5/8/2013	Endyne	Total	**4**	0.036	< 2	< 5	< 0.020	0.58	< 1	0.980	< 0.2	14		< 0.020
	10/9/2013	Endyne	Total	**5**	0.041	< 2	< 5	< 0.020	0.54	< 1	1.200	< 0.2	20		< 0.020
	5/7/2014	Endyne	Total	**7**	0.046	< 2	< 5	< 0.020	0.91	< 1	1.200	< 0.2	20		< 0.020
	10/8/2014	Endyne	Total	**4**	0.036	< 2	< 5	< 0.020	0.84	< 1	0.980	< 0.2	14		< 0.020

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[1] Surface Water Quality Standard from Appendix C: Protection of Human Health (consumption of organisms only), Vermont Water Quality Standard, effective date 12/30/11, no chage from 2008.
[C-1] -[C-5] are indicated on a following page

NEWSVT Landfills
Coventry, Vermont
Underdrains
Metals

				Arsenic (ug/L)	Barium mg/L	Cadmium (ug/L)	Chromium (ug/L)	Copper (mg/L)	Iron (mg/L)	Lead (ug/L)	Manganese (mg/L)	Mercury (ug/L)	Nickel (ug/L)	Silver (ug/L)	Zinc (mg/L)
VT WQ Standard (Prot. Human Health): [1]				2 [5]	none	none	none	none	none	none	none	0.2 [5]	4600	none	none
VT WQ Standard (Prot. Aq. Biota): [1]				190	none	[C-1]	11 (for Cr-VI)	[C-2]	1.0	[C-3]	none	0.2[5]	[C-4]	none	[C-5]
	Date	Lab	Type												
Phase 3	5/5/1999	Endyne	Total	**< 5**		< **3**	< 10	< 0.010	0.038	< 2	0.026	**< 1**	< 20		< 0.010
Under	10/11/1999	Endyne	Total	**10**		< **3**	< 10	< 0.010	**5.05**	< 2	0.214	**< 1**	< 20		0.015
drain	5/4/2000	Endyne	Total	**< 5**		< **3**	< 10	< 0.010	0.559	< 2	0.187	**< 1**	< 20		< 0.010
Outlet	10/9/2000	Endyne	Total	**< 5**		< **3**	< 10	< 0.010	0.144	< 2	0.044	**< 1**	< 20		< 0.010
	5/3/2001	Endyne	Total	2		< **3**	< 10	< 0.010	0.677	< 2	0.275	**< 2**	< 20		< 0.020
	10/2/2001	Endyne	Total	< 2		< **3**	< 10	NA	0.031	2	0.038	**< 1**	< 20		< 0.020
	5/1/2002	Endyne	Total	< 2		< **3**	< 10	0.012	0.129	< 2	0.169	**< 1**	26		< 0.020
	10/2/2002	Endyne	Total	< 2		< **3**	< 10	< 0.010	0.075	< 2	0.033	**< 1**	< 20		< 0.020
	5/5/2003	Endyne	Total	< 2		< **3**	< 10	< 0.010	0.348	< 2	0.159	**1****	< 20		< 0.020
	10/1/2003	Endyne	Total	**3**		< **3**	< 10	< 0.010	0.077	< 2	0.093	**< 1**	< 20		< 0.020
	5/4/2004	Endyne	Total	< 2		< **3**	< 10	< 0.010	0.058	< 2	0.093	**< 1**	< 20		< 0.020
	10/5/2004	Endyne	Total	< 2		< **3**	**12**	< 0.010	0.061	< 2	0.093	**< 1**	< 20		< 0.020
	5/2/2005	Endyne	Total	< 2		< **3**	< 10	< 0.010	0.038	< 2	0.151	**< 1**	< 20		< 0.020
	10/3/2005	Endyne	Total	**6**		2	< 10	< 0.010	0.636	< 2	0.768	**< 1**	< 20		< 0.020
	5/1/2006	Endyne	Total	**3**		< 2	< 10	< 0.010	0.642	< **10**	0.244	**< 1**	< 20		< 0.020
	10/2/2006	Endyne	Total	**< 3**		< 2	**< 20**	< 0.020	< 0.020	< 1	< 0.020	**< 1**	< 20		< 0.020
	4/30/2007	Endyne	Total	< 2		< 2	**< 20**	< 0.020	< 0.020	< 1	< 0.020	**< 1**	< 20		< 0.020
	10/3/2007	Endyne	Total	**4**		< 2	**< 20**	< 0.020	**1.20**	< 1	0.288	**< 1**	< 20		< 0.020
	5/6/2008	Endyne	Total	**5**	0.053	< 2	**< 20**	< 0.020	**1.10**	< 1	0.570	**< 1**	< 20		< 0.020
	10/6/2008	Endyne	Total	**9**	0.043	< 2	**< 20**	< 0.020	**4.30**	< 1	0.300	**< 1**	< 20		< 0.020
	5/6/2009	Endyne	Total	**19**	0.059	< 2	**< 20**	< 0.020	**7.50**	< 1	0.630	**< 1**	< 20		< 0.020
	10/6/2009	Endyne	Total	**8**	0.048	< 2	**< 20**	< 0.020	**1.20**	< 1	0.200	**< 1**	< 20		< 0.020
	5/3/2010	Endyne	Total	**5**	0.057	< 2	< 5	< 0.020	**1.10**	< 1	0.290	< 0.2	< 5		< 0.005
	10/4/2010	Endyne	Total	**5**	0.036	< 2	< 5	< 0.020	0.43	< 1	1.000	< 0.2	16		< 0.005
	5/3/2011	Endyne	Total	**7**	0.071	< 2	< 5	< 0.020	**1.90**	< 1	2.500	< 0.2	33		< 0.005
	10/3/2011	Endyne	Total	**19**	0.059	< 2	< 5	< 0.020	**4.80**	< 1	2.600	< 0.2	24		< 0.020
	5/1/2012	Endyne	Total	**10**	0.094	< 2	< 5	< 0.020	**4.70**	< 1	3.100	< 0.2	17		< 0.020
	10/1/2012	Endyne	Total	2	0.076	< 2	< 5	< 0.020	0.12	< 1	0.150	< 0.2	< 5		< 0.020
	5/8/2013	Endyne	Total	**3**	0.057	< 2	< 5	< 0.020	0.32	< 1	0.220	< 0.2	< 5		< 0.020
	10/9/2013	Endyne	Total	2	0.055	< 2	< 5	< 0.020	0.04	< 1	0.130	< 0.2	< 5		< 0.020
	5/7/2014	Endyne	Total	**5**	0.058	< 2	< 5	< 0.020	0.23	< 1	0.048	< 0.2	< 5		< 0.020
	10/8/2014	Endyne	Total	**3**	0.042	< 2	< 5	< 0.020	< 0.020	< 1	< 0.020	< 0.2	< 5		< 0.020

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NEWSVT Landfills
Coventry, Vermont
Underdrains
Metals

				Arsenic (ug/L)	Barium mg/L	Cadmium (ug/L)	Chromium (ug/L)	Copper (mg/L)	Iron (mg/L)	Lead (ug/L)	Manganese (mg/L)	Mercury (ug/L)	Nickel (ug/L)	Silver (ug/L)	Zinc (mg/L)
VT WQ Standard (Prot. Human Health): [1]				2 [5]	none	none	none	none	none	none	none	0.2 [5]	4600	none	none
VT WQ Standard (Prot. Aq. Biota): [1]				190	none	[C-1]	11 (for Cr-VI)	[C-2]	1.0	[C-3]	none	0.2[5]	[C-4]	none	[C-5]
	Date	Lab	Type												
Phase 4	10/2/2006	Endyne	Total	< 2		< 2	**< 20**	< 0.020	< 0.020	< 1	< 0.020	**< 1**	< 20		< 0.020
Under	4/30/2007	Endyne	Total	< 2		< 2	**< 20**	0.020	0.020	< 1	0.02	**< 1**	< 20		0.020
drain	10/3/2007	Endyne	Total	< 2		< 2	**< 20**	0.020	0.047	< 1	0.02	**< 1**	< 20		0.020
Outlet	5/6/2008	Endyne	Total	< 2	0.052	< 2	**< 20**	< 0.020	< 0.020	< 1	< 0.020	**< 1**	< 20		< 0.020
	10/6/2008	Endyne	Total	< 2	0.061	< 2	**< 20**	< 0.020	< 0.020	< 1	< 0.020	**< 1**	< 20		< 0.020
	5/6/2009	Endyne	Total	< 2	0.058	< 2	**< 20**	< 0.020	< 0.020	< 1	< 0.020	**< 1**	< 20		< 0.020
	10/6/2009	Endyne	Total	**3**	0.035	< 2	**< 20**	< 0.020	0.047	< 1	< 0.020	**< 1**	< 20		< 0.020
	5/3/2010	Endyne	Total	**4**	0.040	< 2	< 5	< 0.020	0.035	< 1	0.039	< 0.2	< 5		< 0.005
	10/4/2010	Endyne	Total	**6**	0.035	< 2	< 5	< 0.020	0.770	< 1	0.190	< 0.2	< 5		< 0.005
	5/3/2011	Endyne	Total	**10**	0.042	< 2	< 5	< 0.020	0.390	< 1	0.440	< 0.2	< 5		< 0.005
	10/3/2011	Endyne	Total	**8**	0.043	< 2	< 5	< 0.020	0.060	< 1	0.190	< 0.2	< 5		< 0.020
	5/1/2012	Endyne	Total	**4**	0.065	< 2	< 5	< 0.020	0.490	< 1	0.280	< 0.2	< 5		< 0.020
	10/1/2012	Endyne	Total	**5**	0.061	< 2	< 5	< 0.020	0.280	< 1	0.210	< 0.2	< 5		< 0.020
	5/8/2013	Endyne	Total	**6**	0.037	< 2	< 5	< 0.020	0.620	< 1	0.300	< 0.2	< 5		< 0.020
	10/9/2013	Endyne	Total	**5**	0.051	< 2	< 5	< 0.020	0.660	< 1	0.420	< 0.2	6		< 0.020
	5/7/2014	Endyne	Total	**4**	0.040	< 2	< 5	< 0.020	0.370	< 1	0.270	< 0.2	< 5		< 0.020
	10/8/2014	Endyne	Total	2	0.050	< 2	< 5	< 0.020	0.078	< 1	0.088	< 0.2	< 5		< 0.020

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NEWSVT Landfills
Coventry, Vermont
Underdrains
Inorganics

				Chloride (mg/l)	Sodium (mg/l)	BOD (mg/L)	COD (mg/L)	Specific Conductance (uS/cm) [2]	Hardness (mg/L)	pH (s.u.)	Dissolved Oxygen % Saturation	Temp (°C)
Surface Water Std: Appendix C [1]				none	none	none	none	none	none	none	none	none
	Date	Lab	Notes									
Phase 1	10/13/1997	Endyne	Total	102	4.73		< 20	525	397	7.03		10.5
Under	5/14/1998	Endyne	Total	15.2	6.79		< 20	380	467	6.03		10.0
drain	10/13/1998	Endyne	Total	8.8	4.70		< 20	380	347	7.58		10.5
Outlet	5/5/1999	Endyne	Total	5.0	4.77		< 20	50	392	6.03	15.2	12.0
	10/11/1999	Endyne	Total [l]									
	5/3/2000	Endyne	Total	15.7	8.42		< 15	900	956	6.43	13.9	11.0
	10/9/2000	Endyne	Total [l]									
	5/3/2001	Endyne	Total [l]	14.5	7.24		< 15	1350	987	6.65	7.4	13.5
	10/2/2001	dry, not sampled										
	5/1/2002	Endyne	Total [l]	22.5	7.49		< 15	1188	1,010	7.24	11.6	8.0
	10/2/2002	dry, not sampled										
	5/5/2003	Endyne	Total	41.1	8.93		19	1268	1,100	6.62	13.8	8.94
	10/1/2003	Endyne	Total	46.1	8.68		< 15	998	802	7.82	7.4	10.43
	5/4/2004	Endyne	Total	57.0	11.3		< 15	947	899	7.20	11.0	7.78
	10/5/2004	Endyne	Total	17.6	13.9		< 15	366	213	7.54	12.4	9.42
	5/2/2005	Endyne	Total	48.5	16.7	< 2.0	< 15	1149	751	7.08		6.25
	10/3/2005	dry, not sampled										
	5/1/2006	Endyne	Total	50.6	16.0	< 4.0	< 15	1774	1,160	7.02		9.28
	10/2/2006	Endyne	Total	45.2	14.2		< 15	1493	970	7.91		10.82
	4/30/2007	Endyne	Total	40	16.9	< 2.0	< 15	1724	1,150	7.87		8.91
	10/3/2007	Endyne	Total	44	14	< 2.0	< 10	1494	900	7.76		16.85
	5/6/2008	Endyne	Total	48	21	< 2.0	21	1652	1,057	6.95		11.14
	10/6/2008	Endyne	Total	46	18	< 2.0	< 10	1451	886	7.11		7.45
	5/6/2009	Endyne	Total	44	20	< 2.0	11	1512	1,016	6.48		8.02
	10/6/2009	dry, not sampled										
	5/3/2010	Endyne	Total	34	22	2.2	14	1361	838	6.78		9.38
	10/4/2010	Endyne	Total	15	13	< 2.0	17	383.8	378	8.60		10.20
	5/3/2011	Endyne	Total	31	20	< 2.0	12	1107	862	7.50		9.00
	10/3/2011	Endyne	Total	23	19	< 2.0	12	908	568	8.20		11.40
	5/1/2012	Endyne	Total	31	21	< 2.5	12	825	671	7.20		7.70
	10/1/2012	dry, not sampled										
	5/3/2013	Endyne	Total	32	19	< 2.0	< 10	772	775	7.60		10.40
	10/9/2013	Endyne	Total	42	20	< 2.5	25	856	737	8.10		9.70
	5/7/2014	Endyne	Total	38	21	< 2.5	17	1250	800	7.25		8.87
	10/8/2014	Endyne	Total	42	20	< 2.5	23	1266	729	7.80		12.53

[a] analysis also included sulfate 14.6 ppm
[b] analysis also included sulfate 13.8 ppm
[c] analysis also included sulfate 28.0 ppm; total cyanide sampled on 08/03/9
[d] analysis also included sulfate 19.1 ppm
[e] analysis also included sulfate 30.1 ppm
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[l] Not Sampled; dripping only
Labs: Endyne = Endyne, Inc., Williston, Vermon
[1] Surface Water Quality Standard, Appendix C: Protection of Human Health (consumption of organisms only), Effective: December 30, 2011 no changes from 200
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NEWSVT Landfills
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				Chloride (mg/l)	Sodium (mg/l)	BOD (mg/L)	COD (mg/L)	Specific Conductance (uS/cm) [2]	Hardness (mg/L)	pH (s.u.)	Dissolved Oxygen % Saturation	Temp (°C)
Surface Water Std: Appendix C [1]				none	none	none	none	none	none	none	none	none
	Date	Lab	Notes									
Phase 2	10/13/1997	Endyne	Total	195	4.67		< 20	330	234	7.15		10.5
Under	5/14/1998	Endyne	Total	15.6	14.20		50	380	297	6.03		10.0
drain	10/13/1998	Endyne	Total	3.9	4.46		< 20	260	190	6.58		10.0
Outlet	5/5/1999	Endyne	Total	5.0	5.47		< 20	270	180	6.23	15.8	10.0
	10/11/1999	Endyne	Total	10.0	7.20		< 15	280	207	6.52	15.6	9.5
	5/3/2000	Endyne	Total	21.3	18.80		79	460	308	6.57	14.2	11.0
	10/9/2000	Endyne	Total	7.96	8.10		< 15	1090	203	8.40		9.3
	5/3/2001	Endyne	Total	31.10	23.90		< 15	450	285	7.04	7.0	10.0
	10/2/2001	Endyne	Total	4.00	5.76		< 15	504	199	7.84	6.6	10.13
	5/1/2001	Endyne	Total	28.20	16.60		19	418	244	7.39	10.9	8.23
	10/2/2002	Endyne	Total	4.13	4.10		< 15	416	140	8.02	12.4	10.66
	5/5/2003	Endyne	Total	33.20	24.50		17	465	264	6.55	13.8	8.64
	10/1/2003	Endyne	Total	12.0	7.29		< 15	311	185	8.01	14.3	9.57
	5/4/2004	Endyne	Total	41.0	26.50		18	473	233	7.27	11.8	8.08
	10/5/2004	Endyne	Total	55.6	12.30		< 15	630	793	7.50	12.1	8.64
	5/2/2005	Endyne	Total	84.2	74..6	6.5	39	924	308	6.78		8.89
	10/3/2005	Endyne	Total	6.85	8.36	< 2.0	< 15	480	205	8.30		10.21
	5/2/2006	Endyne	Total	31.60	20.30	< 4.0	< 15	668	260	6.73		9.22
	10/2/2006	Endyne	Total	9.99	9.51		< 15	482	255	7.72		10.07
	4/30/2007	Endyne	Total	28	21	< 2.0	< 15	653	297	7.12		9.21
	10/3/2007	Endyne	Total	12	9.22	< 2.0	< 10	525	248	7.42		13.56
	5/6/2008	Endyne	Total	40	23	3.7	11	783	350	6.81		9.21
	10/6/2008	Endyne	Total	20	12	< 2	< 10	623	314	7.23		9.67
	5/6/2009	Endyne	Total	26	16	< 2	< 10	672	329	6.94		9.02
	10/6/2009	Endyne	Total	18	12	< 2	< 10	548	314	7.64		10.27
	5/3/2010	Endyne	Total	29	19	4.2	17	713	333	6.39		10.24
	10/4/2010	Endyne	Total	10	7	< 2	< 10	459	216	9.30		9.40
	5/3/2011	Endyne	Total	67	50	3.1	36	858	415	7.00		9.40
	10/3/2011	Endyne	Total	44	30	< 2	19	739	307	7.50		12.20
	5/1/2012	Endyne	Total	35	26	< 2.5	12	503	316	6.90		8.90
	10/1/2012	Endyne	Total	24	14	< 2.5	10	606	297	7.20		10.20
	5/8/2013	Endyne	Total	37	26	< 2.5	< 10	459	331	7.40		10.70
	10/9/2013	Endyne	Total	40	28	< 2.5	30	514	365	8.06		10.20
	5/7/2014	Endyne	Total	29	24	< 2.5	24	728	365	7.14		10.70
	10/8/2014	Endyne	Total	21	16	< 2.5	12	690	328	7.52		11.42

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[g] analysis also included sulfate 27.9 ppm
[l] Not Sampled; dripping only
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				Chloride (mg/l)	Sodium (mg/l)	BOD (mg/L)	COD (mg/L)	Specific Conductance (uS/cm) [2]	Hardness (mg/L)	pH (s.u.)	Dissolved Oxygen (% saturation)	Temp (°C)
Surface Water Std: Appendix C [1]				none	none	none	none	none	none	none	none	none
	Date	Lab	Notes									
Phase 3	5/5/1999	Endyne	Total	4.00	3.44		< 20	190	128	6.23	6.0	8.0
Under	10/11/1999	Endyne	Total	7.06	7.02		< 15	190	197	6.20	6.5	9.0
drain	5/4/2000	Endyne	Total	4	3.75		< 15		166		4.97	11.0
Outlet	10/9/2000	Endyne	Total	4	5.22		< 15	659	257	8.53		8.9
	5/3/2001	Endyne	Total	4.28	4.48		< 15	380	316	6.92	4.6	7.5
	10/2/2001	Endyne	Total	2.5	4.41		< 15	333	198	7.83	6.6	12.05
	5/1/2001	Endyne	Total	2.79	3.75		16	282	186	7.48	8.0	8.83
	10/2/2002	Endyne	Total	3.00	3.52		< 15	314	164	7.53	7.9	10.58
	5/5/2003	Endyne	Total	3.02	4.04		< 15	282	199	6.87	9.9	9.0
	10/1/2003	Endyne	Total	3.36	3.72		< 15	299	165	7.78	12.4	11.24
	5/4/2004	Endyne	Total	3.75	4.19		< 15	302	182	7.16	8.9	11.92
	10/5/2004	Endyne	Total	3.73	4.63		< 15	329	190	7.50	8.3	12.42
	5/2/2005	Endyne	Total	4.24	5.73	< 2.0	< 15	436	220	7.57		11.50
	10/3/2005	Endyne	Total	3.76	6.08	< 2.0	< 15	465	194	8.64		14.07
	5/2/2006	Endyne	Total	5.07	5.15	9.1	< 15	418	206	7.12		13.14
	10/2/2006	Endyne	Total	4.44	6.03	< 2.0	< 15	422	231	7.42		13.97
	4/30/2007	Endyne	Total	11.10	7.51	< 2.0	< 15	531	300	7.14		14.38
	10/3/2007	Endyne	Total	6.00	5.23	< 2.0	< 10	448	203	7.17		15.62
	5/6/2008	Endyne	Total	17.00	7.60	< 7.9	< 10	619	309	6.78		15.86
	10/6/2008	Endyne	Total	7.60	6.10	< 2.0	< 10	493	244	7.36		13.82
	5/6/2009	Endyne	Total	11.00	6.60	< 2.0	< 10	503	272	6.57		14.56
	10/6/2009	Endyne	Total	7.90	6.10	< 2.0	< 10	432	244	7.87		15.03
	5/3/2010	Endyne	Total	12	7.50	< 2.0	< 10	577	282	6.77		17.34
	10/4/2010	Endyne	Total	17	13	< 2.0	11	359.3	295	7.60		15.90
	5/3/2011	Endyne	Total	17	8.90	< 2.0	12	734	423	6.80		17.20
	10/3/2011	Endyne	Total	13	6.70	< 2.0	< 10	608	305	6.90		19.20
	5/1/2012	Endyne	Total	14	7.30	< 2.5	< 10	494	285	6.10		17.10
	10/1/2012	Endyne	Total	10	6.40	< 2.5	10	495	297	6.50		17.60
	5/8/2013	Endyne	Total	17	8.10	< 2.5	< 10	480	294	7.30		20.30
	10/9/2013	Endyne	Total	16	7.90	< 2.5	< 10	477.3	271	7.20		19.60
	5/7/2014	Endyne	Total	23	10.00	< 2.5	13	602	322	7.19		19.58
	10/8/2014	Endyne	Total	15	7.40	< 2.5	< 10	518	238	7.44		19.50

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				Chloride (mg/l)	Sodium (mg/l)	BOD (mg/L)	COD (mg/L)	Specific Conductance (uS/cm) [2]	Hardness (mg/L)	pH (s.u.)	Dissolved Oxygen (% saturation)	Temp (°C)
Surface Water Std: Appendix C [1]				none	none	none	none	none	none	none	none	none
	Date	Lab	Notes									
Phase 4	10/2/2006	Endyne	Total	5.18	4.05	< 2.0	< 15	387	217	8.17		11.75
Under	4/30/2007	Endyne	Total	5.94	4.46	< 2.0	< 15	417	235	7.03		9.20
drain	10/3/2007	Endyne	Total	6.60	5.56	< 2.0	< 10	485	230	8.11		13.30
Outlet	5/6/2008	Endyne	Total	8.90	5.40	< 2.0	< 10	452	227	7.49		11.81
	10/6/2008	Endyne	Total	5.80	6.00	< 2.0	< 10	483	254	7.71		11.10
	5/6/2009	Endyne	Total	8.00	6.30	< 2.0	< 10	477	265	6.65		10.70
	10/6/2009	Endyne	Total	9.30	4.60	< 2.0	< 10	347	197	7.78		10.49
	5/3/2010	Endyne	Total	8.80	5.70	< 2.0	< 10	450	225	7.59		9.06
	10/4/2010	Endyne	Total	9.70	5.80	< 2.0	11	346.7	261	8.30		11.60
	5/3/2011	Endyne	Total	12.00	9.00	9.4	55	451.9	271	7.60		8.00
	10/3/2011	Endyne	Total	10.00	7.90	< 2.0	10	402.6	281	8.00		12.70
	5/1/2012	Endyne	Total	9.70	7.10	< 2.5	< 10	380.7	257	6.90		9.10
	10/1/2012	Endyne	Total	12	7.50	< 2.0	< 10	502	261	7.60		13.30
	5/8/2013	Endyne	Total	13	8.60	< 2.5	< 10	360.1	291	7.60		10.80
	10/9/2013	Endyne	Total	11	8.80	< 2.5	23	495.6	353	7.50		12.70
	5/7/2014	Endyne	Total	12	7.10	< 2.5	42	588	340	7.16		10.69
	10/8/2014	Endyne	Total	10	6.20	< 2.5	19	551	267	7.49		13.31

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NEWSVT Landfills
Coventry, Vermont
Underdrains
Volatile Organics (EPA Methods 8240 and 8260)

				Detected Compounds - EPA Method 8240, 8260																						
				Acetone	Ben-zene	t-Buta-nol	2-Buta-none	Chloro-benzene	Chloro-ethane	Diethyl Ether	1,1-Di-chloro-ethane	cis - 1,2 - D chloro ethene	1,4-Di-chloro-benzene	Dichloro-difluoro-methane	Ethyl-Benzene	n-Propyl-benzene	p - Iso propyl toluene	Iso-Propyl-Benzene	Tetra-chloro-ethene	Tetra-hydro-furan	Toluene	1,2,4 - Tri methyl benzene	1,3,5- Tri methyl-benzene	Tri-chloro-ethene	Total Xylenes	Uniden-tified Peaks
Surface Water Standard : Appendix C [2008]				none	71	none	none	none	none	none	none	none	2600	none	29,000	none	none	none	8.85	none	200,000	none	none	81	none	none
Surface Water Standard : Appendix C [1]				none	71	none	none	none	none	none	none	none	2600	none	29,000	none	none	none	8.85	none	200,000	none	none	81	none	none
Location	Date	Lab	Method	ug/l	ug/l	ug/L	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	mg/l	ug/l	ug/l	ug/l	ug/l	#
Phase 1	10/13/1997	Endyne	8260-ND																							0
Under-	5/15/1998	Endyne	8260		3.3			2.5			1.4	3.8	2.2		12		1.9					3.1	1.4		16	4
drain	10/13/1998	Endyne	8260-ND																							0
Outlet	5/5/1999	Endyne	8260					1				1.2			2.6										3.1	4
	10/12/1999	Endyne	8260-ND																							
	5/3/2000	Endyne	8260		1.3			2.9			1.7		2.1		8.5		1.0					2.3	1.5		10.0	6
	10/9/2000	Endyne	8260-ND																							
	5/3/2001	Endyne	8260		1.3			1.6			1.8	1.3	1.1		4.2							1.2			5.3	4
	10/2/2001	Endyne	DRY																							
	5/2/2002	Endyne	8260 - ND																							0
	10/2/2002	Endyne	DRY																							
	5/5/2003	Endyne	8260		1.5			2.7			2.0		2.4		7.9							2.7	1.1		9.3	9
	10/1/2003	Endyne	8260 - ND																							0
	5/4/2004	Endyne	8260 - ND																							0
	10/5/2004	Endyne	8260 - ND																							0
	5/2/2005	Endyne	8260- ND																							0
	10/3/2005	Endyne	DRY																							
	5/1/2006	Endyne	8260-ND																							0
	10/2/2006	Endyne	8260-ND																							0
	4/30/2007	Endyne	8260-ND																							0
	10/3/2007	Endyne	8260-ND																							0
	5/6/2008	Endyne	8260-ND																							0
	10/6/2008	Endyne	8260-ND																							0
	5/6/2009	Endyne	8260-ND																							0
	10/6/2009	NS	NS																							
	5/3/2010	Endyne	8260	44.8			48.4			7.3										12.5						0
	10/4/2010	Endyne	8260																							
	5/3/2011	Endyne	8260-ND																							0
	10/3/2011	Endyne	8260-ND																							0
	5/1/2012	Endyne	DRY																							
	5/8/2013	Endyne	8260-ND																							0
	10/9/2013	Endyne	8260-ND																							0
	5/7/2014	Endyne	8260-ND																							0
	10/8/2014	Endyne	8260-ND																							0

Labs: Endyne = Endyne Inc., Williston, VT.
Method = EPA method of analysis; "ND" indicates no detects for that test method.
DRY indicates no flow, sample not obtained from sampling location.
Shading indicates exceedance of Vermont Surface Water Standard
Results listed here as "< - - - " are shown on lab reports as "TBQ: Trace, below quantitation limit." The < values listed here are the reported detection limit.
[1] Vermont Water Quality Standards, Appendix C: Protection of Human Health (consumption of organisms only), Effective December 30, 2011, no changes from 2008.

NEWSVT Landfills
Coventry, Vermont
Underdrains
Volatile Organics (EPA Methods 8240 and 8260)

				Detected Compounds - EPA Method 8240, 8260																					
				Acetone	Ben-zene	t-Buta-nol	2-Buta-none	Chloro-benzene	Chloro-ethane	Diethyl Ether	1,1-Di-chloro-ethane	cis - 1,2 - D chloro ethene	1,4-Di-chloro-benzene	Dichloro-difluoro-methane	Ethyl-Benzene	n-Propyl-benzene	p - Iso propyl toluene	Iso-Propyl-Benzene	Tetra-chloro-ethene	Tetra-hydro-furan	Toluene	1,2,4 - Tri methyl benzene	1,3,5- Tri methyl-benzene	Tri-chloro-ethene	Total Xylenes	Uniden-tified Peaks
Surface Water Standard : Appendix C [2008]				none	71	none	none	none	none	none	none	none	2600	none	29,000	none	none	none	8.85	none	200,000	none	none	81	none	none
Surface Water Standard : Appendix C [1]				none	71	none	none	none	none	none	none	none	2600	none	29,000	none	none	none	8.85	none	200,000	none	none	81	none	none
Location	Date	Lab	Method	ug/l	ug/l	ug/L	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	mg/l	ug/l	ug/l	ug/l	ug/l	#
Phase 2	10/13/1997	Endyne	8260						5		3.9	2.5														0
Under-	5/15/1998	Endyne	8260		2.1			< 1	16.7		14.1	6.3		< 10	< 1						1.7			1		3
drain	10/13/1998	Endyne	8260								2.2	1.2														0
Outlet	5/5/1999	Endyne	8260		1.4			1.1			4.8	3.8			2										2.5	0
	10/12/1999	Endyne	8260-ND																							
	5/3/2000	Endyne	8260		1.1			2.0			3.2	1.0	1.2		6.4							2.3	1.2		7.4	10
	10/9/2000	Endyne	8260								4.2	1.3														0
	5/3/2001	Endyne	8260		1.9			1.6	7.6		10.2	4.5			4.4						2.2	1.1			5.2	4
	10/2/2001	Endyne	8260								3.6	1.6			1.3											
	5/2/2002	Endyne	8260								3.9	1.5														0
	10/2/2002	Endyne	8260		1.7			2.4			7.4	3.4	2.2		9.6							3.4	1.9		14.7	5
	5/5/2003	Endyne	8260		1.1			1.3			6.3	2.0			3.9							1.1			4.0	7
	10/1/2003	Endyne	8260								3.9	1.1														0
	5/4/2004	Endyne	8260								2.0															0
	10/5/2004	Endyne	8260-ND																							0
	5/2/2005	Endyne	8260								5.1	1.8														0
	10/3/2005	Endyne	8260-ND																							0
	5/1/2006	Endyne	8260								2.8	1.2														1
	10/2/2006	Endyne	8260-ND																							0
	4/30/2007	Endyne	8260							10	6.2	3.9														0
	10/3/2007	Endyne	8260	15.3							2.2	1.3														0
	5/6/2008	Endyne	8260							7.7	2.9	2.1			1.3											0
	10/6/2008	Endyne	8260-ND																							0
	5/6/2009	Endyne	8260	36.1							3.4	1.7														0
	10/6/2009	Endyne	8260-ND																							0
	5/3/2010	Endyne	8260							9.2	5.0	3.9														0
	10/4/2010	Endyne	8260-ND																							0
	5/3/2011	Endyne	8260			20.4									1.1											0
	10/3/2011	Endyne	8260							6.6	1.8	2.5														0
	5/1/2012	Endyne	8260-ND																							0
	10/1/2012	Endyne	8260												1.8											0
	5/8/2013	Endyne	8260-ND																							0
	10/9/2013	Endyne	8260-ND																							0
	5/7/2014	Endyne	8260												1											0
	10/8/2014	Endyne	8260							5.3																0

Labs: Endyne = Endyne Inc., Williston, VT.
Method = EPA method of analysis; "ND" indicates no detects for that test method.
DRY indicates no flow, sample not obtained from sampling location.
Shading indicates exceedance of Vermont Surface Water Standard
Results listed here as "< - - - " are shown on lab reports as "TBQ: Trace, below quantitation limit." The < values listed here are the reported detection limit.
[1] Vermont Water Quality Standards, Appendix C: Protection of Human Health (consumption of organisms only), Effective December 30, 2011, no changes from 2008.

NEWSVT Landfills
Coventry, Vermont
Underdrains
Volatile Organics (EPA Methods 8240 and 8260)

				Detected Compounds - EPA Method 8240, 8260																					
				Acetone	Ben-zene	t-Buta-nol	2-Buta-none	Chloro-benzene	Chloro-ethane	Diethyl Ether	1,1-Di-chloro-ethane	cis - 1,2 - D chloro ethene	1,4-Di-chloro-benzene	Dichloro-difluoro-methane	Ethyl-Benzene	n-Propyl-benzene	p - Iso propyl toluene	Iso-Propyl-Benzene	Tetra-chloro-ethene	Tetra-hydro-furan	Toluene	1,2,4 - Tri methyl benzene	1,3,5- Tri methyl-benzene	Tri-chloro-ethene	Total Xylenes	Uniden-tified Peaks
Surface Water Standard : Appendix C [2008]				none	71	none	none	none	none	none	none	none	2600	none	29,000	none	none	none	8.85	none	200,000	none	none	81	none	none
Surface Water Standard : Appendix C [1]				none	71	none	none	none	none	none	none	none	2600	none	29,000	none	none	none	8.85	none	200,000	none	none	81	none	none
Location	Date	Lab	Method	ug/l	ug/l	ug/L	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	mg/l	ug/l	ug/l	ug/l	ug/l	#
Phase 3 Under-drain Outlet	5/5/1999	Endyne	8260-ND																							0
	10/12/1999	Endyne	8260-ND																							
	5/4/2000	Endyne	8260-ND																							0
	10/9/2000	Endyne	8260-ND																							0
	5/3/2001	Endyne	8260-ND																							0
	10/2/2001	Endyne	8260-ND																							0
	5/2/2002	Endyne	8260-ND																							0
	10/2/2002	Endyne	8260-ND																							0
	5/5/2003	Endyne	8260-ND																							0
	10/1/2003	Endyne	8260-ND																							0
	5/4/2004	Endyne	8260-ND																							0
	10/5/2004	Endyne	8260-ND																							0
	5/2/2005	Endyne	8260-ND																							0
	10/3/2005	Endyne	8260-ND																							0
	5/1/2006	Endyne	8260-ND																							0
	10/2/2006	Endyne	8260-ND																							0
	4/30/2007	Endyne	8260-ND																							0
	10/3/2007	Endyne	8260-ND																							0
	5/6/2008	Endyne	8260	14.8			16																			0
	10/6/2008	Endyne	8260-ND																							0
	5/6/2009	Endyne	8260																							0
	10/6/2009	Endyne	8260-ND																							0
	5/3/2010	Endyne	8260-ND																							0
	10/4/2010	Endyne	8260-ND																							
	5/3/2011	Endyne	8260-ND																							0
	6/20/2011	Endyne	8260-ND																							0
	10/3/2011	Endyne	8260-ND																							0
	5/1/2012	Endyne	8260-ND																							0
	10/1/2012	Endyne	8260-ND																							0
	5/8/2013	Endyne	8260-ND																							0
	10/9/2013	Endyne	8260-ND																							0
	5/7/2014	Endyne	8260-ND																							0
	10/8/2014	Endyne	8260-ND																							0

Labs: Endyne = Endyne Inc., Williston, VT.
Method = EPA method of analysis; "ND" indicates no detects for that test method.
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NEWSVT Landfills
Coventry, Vermont
Underdrains
Volatile Organics (EPA Methods 8240 and 8260)

				Detected Compounds - EPA Method 8240, 8260																					
				Acetone	Ben-zene	t-Buta-nol	2-Buta-none	Chloro-benzene	Chloro-ethane	Diethyl Ether	1,1-Di-chloro-ethane	cis - 1,2 - D chloro ethene	1,4-Di-chloro-benzene	Dichloro-difluoro-methane	Ethyl-Benzene	n-Propyl-benzene	p - Iso propyl toluene	Iso-Propyl-Benzene	Tetra-chloro-ethene	Tetra-hydro-furan	Toluene	1,2,4 - Tri methyl benzene	1,3,5- Tri methyl-benzene	Tri-chloro-ethene	Total Xylenes	Uniden-tified Peaks
Surface Water Standard : Appendix C [2008]				none	71	none	none	none	none	none	none	none	2600	none	29,000	none	none	none	8.85	none	200,000	none	none	81	none	none
Surface Water Standard : Appendix C [1]				none	71	none	none	none	none	none	none	none	2600	none	29,000	none	none	none	8.85	none	200,000	none	none	81	none	none
Location	Date	Lab	Method	ug/l	ug/l	ug/L	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	mg/l	ug/l	ug/l	ug/l	ug/l	#
Phase 4 Under-drain Outlet	10/2/2006	Endyne	8260-ND																							0
	4/30/2007	Endyne	8260-ND																							0
	10/3/2007	Endyne	8260-ND																							0
	5/6/2008	Endyne	8260-ND																							0
	10/6/2008	Endyne	8260-ND																							0
	5/6/2009	Endyne	8260-ND																							0
	10/6/2009	Endyne	8260-ND																							0
	5/3/2010	Endyne	8260-ND																							0
	10/4/2010	Endyne	8260-ND																							
	5/3/2011	Endyne	8260	99.6			97.1																			0
	6/20/2011	Endyne	8260	33.3			39.6																			4
	10/3/2011	Endyne	8260-ND																							0
	5/1/2012	Endyne	8260-ND																							0
	10/1/2012	Endyne	8260-ND																							0
	5/8/2013	Endyne	8260-ND																							0
	10/9/2013	Endyne	8260-ND																							0
	5/7/2014	Endyne	8260-ND																							0
	10/8/2014	Endyne	8260-ND																							0

Labs: Endyne = Endyne Inc., Williston, VT.
Method = EPA method of analysis; "ND" indicates no detects for that test method.
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NEWSVT Landfills
Coventry, Vermont
Underdrains
Semi-Volatile Organics (EPA Method 8270C)

				EPA Method 8270C Result	Unidentified Peaks 8270C
Surface Water Standard : Appendix C [1]					
Location	Date	Lab	Method		
Under-drain Phase 1	10/5/2004	Endyne	8270C	Non-Detect	0
	5/2/2005	Endyne	8270C	Non-Detect	0
	10/3/2005			Not Sampled	
	5/1/2006	Endyne	8270C	Non-Detect	1
	10/2/2006	Endyne	8270C	Non-Detect	0
	4/30/2007	Endyne	8270C	Non-Detect	0
	10/3/2007	Endyne	8270C	Non-Detect	0
	5/6/2008	Endyne	8270C	Non-Detect	0
	10/6/2008	Endyne	8270C	Non-Detect	> 10
	5/6/2009	Endyne	8270C	Non-Detect	0
	5/3/2010	Endyne	8270C	Non-Detect	0
	10/4/2010	Endyne	8270C	Non-Detect	0
	5/3/2011	Endyne	8270C	Non-Detect	0
	10/3/2011	Endyne	8270C	Non-Detect	0
	5/1/2012	Endyne	8270C	Non-Detect	0
	10/1/2012	Endyne	8270C	DRY	
	5/8/2013	Endyne	8270C	Non-Detect	0
	10/9/2013	Endyne	8270C	Non-Detect	0
	5/7/2014	Endyne	8270C	Non-Detect	0
	10/8/2014	Endyne	8270C	Non-Detect	0
Under-drain Phase 2	10/5/2004	Endyne	8270C	Non-Detect	0
	5/2/2005	Endyne	8270C	Non-Detect	> 10
	10/3/2005	Endyne	8270C	Non-Detect	0
	5/1/2006	Endyne	8270C	Non-Detect	5
	10/2/2006	Endyne	8270C	Non-Detect	0
	4/30/2007	Endyne	8270C	Non-Detect	0
	10/3/2007	Endyne	8270C	Non-Detect	0
	5/6/2008	Endyne	8270C	Non-Detect	0
	10/6/2008	Endyne	8270C	Non-Detect	0
	5/6/2009	Endyne	8270	Non-Detect	0
	5/3/2010	Endyne	8270C	Non-Detect	0
	10/4/2010	Endyne	8270C	Non-Detect	0
	5/3/2011	Endyne	8270C	Non-Detect	0
	10/3/2011	Endyne	8270C	Non-Detect	0
	5/1/2012	Endyne	8270C	Non-Detect	0
	10/1/2012	Endyne	8270C	Non-Detect	0
	5/8/2013	Endyne	8270C	Non-Detect	0
	10/9/2013	Endyne	8270C	Non-Detect	0
	5/7/2014	Endyne	8270C	Non-Detect	0
	10/8/2014	Endyne	8270C	Non-Detect	0

Labs: Endyne = Endyne Inc., Williston, VT.
Method = EPA method of analysis; "ND" indicates no detects for that test method.
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[1] Vermont Water Quality Standards (December 30, 2011, no changes from 2008), Appendix C: Protection of Human Health (consumption of organisms only).

NEWSVT Landfills
Coventry, Vermont
Underdrains
Semi-Volatile Organics (EPA Method 8270C)

				EPA Method 8270C Result	Unidentified Peaks 8270C
Surface Water Standard : Appendix C [1]					
Location	Date	Lab	Method		
Under-drain Phase 3	10/5/2004	Endyne	8270C	Non-Detect	0
	5/2/2005	Endyne	8270C	Non-Detect	0
	10/3/2005	Endyne	8270C	Non-Detect	0
	5/1/2006	Endyne	8270C	Non-Detect	1
	10/2/2006	Endyne	8270C	Non-Detect	0
	4/30/2007	Endyne	8270C	Non-Detect	0
	10/3/2007	Endyne	8270C	Non-Detect	0
	5/6/2008	Endyne	8270C	Non-Detect	0
	10/6/2008	Endyne	8270C	Non-Detect	0
	5/6/2009	Endyne	8270C	Non-Detect	0
	5/3/2010	Endyne	8270C	Non-Detect	0
	10/4/2010	Endyne	8270C	Non-Detect	0
	5/3/2011	Endyne	8270C	Non-Detect	0
	10/3/2011	Endyne	8270C	Non-Detect	0
	5/1/2012	Endyne	8270C	Non-Detect	0
	10/1/2012	Endyne	8270C	Non-Detect	0
	5/8/2013	Endyne	8270C	Non-Detect	0
	10/9/2013	Endyne	8270C	Non-Detect	0
	5/7/2014	Endyne	8270C	Non-Detect	0
	10/8/2014	Endyne	8270C	Non-Detect	0
Under-drain Phase 4	10/2/2006	Endyne	8270C	Non-Detect	0
	4/30/2007	Endyne	8270C	Non-Detect	0
	10/3/2007	Endyne	8270C	Non-Detect	0
	5/6/2008	Endyne	8270C	Non-Detect	0
	10/6/2008	Endyne	8270C	Non-Detect	0
	5/6/2009	Endyne	8270C	Non-Detect	0
	5/3/2010	Endyne	8270C	Non-Detect	0
	10/4/2010	Endyne	8270C	Non-Detect	1
	5/3/2011	Endyne	8270C	Non-Detect	8
	10/3/2011	Endyne	8270C	Non-Detect	0
	5/1/2012	Endyne	8270C	Non-Detect	0
	10/1/2012	Endyne	8270C	Non-Detect	0
	5/8/2013	Endyne	8270C	Non-Detect	0
	10/9/2013	Endyne	8270C	Non-Detect	0
	5/7/2014	Endyne	8270C	Non-Detect	0
	10/8/2014	Endyne	8270C	Non-Detect	0

Labs: Endyne = Endyne Inc., Williston, VT.
Method = EPA method of analysis; "ND" indicates no detects for that test method.
Shading indicates exceedance of Vermont Surface Water Standard
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NEWSVT Landfills
Coventry, Vermont
Underdrains
Volatile Organics (EPA Method 8260B)

Trip Blank

Date	Lab				Unidentified Peaks (Number of)
		8260	Toluene ug/L	Tetrahydrofuran	VOCs (Mthd. 8260)
10/6/2008	Endyne		1.7	14.3	0
5/6/09 (Trip Blank 3)	Endyne	ND			0
10/6/09 (Trip Blank)	Endyne	ND			0
10/6/09 (Trip Blank 2)	Endyne	ND			0
5/3/2010	Endyne	ND			0
10/1/2010	Endyne	ND			0
5/2/2011	Endyne	ND			0
10/3/2011	Endyne	ND			0
4/30/2012	Endyne	ND			0
10/1/2012	Endyne	ND			0
5/7/2013	Endyne	ND			0
10/8/2013	Endyne		14.7		0
5/1/2014	Endyne	ND			0
10/2/2014	Endyne	ND			0

Endyne = Endyne Inc., Williston, VT.
"ND" indicates no detects for that test method (see individual lab reports for detection levels)

Leachate Sampling Summary Sheet

Project Name:	NEWSVT
Location:	Coventry, Vermont
Project Number:	93320
Date of Sampling:	8/11/2014
H&N Personnel:	Wendy Krembs
Weather:	Sunny
Air Temperature:	70°F
Equipment	
pH Meter:	Extech pH Meter
Temp./S. Conduct:	YSI Temperature/Conductivity Meter #1

Field Measurements

Leachate Sampling Location		Phase I	Phase II	Phase III Cell I	Phase III Cell II	Phase IV Cell I	Phase IV Cell II	Phase IV Cell IIIA	Combined
		Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary
	Units								Storage Tank
pH:	S. U.								7.59
Specific Conductance:	uS/cm								14,360
Temperature:	°C								22.9
Sample Time:									12:50
Collection Method:		See sampler comments below							Piping from tank
NEWSVT Personnel:		AJ							AJ

Sampler comments: Samples from the Combined Leachate Tank were collected by NEWSVT personnel from the piping leading from the AST to fill tanker trucks, and handed to WHEM personnel to fill the appropriate lab sample bottles. Samples were transported on ice in a dark cooler to Endyne by WHEM personnel on the same day sampling occurred.

uS/cm = micro Siemens per centimeter
° C = degrees Celsius

Laboratory Sample Delivery Information

Samples were transported by WHEM staff on ice in a dark cooler to Endyne on the same day.

Leachate Sampling Summary Sheet

Project Name:	NEWSVT
Location:	Coventry, Vermont
Project Number:	93320
Date of Sampling:	10/8/2014
H&N Personnel:	Christopher Page
Weather:	Overcast
Air Temperature:	45-50^{o}F
Equipment	
pH Meter:	Extech pH Meter
Temp./S. Conduct:	YSI Temperature/Conductivity Meter #1

Field Measurements

Leachate Sampling Location		Phase I	Phase II	Phase III Cell I	Phase III Cell II	Phase IV Cell I	Phase IV Cell II	Phase IV Cell IIIA	Combined
		Primary	Primary	Primary	Primary	Primary	Primary	Primary	Storage Tank
	Units								
pH:	S. U.	5.77	6.38	6.67	6.79	7.13	7.08	7.61	7.20
Specific Conductance:	uS/cm	11,740	17,100	19,010	18,230	18,020	21,930	5,600	14,850
Temperature:	^{o}C	14.8	18.7	25.8	25.2	21.2	19.0	18.7	19.5
Sample Time:		13:30	14:15	14:30	14:50	15:10	15:25	15:45	16:05
Collection Method:		See sampler comments below							Piping from tank
NEWSVT Personnel:		Shane Wiggett							Shane Wiggett

Sampler comments: Samples from the Combined Leachate Tank were collected from the piping leading from the AST to fill tanker trucks, and handed to WHEM personnel to fill the appropriate lab sample bottles. Samples were stored by WHEM staff overnight on ice in a dark cooler, then transported by WHEM staff on ice in a dark cooler to Endyne the day after sampling occurred, and all remained within laboratory analysis limits.

Samples from individual phases were collected inside each leachate pump control shed from the primary leachate valve with the assistance of NEWSVT personnel listed above.

uS/Cm = micro Siemens per centimeter
^{o} C = degrees Celsius

Laboratory Sample Delivery Information

Samples were stored by WHEM staff overnight on ice in a dark cooler, then transported by WHEM staff on ice in a dark cooler to Endyne the day after sampling occurred.

NEWSVT Landfills
Coventry, Vermont
PHASE I LINER - Primary Leachate
Metals and Other Inorganics (1 of 2)

		METALS																				
		Total Antimony (mg/L)	Total Arsenic (mg/L)	Total Barium (mg/L)	Total Beryllium (mg/L)	Total Boron (mg/L)	Total Cadmium (mg/L)	Total Chromium (mg/L)	Total Cobalt (mg/L)	Total Copper (mg/L)	Total Iron (mg/L)	Total Lead (mg/L)	Total Manganese (mg/L)	Total Mercury (mg/L)	Total Molybdenum (mg/L)	Total Nickel (mg/L)	Total Selenium (mg/L)	Total Silver (mg/L)	Total Thallium (mg/L)	Total Vanadium (mg/L)	Total Zinc (mg/L)
Toxicity Characteristic (mg/L) [1]		None	5.0	100.0	None	None	1.0	5.0	None	None	None	5.0	None	0.2	None	None	1.0	5.0	None	None	None
Date	Lab																					
9/15/1992	Endyne		0.008	0.05			0.005	0.031		0.035	27.5	< 0.010	0.0166	< 0.001		0.311					
10/26/1992	Endyne		0.04	0.159			0.005	< 0.010		< 0.010	135	< 0.002	0.0315	< 0.001		0.137					
5/24/1993	Endyne		0.022	0.155			< 0.005	0.022		< 0.025	108	< 0.002	0.0358	< 0.001		0.228					
10/27/1993	Endyne		0.008	0.067			< 0.005	< 0.010		< 0.010	116	< 0.002	28.9	< 0.001		0.051					
5/25/1994	Endyne		0.019	0.382			< 0.005	0.021		0.017	249	0.009	58.3	< 0.001		0.331					
10/12/1994	Endyne		0.148	0.655			0.005	0.021		0.011	688	0.012	15.8	0.009		0.284					
5/24/1995	Endyne		0.193				< 0.005	0.078		0.15	658	0.168	20.1	< 0.002		1.08					
10/31/1995	Endyne		0.039				0.006	0.048		< 0.010	529	0.004	12.8	< 0.001		0.277					
5/23/1996	Endyne		0.055				< 0.005	< 0.010		0.028	398	0.055	17.8	< 0.001		0.789					
10/24/1996	Endyne		0.156				0.014	0.067		0.014	445	0.003	10.3	< 0.001		0.257					
5/22/1997	Endyne		0.033				< 0.002	0.054		0.041	246	< 0.002	12.0	< 0.001		0.207					
10/13/1997	Endyne		0.102				< 0.002	0.087		0.06	216	0.021	3.43	< 0.001		0.328					
5/15/1998	Endyne	< 0.010	0.064	0.412	< 0.001		< 0.005	0.073	< 0.020	0.012	283	< 0.010	8.21	< 0.010	< 0.020	0.263			< 0.001		
10/14/1998	Endyne	< 0.020	0.114		< 0.002		< 0.005	0.066	< 0.025	< 0.020	280	< 0.010	4.95	< 0.002	< 0.025	0.461			< 0.005		
2/4/1999	Endyne		0.085				< 0.002	0.076		0.042		< 0.020		0.002	< 0.020	0.47					
5/4/1999	Endyne	< 0.020	0.096	0.222	< 0.002		< 0.003	0.08	0.012	0.236	79.8	0.004	1.83	< 0.010	< 0.020	0.492			< 0.010		
8/5/1999	Endyne		0.013				< 0.003	0.095		0.012		0.004		< 0.010	< 0.020	0.656					
10/12/1999	Endyne	0.01	0.136	0.148	< 0.002	6.07	< 0.003	0.076	0.02	0.033	73.7	0.006	1.51	< 0.010	0.022	0.506			< 0.001		
2/7/2000	Endyne		0.109				< 0.003	0.092		0.232		0.014		< 0.001	< 0.020	0.565					
5/4/2000	Endyne	0.016	0.114	0.26	< 0.001	5.85	0.011	0.104	0.109	0.044	371	0.024	15.4	< 0.001	< 0.020	0.662			< 0.001		
8/9/2000	Endyne		0.109				0.005	0.116				0.007				0.625					
10/10/2000	Endyne	< 0.002	0.078	0.088	< 0.002	6.91	< 0.003	0.105	0.022	0.283	73.3	0.021	0.898	< 0.001	< 0.020	0.596			< 0.001		
2/9/2001	Endyne		0.172				0.005	0.12		0.21		< 0.009		< 0.001	< 0.020	0.706					
5/3/2001	Endyne	0.011	0.05	0.188	< 0.002		0.006	0.08	0.061	0.148	421	0.008	14.3	< 0.002	< 0.020	0.536			< 0.001		
8/6/2001	Endyne		0.131				0.005	0.105		0.135		0.012		< 0.001	< 0.020	0.579					
10/3/2001	Endyne	0.017	0.123	0.08	< 0.002	8.09	0.014	0.117	0.024	0.066	58.4	0.01	0.896	< 0.001	< 0.020	0.635			< 0.001		
02/07/2002**	Endyne	0.003	0.147	0.313	< 0.002	2.9	< 0.005	0.029	0.025	0.035	37.6	0.007	2.85	< 0.000	< 0.020	0.283			< 0.001		
05/02/2002**	Endyne	< 0.002	0.028	0.046	< 0.002		< 0.003	0.016	< 0.010	0.013	11.4	0.006	0.328	< 0.001	< 0.020	0.068			< 0.001		
08/07/2002**	Endyne		0.356				< 0.003	0.146		0.039		0.012		< 0.001	< 0.020	0.606					
10/2/2002	Endyne	0.01	0.169	0.105	< 0.002	10.3	< 0.003	0.105	0.031	0.014	28.7	0.006	0.618	< 0.001	< 0.020	0.422			< 0.001		
02/06/2003**	Endyne		0.557				< 0.003	0.067		< 0.010		0.004		< 0.001	< 0.020	0.314					
5/6/03**	Endyne	0.012	0.459	0.232	< 0.002		< 0.003	0.133	0.029	0.062	136	0.007	1.52	< 0.001	< 0.020	0.404			< 0.001		
8/12/2003**	Endyne		0.175				0.004	0.069		< 0.010		< 0.002		< 0.001	< 0.020	0.409					
10/2/2003**	Endyne	0.009	0.477	0.317	< 0.002	7.39	< 0.003	0.2	0.233	0.03	411	0.002	15.1	< 0.001	< 0.020	1.28			< 0.010		
2/2/04**	Endyne	0.009	1.12				0.021	0.262		< 0.010		0.003		< 0.001	< 0.020	2.10					
4/13/2004**	Endyne	0.01	0.174	0.169	< 0.002		< 0.003	0.118	0.061	< 0.010	202	< 0.002	9.76	< 0.001	< 0.010	0.45			< 0.001		
8/9/2004**	Endyne		0.298				< 0.003	0.143		< 0.010		< 0.002		< 0.001	< 0.020	0.659					
10/5/2004**	Endyne	0.013	0.212	0.091	< 0.002		< 0.003	0.138	0.098	< 0.010	110	0.003	1.68	< 0.001	< 0.020	0.73			< 0.001		
2/9/05**	Endyne		0.209				0.004	0.124		< 0.010		< 0.002		< 0.001	< 0.020	0.579					
5/2/2005**	Endyne	0.005	0.059	0.146	< 0.002		< 0.003	0.064	0.01	0.01	13.9	0.004	3.08	< 0.001	< 0.020	0.089			< 0.002		
8/2/2005**	Endyne		0.216				0.004	0.133		< 0.010		< 0.002		< 0.001	< 0.020	0.564					
10/3/2005**	Endyne	0.009	0.259	0.146	0.005		< 0.002	0.174	0.103	0.051	160	0.002	2.01	< 0.001	< 1.000	0.963			< 0.100		
2/6/2006**	Endyne		0.111				< 0.002	0.078		0.024		< 0.010		< 0.001	< 0.020	0.308					
5/2/2006	Endyne	0.011	0.249	0.176	0.018		0.002	0.164	0.065	< 0.010	144	< 0.011	3.88	< 0.001	< 0.020	0.534			0.003		
8/7/2006**	Endyne		0.666				0.009	0.266		0.058		0.048		< 0.001	< 0.040	1.65					
11/16/2006	Endyne	0.005	0.116	0.087	< 0.002		< 0.002	0.003	0.034	< 0.020	44	0.002	2.62	< 0.010	< 0.020	0.308			< 0.002		
4/30/2007	Endyne	0.012	0.156	0.113	< 0.002		0.006	0.082	0.052	< 0.020	156	< 0.001	6.58	< 0.001	< 0.020	0.358			< 0.001		
10/6/2007	Endyne	< 0.100	0.524	0.114	< 0.004		0.005	0.233	0.136	< 0.040	162	0.005	3.8	< 0.001	< 0.040	0.727			< 0.001		
5/6/2008	Endyne	< 0.002	0.132	0.099	< 0.002		0.007	0.074	< 0.020	< 0.020	74	0.001	2.3	< 0.001	< 0.020	0.23			< 0.002		
10/6/2008	Endyne	< 0.002	0.34	0.39	< 0.002		< 0.002	0.14	0.034	< 0.020	41	< 0.001	0.98	< 0.001	< 0.020	0.28	< 0.004		< 0.010	0.025	0.45
5/6/2009	Endyne	0.004	0.27	0.15	< 0.002		0.004	0.1	0.031	< 0.020	85	< 0.002	2.3	< 0.001	< 0.010	0.3	< 0.002		< 0.002	0.026	0.21
10/6/2009	Endyne	< 0.020	0.42	0.14	< 0.002		0.003	0.11	0.03	< 0.020	22	< 0.020	1.3	< 0.001	0.01	0.29	< 0.020		< 0.010	0.028	0.25
5/3/2010	Endyne	0.016	0.3	0.27	< 0.005		< 0.010	0.15	< 0.100	< 0.100	130	< 0.005	3.7	< 0.0002	< 0.100	0.39	< 0.010		< 0.005	< 0.100	*0.82*
10/4/2010	Endyne	0.029	0.17	0.11	< 0.005		< 0.010	0.08	< 0.100	< 0.100	70	< 0.001	2.1	< 0.0002	< 0.100	0.24	< 0.002		< 0.002	< 0.100	0.2
5/3/2011	Endyne	0.003	0.15	0.16	< 0.001		< 0.002	0.056	< 0.020	< 0.020	21	< 0.001	1.2	< 0.0002	< 0.020	0.16	< 0.002		< 0.001	< 0.020	0.044
10/3/2011	Endyne	0.024	0.28	0.13	< 0.010		< 0.020	< 0.050	< 0.200	< 0.200	34	< 0.001	*2.0*	< 0.0002	< 0.200	0.19	< 0.050		< 0.001	< 0.200	0.13
5/1/2012	Endyne	*0.004*	0.11	0.56	< 0.004		< 0.002	0.075	< 0.020	< 0.020	*86*	< 0.001	3.0	< 0.0002	< 0.020	0.27	0.003		< 0.002	< 0.020	0.16
10/1/2012	Endyne	*0.071*	0.96	0.25	< 0.010		< 0.020	0.23	< 0.200	< 0.200	32	< *0.002*	1.1	< 0.0002	< 0.200	0.29	< 0.020		< *0.010*	< 0.200	< 0.20
5/8/2013	Endyne	0.004	*0.028*	< 0.20	< 0.010		< 0.020	< 0.05	< 0.200	< 0.200	200	< 0.001	4.9	< 0.0002	< 0.200	0.27	< *0.002*	< 0.20	< *0.001*	< 0.200	0.47
10/10/2013	Endyne	0.004	0.34	< 0.20	< 0.010		< 0.020	0.08	< 0.200	< 0.200	55	< 0.010	2.1	< 0.0002	< 0.200	0.27	< 0.020	< 0.20	< 0.001	< 0.200	0.21
5/8/2014	Endyne	0.018	0.23	0.15	< *0.002*		< 0.004	0.049	< 0.040	< 0.040	43	< 0.002	2.1	< 0.0002	< 0.040	0.17	< 0.004	< 0.04	< 0.002	< 0.040	0.068
10/8/2014	Endyne	*0.075*	0.77	< 0.20	< 0.010		< 0.020	0.130	< 0.200	< 0.200	46	< 0.001	1.5	< 0.0002	< 0.200	0.43	< 0.002	< 0.20	< 0.001	< 0.200	0.210

Labs: Endyne = Endyne Inc., Williston, VT
Results listed here as "<---" means not detected to the reported detection limit.
Blank = not analyzed
**Primary and Secondary sampled together.
[1] Toxicity Characteristc= Taken from Vermont Hazardous Waste Management Regulations March 15, 2013. Chapter 2, Table 1-Maximum Concentration of Contaminants for the Characteristic of Toxicity.
Italicized data indicates that the data was qualified by the laboratory for QA/QC purposes. See laboratory reports for individual qualifiers, which are defined at the end of each laboratory report.

NEWSVT Landfills
Coventry, Vermont
PHASE I LINER - Primary Leachate
Metals and Other Inorganics (2 of 2)

		OTHER INORGANICS										
		BOD_5 (mg/L)	COD (mg/L)	Specific Conductance (us/cm) [2]	Total Chloride (mg/L)	Total Cyanide (mg/L)	Total Kjeldahl Nitrogen (mg/L)	Total Phos phorus (mg/L)	Total Sodium (mg/L)	Total Sulfate (mg/L)	pH s.u.	Temp (°C)
Toxicity Characteristic (mg/L) [1]		None	None	None	None	None	None	None	None	None	None	None
Date	Lab											
9/15/1992	Endyne	40	42.7		14.1			0.135				
10/26/1992	Endyne		147	1,700	17.3			0.144				15.10
5/24/1993	Endyne	[a] 2.6	538	1,910	78.1			0.78				10.50
10/27/1993	Endyne	510	902	2,250	157							7.90
5/25/1994	Endyne	1,800	15,900	2,795	220							10.20
10/12/1994	Endyne	2,800	5,200	3,950	150							13.00
5/23/1995	Endyne	3,600	13,600	5,200	466							12.00
10/31/1995	Endyne	[b] > 7,200	7,250	3,750	370							11.50
5/23/1996	Endyne	4,600	7,250	5,000	516							13.30
10/24/1996	Endyne	4,100	5,500	5,000	470							11.30
5/22/1997	Endyne	3,800	5,100	4,420	500							8.60
10/13/1997	Endyne	3,800	6,100	7,500	768							14.00
5/15/1998	Endyne	4,600	7,900	7,100	771							11.00
10/14/1998	Endyne	5,500	6,000	8,000	1,100							11.00
2/4/1999	Endyne				1,160							
5/4/1999	Endyne	3,500	4,250	600	1,050							17.00
8/5/1999	Endyne				1,060							
10/12/1999	Endyne	[a] 1200*	2,800	650	1,160							9.00
2/7/2000	Endyne	2,000	3,200		1,260							
5/4/2000	Endyne	8,800	12,600		1,110							
8/9/2000	Endyne	4,300	8,000		1,110							
10/10/2000	Endyne	2,000	2,500	1,900	1,110							11.50
2/9/2001	Endyne	7,800	12,800	2,100	1,490							11.50
5/3/2001	Endyne	4,700	8,200	7,000	756							13.50
8/6/2001	Endyne	4,700	9,500	10,100	1,440							18.00
10/3/2001	Endyne	2,500	5,600	7,500	1,090							10.29
02/07/2002**	Endyne	35	400	4,032	617							4.77
05/02/2002**	Endyne	22	188	4,400	94							6.99
08/07/2002**	Endyne	730*	1,090	13,772	1,810							16.03
10/2/2002	Endyne	2,600	5,200	12,891	1,190							17.37
2/6/2003**	Endyne	1,400	2,950	4,113	1,100							3.18
5/6/2003**	Endyne	1,500	3,850	>1990	1,100							10.00
8/12/03**	Endyne	6,500	12,600	10,552	1,200							17.46
10/2/03**	Endyne	3,500	8,600	9,532	1,460							12.65
2/2/04**	Endyne	5,800	9,400	7,843	1,060							4.61
4/13/04**	Endyne	3,100	5,200	6,954	773							8.86
8/9/2004**	Endyne	3,000	6,200	11,830	1,310							16.70
10/5/2004**	Endyne	1,000	3,450	5,500	1,460							14.35
2/9/2005**	Endyne	4,800	7,000	13,166	1,080							7.82
5/2/2005**	Endyne	1,800	3,300	5,243	464							9.31
8/2/2005**	Endyne	870	1,900	13,700	1,240							16.10
10/3/2005**	Endyne	630	3,350	16,786	1,360							15.46
2/6/06**	Endyne	1,500	2,300	9,410	760							10.10
5/2/2006**	Endyne	1,600	3,270	12,138	5,690							10.77
8/7/2006**	Endyne	160	2,250	13,043	1,150							15.27
11/16/2006	Endyne	1,600	1,800	7,259	580							14.78
4/30/2007	Endyne	6,600	2,980	10,675	993							12.66
10/3/2007	Endyne	2,400	8,600	16,042	1,700							18.98
5/6/2008	Endyne	660	3,200	9,897	900							14.40
10/6/2008	Endyne	4,500	9,600	2,110	2,200		2,800		1,800		7.7	14.70
5/6/2009	Endyne	2,100	4,100	13,350	1,100		1,200		1,100		7.35	12.40
10/6/2009	Endyne	2,900	7,000	7,670	2,100		1,600		2,000		7.9	17.30
5/3/2010	Endyne	1,500	*3,800*	11,220	1,300		640		1,100		7.5	17.00
10/4/2010	Endyne	1,700	3,700	7,450	670		700		640		7.0	18.20
5/3/2011	Endyne	340	1,500	7,260	850		430		810		7.1	13.60
10/3/2011	Endyne	720	*2,500*	8,283	1,000		550		800		7.4	18.60
5/1/2012	Endyne	1,200	2,200	2,776	770		580		650		6.6	10.50
10/1/2012	Endyne	*2,200*	1,200	7,800	1,100		1,100		1,200		7.6	15.20
5/8/2013	Endyne	890	380	7,910	700		580		640		7.1	11.80
10/10/2013	Endyne	1,400	3,400	9,330	1,300		860		790		7.3	14.40
5/8/2014	Endyne	410	800	4,254	570		410		540		7.0	13.40
10/8/2014	Endyne	1,100	3,100	11,740	1,000		950		1,200		5.8	14.80

Labs: Endyne = Endyne Inc., Williston, VT
[a] Depletion on most concentrated sample was less than 2.0 mg/l
[b] Residual concentration on least concentrated dilution was less than 1.0 mg/L; > = greater than listed value.
Results listed here as "<---" are shown on the lab reports as no detect. The < values listed here are the reported detection limit.
blank = not analyzed
* Sample was analyzed past the EPA Method specified hold time
**Primary and Secondary sampled together.
[2] Beginning on 2/9/05, samples were analyzed for specific conductance, (temperature adjusted). Samples taken prior to this date were analyzed for conductivity.
[1] Toxicity Characteristc= Taken from Vermont Hazardous Waste Management Regulations March 15, 2013. Chapter 2, Table 1-Maximum Concentration of Contaminants for the Characteristic of Toxicity.
Italicized data indicates that the data was qualified by the laboratory for QA/QC purposes. See laboratory reports for individual qualifiers, which are defined at the end of each laboratory report.

NEWSVT Landfills
Coventry, Vermont
PHASE I LINER - Primary Leachate
Organics (1 of 4)
(EPA Methods 8240, 8260, 8260B, 8270, 8080 and 608)

VOLATILE ORGANICS (8240/8260)

		Detected Compounds															
		Acetone	Benzene	2-Butanone (MEK)	t-Butanol	Chloro-ethane	Chloro form	Chloro benzene	cis -1,2 Dichloro-ethene	Dichloro-difluoro-methane	1,1-Di chloro ethane	1,2-Di chloro ethane	1,4-Di chloro benzene	Diethyl Ether	Ethyl-Benzene	2-Hex anone	Styrene
Toxicity Characteristic [4]		None	500	200,000	None	None	6000	100,000	None	None	None	500	7500	None	None	None	None
Date	Lab	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/L)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
9/15/1992	Endyne										14.5						
10/27/1992	Endyne	505	8.6	2220			4.7				82.9		2.1		18.1		
5/24/1993	Endyne	1170		1530						50	63.5				11.0		
10/27/1993	Endyne	525		1360							84				14.5		
5/26/1994	Endyne			2660							52.0				11.0	139	
10/12/1994	Endyne [1]										141.0		13.9		11.2		
5/24/1995	Endyne									50	59.9				15.1		
10/31/1995	Endyne					40.6			12.1		82.1				22.8		
5/23/1996	Endyne					82.7			13.5		13.2				25.4		
10/24/1996	Endyne					129			11.5		59.7				20.4		
5/22/1997	Endyne		7.9			103			9.6		5.5				20.6		
10/13/1997	Endyne														10		
5/15/1998	Endyne		6.2			50.0			5						20.8		
10/14/1998	Endyne		6.3			50.7									17.3		
2/4/1999	Endyne														23.2		
5/4/1999	Endyne																
8/5/1999	Endyne [2]	5150	3.8	10400		7.9					2.1		1.3		15.4	50.9	
10/12/1999	Endyne	3120	3.3	6710									1.3		18.5	47.8	
2/7/2000	Endyne	9820	12.6	14900										311	22.2		
5/4/2000	Endyne	5790		18500		32.9					19.5			205	22.1		
8/9/2000	Endyne	10500		22900										251	23.7		
10/10/2000	Endyne	7920		16800										270	22.7		
2/9/2001	Endyne	10100	5.5	25400		36.9					10.6			311	26.8		
5/3/2001	Endyne		9.1			70.4			7.8		40.5				32.6		
8/14/2001	Endyne	11,100		24,300											14.8		
10/3/2001	Endyne	10,700		26,200										233	10.1		
02/07/2002*	Endyne	112	1.5	29.7					1.4		4.3			46.1	3.4		
05/02/2002*	Endyne	38		37.5											1.2		
08/07/2002*	Endyne	148		195										33.3			
10/2/2002	Endyne	11,800		22,200										175	13.1		
2/6/03*	Endyne	11,300		20,300							7.1			154	10.5		
5/6/2003*	Endyne	12,100		16,600										90	19.4		
8/12/03*	Endyne	7,930	6.4	17,200					9.5		15.3		7.1	152	44.5		11.2
10/2/2003*	Endyne	5,110		11,800							7.3			73	5.2		
2/2/04*	Endyne	10,400		23,500										118	14.7	77.2	
4/13/2004*	Endyne	4,750	5.5	7,680					16.3		17.8		8.4	124	48.7		14
8/9/2004*	Endyne	13,500		20,700										138	16.0		
10/5/2004*	Endyne	4,670		8,250										87	13.6		
2/9/2005*	Endyne	13,500	5.2	25,300							12.2		7.2	130	46.8	89.3	6
5/2/2005*	Endyne	13,800	11.9	21,700					16.5		9.4		21.8	123	91.5	320.0	26.7
8/2/2005*	Endyne	2,990		3,930										67			
10/3/2005*	Endyne	2,680		4,710										131	17.1		
2/6/2006*	Endyne	9,140	5.2	15,300									6.3	96.6	36.6		
5/2/2006*	Endyne	8,120		9,860									6.2	80.2	32.6		
8/7/2006*	Endyne	1,180		1,620										48.6	10.0		
11/16/2006	Endyne	1,780		2,470										114.0	15.6		
4/30/2007	Endyne	7,740		9,000							5.7		5.9	69.2	27.2	65.0	
10/3/2007	Endyne	5,120		6,560	1,360				6.6		13.5			110	18.6		
5/6/2008	Endyne	4,990	5.2	6,560	1,130								6.3	76.2	36.9		5.3
10/6/2008	Endyne	14,500		15,100	1,450								7.1	51.7	20.1		
5/6/2009	Endyne	4,030	6.5	3,740	2,130				5.7		9.0		7.8	125.0	49.4		
10/6/2009	Endyne	9,390		11,100	1,360				5.4				5.6	117.0	29.3		5.6
5/3/2010	Endyne	*6,410*	5.7	5,810	2,410								6.0	102.0	28.5		
10/4/2010	Endyne	39,100	12.6	37,800	5,710							5.4	17.2	62.5	68.7	196.0	15.2
5/3/2011	Endyne	10,300		8,950	1,700				5.3			7.2	6.8	45.5	28.1		
10/3/2011	Endyne	4,990	7.7	5,850	1,640				5.2			6.3	6.1	72.0	25.7		5.5
5/1/2012	Endyne	3,020	7.9	3,800	1,440						7.0		8.0	159.0	51.4		
10/1/2012	Endyne	13,100	8.7	14,600	5,970				6.4			9.2	13.8	75.0	57.1	87.3	
5/8/2013	Endyne	9,720	10.5	10,700	3,210				9.1			10.1	15.9	80.7	63.2	85.0	11.2
10/10/2013	Endyne	3,670	9.7	3,770	1,770			5.9					11.1	108.0	47.8		
5/8/2014	Endyne	1,790		2,020	1,470												
10/8/2014	Endyne	709	6.6	1,810	958			5.6					6.1	81.7	15.9		

[1] Method 8260 began on 10/12/94
[2] EPA Method 8260B began on August 5, 1999
Labs: Endyne = Endyne, Inc. Williston, VT.
"Method" = EPA method of analysis; "ND" indicates no detects for that test method.
NA = Method not analyzed on this date
PLE = Present in background laboratory environment
[a] = High Sulfur contamination
Results listed here as "<___" are shown on lab reports as "TBQ: Trace below quantitation limit." The < values listed here are the reported detection limit.
blank = not detected (see individual lab reports for detection levels)
*Primary and Secondary Leachate were sampled together.
[4]Toxicity Characteristc= Taken from Vermont Hazardous Waste Management Regulations March 15, 2013. Chapter 2, Table 1-Maximum Concentration of Contaminants for the Characteristic of Toxicity.
Italicized data indicates that the data was qualified by the laboratory for QA/QC purposes. See laboratory reports for individual qualifiers, which are defined at the end of each laboratory report.

Coventry, Vermont
PHASE I LINER - Primary Leachate
Organics (2 of 4)
(EPA Methods 8240, 8260, 8260B, 8270, 8080 and 608)

VOLATILE ORGANICS (8240/8260)

		Detected Compounds															
		p-Isopropyl-toluene	4-Methyl 2-Pentanone	Methylene Chloride	MTBE	Naphthalene	Tetra chloro ethene	Tetra hydro furan	Toluene	1,1,1-Tri chloro ethane	Tri chloro ethene	1,2,4 - Tri methyl benzene	1,3,5- Tri-methyl-benzene	Total Xylenes	Trichloro fluoro methane	Unidentified Peaks
Toxicity Characteristic [4]		None	None	None	None	None	700	None	None	None	500	None	None	None	None	None
Date	Lab	(ug/L)	ug/l	ug/l	ug/l		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	
9/15/1992	Endyne			484	5					80.8	2				27.0	1
10/27/1992	Endyne		69	371	43.2		6.4		269	165	12.2			89.6	21.7	3
5/24/1993	Endyne		86.5	PLE	36.5		< 10		69.5	168	5			29.5	47.0	2
10/27/1993	Endyne				100				35	159				16	38.0	0
5/26/1994	Endyne		<100	212	35		< 20		182	85.0	5			30	20.0	6
10/12/1994	Endyne [1]			103	144		14.6		749	53.4	10			40.2	10	8
5/24/1995	Endyne			73.4	65.9		< 10		488	10	10			30.3	10	10
10/31/1995	Endyne			88.7	54.3				917					55.2		8
5/23/1996	Endyne			101	75.8				885		10.3	10		65.4		10
10/24/1996	Endyne			157	36.2				1090		10	10	< 10	59.5		10
5/22/1997	Endyne			56.0	60.1				925			7.6	8.1	72.4		10
10/13/1997	Endyne				46.3				1320					27.6		6
5/15/1998	Endyne			38.6	52.5				1770			5.7		55.6		6
10/14/1998	Endyne			38.1	63.1				1890			7		51.6		> 10
2/4/1999	Endyne				34.5				2430					70.2		> 10
5/4/1999	Endyne								1290							3
8/5/1999	Endyne [2]		167	< 6	45.6				1160			5.0	1.8	48.5		> 10
10/12/1999	Endyne		134	3.1	27		1.0		888			5.2	1.8	53.6		8
2/7/2000	Endyne				55.2			2,740	2520					57.9		3
5/4/2000	Endyne		245	103.0	33.4			996	1110			11.1		60.1		> 10
8/9/2000	Endyne		277		38.2			1,980	2100					55.1		6
10/10/2000	Endyne		202		46.5			1,260	1300					60.2		3
2/9/2001	Endyne		380	43.6	67.7			1,390	747			11.1		68.4		> 10
5/3/2001	Endyne			84.1	47.5				425			10.2		85.4		> 10
8/14/2001	Endyne				49.8			2,320	319			5.2		43.4		6
10/3/2001	Endyne		254		46.5			2,030	117					32.4		5
02/07/2002*	Endyne				16.7			449	3.2					10.4		5
05/02/2002*	Endyne							74.5	3					4.1		0
08/07/2002*	Endyne				8.5			800						3.7		5
10/2/2002	Endyne		129		26.7			1,560	104			6.8		40.9		5
2/6/03*	Endyne		232	77.0	28.5			2,000	52.8					31.3		7
5/6/2003*	Endyne		208		21			2,270	87.6			6.2		56.3		> 10
8/12/03*	Endyne		183	44.3	45.2			919	214		8.6	11.0		115.0		7
10/2/2003*	Endyne		87.6		15.4			684	34.0					15.6		3
2/2/04*	Endyne	6.2	288		31.2			2,310	79.9			5.4		48.2		8
4/13/04*	Endyne	9.5	169	37.5	35.2	12.7		1,850	268			16.9	7.1	167		> 10
8/9/2004*	Endyne	5.2	243		36.8			2,730	51.8					45.5		5
10/5/2004*	Endyne		208		29			1,350	41.3					39.7		7
2/9/2005*	Endyne	8.4	293		33.4	12.6		2,320	149			12.7	5.3	137		> 10
5/2/2005*	Endyne	12.7	1,160	68.6	53.8	74.7	6.2	7,420	472		7.1	37.5	11.7	259		> 10
8/2/2005*	Endyne	6.2	110		21.5			1,570	28.6					34.2		> 10
10/3/2005*	Endyne	11.9	147		33.4	13.3		1,940	36.1			6.7		48.9		> 10
2/6/06*	Endyne	10.5	333		26.0	31.3		4,030	98.5			10.4		93.2		> 10
5/2/2006*	Endyne	5.4	163		15.9			1,240	93.8			6.1		75.1		7
8/7/2006*	Endyne		75.8		11.7			1,020	11.6					25.6		> 10
11/16/2006	Endyne				21.9			681	16.9			5.1		43.7		5
4/30/2007	Endyne		211		17.1	11.3		2,180	72.6			7.4		64.7		7
10/3/2007	Endyne		142		19.8	11.5		1,920	43.9			6.0		57.8		> 10
5/6/2008	Endyne		124		15.9	18.7		1,960	72.7			10.2		84.8		> 10
10/6/2008	Endyne		235		10.5	28.2		2,900	57.4			8.5		49.4		
5/6/2009	Endyne	6	157		20.0	15.6		2,560	154.0			12.9		117.0		>10
10/6/2009	Endyne		159		17.4	17.7		2,520	57.1			9.3		74.6		> 10
5/3/2010	Endyne		119		14.7	13.7		1,460	53.5			8.0		63.2		> 10
10/4/2010	Endyne	45.2	379		12.5	26.8		3,660	129.0			36.5	11.3	156.0		> 10
5/3/2011	Endyne		156						52.0			9.3		72.0		> 10
10/3/2011	Endyne		139		12.0			1,810	48.4			8.4		66.0		6
5/1/2012	Endyne	8.6	128		29.4	19.7		2,020	117.0			14.8		118.0		5
10/1/2012	Endyne	37.2	334		12.7	54.1		3,120	110.0			28.5	9.0	135.0		>10
5/8/2013	Endyne	43.9	329		13.0	71.9		3,160	115.0			33.7	10.4	144.0		1
10/10/2013	Endyne	10.6	136		19.3	36.6		1,780	79.2			20.9	6.1	122.0		> 10
5/8/2014	Endyne							1,390								0
10/8/2014	Endyne	5.8	54.9		17.1	16.5		1,460	36.6			13.3		85.0		3

[1] Method 8260 began on 10/12/94
[2] EPA Method 8260B began on August 5, 1999
Labs: Endyne = Endyne, Inc., Williston, VT
"Method" = EPA method of analysis; "ND" indicates no detects for that test method.
NA = Method not analyzed on this date
PLE = Present in background laboratory environment
[a] = High Sulfur contamination
Results listed here as "<___" are shown on lab reports as "'TBQ: Trace below quantitation limit." The < values listed here are the reported detection limit.
blank = not detected (see individual lab reports for detection levels)
*Primary and Secondary Leachate were sampled together.
[4]Toxicity Characteristc= Taken from Vermont Hazardous Waste Management Regulations March 15, 2013. Chapter 2, Table 1-Maximum Concentration of Contaminants for the Characteristic of Toxicity.
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NEWSVT Landfills
Coventry, Vermont
PHASE I LINER - Primary Leachate
Organics (3 of 4)
(EPA Methods 8240, 8260, 8270, 8080, 608 and 1664)

SEMI-VOLATILE ORGANICS (8270, 608, 8080, 1664)

					Detected Compounds												
					EPA Method 8270												**Method 1664**
		Methods with Non-Detects			Aceto-phenone	Diethyl-phthalate	Benzo (b,k) fluor anthene	Naphthalene	Phenol	3&4 Methyl phenol	2 Methyl-phenol	2,4 Dimethyl-phenol	Benzyl alcohol	Penta-chloro-phenol	Total Cresols	Unidentified Peaks	Oil and Grease
Toxicity Characteristic [4]					None	None	None	None	None	None	None	None	None	100,000	200,000	None	None
Date	Lab	8270	608	8080	ug/L	ug/L	ug/L	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	#	mg/L
9/15/1992	Endyne		ND	NA				< 1	23							16	4
10/27/1992	Endyne		ND	NA				11.3								> 25	1
5/24/1993	Endyne		NA	ND					63	405						> 25	
10/27/1994	Endyne		NA	ND	56.5	11.1			85	873						> 25	
5/26/1994	Endyne		NA	ND					128	1,330						> 10	
10/12/1994	Endyne		NA	ND	43.9	13.1				4,330	21	45.3		230		> 10	
5/24/1995	Endyne		NA	NA	130		14.5	< 2	464	8,290						> 10	
10/31/1995	Endyne		NA	NA	9.3					3,830	608			349		> 10	
5/23/1996	Endyne		NA	NA					570	9,980						> 10	
10/24/1996	Endyne		NA	NA					274	5,330	50					> 10	
5/22/1997	Endyne		NA	NA					180	5,600						> 10	
10/13/1997	Endyne		NA	NA					105	6,470	50					> 10	
5/15/1998	Endyne		NA	NA		200			240	9,900						> 10	
10/14/1998	Endyne		NA	NA					414	15,200						> 10	
5/4/1999	Endyne		NA	NA		73.8			101	5,180	25.3					> 10	
8/5/1999	Endyne	NA	NA	NA													
10/12/1999	Endyne		NA	NA						2,440						> 10	
5/4/2000	Endyne		NA	NA					588	8,470						> 10	5
10/10/2000	Endyne		NA	NA					174	7,480						> 10	
5/3/2001	Endyne		NA	NA						5,840						> 10	
8/14/2001	Endyne		NA	NA						5,840						> 10	
10/3/2001	Endyne		NA	NA					350	7,880						> 10	1.00
02/07/02*	Endyne		NA	NA												> 10	4
5/2/02*	Endyne		NA	NA												> 10	
10/2/2002	Endyne		NA	NA		89.7			1,020	1,930						> 10	9.5
5/6/2003*	Endyne		NA	NA					244	2,690			< 200**			> 10	9.5
10/2/2003*	Endyne		NA	NA					123	2,720						> 10	
4/13/04*	Endyne		NA	NA		54.1			550	3,620	99.8					> 10	
10/5/04*	Endyne		NA	NA					156	2,370						> 10	
5/2/2005	Endyne		NA	NA				52.5	378	495						> 10	
10/3/2005	Endyne		NA	NA						640						> 10	
5/2/2006*	Endyne		NA	NA					431	752						> 10	
11/6/2006	Endyne		NA	NA						505						> 10	NA
4/30/2007	Endyne		NA	NA					231	2,760						> 10	NA
4/30/2007	Endyne		NA	NA						4,300							NA
10/3/2007	Endyne		NA	NA					1,150	4,300					4,300	> 10	NA
5/6/2008	Endyne		NA	NA					160	840					840	> 10	NA
10/6/2008	Endyne		NA	NA					964	1,710					1,710	> 10	NA
5/6/2009	Endyne		NA	NA					265	1,730					1,730	> 10	NA
10/6/2009	Endyne		NA	NA					532	1,750					1,750	> 10	NA
5/3/2010	Endyne		NA	NA					424	1,360					1,360	> 10	NA
10/4/2010	Endyne		NA	NA				26.8	317	2,080					2,080	> 10	NA
5/3/2011	Endyne		NA	NA						121					121	> 10	NA
10/3/2011	Endyne		NA	NA				33.6	495	2,300					2,300	> 10	NA
5/1/2012	Endyne		NA	NA						943					943	> 10	NA
10/1/2012	Endyne		NA	NA				38.2	553	3,270					3,270	> 10	NA
5/8/2013	Endyne		NA	NA				48	240	923					923	> 10	NA
10/10/2013	Endyne		NA	NA					384	1,420					1,420	> 10	NA
5/8/2014	Endyne		NA	NA				34		164					164	> 10	NA
10/8/2014	Endyne		NA	NA					91.8	1,290					1,290	> 10	NA

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blank = not detected (see individual lab reports for detection levels)
*Primary and Secondary Leachate were sampled together.
** Indicates analyte recovery in associated QA/QC was not within laboratory accepted control limits.
[4]Toxicity Characteristc= Taken from Vermont Hazardous Waste Management Regulations March 15, 2013. Chapter 2, Table 1-Maximum Concentration of Contaminants for the Characteristic of Toxicity.
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NEWSVT Landfills
Coventry, Vermont
PHASE I LINER - Primary Leachate
Organics (4 of 4)
(EPA Methods 8240, 8260, 8270, 8080, 608 and 1664)

SEMI-VOLATILE ORGANICS (8270, 608, 8080, 1664)

					Detected Compounds			
					EPA Method 8270			
		Methods with Non-Detects			Acena-phthene	Fluorene	Phenan-threne	Bis(2-ethylhexyl) phthalate
Toxicity Characteristic [4]					None	None	None	None
Date	Lab	8270	608	8080	ug/L	ug/L	ug/L	ug/L
10/6/2008	Endyne		NA	NA				120
5/6/2009	Endyne		NA	NA				
10/6/2009	Endyne		NA	NA				172
5/3/2010	Endyne		NA	NA				
10/4/2010	Endyne		NA	NA				
5/3/2011	Endyne		NA	NA				
10/3/2011	Endyne		NA	NA				
5/1/2012	Endyne		NA	NA				
10/1/2012	Endyne		NA	NA	33.4	36.4	48.0	132
5/8/2013	Endyne		NA	NA	42.0	38.8	48.0	
10/102013	Endyne	ND	NA	NA				
5/8/2014	Endyne		NA	NA				

Labs: Endyne = Endyne, Inc., Williston, VT
"Method" = EPA method of analysis; "ND" indicates no detects for that test method.
NA = Method not analyzed on this date
PLE = Present in background laboratory environment
[a] = High Sulfur contamination
Results listed here as "<___" are shown on lab reports as "TBQ: Trace below quantitation limit." The < values listed here are the reported detection limit.
blank = not detected (see individual lab reports for detection levels)
*Primary and Secondary Leachate were sampled together.
** Indicates analyte recovery in associated QA/QC was not within laboratory accepted control limits.
[4]Toxicity Characteristc= Taken from Vermont Hazardous Waste Management Regulations March 15, 2013. Chapter 2, Table 1-Maximum Concentration of Contaminants for the Characteristic of Toxicity.
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NEWSVT Landfills
Coventry, Vermont
PHASE II LINER - Primary Leachate
Metals and Other Inorganics (1 of 2)

		Metals																			
		Total Antimony (mg/L)	Total Arsenic (mg/L)	Total Barium (mg/L)	Total Beryllium (mg/L)	Total Boron (mg/L)	Total Cadmium (mg/L)	Total Chromium (mg/L)	Total Cobalt (mg/L)	Total Copper (mg/L)	Total Iron (mg/L)	Total Lead (mg/L)	Total Manganese (mg/L)	Total Mercury (mg/L)	Total Molybdenum (mg/L)	Total Nickel (mg/L)	Total Selenium (mg/L)	Total Silver (mg/L)	Total Thallium (mg/L)	Total Vanadium (mg/L)	Total Zinc (mg/L)
Toxicity Characteristic (mg/L) [1]		None	5.0	100.0	None	None	1.0	5.0	None	None	None	5.0	None	0.2	None	None	1.0	5.0	None	None	None
Date	Lab																				
5/23/1996	Endyne		0.008				< 0.005	0.033		< 0.010	67.6	< 0.002	140	< 0.001		2.05		< 0.010			0.076
10/24/1996	Endyne		0.037				0.011	0.036		0.021	366	0.003	62.7	< 0.001		0.784	< 0.010	< 0.010			0.116
5/22/1997	Endyne		0.13				< 0.002	0.135		0.034	791	< 0.002	38.1	< 0.001		0.435	< 0.010	< 0.010			0.329
10/13/1997	Endyne		0.065				< 0.002	0.066		0.021	435	0.02	18.2	< 0.001		0.307	< 0.010	< 0.010			0.172
5/15/1998	Endyne	< 0.010	0.068	0.267	< 0.001		< 0.005	0.065	< 0.020	0.016	309	< 0.010	16.1	< 0.010	< 0.020	0.368	< 0.005	< 0.010	< 0.001	< 0.010	0.321
10/14/1998	Endyne	< 0.020	0.092		< 0.002		< 0.003	0.049	< 0.025	< 0.020	158	< 0.010	2.94	< 0.002	< 0.020	0.39	< 0.025		< 0.005	< 0.020	0.355
2/4/1999	Endyne		0.096				< 0.003	0.085		< 0.010		< 0.020		< 0.001	< 0.020	0.728	< 0.050				0.385
5/4/1999	Endyne	< 0.020	0.096	0.262	< 0.002		< 0.003	0.114	0.031	< 0.010	109	< 0.002	9.55	< 0.010	< 0.020	0.694	< 0.025	< 0.010	< 0.010	< 0.025	1.2
8/5/1999	Endyne		0.068				< 0.003	0.086		< 0.010		0.006		< 0.010	< 0.020	0.683	0.011	< 0.010			0.404
10/12/1999	Endyne	0.01	0.144	0.125		6.03	< 0.003	0.059	0.018	< 0.010	75.4	0.003	5.47	< 0.001	< 0.020	0.498	0.005	< 0.010	< 0.001	0.022	0.443
2/7/2000	Endyne		0.683				< 0.003	0.114		< 0.010		0.008		0.003	< 0.020	0.689	< 0.005				0.43
5/4/2000	Endyne	0.017	0.135	0.189	< 0.001	6.8	0.006	0.086	0.044	< 0.010	226	< 0.020	13.0	< 0.001	< 0.020	0.492	< 0.005	< 0.005	< 0.001	0.018	0.46
8/9/2000	Endyne		0.151				0.004	0.103				0.007				0.838					0.619
10/10/2000	Endyne	< 0.002	0.156	0.111	< 0.002	9.59	< 0.003	0.105	0.052	< 0.010	123	0.012	5.4	< 0.001	< 0.020	0.833	< 0.005	< 0.010	< 0.001	0.035	0.359
2/9/2001	Endyne		0.335				< 0.003	0.09		< 0.010		0.02		< 0.001	< 0.020	0.676	< 0.040				0.278
5/3/2001	Endyne	0.007	0.117	0.143	< 0.002		< 0.003	0.077	0.036	< 0.010	108	0.048	3.07	< 0.002	< 0.020	0.547	< 0.005	< 0.010	< 0.001	0.023	0.306
8/6/2001	Endyne		0.308				0.004	0.087	0.036	< 0.010		0.011		< 0.001	< 0.020	0.943	< 0.005				0.92
10/3/2001	Endyne	0.018	0.186	0.189	< 0.002	9.31	0.015	0.118	0.037	0.061	328	0.005	15.6	< 0.001	< 0.020	0.881	< 0.005	< 0.010	< 0.001	0.037	0.556
2/7/2002	Endyne	0.007	0.186	0.136	< 0.002	7.86	< 0.005	0.078	0.018	0.021	122	0.004	5.6	< 0.000	< 0.020	0.551	< 0.005	< 0.010	< 0.001	0.021	0.409
05/02/2002**	Endyne	0.007	0.145	0.157	< 0.002		0.005	0.088	0.038	< 0.010	152	0.022	6.79	< 0.001	< 0.020	0.612	< 0.005	< 0.010	< 0.001	< 0.020	1.17
08/07/2002**	Endyne		0.233				< 0.003	0.071		< 0.010		0.002		< 0.001	< 0.020	0.559	< 0.015				0.216
10/2/2002	Endyne	0.008	0.254	0.098	< 0.002	12.2	< 0.003	0.108	0.026	< 0.010	50.6	0.004	1.43	< 0.001	< 0.020	0.7	< 0.005	< 0.010	< 0.001	< 0.020	0.247
02/06/2003**	Endyne		0.51				< 0.003	0.062		< 0.010		0.006		< 0.001	< 0.020	0.437	0.015				0.194
05/6/2003**	Endyne	0.007	0.209	0.122	< 0.002		< 0.003	0.088	0.018	0.016	43.2	0.004	2.01	< 0.001	< 0.020	0.518	< 0.005	< 0.010	< 0.001	0.02	0.339
8/12/2003**	Endyne		0.234				< 0.003	0.078		< 0.010		0.006		< 0.001	< 0.020	0.437	0.013				0.151
10/2/2003**	Endyne	0.014	1.38	0.516	< 0.002	10.6	0.004	0.241	0.201	0.17	525	0.006	9.47	< 0.001	0.033	1.6	< 0.005	< 0.010	< 0.001	0.093	9.39
2/2/2004**	Endyne		0.276				< 0.003	0.118		< 0.010		0.005			< 0.020	0.652	< 0.020				0.209
4/13/2004**	Endyne	0.013	0.62	0.249	< 0.002		< 0.003	0.17	0.037	0.019	54.5	0.005	1.28	< 0.001	0.01	0.97	< 0.025	< 0.010	< 0.001	0.06	0.43
8/9/2004	Endyne		0.168				< 0.003	0.121		0.029		0.007		< 0.001	< 0.020	0.64	< 0.025				0.191
10/5/2004**	Endyne	0.01	0.223	0.102	< 0.002		< 0.003	0.128	0.021	< 0.010	15	0.005	0.478	< 0.001	< 0.020	0.681	< 0.020	< 0.010	< 0.001	0.029	0.203
2/9/2005**	Endyne		0.256				< 0.003	0.11		< 0.010		0.006		< 0.001	< 0.020	0.635	< 0.010				0.122
5/2/2005**	Endyne	0.006	0.155	0.114	< 0.002		< 0.003	0.091	0.017	< 0.010	15.9	0.005	1.28	< 0.001	< 0.020	0.485	< 0.010	< 0.010	< 0.002	0.024	0.115
8/2/2005**	Endyne		0.563				< 0.003	0.17		0.013		0.004		< 0.001	< 0.020	0.944	< 0.025				0.953
10/3/05**	Endyne	0.011	0.43	0.246	0.016		< 0.002	0.206	0.057	0.046	164	0.005	3.5	< 0.001	< 1.000	1.12	< 0.020	< 0.020	< 0.100	< 0.100	0.484
2/6/06**	Endyne		0.168				< 0.002	0.06		0.013		< 0.010		< 0.001	< 0.020	0.258	< 0.010				0.084
5/1/2006**	Endyne	0.006	0.126	< 0.020	< 0.002		< 0.002	0.059	< 0.020	< 0.010	2.23	< 0.010	0.073	< 0.001	< 0.020	0.375	< 0.010	< 0.010	< 0.001	< 0.040	0.045
8/7/2006**	Endyne		0.666				0.009	0.266		0.058		0.048		< 0.001	< 0.040	2.05	< 0.005				7.1
11/16/2006	Endyne	0.003	0.232	0.105	< 0.002		< 0.002	0.088	< 0.020	0.022	25.9	0.002	2.2	< 0.010	< 0.020	0.396	< 0.020		< 0.002	< 0.020	0.081
4/30/2007	Endyne	0.006	0.269	0.073	< 0.002		0.002	0.083	0.025	< 0.020	46.5	< 0.001	1.46	< 0.001	< 0.020	0.411	0.005		<0.001	0.028	0.101
10/3/2007	Endyne	< 0.100	0.575	0.143	< 0.004		< 0.004	0.189	0.056	< 0.040	93.1	< 0.002	1.28	< 0.001	< 0.040	0.819	< 0.100		< 0.100	0.062	0.242
5/6/2008	Endyne	0.002	0.522	0.1	< 0.002		0.003	0.11	< 0.020	< 0.016	21	0.001	1.4	< 0.001	< 0.020	0.43	< 0.002		< 0.002	0.028	0.086
10/6/2008	Endyne	< 0.002	0.39	0.11	< 0.002		< 0.020	0.21	0.026	< 0.020	10	< 0.001	0.28	< 0.001	< 0.020	0.63	< 0.004		< 0.010	0.055	0.052
5/6/2009	Endyne	< 0.002	0.55	0.13	< 0.002		0.003	0.17	0.03	0.029	50	0.009	1.5	< 0.001	< 0.010	0.56	< 0.002		< 0.002	0.056	0.11
10/6/2009	Endyne	< 0.020	0.5	0.11	< 0.002		< 0.002	0.18	0.028	< 0.020	15	< 0.001	0.55	< 0.001	< 0.010	0.6	< 0.020		< 0.010	0.051	0.095
5/3/2010	Endyne	< 0.010	0.34	0.26	< 0.005		< 0.010	0.27	< 0.100	< 0.100	7.1	< 0.005	0.78	< 0.0002	< 0.100	0.39	< 0.010		< 0.005	< 0.010	0.12
10/4/2010	Endyne	0.005	0.33	< 0.100	< 0.005		< 0.010	0.26	< 0.100	< 0.100	4.3	< 0.002	0.75	< 0.0002	< 0.100	0.27	< 0.004		< 0.002	< 0.100	0.13
5/3/2011	Endyne	0.003	0.3	0.13	< 0.001		< 0.002	0.14	0.028	< 0.020	*18*	< 0.001	1.6	< 0.0002	< 0.020	0.3	< 0.002		< 0.002	0.022	0.34
10/3/2011	Endyne	0.013	0.34	0.082	< 0.010		< 0.020	0.18	< 0.200	< 0.200	5.3	*< 0.001*	*1.2*	< 0.0002	< 0.020	0.4	< 0.050		*< 0.001*	< 0.200	0.15
5/1/2012	Endyne	*0.008*	0.29	0.72	< 0.001		< 0.002	0.13	0.034	< 0.020	26	< 0.001	1.5	< 0.0002	< 0.020	0.31	< 0.004		< 0.003	0.023	0.037
10/1/2012	Endyne	0.006	0.26	< 0.20	< 0.010		< 0.020	0.14	< 0.20	< 0.200	10	< 0.003	1.3	< 0.0002	< 0.200	0.33	< 0.020		< 0.010	< 0.20	< 0.20
5/8/2013	Endyne	< 0.002	0.016	< 0.20	< 0.010		< 0.020	0.07	< 0.20	< 0.020	16	< 0.001	1.2	< 0.0002	< 0.200	0.28	< 0.002	< 0.200	< 0.001	< 0.20	< 0.20
10/10/2013	Endyne	< 0.002	0.18	< 0.20	< 0.010		< 0.020	0.11	< 0.20	< 0.200	19	< 0.010	1.5	< 0.0002	< 0.200	0.27	< 0.020	< 0.200	< 0.001	< 0.20	< 0.20
5/8/2014	Endyne	0.058	0.76	0.32	< 0.004		< 0.008	0.26	< 0.080	< 0.080	7.2	< 0.002	0.84	< 0.0002	< 0.080	0.18	< 0.004	< 0.080	< 0.002	< 0.080	< 0.080
10/8/2014	Endyne	*0.012*	0.56	< 0.20	< 0.010		< 0.020	0.18	< 0.200	< 0.200	4.4	< 0.001	0.59	< 0.0002	< 0.200	0.33	< 0.002	< 0.200	< 0.001	< 0.200	< 0.200

Labs: Endyne = Endyne Inc., Williston, VT
Results listed here as "<---" means not detected to the reported detection limit.
blank = not analyzed
**Primary and Secondary sampled together.
[1]Toxicity Characteristc= Taken from Vermont Hazardous Waste Management Regulations March 15, 2013. Chapter 2, Table 1-Maximum Concentration of Contaminants for the Characteristic of Toxicity.
Italicized data indicates that the data was qualified by the laboratory for QA/QC purposes. See laboratory reports for individual qualifiers, which are defined at the end of each laboratory report.

NEWSVT Landfills
Coventry, Vermont
PHASE II LINER - Primary Leachate
Metals and Other Inorganics (2 of 2)

		OTHER INORGANICS											
		BOD_5 (mg/L)	COD (mg/L)	Specific Conductance (us/cm) [2]	Total Chloride (mg/L)	Total Cyanide (mg/L)	Total Kjeldahl Nitrogen (mg/L)	Total Phos phorus (mg/L)	Total Sodium (mg/L)	Total Sulfate (mg/L)	pH (s.u.)	Temp (°C)
Toxicity Characteristic (mg/L) [1]		None	None	None	None	None	None	None	None	None	None	None
Date	Lab											
5/23/1996	Endyne	[b] > 690	2,980	2,700	245				171		6.05	8.50
10/24/1996	Endyne	2,000	2,700	3,310	221		53.9		171		5.37	10.80
5/22/1997	Endyne	7,500	12,200	5,500	830		291		593		6.17	8.00
10/13/1997	Endyne	3,600	4,600	5,050	498				653		6.56	14.00
5/15/1998	Endyne	3,800	6,300	8,100	920		488		938		6.85	10.50
10/14/1998	Endyne	4,000	7,100	7,000	1,220		537		954		6.82	11.00
2/4/1999	Endyne				1,640		661					
5/4/1999	Endyne	6,600	10,500	800	1,160	< 0.010	889		1,140		6.76	17.00
8/5/1999	Endyne				1,260	< 0.010	638					
10/12/1999	Endyne	3,300	6,300	800	1,380	< 0.010	832				6.8	9.00
2/7/2000	Endyne	4,500	6,050		1,540		745				7.06	
5/4/2000	Endyne	6,100	9,300		1,010	< 0.010	542		953			
8/9/2000	Endyne	3,800	7,000		1,290		1,060				7.22	
10/10/2000	Endyne	[c] 2,200	5,000	2,000	1,190	< 0.010	910		1,630		7.1	12.00
2/9/2001	Endyne	1,500	4,100	1,900	1,380		1,770				7.32	11.00
5/3/2001	Endyne	1,700	4,000	7,500	687				706		7.22	14.00
8/6/2001	Endyne	5,000	12,000	12,500	1,750		1,050				7.22	17.50
10/3/2001	Endyne	8,100	13,300	6,909	1,160	< 0.010	917		1,710		6.89	11.90
2/7/2002	Endyne	4,100	6,200	10,865	1,190	< 0.010			1,170		7.2	10.27
05/02/2002**	Endyne	4,800	7,500	6,011	1,210		819		1,140		6.86	8.81
08/07/2002**	Endyne	2,000	4,200	14,016	1,510		1,120				7.43	14.88
10/2/2002	Endyne	1,200	3,250	13,925	1,670	< 0.010	1,040		1,530		7.45	15.87
2/6/2003**	Endyne	1,100	2,850	4,902	1,220		1,040				7.50	5.06
5/6/2003**	Endyne	2,900	3,100	> 1990	1130*		844				7.36	10.00
8/12/2003**	Endyne	1,000	2,450	10,734	1,330		802				7.42	18.24
10/2/2003**	Endyne	500	2,950	11,717	2,080	< 0.010	1,030		1,560		7.64	13.64
2/2/2004**	Endyne	1,400	2,200	8,775	1,310		899				7.55	7.66
4/13/2004**	Endyne	1,600	3,650	11,300	1,640		1,320		167		7.62	12.16
8/9/2004**	Endyne	550	1,800	12,230	1,530		960				7.80	19.10
10/5/2004**	Endyne	310	1,700	5,746	1,550		1,100		1,260		7.38	15.39
2/9/2005**	Endyne	760	2,050	13,440	1,220		931				7.60	7.57
5/2/2005**	Endyne	590	1,800	9,370	1,010		899		993		7.45	9.67
8/2/2005**	Endyne	6,700	10,200	19,690	2,050		1,510				7.25	22.10
10/3/2005**	Endyne	6,600	9,800	21,752	1,910		1,540		2,290		7.66	18.29
2/6/06**	Endyne	2,000	3,230	11,760	1,050		777				7.40	11.50
5/1/2006**	Endyne	270	833	6,661	3,410		391		695		8.58	8.24
8/7/2006**	Endyne	59	850	8,230	552		431				8.17	13.01
11/16/2006	Endyne	2,400	2,450	10,658	927		676		1,100		7.12	16.34
4/30/2007	Endyne	1,700	1,020	11,422	1,120		849		829		7.44	14.43
10/3/2007	Endyne	1,300	3,600	15,682	1,700		1,300		1,540		7.43	18.72
5/6/2008	Endyne	420	2,600	12,245	1,300		780		1,200		7.16	15.39
10/6/2008	Endyne	570	2,500	1,930	1,900		1,200		1,700		7.60	14.90
5/6/2009	Endyne	470	2,100	15,650	1,600		1,400		1,500		7.51	14.50
10/6/2009	Endyne	620	3,000	13,590	1,900		1,900		1,800		8.20	17.30
5/3/2010	Endyne	380	*3,400*	17,110	2,000		1,100		1,800		8.20	19.90
10/4/2010	Endyne	3,000	9,100	21,000	2,800		1,100		1,900		7.60	20.00
5/3/2011	Endyne	1,600	4,100	12,150	1,500		660		1,400		7.10	14.60
10/3/2011	Endyne	990	*2,800*	11,560	1,600		880		1,200		7.50	19.30
5/1/2012	Endyne	2,400	5,800	4,890	1,800		1,100		1,200		6.90	12.20
10/1/2012	Endyne	1,000	*920*	10,340	1,100		900		1,200		7.50	17.10
5/8/2013	Endyne	300	280	9,590	930		580		940		7.58	14.90
10/10/2013	Endyne	160	1,300	8,210	970		660		970		7.28	17.10
5/8/2014	Endyne	1,500	11,000	17,560	3,300		1,800		2,900		7.32	11.80
10/8/2014	Endyne	2,800	11,000	17,100	1,700		1,800		2,100		6.38	18.70

Labs: Endyne = Endyne Inc., Williston, VT
[b] Residual concentration on least concentrated dilution was less than 1.0 mg/L; > = greater than listed value.
[c] Sample was re-analyzed past EPA method specified holding time.
Results listed here as "<---" means not detected to the reported detection limit.
blank = not analyzed
**Primary and Secondary samples sampled together.
*Laboratory fortified matrix analysis indicates there may be a positive interference.
[2] Beginning on 2/9/05, samples were analyzed for specific conductance, (temperature adjusted). Samples taken prior to this date were analyzed for conductivity.
[1]Toxicity Characteristc= Taken from Vermont Hazardous Waste Management Regulations March 15, 2013. Chapter 2, Table 1-Maximum Concentration of Contaminants for the Characteristic of Toxicity.
Italicized data indicates that the data was qualified by the laboratory for QA/QC purposes. See laboratory reports for individual qualifiers, which are defined at the end of each laboratory report.

NEWSVT Landfills
Coventry, Vermont
PHASE II LINER - Primary Leachate
Organics (1 of 3)
(EPA Methods 8240, 8260, 8260B, 8270, 8080 and 608)

VOLATILE ORGANICS (8240/8260)

		Detected Compounds														
		Acetone	Benzene	2-Butanone (MEK)	t-Butanol	Chloro-ethane	Chloro form	cis -1,2 Dichloro-ethene	Dichloro-difluoro-methane	1,1-Di chloro ethane	1,2- Di-chloro-ethane	1,4-Di chloro benzene	Diethyl Ether	Ethyl-Benzene	2-Hex anone	p-Isopropyl-toluene
Toxicity Characteristic [4]		None	500	200,000	None	None	6000	None	None	None	500	7500	None	None	None	None
Date	Lab	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
5/23/1996	Endyne		10			< 25	28.8		192	12.1				11		
10/24/1996	Endyne		10.5			41.4	33.8		90.2	68.4	38.6			25.0		
5/22/1997	Endyne		20.4			50.2	14.5	27.3	50	66.9	18.2	6.1		53.4		
10/13/1997	Endyne		10					10		26.4				29.3		
5/15/1998	Endyne		7.8			33.1		14.2						38.1		5.1
10/14/1998	Endyne		6.9			32.0		7.6						38.0		< 5
2/4/1999	Endyne													30.2		
5/4/1999	Endyne													25.0		< 7
8/5/1999	Endyne [1]	9130	2.9	9050								1.5		20.4	316	6.1
10/12/1999	Endyne	5820	2.3	7380								2.1		24.8	424	9.6
2/7/2000	Endyne	10400		10800									262	32.2	457	
5/4/2000	Endyne	6140		9900						< 6			177	22.2	865	9.4
8/9/2000	Endyne	2800		3670									144	27.5	138	
10/10/2000	Endyne	5680		6550						< 5.2			171	34.5	118	10.1
2/9/2001	Endyne	2620		4090									184	40.2		14.4
5/3/2001	Endyne													21.8		10.0
8/6/2001	Endyne	19,800		17500									199	11.3	412	
10/3/2001	Endyne	37,200	6.6	30000				7.00		8.6			221	32.5	273	12.2
2/7/2002	Endyne	11,000		20,300						8.8			128	24.0		10.6
05/02/2002*	Endyne	10,200		16,500						11.2			162	19.4		7.0
08/07/2002*	Endyne	7,100		7,200									118	13.8		8.7
10/2/2002	Endyne	7,190	5.2	7,830									145	26.7		21.0
2/6/03*	Endyne	11,100		16,300						5.0			150	22.3		10.0
5/6/2003	Endyne	4,850		4,690									107	23.4		7.4
8/12/2003*	Endyne	1,050		1,450									77.4	22.0		7.8
10/2/03*	Endyne	1,780		2,630									120	22.1		8.9
2/2/04*	Endyne	1,570		3,460									97	20.7		9.5
4/13/04*	Endyne	5,740		8,250									114	22.6		
8/9/2004*	Endyne	2,050		2,520									87	9.7		
10/5/2004*	Endyne	1,600		1,760									67	12.8		
2/9/2005*	Endyne	3,520		5,050									101	18.0		7.7
5/2/2005*	Endyne	2,730		4,010									127	21.2		6.8
8/2/2005*	Endyne	9,540		9,070				7.4		11.0		5.1	102	33.1	113	5.5
10/3/2005*	Endyne	11,900		17,500				6.4		9.6			76	24.0	102	
2/6/06*	Endyne	5,600		7,340				6.8		17.9			105	18.4		
5/1/2006*	Endyne	78.7		31.5												
8/7/2006*	Endyne	12.7												1.3		
11/16/2006***	Endyne	2,560.0		2,740.0						11.1			74.5	10.1		
4/30/2007	Endyne	3,650		2,860				5.6		14.6			83.8	15.3		
10/3/2007	Endyne	2,050		2,610	1,070								56.3			
5/6/2008	Endyne	1,990		1,960	952			6.1		13.0		5.1	90.5	25.4		
10/6/2008	Endyne	807		772	922					5.3		5.3	63.1	27.8		
5/6/2009	Endyne	1,500	5.8	1,410	1,560			13.8		12.0		9.1	112.0	54.5		9.1
10/6/2009	Endyne	1,290		1,150	1,120								51.7	11.7		
5/3/2010	Endyne	*6,540*		3,150	970									12.3		6.0
10/4/2010	Endyne	5,040	5.1	4,090	1,490							5.9	41.3	36.7		12.3
5/3/2011	Endyne	2,890		1,660	1,280							7.5	36.1	34.8		11.9
10/3/2011	Endyne	549		410	995								28.0	7.1		
5/1/2012	Endyne	2,500		961	1,400							6.3	31.2	43.3		8.3
10/1/2012	Endyne	726		543	743							5.3	37.0	45.9		6.8
5/8/2013	Endyne	739		662	914								30.2	6.5		
10/10/2013	Endyne	195		161	880									23.7		
5/8/2014	Endyne	1,440		2,180	1,870			5.2						43.3		
10/8/2014	Endyne	551		223	958							5.3		21.6		

[1] EPA Method 8260B began on August 5, 1999
[3] Beginning with May 2001 sampling round, the VOC analyses are for the 8260 list of analytes, plus carbon disulfide (per request from NEWSVT).
Labs: Endyne = Endyne, Inc., Williston, VT
"Method" = EPA method of analysis; "ND" indicates no detects for that test method.
NA = Method not analyzed on this date
PLE = Present in background laboratory environment
[a] = High Sulfur contamination
Results listed here as "<___" are shown on lab reports as "TBQ: Trace below quantitation limit." The < values listed here are the reported detection limit.
blank = not detected (see individual lab reports for detection levels)
*Primary and Secondary Leachate were sampled together.
***Phase II samples were not preserved at a ph<2
[4]Toxicity Characteristc= Taken from Vermont Hazardous Waste Management Regulations March 15, 2013 Chapter 2, Table 1-Maximum Concentration of Contaminants for the Characteristic of Toxicity.
Italicized data indicates that the data was qualified by the laboratory for QA/QC purposes. See laboratory reports for individual qualifiers, which are defined at the end of each laboratory report.

NEWSVT Landfills
Coventry, Vermont
PHASE II LINER - Primary Leachate
Organics (2 of 3)
(EPA Methods 8240, 8260, 8270, 8080 and 608)

VOLATILE ORGANICS (8240/8260)

		Detected Compounds														
		4-Methyl 2-Penta none	Methylene Chloride	MTBE	Naphtha lene	Styrene	Tetra chloro ethene	Tetra hydro furan	Toluene	Trichloro- fluoro- methane	1,1,1-Tri- chloro- ethane	Tri chloro ethene	1,2,4 - Tri methyl benzene	1,.3,5-Tri methyl benzene	Total Xylenes	Unidentified Peaks
Toxicity Characteristic [4]		None	None	None	None	None	700	None	None	None	None	500	None	None	None	None
Date	Lab	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(#)
5/23/1996	Endyne		660	29.9		10	16.8		128		195	22.1			44.8	> 10
10/24/1996	Endyne		815	48.5		13.1	23.9		320	65.4	194	13.5	< 10		114	> 10
5/22/1997	Endyne		377	67.5		14.6	7.3		572	14.6	76.2	28.6	14.7		199	> 10
10/13/1997	Endyne		189	58.6					1,450						78.5	6
5/15/1998	Endyne		44.2	80.6					1,290				12.8		82.8	10
10/14/1998	Endyne			90.8					732				12.1		82.6	> 10
2/4/1999	Endyne			56.1					385						69.1	> 10
5/4/1999	Endyne			44.1					286				7.8		56.4	> 10
8/5/1999	Endyne	175	5.2	35.5		1.0			305				6.5		39.4	> 10
10/12/1999	Endyne	253	5.9	31.3		1.3			558				7.9		46.3	> 10
2/7/2000	Endyne	328		61.5				3,030	1,600				10.9		66.5	8
5/4/2000	Endyne	239	< 63	45.4				1,060	790				7.7		54.2	> 10
8/9/2000	Endyne	147		40.6				2,340	721						63.5	
10/10/2000	Endyne	156	27.7	64.3				2,640	649				9.7		74.1	> 10
2/9/2001	Endyne			59.4				2,600	1,010				23.0		89	> 10
5/3/2001	Endyne [3]			32.2					772						51.9	> 10
8/6/2001	Endyne			92.2				3,120	294						27	> 10
10/3/2001	Endyne	415	52.8	84.8		6.7		4,700	408				10.3		82.2	> 10
2/7/2002	Endyne	217		44.8				3,970	271				8.9		58.6	> 10
05/02/2002*	Endyne	202	38.9	46.0				1,940	165				7.4		46.5	> 8
08/07/2002*	Endyne	124		45.8				2,430	189						37.3	9
10/2/2002	Endyne	108		44.5				2,720	242				10.7		70.0	9
2/6/03*	Endyne	229		54.9				3,120	199				9.2		59.0	>10
5/6/2003*	Endyne	88.6		43.1				2,070	155				6.9		63.5	> 10
8/12/03*	Endyne			28.4				1,220	112				7.2		56.6	4
10/2/03*	Endyne	60.1		35.2				2,880	79.3				7.0		53.3	3
2/2/04*	Endyne	87.6		36.0				2,010	52.6				6.7		52.9	> 10
4/13/04*	Endyne	78.5		37.5				3,990	110				10.3		59.9	> 10
8/9/2004*	Endyne	56.6		29.6				2,170	18.3						23.5	5
10/5/2004*	Endyne			24.5				1,670	18.2						30.4	6
2/9/2005*	Endyne	70		40.5				1,940	20.8				5.9		43.6	> 10
5/2/2005*	Endyne	66.8		41.8				2,100	69.6				5.6		56.1	> 10
8/2/2005*	Endyne	133		35.0	10.6			2,540	170				9.4		91.9	> 10
10/3/2005*	Endyne	192		30.6	14.4			3,070	107				8.4		76.2	> 10
2/6/06*	Endyne	85.6		30.5	11.0			2,690	98.4				6.6		69.3	> 10
5/1/2006*	Endyne							121								3
8/7/2006*	Endye							133							3.3	4
11/16/2006***	Endye	54.5		23.1				882	52.0						33.2	5
4/30/2007	Endyne	50.3		25.6				1,550	92.8						50.4	5
10/3/2007	Endyne			20.4				1,230	18.0						17.6	> 10
5/6/2008	Endyne			26.3		5.2		1,600	141.0				6.1		82.9	> 10
10/6/2008	Endyne			20.7	17.0			2,450	90.9				7.4		81.2	> 10
5/6/2009	Endyne			29.2	18.8			3,090	212.0				18.4	6.0	181	> 10
10/6/2009	Endyne			12.2				1,970	7.1						44.6	> 10
5/3/2010	Endyne				12.3			1,540	40.6				5.2		37.1	> 10
10/4/2010	Endyne	86.6			18.7			1,940	56.3				10.9		92.7	> 10
5/3/2011	Endyne	52.2		10.1				1,840	61.7				10.6		87.7	> 10
10/3/2011	Endyne							1,260	9.7						22.8	8
5/1/2012	Endyne				13.6			1,620	59.3				12.0		100	4
10/1/2012	Endyne							1,030	41.5				12.3		117	2
5/8/2013	Endyne							979	5.3						25.9	7
10/10/2013	Endyne							1,010	9.1				7.9		80.9	3
5/8/2014	Endyne	53.2			21.9			2,290	60.3				20.5	6.2	126	6
10/8/2014	Endyne							1,240	17.2				8.6		56.8	3

[1] EPA Method 8260B began on August 5, 1999
[3] Beginning with May 2001 sampling round, the VOC analyses are for the 8260 list of analytes, plus carbon disulfide (per request from NEWSVT).
Labs: Endyne = Endyne, Inc., Williston, VT
"Method" = EPA method of analysis; "ND" indicates no detects for that test method.
NA = Method not analyzed on this date
PLE = Present in background laboratory environment
[a] = High Sulfur contamination
Results listed here as "<___" are shown on lab reports as "TBQ: Trace below quantitation limit." The < values listed here are the reported detection limit.
blank = not detected (see individual lab reports for detection levels)
*Primary and Secondary Leachate were sampled together.
***Phase II samples were not preserved at a ph<2
[4]Toxicity Characteristc= Taken from Vermont Hazardous Waste Management Regulations March 15, 2013 Chapter 2, Table 1-Maximum Concentration of Contaminants for the Characteristic of Toxicity.
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NEWSVT Landfills
Coventry, Vermont
PHASE II LINER - Primary Leachate
Organics (3 of 3)
(EPA Methods 8240, 8260, 8270, 8080, 608 and 1664)

					SEMI-VOLATILE ORGANICS (8270, 608, 8080, 1664)															
					Detected Compounds															
					EPA Method 8270															Method 1663
		Methods with Non-Detects			Aceto-phenone	Benzyl alcohol	Diethyl-phthalate	Benzo(b,k) fluoranthene	Iso phorone	Naph-thalene	Phenol	3&4 Methyl phenol	2 Nitro Phenol	2 Methyl-phenol	2,4 Dimethyl-phenol	Bis(2-ethylhexyl) phthalate	Total Cresol	Pyrene	Uniden tified Peaks	Oil and Grease
		Toxicity Characteristic [4]			None	None	None	None	None	None	None	None	None	None	None	None	200,000	none	None	None
Date	Lab	8270	608	8080	ug/L	ug/l	ug/L	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/L	ug/l	ug/L	#	mg/L
5/23/1996	Endyne		NA	NA		216			5.4			9							10	
10/24/1996	Endyne		NA	NA		112						< 50	111						10	
5/22/1997	Endyne		NA	NA							265	3,180		50					10	
10/13/1997	Endyne		NA	NA							159	3,180		50					> 10	
5/15/1998	Endyne		NA	NA			200				288	6,540							> 10	
10/14/1998	Endyne		NA	NA			240				526	11,600							> 10	
5/4/1999	Endyne		NA	NA			129				309	8,210							> 10	
8/5/1999	Endyne [1]	NA	NA	NA																
10/12/1999	Endyne		NA	NA								4,980							> 10	
5/4/2000	Endyne		NA	NA							481	10,200							> 10	7
10/10/2000	Endyne		NA	NA							150	2,610		71.5					> 10	
5/3/2001	Endyne		NA	NA								3,990							> 10	
8/6/2001	Endyne		NA	NA								3,990							> 10	
10/3/2001	Endyne		NA	NA							936	15,300							> 10	
2/7/2002	Endyne		NA	NA			93.7				461	4,730							> 10	2.5
5/2/02*	Endyne		NA	NA			84.1		40.5	443	666	10,600		30.6	104				> 10	
10/2/2002	Endyne		NA	NA			78.3				360	1,810							> 10	
5/6/2003*	Endyne		NA	NA		< 100**	78.3				194	1,900							> 10	
10/2/2003*	Endyne		NA	NA							106	256							> 10	
4/13/04*	Endyne		NA	NA							224	1,250							> 10	
10/5/04*	Endyne		NA	NA							85.5	268							> 10	
5/2/2005*	Endyne		NA	NA							93.5	388							> 10	
10/3/2005*	Endyne		NA	NA							544	8,980							> 10	
5/1/2006*	Endyne	ND	NA	NA															4	
11/16/2006***	Endyne		NA	NA								1,290							> 10	
4/30/2007	Endyne		NA	NA							69.9	1,430							> 10	NA
10/3/2007	Endyne		NA	NA								1,230					1,230		> 10	NA
5/6/2008	Endyne		NA	NA							53.3	1,800					1,800		> 10	NA
10/6/2008	Endyne		NA	NA								326					326		> 10	NA
5/6/2009	Endyne	ND	NA	NA															> 10	NA
10/6/2009	Endyne		NA	NA								623					623		> 10	NA
5/3/2010	Endyne		NA	NA							281	222				154	222		> 10	NA
10/4/2010	Endyne		NA	NA								6,500				156	6,500		> 10	NA
5/3/2011	Endyne		NA	NA							453	971					971		> 10	NA
10/3/2011	Endyne		NA	NA							369	869					869		> 10	NA
5/1/2012	Endyne		NA	NA							2,130	1,580					1,580		> 10	NA
10/1/2012	Endyne		NA	NA							366	328					328		> 10	NA
5/8/2013	Endyne		NA	NA														23.6	> 10	NA
10/10/2013	Endyne	ND	NA	NA															> 10	NA
5/8/2014	Endyne		NA	NA							6,370	11,100				*210*	11,100		> 10	NA
10/8/2014	Endyne		NA	NA							3,970	5,930					5,930		> 10	NA

Labs: Endyne = Endyne, Inc., Williston, VT
"Method" = EPA method of analysis; "ND" indicates no detects for that test method.
NA = Method not analyzed on this date
PLE = Present in background laboratory environment
[a] = High Sulfur contamination
Results listed here as "<___" are shown on lab reports as "TBQ: Trace below quantitation limit." The < values listed here are the reported detection limit.
blank = not detected (see individual lab reports for detection levels)
*Primary and Secondary Leachate were sampled together.
** Indicates analyte recovery in associated QA/QC was not within laboratory accepted control limits.
***Phase II samples were not preserved at a ph<2
[4]Toxicity Characteristc= Taken from Vermont Hazardous Waste Management Regulations March 15, 2013 Chapter 2, Table 1-Maximum Concentration of Contaminants for the Characteristic of Toxicity.
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NEWSVT Landfills
Coventry, Vermont
PHASE III LINER Cell 1 - Primary Leachate
Metals and Other Inorganics (1 of 2)

		Metals																			
		Total Antimony (mg/L)	Total Arsenic (mg/L)	Total Barium (mg/L)	Total Beryllium (mg/L)	Total Boron (mg/L)	Total Cadmium (mg/L)	Total Chromium (mg/L)	Total Cobalt (mg/L)	Total Copper (mg/L)	Total Iron (mg/L)	Total Lead (mg/L)	Total Manganese (mg/L)	Total Mercury (mg/L)	Total Molybdenum (mg/L)	Total Nickel (mg/L)	Total Selenium (mg/L)	Total Silver (mg/L)	Total Thallium (mg/L)	Total Vanadium (mg/L)	Total Zinc (mg/L)
Toxicity Characteristic (mg/L) [1]		None	5.0	100.0	None	None	1.0	5.0	None	None	None	5.0	None	0.2	None	None	1.0	5.0	None	None	None
Date	Lab																				
2/4/1999	Endyne		< 0.025				< 0.002	< 0.010		< 0.010		< 0.020		< 0.001	< 0.020	0.343	< 0.050				0.029
5/4/1999	Endyne	< 0.020	< 0.005	0.201	< 0.001		0.004	< 0.010	0.234	< 0.010	176	< 0.020	151	< 0.000	< 0.010	0.596	< 0.050	< 0.010	< 0.005	< 0.020	< 0.010
8/5/1999	Endyne	< 0.005	< 0.005	0.244	< 0.002		0.01	< 0.010	0.043	< 0.010	500	< 0.002	138	< 0.000	< 0.020	0.156	0.005	< 0.010	< 0.001	< 0.020	0.05
10/12/1999	Endyne	< 0.002	0.005	0.372	< 0.002		0.008	< 0.010	0.03	< 0.010	568	0.002	174	0.0002	< 0.020	0.081	< 0.005	< 0.010	< 0.001	< 0.010	0.136
2/7/2000	Endyne		0.095				0.024	< 0.010		< 0.010		< 0.002		0.004	< 0.020	0.116	< 0.005				0.081
5/4/2000	Endyne	0.004	0.028	0.661	< 0.001		0.02	< 0.010	0.057	< 0.010	665	< 0.020	177	< 0.001	< 0.020	0.162	< 0.005	< 0.005	< 0.001	0.02	0.383
8/9/2000	Endyne						0.014									0.096					0.064
10/10/2000	Endyne	< 0.002	0.077	0.674	< 0.002		0.015	< 0.010	0.071	< 0.010	723	< 0.002	38.7	0.002	< 0.020	0.153	< 0.005	< 0.010	< 0.001	< 0.020	0.064
2/9/2001	Endyne		0.06				0.019	< 0.010		< 0.010		< 0.002		< 0.001	< 0.020	0.19	< 0.020				0.145
5/3/2001	Endyne	< 0.002	0.025	0.806	< 0.002		< 0.003	< 0.025	< 0.010	< 0.010	710	0.006	195	< 0.002	< 0.020	0.149	< 0.005	< 0.010	< 0.001	< 0.020	0.048
8/6/2001	Endyne		0.153				0.014	< 0.010		0.328		0.003		< 0.001	< 0.020	0.233	< 0.005				0.105
10/3/2001	Endyne	0.006	0.275	0.567	< 0.002	1.66	0.014	< 0.010	0.169	0.045	391	< 0.002	13.1	< 0.001	< 0.020	1.02	< 0.005	< 0.010	< 0.001	< 0.020	< 0.020
2/7/2002**	Endyne	< 0.002	0.095	0.454	< 0.002	1.31	< 0.005	0.016	< 0.010	0.024	148	< 0.002	9.17	< 0.000	< 0.020	0.157	< 0.005	< 0.010	< 0.001	< 0.020	0.022
5/2/2002**	Endyne	0.005	0.08	0.529	< 0.002		0.008	0.041	0.015	< 0.010	268	< 0.002	11.9	< 0.001	< 0.020	0.2	< 0.005	< 0.010	< 0.001	< 0.020	< 0.020
8/7/2002**	Endyne		0.157				< 0.003	0.036		< 0.010		< 0.002		< 0.001	< 0.020	0.275	< 0.005				< 0.020
10/2/2002	Endyne	0.005	0.243	0.491	< 0.002	4.02	< 0.003	0.029	< 0.010	< 0.010	86.5	< 0.002	3.25	< 0.001	< 0.020	0.286	< 0.005	< 0.010	< 0.001	< 0.020	< 0.020
02/06/2003**	Endyne		0.153				< 0.003	0.036		< 0.010		< 0.004		< 0.001	< 0.020	0.323	< 0.005				< 0.020
05/06/2003**	Endyne	0.004	0.195	0.256	< 0.002		< 0.003	0.038	< 0.010	0.015	38.2	< 0.002	4.50	< 0.001	< 0.020	0.205	< 0.005	< 0.010	< 0.001	< 0.020	0.031
8/12/2003**	Endyne		0.196				< 0.003	0.021		< 0.010		< 0.002		< 0.001	< 0.020	0.172	< 0.005				0.027
10/2/2003**	Endyne	0.008	0.235	0.279	< 0.002	5.40	< 0.003	0.067	0.016	0.011	43.9	0.003		< 0.001	< 0.020	0.336	< 0.010				< 0.020
2/2/04**	Endyne		0.213				< 0.003	0.071		< 0.010		0.003									< 0.020
4/13/04**	Endyne	0.006	0.21	0.317	< 0.002		< 0.003	0.041	< 0.010	< 0.010	25.3	0.002	1.89	< 0.001	< 0.010	0.273	< 0.010	< 0.010	< 0.001	< 0.020	< 0.020
8/9/2004**	Endyne		0.237				< 0.003	0.104		0.030		0.003		< 0.001	< 0.020	0.477	< 0.025				0.029
10/5/2004**	Endyne	0.013	1.16	0.391	< 0.002		< 0.003	0.08	0.053	< 0.010	333	0.002	2.00	< 0.001	< 0.020	0.784	< 0.010	< 0.010	< 0.001	0.039	0.191
2/9/2005**	Endyne		0.351				< 0.003	0.1		0.025		0.002		< 0.001	< 0.020	0.532	< 0.010				0.022
5/2/2005**	Endyne	0.004	0.133	0.166	< 0.002		< 0.003	0.019	< 0.010	0.013	12.2	< 0.002	1.56	< 0.001	< 0.020	0.28	< 0.010	< 0.010	< 0.002	< 0.020	< 0.020
8/2/2005**	Endyne		0.269				< 0.003	0.093		< 0.010		0.003		< 0.001	< 0.020	0.347	< 0.005				< 0.020
10/3/2005**	Endyne	0.027	0.265	0.148	0.003		0.002	0.103	< 0.010	0.020	4.88	0.004	0.547	< 0.001	< 1.000	0.504	< 0.005	< 0.010	< 0.100	< 0.100	< 0.020
2/6/06**	Endyne		0.193				< 0.002	0.056		0.030		< 0.010		< 0.001	< 0.020	0.335	< 0.010				< 0.020
5/1/2006**	Endyne	0.007	0.388	0.284	0.01		0.004	0.124	< 0.020	0.030	39.5	< 0.010	0.844	< 0.001	< 0.020	0.604	< 0.010	< 0.010	< 0.001	< 0.040	1.65
8/7/2006**	Endyne		0.154				< 0.004	0.106		< 0.020		< 0.020		< 0.001	< 0.040	0.527	< 0.100				0.05
11/16/2006	Endyne	0.008	0.247	0.173	< 0.002		< 0.002	0.081	< 0.020	0.040	15.4	0.005	1.17	< 0.001	< 0.020	0.427	< 0.020		< 0.002	< 0.020	0.049
4/30/2007	Endyne	0.014	0.287	0.141	< 0.002		0.004	0.071	< 0.020	0.490	31.9	0.274	0.99	< 0.001	< 0.020	0.351	< 0.002		< 0.001	0.021	0.572
10/3/2007	Endyne	< 0.100	0.366	0.241	< 0.004		< 0.004	0.168	< 0.040	0.306	26.4	0.074	0.7	< 0.001	< 0.040	0.532	< 0.100		< 0.100	0.041	0.354
5/6/2008	Endyne	0.004	0.512	0.14	< 0.002		0.002	0.17	< 0.020	0.019	21	0.002	0.51	< 0.001	< 0.020	0.43	< 0.002		< 0.002	0.035	0.058
10/6/2008	Endyne	0.007	0.56	0.14	< 0.002		< 0.002	0.26	< 0.020	0.230	14	0.002	0.34	< 0.001	< 0.020	0.49	< 0.004		< 0.010	0.051	0.25
5/6/2009	Endyne	0.003	0.81	0.13	< 0.002		< 0.002	0.32	0.022	0.058	10	0.005	0.16	< 0.001	< 0.010	0.58	< 0.002		< 0.002	0.074	0.13
10/6/2009	Endyne	< 0.020	0.54	0.11	< 0.002		< 0.002	0.29	0.02	0.040	2.5	0.007	0.35	< 0.001	0.01	0.59	< 0.020		< 0.010	0.068	0.53
5/3/2010	Endyne	< 0.010	0.63	0.16	< 0.005		< 0.010	0.37	< 0.100	< 0.100	15	< 0.005	0.69	< 0.0002	< 0.100	0.63	< 0.010		< 0.005	< 0.100	0.063
10/40/2010	Endyne	0.003	0.65	0.12	< 0.005		< 0.010	0.45	< 0.100	< 0.100	5.4	< 0.001	0.21	< 0.0002	< 0.100	0.82	< 0.004		< 0.002	< 0.100	0.093
5/3/2011	Endyne	< 0.002	0.67	0.14	< 0.001		< 0.002	0.25	0.02	0.037	17	< 0.002	0.99	< 0.0002	< 0.020	0.61	< 0.002		< 0.002	0.064	0.067
10/3/2011	Endyne	0.003	0.87	0.11	< 0.010		< 0.020	0.48	< 0.200	0.380	13	< 0.001	*0.55*	< 0.0002	< 0.200	0.87	< 0.050		< 0.001	< 0.200	0.12
5/1/2012	Endyne	0.002	*0.87*	0.98	< 0.001		< 0.002	0.45	0.026	0.054	14	< 0.002	0.81	< 0.0002	< 0.020	0.86	< 0.002		< 0.004	0.083	0.068
10/1/2012	Endyne	0.004	0.78	< 0.20	< 0.010		< 0.020	0.67	< 0.200	< 0.200	4.5	< 0.004	0.2	< 0.0002	< 0.200	1.2	< 0.020		< 0.010	< 0.200	< 0.20
5/8/2013	Endyne	< 0.002	0.084	< 0.20	< 0.010		< 0.020	0.63	< 0.200	< 0.200	6.5	< 0.001	0.62	< 0.0002	< 0.200	1.1	< 0.002	< 0.20	< 0.001	< 0.200	0.22
10/10/2013	Endyne	0.002	0.24	< 0.20	< 0.010		< 0.020	1.1	< 0.200	0.250	9.5	< 0.010	0.37	< 0.0002	< 0.200	1.8	< 0.020	< 0.20	< 0.001	0.210	0.28
5/8/2014	Endyne	0.008	1.4	0.14	< 0.004		< 0.008	0.64	< 0.080	0.160	3.8	< 0.002	0.11	< 0.0002	< 0.080	1.2	< 0.004	< 0.080	< 0.002	0.140	0.15
10/8/2014	Endyne	*0.005*	1.5	< 0.20	< 0.010		< 0.020	0.48	< 0.200	< 0.20	3.1	< 0.001	< 0.20	< 0.0002	< 0.200	0.93	< 0.002	< 0.200	< 0.001	< 0.20	< 0.20

Labs: Endyne = Endyne Inc., Williston, VT
**Primary and Secondary sampled together.
Results listed here as "<---" means not detected to the reported detection limit.

[1]Toxicity Characteristc= Taken from Vermont Hazardous Waste Management Regulations March 15, 2013. Chapter 2, Table 1-Maximum Concentration of Contaminants for the Characteristic of Toxicity.
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NEWSVT Landfills
Coventry, Vermont
PHASE III Cell 1 LINER - Primary Leachate
Metals and Other Inorganics (2 of 2)

		OTHER INORGANICS										
		BOD_5 (mg/L)	COD (mg/L)	Specific Conductance (uS/cm) [2]	Total Chloride (mg/L)	Total Cyanide (mg/L)	Total Kjeldahl Nitrogen (mg/L)	Total Phos phorus (mg/L)	Total Sodium (mg/L)	Total Sulfate (mg/L)	pH (s.u.)	Temp (°C)
Toxicity Characteristic (mg/L) [1]		None	None	None	None	None	None	None	None	None	None	None
Date	Lab											
2/4/1999	Endyne				31.4		3					
5/4/1999	Endyne	1,100	1,440	1,500	121	< 0.010	13	0.148	86.1	60.8	5.95	10.00
8/5/1999	Endyne	1,900			149	< 0.010		0.249	115	62	6.16	
10/12/1999	Endyne	1,800	2,900	2,900	144	< 0.010	11	< 0.004	85	12.6	5.71	9.50
2/7/2000	Endyne	3,500	4,750		280		59				6.2	
5/4/2000	Endyne	4,600	6,800		360	< 0.010	80		275			
8/9/2000	Endyne	2,700	3,950		190		89				6.4	
10/10/2000	Endyne	[a] 1,900	3,400	2,050	201	< 0.010	16		206		6.2	12.00
2/9/2001	Endyne	5,200	6,200	1,900	291		99				6.15	11.00
5/3/2001	Endyne	4,500		6,000	316	< 0.010		0.656	287	< 1.	6.46	16.00
8/6/2001	Endyne	3,100	4,650	4,900	435	< 0.010	150				6.41	21.00
10/3/2001	Endyne	2,200	3,400	2,451	280	< 0.010	124		374		6.67	13.30
2/7/2002**	Endyne	620	930	3,848	328	< 0.010		1.08	279	< 5.	6.98	8.32
5/2/2002**	Endyne	3,600	17,600	4,000	619		216		555		6.65	10.42
8/7/2002**	Endyne	650	1,200	7,610	764		326				7.19	15.29
10/2/2002	Endyne	340	720	5,827	568	< 0.010	217		570		6.55	18.15
02/06/2003**	Endyne	390	940	2,633	811		342				7.35	3.78
05/06/2003**	Endyne	240	680	> 1990	560		230				7.14	11.10
8/12/03**	Endyne	170	720	4,985	604		241				6.9	17.54
10/2/03**	Endyne	76*	620	7,510	1,280	< 0.010	350		1030		7.38	13.90
2/2/04**	Endyne	670	1,010	6,053	921		423				7.36	8.75
4/13/04**	Endyne	66	400	5,049	688		338		66.8		7.2	11.27
8/9/2004**	Endyne	100	880	9,180	1,270		536				7.45	17.40
10/5/2004**	Endyne	200	1,760	4,468	1,360		579		1030		7.39	16.05
2/9/2005**	Endyne	120	740	9,758	1,060		476				7.63	9.38
5/2/2005**	Endyne	49*	380	5,191	590		256		561		7.23	13.98
8/2/2005**	Endyne	510	1,400	8,850	1,040		500				7.63	21.40
10/3/2005**	Endyne	96	840	9,264	940		487		983		7.81	18.46
2/6/06**	Endyne	82	480	6,620	696		308				7.1	13.50
5/1/2006**	Endyne	3,800	5,100	13,579	8,940		842		1,600		7.21	15.46
8/7/2006**	Endyne	440	1,000	10,704	1,160		592				7.4	20.27
11/16/2006	Endyne	4,600	7,500	8,379	858		421		944		6.83	19.81
4/30/2007	Endyne	810	600	9,657	923		551		891		7.16	16.97
10/3/2007	Endyne	160	1,500	10,669	1,100		630		1,180		7.27	23.09
5/6/2008	Endyne	430	2,200	12,820	1,400		800		1,400		7.24	19.84
10/6/2008	Endyne	230	2,400	2,027	2,200		1,300		2,000		7.5	18.10
5/6/2009	Endyne	250	2,500	21,160	2,400		1,700		2,300		7.6	19.20
10/6/2009	Endyne	240	2,900	17,100	2,300		1,700		2,400		7.9	19.20
5/3/2010	Endyne	360	*2,300*	16,360	2,000		1,000		1,800		7.7	22.90
10/4/2010	Endyne	220	1,800	20,210	2,600		1,100		2,200		7.6	18.70
5/3/2011	Endyne	130	1,700	15,030	1,800		1,100		1,700		7.1	20.40
10/3/2011	Endyne	170	*1,900*	15,000	1,900		1,100		1,800		7.4	22.20
5/1/2012	Endyne	< 200	*2,100*	1,690	2,200		1,500		1,900		7.0	21.30
10/1/2012	Endyne	130	720	22,280	2,600		1,800		2,300		7.4	22.10
5/8/2013	Endyne	140	450	19,540	2,700		1,300		2,300		7.38	25.90
10/10/2013	Endyne	170	*2,400*	19,050	2,700		1,800		3,800		7.92	23.20
5/8/2014	Endyne	180	2,200	19,460	2,600		1,500		2,600		7.92	22.90
10/8/2014	Endyne	130	2,600	19,010	1,800		1,900		2,500		6.67	25.80

Labs: Endyne = Endyne Inc., Williston, VT
Results listed here as "<---" are shown on the lab reports as no detect. The < values listed here are the reported detection limit.
[a] Depletion on most concentrated sample was less than 2.0 mg/l
blank = not analyzed
**Primary and Secondary sampled together.
* BOD was reanalyzed past the EPA specified hold time.
[2] Beginning on 2/9/05, samples were analyzed for specific conductance, (temperature adjusted). Samples taken prior to this date were analyzed for conductivity.
[1]Toxicity Characteristc= Taken from Vermont Hazardous Waste Management Regulations March 15, 2013. Chapter 2, Table 1-Maximum Concentration of Contaminants for the Characteristic of Toxicity.
Italicized data indicates that the data was qualified by the laboratory for QA/QC purposes. See laboratory reports for individual qualifiers, which are defined at the end of each laboratory report.

NEWSVT Landfills
Coventry, Vermont
PHASE III LINER Cell 1 - Primary Leachate
Organics (1 of 3)
(EPA Methods 8240, 8260, 8260B)

VOLATILE ORGANICS (8240/8260)

		Detected Compounds																
		Acetone	Benzene	t-Butanol	2-Butanone (MEK)	Chloro-ethane	Chloro form	cis -1,2 Dichloro-ethene	Dichloro-difluoro-methane	1,1-Di chloro ethane	1,2- Di-chloro-ethane	1,1-Di chloro ethene	1,4-Di chloro benzene	1,2- Di-chloro-propane	Diethyl Ether	Ethyl-Benzene	2-Hex anone	Iso propyl benzene
Toxicity Characteristic [4]		None	500	None	200,000	None	6000	None	None	None	500	700	7500	None	None	None	None	None
Date	Lab	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
2/4/1999	Endyne																	
5/4/1999	Endyne									10.4						10.4		
8/5/1999	Endyne	953	6.4		704	41.8	7.0		49.4	40.7						12.4		
10/12/1999	Endyne	1,860	6.1		2,890	27.6	4.2	3.0	17.7	42.4						15.9		
2/7/2000	Endyne	5,600	16.9		7,070	43.3	6.8	44.6	62.5	77.5	2.1	85.7	1.4	1.5	747	48.4	75	1.2
5/4/2000	Endyne	4,080	14.1		10,600	25.6		38.3		74.1		48.5			510	51.0	114	
8/9/2000	Endyne	4,100	17.0		8,230			48.5		72.0		37.6			567	70.6		
10/10/2000	Endyne	4,640	14.2		8,070	42.3		35.2		95.2		74.4			553	56.7		
2/9/2001	Endyne	19,100	14.6		21,400			35.9		121.0		83.7			765	58.0	574	
5/3/2001	Endyne [3]	10,300	11.8		21,700	7.2		37.0		66.4	3.1		2.8		641	60.1	502	1.4
8/6/2001	Endyne	8,520	13.2		14,600	50.5		39.9		19.3					495	62.4	358	
10/3/2001	Endyne	15,900	6.6		19,100	43.6		24.2							323	28.6	203	
2/7/02*	Endyne	1,580			3,190			10.4		5.8					165	14.9	159	
5/2/02*	Endyne	4,690			9,430			10.2							134	9.0	201	
8/7/02*	Endyne	1,970			4,070										125	9.1		
10/2/2002	Endyne	1,360	5.7		2,270										161	18.5		
2/6/2003*	Endyne	1,150			2,190										87.4	6.3		
5/6/2003	Endyne	865	3.2		1,030								1.8		55.6	18.1	114	
8/12/03*	Endyne	436	5.2		460										72.8	27.7		
10/2/03*	Endyne	65.4			75.3										77.6			
2/2/04*	Endyne	1,290			2,810										69.0	13.8	61.3	
4/13/04*	Endyne	96.8			140										71.8	12.8		
8/9/2004*	Endyne	80.5			61.7										104	15.3		
10/5/2004*	Endyne	192.0			65.1										45.4			
2/9/2005*	Endyne	78.1			91.6										36.0	8.0		
5/2/2005*	Endyne	224			430										61.7	18.5		
8/2/2005*	Endyne	9,350			12,400										32.3	9.1	73.7	
10/3/2005*	Endyne	2,860			3,450										34.4	6.5	57.2	
2/6/06*	Endyne	566			861			5.2					6.0		42.1	47.2		
5/1/2006*	Endyne	13,200	8.1		16,500										119.0	16.7	67.2	
8/7/2006*	Endyne	4,750			6,620								6.4		34.8	27.4		
11/16/2006	Endyne	9,060			13,600			7.1					21.8		38.1	43.3	101	
4/30/2007	Endyne	2,860	5.4		1,760			7.7					9.5		36.6	57.8	268	
10/3/2007	Endyne	1,770	6.9	1070	2,400			5.5					27.9		41.0	78.1	50.5	14.5
5/6/2008	Endyne	2,250	5.4	4,300	2,370								19.3		44.0	70.4		7.8
10/6/2008	Endyne	90.9	5.4	1,520	68.1								9.1		33.6	57.8		
5/6/2009	Endyne	180.0	5.9	2,090	154.0			5.1					9.1		39.8	64.2		
10/6/2009	Endyne	188.0		2,000	210.0			10.7					7.4			25.8		
5/3/2010	Endyne	*714.0*	5.2	*2,150*	766.0			6.2					7.2		25.6	47.6	208	7.1
10/4/2010	Endyne	67.5		2,120				7.7					7.5			70.1		
5/3/2011	Endyne		5.1	1,630				6.9					7.5			56.5		
10/3/2011	Endyne			1,600				7.3								15.1		
5/1/2012	Endyne	140.0	6.8	3,220				6.5					9.9			93.4		
10/1/2012	Endyne			2,270				5.9					6.1			34.0		
5/8/2013	Endyne			1,570									5.0			28.9		
10/10/2013	Endyne			2,330														
5/8/2014	Endyne	238		1,910														
10/8/2014	Endyne	75.3		1,860														

[1] EPA Method 8260B began on August 5, 1999
[3] Beginning with May 2001 sampling round, the VOC analyses are for the 8260 list of analytes, plus carbon disulfide (per request from NEWSVT).
Labs: Endyne = Endyne, Inc., Williston, VT
"Method" = EPA method of analysis; "ND" indicates no detects for that test method.
NA = Method not analyzed on this date
PLE = Present in background laboratory environment
[a] = High Sulfur contamination
Results listed here as "<___" are shown on lab reports as "TBQ: Trace below quantitation limit." The < values listed here are the reported detection limit.
blank = not detected (see individual lab reports for detection levels)
*Primary and Secondary Leachate were sampled together.
[4]Toxicity Characteristc= Taken from Vermont Hazardous Waste Management Regulations March 15, 2013 Chapter 2, Table 1-Maximum Concentration of Contaminants for the Characteristic of Toxicity.
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NEWSVT Landfills
Coventry, Vermont
PHASE III LINER Cell 1 - Primary Leachate
Organics (2 of 3)
(EPA Methods 8240, 8260, 8260B)

VOLATILE ORGANICS (8240/8260)

		Detected Compounds																
		p-Isopropyl-toluene	4-Methyl 2-Pentanone	Methylene Chloride	MTBE	Napthalene	Styrene	Tetra chloro ethene	Tetra hydrofuran	Toluene	Trichloro-fluoro-methane	1,1,1-Tri-chloro-ethane	Tri chloro ethene	1,2,4 - Tri methyl benzene	1,3,5 - Tri methyl benzene	Vinyl Chloride	Total Xylenes	Unidentified Peaks
Toxicity Characteristic [4]		None	None	None	None	None	None	700	None	None	None	None	500	None	None	200	None	None
Date	Lab	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/l)	#
2/4/1999	Endyne			521				11.4		59.9	17.2	68.2					10.6	8
5/4/1999	Endyne			979	23.7			19.9		234	63.9	89.8	6.9				39.8	4
8/5/1999	Endyne		138	1430	76		6.2	10.2		251	47.9	47.4	9.7	2.9			45.1	> 10
10/12/1999	Endyne	1.0	233	690	59.8		9.0	12.8		319	33.6	51.7	12.8	3.2			54	> 10
2/7/2000	Endyne	1.7	241	643	206		19.1	14.9	1,090	627	39.8	34.7	33.3	4.5	2.2	22.9	147	> 10
5/4/2000	Endyne		237	702	141		18.9	15.4	652	527	24.5	23.2	33.8	6.0		26.1	160	> 10
8/9/2000	Endyne		229	135	169		21.3		1,010	705		21.5	39.6				210	9
10/10/2000	Endyne		238	545	196		15.6	10.0	1,120	549	23.0	34.9	30.6	8.3		11.6	176	10
2/9/2001	Endyne		599	92	331		11.3		4,250	963		14.7	38.0			29.2	171	> 10
5/3/2001	Endyne [3]	3.6	11.8	39	117		9.7	4.1	2,630	676		1.4	14.0	11.2	3.4	5.2	175	> 10
8/6/2001	Endyne		671		184				5,120	666				12.4	3.4	15.6	185	> 10
10/3/2001	Endyne		366		124				4,570	371				10.6		12.0	101	> 10
02/07/2002*	Endyne		104		81.7				2,370	197							48.4	5
05/02/2002*	Endyne		149		75.1				2,190	142							25.7	6
08/07/2002*	Endyne		101		65.1				2,540	182							23.9	4
10/2/2002	Endyne	7.2			74.8				2,600	344				6.6			55.7	5
2/6/03*	Endyne				63.9				3,330	134							22.1	8
5/6/2003*	Endyne	7.0	56.6		34.4				1,990	155			1.0	5.0	1.5		56.8	> 10
8/12/03*	Endyne	6.1			37.0				1,990	124				7.8			74.6	5
10/2/03*	Endyne				53.1				3,760	6.0							15.6	1
2/2/04*	Endyne		67.0		50.9				3,370	45.1							48.0	8
4/13/04*	Endyne				48.3				3,880	12.7							43.8	5
8/9/2004*	Endyne				62.4				4,140	6.9							38.8	7
10/5/2004*	Endyne				41.6				2,780								19.7	9
2/9/2005*	Endyne				31.9				3,070								22.0	> 10
5/2/2005*	Endyne				39.1				2,400	41.9							53.0	9
8/2/2005*	Endyne		259		23.1				3,500	13.7							25.6	> 10
10/3/2005*	Endyne		250		24.8				3,380	13.3							19.9	> 10
2/6/06*	Endyne	8.9	148		28.0	18.6			4,230	116.0				9.3			79.3	> 10
5/1/2006*	Endyne		226		74.0				3,660	135.0							39.8	4
8/7/2006*	Endyne	9	122		18.1	29.7			5,100					10.0			63.1	> 10
11/16/2006	Endyne	9.1	632		22.4	70.8	9.9		2,760	106.0				24.0	6.5		104	> 10
4/30/2007	Endyne	8.0	117		16.9	36.3			4,600	110.0				13.6			104	10
10/3/2007	Endyne	28.9	123		18.7	115	8.5		6,180	87.6				32.9	9.0		152	> 10
5/6/2008	Endyne	17.8	85.1		17.2	87.3			4,440	63.6				25.6	7.2		124	
10/6/2008	Endyne	8.4				27.2			3,090	68.7				14.3			106	> 10
5/6/2009	Endyne	8.6			12.9	29.8			3,570	101.0				17.0			138	> 10
10/6/2009	Endyne	10.5				19.4			3,770	92.1				13.5			108	> 10
5/3/2010	Endyne	7.1	62.5			13.0			2,100	76.3				10.6			88.3	> 10
10/4/2010	Endyne	8.4				16.2	7.9		2,590	109.0				14.9			121	> 10
5/3/2011	Endyne	5.3					9.5		1,850	134.0				13.1			106	> 10
10/3/2011	Endyne						6.5		2,200	43.6				5.1			71.9	5
5/1/2012	Endyne	7.1			10.4	20.9	15.6		3,310	93.0				21.3	6.4		177	4
10/1/2012	Endyne					10.7	5.4		1,740	46.1				9.3			72.1	3
5/8/2013	Endyne					11.0	6.6		1,690	43.1				6.9			63.5	4
10/10/2013	Endyne								1,450									3
5/8/2014	Endyne								991								20.6	1
10/8/2014	Endyne								1,180	17.1							37	3

[1] EPA Method 8260B began on August 5, 1999
[3] Beginning with May 2001 sampling round, the VOC analyses are for the 8260 list of analytes, plus carbon disulfide (per request from NEWSVT).
Labs: Endyne = Endyne, Inc., Williston, VT
"Method" = EPA method of analysis; "ND" indicates no detects for that test method.
NA = Method not analyzed on this date
PLE = Present in background laboratory environment
[a] = High Sulfur contamination
Results listed here as "<___" are shown on lab reports as "TBQ: Trace below quantitation limit." The < values listed here are the reported detection limit.
blank = not detected (see individual lab reports for detection levels)
*Primary and Secondary Leachate were sampled together.
[4]Toxicity Characteristc= Taken from Vermont Hazardous Waste Management Regulations March 15, 2013 Chapter 2, Table 1-Maximum Concentration of Contaminants for the Characteristic of Toxicity.
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NEWSVT Landfills
Coventry, Vermont
PHASE III Cell 1 LINER - Primary Leachate
Organics (3 of 3)
(EPA Methods 8270, 8080, 605 and 1664)

SEMI-VOLATILE ORGANICS (8270, 608, 8080, 1664)

					Detected Compounds																
					EPA Method 8270																Method 1664
		Methods with Non-Detects			Aceto-phenone	Benzyl alcohol	Diethyl-phthalate	Benzo(b,k) fluoranthene	Iso phorone	Naphthalene	Phenol	3&4 Methyl phenol	2-Nitro phenol	4-Nitro phenol	2,4-Dinitro phenol	2 Methyl-phenol	2,4 Dimethyl-phenol	Penta-chloro-phenol	Total Cresol	Unidentified Peaks	Oil and Grease
		Toxicity Characteristic [4]			None	None	None	None	None	None	None	None	None	None	None	None	None	100,000	200,000	None	None
Date	Lab	8270	605	8082	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(#)	(mg/L)
5/4/1999	Endyne		ND	ND			25.1				36.8	84								> 10	
8/5/1999	Endyne		ND	ND							32.1	250								> 10	
10/12/1999	Endyne		ND	ND							95.1	610								> 10	
5/4/2000	Endyne		ND	ND								464								> 10	4
10/10/2000	Endyne		NA	NA							36.5	13	275	640	98.2					> 10	5.5
5/3/2001	Endyne		NA	NA								4,230								> 10	5.5
8/6/2001	Endyne		NA	NA								4,230								> 10	
10/2/2001	Endyne		NA	NA							147	1,900								> 10	1.4
02/07/2002*	Endyne		NA	NA								541								> 10	3.5
05/02/2002*	Endyne		NA	NA							357	6,500								> 10	
10/2/2002	Endyne		NA	NA							111	1,420								> 10	
5/6/2003*	Endyne		NA	NA		< 50**					67.3	1,600				31.0				> 10	
10/2/03*	Endyne		NA	NA																< 10	
4/13/04*	Endyne		NA	NA								301								> 10	
10/5/04*	Endyne		NA	NA																> 10	
5/2/2005*	Endyne		NA	NA																> 10	
10/3/2005*	Endyne		NA	NA								188								> 10	
5/1/2006*	Endyne		NA	NA							369	4,060								> 10	
11/16/2006	Endyne		NA	NA						59	245	1,190								> 10	
4/30/2007	Endyne		NA	NA								193								> 10	NA
10/3/2007	Endyne		NA	NA						92.4		167							167	> 10	NA
5/6/2008	Endyne		NA	NA						72.8		125							125	> 10	NA
10/6/2008	Endyne		NA	NA																> 10	NA
5/6/2009	Endyne	ND	NA	NA																> 10	NA
10/6/2009	Endyne		NA	NA								119							119	> 10	NA
5/3/2010	Endyne		NA	NA								504							504	> 10	NA
10/4/2010	Endyne	ND	NA	NA																> 10	NA
5/3/2011	Endyne	ND	NA	NA																> 10	NA
10/3/2011	Endyne	ND	NA	NA																> 10	NA
5/1/2012	Endyne	ND	NA	NA																> 10	NA
10/1/2012	Endyne	ND	NA	NA																> 10	NA
5/8/2013	Endyne	ND	NA	NA																> 10	NA
10/10/2013	Endyne	ND	NA	NA																> 10	NA
5/8/2014	Endyne	ND	NA	NA																> 10	NA
10/8/2014	Endyne	ND	NA	NA							80.2	118							118	> 10	NA

Labs: Endyne = Endyne, Inc., Williston, VT
"Method" = EPA method of analysis; "ND" indicates no detects for that test method.
NA = Method not analyzed on this date
PLE = Present in background laboratory environment
[a] = High Sulfur contamination
Results listed here as "<___" are shown on lab reports as "TBQ: Trace below quantitation limit." The < values listed here are the reported detection limit.
blank = not detected (see individual lab reports for detection levels)
*Primary and Secondary Leachate were sampled together.
** Asterisks indicate analyte recovery in associated QA/QC was not within laboratory accepted control limits.
Italicized data indicates that the data was qualified by the laboratory for QA/QC purposes. See laboratory reports for individual qualifiers, which are defined at the end of each laboratory report.
[4]Toxicity Characteristc= Taken from Vermont Hazardous Waste Management Regulations March 15, 2013 Chapter 2, Table 1-Maximum Concentration of Contaminants for the Characteristic of Toxicity.
Italicized data indicates that the data was qualified by the laboratory for QA/QC purposes. See laboratory reports for individual qualifiers, which are defined at the end of each laboratory report.

NEWSVT Landfills
Coventry, Vermont
PHASE III LINER, Cell 2 - Primary Leachate
Metals and Other Inorganics (1 of 2

		Metals																			
		Total Antimony (mg/L)	Total Arsenic (mg/L)	Total Barium (mg/L)	Total Beryllium (mg/L)	Total Boron (mg/L)	Total Cadmium (mg/L)	Total Chromium (mg/L)	Total Cobalt (mg/L)	Total Copper (mg/L)	Total Iron (mg/L)	Total Lead (mg/L)	Total Manganese (mg/L)	Total Mercury (mg/L)	Total Molybdenum (mg/L)	Total Nickel (mg/L)	Total Selenium (mg/L)	Total Silver (mg/L)	Total Thallium (mg/L)	Total Vanadium (mg/L)	Total Zinc (mg/L)
Toxicity Characteristic (mg/L) [1]		None	5.0	100.0	None	None	1.0	5.0	None	None	None	5.0	None	0.2	None	None	1.0	5.0	None	None	None
Date	Lab																				
2/7/2002**	Endyne	< 0.002	0.053	0.16	< 0.002	0.063	< 0.005	< 0.010	0.059	0.01	22.5	< 0.002	7.2	< 0.000	< 0.020	0.144	< 0.005	< 0.010	< 0.001	< 0.020	< 0.020
5/2/2002**	Endyne	< 0.002	0.013	0.159	< 0.002		< 0.003	< 0.010	0.063	< 0.010	102	< 0.002	30.2	< 0.001	< 0.020	0.183	< 0.005	< 0.010	< 0.001	< 0.020	< 0.020
8/7/2002**	Endyne		0.011				0.005	< 0.010		< 0.010		< 0.002		< 0.001	< 0.020	0.051	< 0.005				0.025
10/2/2002	Endyne	< 0.002	0.055	0.324	< 0.002	0.457	0.007	< 0.010	0.024	< 0.010	228	< 0.002	13	< 0.001	< 0.020	< 0.020	< 0.005	< 0.010	< 0.001	< 0.020	< 0.020
2/6/03**	Endyne		0.035				0.018	< 0.010		< 0.010		< 0.004		< 0.001	< 0.020	0.122	< 0.005				0.047
5/6/03**	Endyne	< 0.002	0.028	0.377	< 0.002		< 0.003	< 0.010	0.026	< 0.010	202	< 0.002	10.2	< 0.001	< 0.020	0.033	< 0.005	< 0.010	< 0.001	< 0.020	< 0.020
8/12/03**	Endyne		0.022				< 0.003	< 0.010		< 0.010		< 0.002		< 0.001	< 0.020	0.03	< 0.005				< 0.020
10/2/03**	Endyne	< 0.002	0.033	0.379	< 0.002	0.825	< 0.003	< 0.010	< 0.010	< 0.010	225	< 0.002	15.6	< 0.001	< 0.020	< 0.020	< 0.005	< 0.010	< 0.001	< 0.020	< 0.020
2/2/04**	Endyne		0.154				0.014	< 0.010		< 0.010		< 0.002		< 0.001	< 0.020	0.225	< 0.010				0.078
4/13/04**	Endyne	0.009	0.157	1.75	< 0.002		< 0.003	0.091	< 0.010	< 0.010	760	< 0.002	14.5	< 0.001	< 0.010	0.245	< 0.025	< 0.010	< 0.001	< 0.038	0.112
8/9/2004**	Endyne		0.284				0.004	0.03		< 0.010		< 0.002		< 0.001	< 0.020	0.346	< 0.025				0.089
10/5/2004**	Endyne	0.012	0.3	1.16	< 0.002		< 0.003	0.049	< 0.010	< 0.010	363	< 0.002	5.95	< 0.001	< 0.020	0.42	< 0.025	< 0.010	< 0.001	< 0.023	0.1
2/9/2005**	Endyne		0.365				0.004	0.062		< 0.010		< 0.002		< 0.001	< 0.020	0.458	< 0.010				0.109
5/2/2005**	Endyne	0.007	0.243	0.63	< 0.002		< 0.003	0.062	< 0.010	< 0.010	165	< 0.002	3.63	< 0.001	< 0.020	0.335	< 0.010	< 0.010	< 0.002	< 0.020	0.189
8/2/2005**	Endyne		0.287				< 0.003	0.092		< 0.010		0.003		< 0.001	< 0.020	0.417	< 0.010				0.475
10/3/05**	Endyne	0.018	0.282	0.342	0.014		< 0.002	0.134	0.016	0.016	67.3	0.004	1.05	< 0.001	< 1.000	0.688	< 0.050	< 0.010	< 0.100	< 0.100	1.14
2/6/06**	Endyne		0.247				< 0.002	0.06		0.031		< 0.010		< 0.001	< 0.020	0.303	< 0.010				0.756
5/1/2006**	Endyne	0.007	0.255	0.19	0.003		< 0.002	0.092	< 0.020	0.025	4.56	< 0.010	0.617	< 0.001	< 0.020	0.434	< 0.010	< 0.010	< 0.001	< 0.040	0.02
8/7/2006**	Endyne		0.211				< 0.004	0.129		0.03		< 0.020		< 0.001	< 0.040	0.62	< 0.100				1.34
11/16/2006	Endyne	0.009	0.349	0.163	< 0.002		< 0.002	0.08	< 0.020	< 0.020	43.8	0.006	1.77	< 0.001	< 0.020	0.529	< 0.020		< 0.002	< 0.020	1.64
4/30/2007	Endyne	0.012	0.271	0.143	< 0.002		0.006	0.083	< 0.020	< 0.020	57.8	< 0.010	1.19	< 0.001	< 0.020	0.373	< 0.020		< 0.010	0.027	0.904
10/3/2007	Endyne	< 0.100	0.326	0.188	< 0.004		< 0.004	0.145	< 0.040	< 0.040	135	< 0.002	3.12	< 0.001	< 0.040	0.718	< 0.100		< 0.100	0.057	1.27
5/6/2008	Endyne	0.007	0.214	0.15	< 0.002		0.005	0.078	< 0.020	< 0.006	43	< 0.002	1.8	< 0.001	< 0.020	0.48	< 0.002		< 0.002	< 0.020	1.1
10/6/2008	Endyne	< 0.002	0.32	0.066	< 0.002		< 0.002	0.11	< 0.020	< 0.020	27	< 0.002	0.4	< 0.001	< 0.020	0.58	< 0.004		< 0.010	< 0.020	0.94
5/6/2009	Endyne	< 0.008	0.86	0.13	< 0.002		< 0.002	0.17	0.021	< 0.020	16	< 0.002	0.2	< 0.001	< 0.010	0.71	0.002		< 0.002	0.045	0.32
10/6/2009	Endyne	< 0.020	0.86	0.12	< 0.002		< 0.002	0.15	0.022	< 0.020	3.2	< 0.010	0.14	< 0.001	0.01	0.67	< 0.020		< 0.010	0.048	0.16
5/3/2010	Endyne	< 0.010	0.84	0.25	< 0.005		< 0.010	0.24	< 0.100	< 0.100	7.3	< 0.005	0.28	*< 0.0002*	< 0.100	0.83	< 0.010		< 0.005	< 0.100	0.074
10/4/2010	Endyne	*0.004*	1.1	0.2	< 0.005		< 0.010	0.23	< 0.100	< 0.100	4.6	< 0.001	0.18	< 0.0002	< 0.100	0.76	*< 0.004*		*< 0.002*	< 0.100	0.095
5/3/2011	Endyne	0.004	0.8	0.2	< 0.001		< 0.002	0.11	0.023	< 0.020	11	< 0.001	0.58	< 0.0002	< 0.020	0.50	< 0.002		< 0.002	0.04	0.044
10/3/2011	Endyne	0.004	0.74	0.15	< 0.010		< 0.020	0.18	< 0.200	< 0.200	6.9	< 0.001	*0.51*	< 0.0002	< 0.200	0.49	< 0.050		< 0.001	< 0.20	< 0.200
5/1/2012	Endyne	*0.003*	0.98	1.1	< 0.001		< 0.002	0.23	0.03	< 0.020	7.5	< 0.002	0.19	< 0.0002	< 0.020	0.61	< 0.002		*< 0.004*	0.064	0.044
10/1/2012	Endyne	0.004	1	0.23	< 0.010		< 0.020	0.3	< 0.200	< 0.200	4.7	< 0.004	< 0.20	*< 0.0002*	< 0.200	0.82	< 0.020		< 0.010	< 0.200	< 0.200
5/8/2013	Endyne	< 0.002	0.068	0.23	< 0.010		< 0.020	0.25	< 0.200	< 0.200	5.9	< 0.001	0.36	< 0.0002	< 0.200	0.51	< 0.002	< 0.20	< 0.001	< 0.200	< 0.200
10/10/2013	Endyne	< 0.002	0.81	< 0.20	< 0.010		< 0.020	0.3	< 0.200	< 0.200	7.6	< 0.010	< 0.20	< 0.0002	< 0.200	0.64	< 0.020	< 0.20	*< 0.004*	< 0.200	< 0.200
5/8/2014	Endyne	< 0.004	0.85	0.25	< 0.004		< 0.008	0.24	< 0.080	< 0.080	4.3	< 0.002	0.70	< 0.0002	< 0.080	0.48	< 0.004	< 0.080	< 0.002	< 0.080	< 0.080
10/8/2014	Endyne	*< 0.002*	1.0	< 0.20	< 0.010		< 0.020	0.29	< 0.200	< 0.200	3.2	< 0.001	< 0.20	< 0.0002	< 0.200	0.59	< 0.002	< 0.200	< 0.001	< 0.200	< 0.200

Labs: Endyne = Endyne Inc., Williston, VT
**Primary and Secondary sampled together.
Results listed here as "<---" means not detected to the reported detection limit.
[1]Toxicity Characteristc= Taken from Vermont Hazardous Waste Management Regulations March 15, 2013. Chapter 2, Table 1-Maximum Concentration of Contaminants for the Characteristic of Toxicity.
Italicized data indicates that the data was qualified by the laboratory for QA/QC purposes. See laboratory reports for individual qualifiers, which are defined at the end of each laboratory report.

NEWSVT Landfills
Coventry, Vermont
PHASE III LINER, Cell 2 - Primary Leachate
Metals and Other Inorganics (2 of 2

		OTHER INORGANICS										
		BOD_5 (mg/L)	COD (mg/L)	Specific Conductance (us/cm) [2]	Total Chloride (mg/L)	Total Cyanide (mg/L)	Total Kjeldahl Nitrogen (mg/L)	Total Phos phorus (mg/L)	Total Sodium (mg/L)	Total Sulfate (mg/L)	pH (s.u.)	Temp (°C)
Toxicity Characteristic (mg/L) [1]		None	None	None	None	None	None	None	None	None	None	None
Date	Lab											
2/7/2002**	Endyne	36	37	1,620	12.8	< 0.010			13.5	33.4	6.62	5.58
5/2/2002**	Endyne	1,000	1,900	2,150	114		37.4		98.5		6.57	6.33
8/7/2002**	Endyne	1,300	2,150	2,987	142		23.9				6.29	13.18
10/2/2002	Endyne	720	1,160	2,351	83.1	< 0.010	8.37		66.8		6.36	14.79
2/6/03**	Endyne	4,500	7,100	2,232	219		82.4				6.17	3.72
5/6/03**	Endyne	1,400	2,500	1,900	103		32.7				6.23	8.90
8/12/03**	Endyne	1,000	1,430	2,234	74.0		29.5				6.39	17.06
10/2/03**	Endyne	1,300	2,080	2,462	168	< 0.010	40.3		114		6.31	14.69
2/2/04**	Endyne	9,600	17,000	6,623	644		233				6.19	8.04
8/9/2004**	Endyne	5,000	9,800	8,660	1,130		344				6.9	16.60
10/5/2004**	Endyne	5,800	12,400	4,769	1,460		464		995		6.91	13.63
2/9/2005**	Endyne	4,800	8,200	11,636	1,150		497				6.95	9.12
5/2/2005**	Endyne	4,100	5,800	8,121	975		380		886		7.11	12.82
8/2/2005**	Endyne	6,200	6,450	13,880	1,510		770				7.22	19.00
10/3/2005**	Endyne	4,700	6,200	15,728	1,730		928		1770		7.32	11.49
2/6/06**	Endyne	2,500	3,270	8,270	873		361				7.10	12.20
5/1/2006**	Endyne	89	1,550	8,672	5,060		516		1020		7.46	13.47
8/7/2006**	Endyne	3,000	7,300	16,113	1,800		798				7.36	18.56
11/16/2006	Endyne	4,900	5,100	12,161	1,160		593		1360		6.90	16.08
4/30/2007	Endyne	4,200	3,700	13,866	1,430		848		1,300		7.01	13.69
10/3/2007	Endyne	5,700	11,000	17,103	2,000		1,300		2,050		7.03	17.78
5/6/2008	Endyne	5,100	13,000	6,130	2,000		1,300		2,000		6.06	12.53
10/6/2008	Endyne	> 2800	8,900	1,846	2,100		1,000		1,900		7.60	15.50
5/6/2009	Endyne	< 2	3,400	21,310	2,400		1,400		2,400		7.49	18.80
10/6/2009	Endyne	360	2,500	18,210	2,500		1,400		2,600		7.90	17.10
5/3/2010	Endyne	190	2,300	18,780	2,100		1,100		2,200		7.40	22.10
10/4/2010	Endyne	240	2,100	19,600	2,600		1,500		2,000		7.50	19.60
5/3/2011	Endyne	120	1,700	14,610	1,600		660		1,600		7.10	21.40
10/3/2011	Endyne	110	1,500	5,254	1,600		860		1,400		7.40	22.30
5/1/2012	Endyne	110	2,100	17,030	2,300		1,400		1,700		7.00	24.80
10/1/2012	Endyne	190	*400*	19,300	2,300		1,800		2,100		7.30	22.10
5/8/2013	Endyne	150	390	15,510	1,500		1,000		1,700		7.41	25.80
10/10/2013	Endyne	110	*2,200*	16,030	2,200		1,600		1,900		7.78	23.40
5/8/2014	Endyne	120	1,800	14,380	1,900		1,100		1,700		7.54	22.90
10/8/2014	Endyne	140	2,800	18,230	2,200		1,800		2,200		6.79	25.20

Labs: Endyne = Endyne Inc., Williston, VT
Results listed here as "<---" means not detected to the reported detection limit.
blank = not analyzed
**Primary and Secondary sampled together.
[2] Beginning on 2/9/05, samples were analyzed for specific conductance, (temperature adjusted). Samples taken prior to this date were analyzed for conductivity.

[1]Toxicity Characteristc= Taken from Vermont Hazardous Waste Management Regulations March 15, 2013. Chapter 2, Table 1-Maximum Concentration of Contaminants for the Characteristic of Toxicity.
Italicized data indicates that the data was qualified by the laboratory for QA/QC purposes. See laboratory reports for individual qualifiers, which are defined at the end of each laboratory report.

NEWSVT Landfills
Coventry, Vermont
PHASE III LINER Cell 2 - Primary Leachate
Organics (1 of 3)
(EPA Methods 8240, 8260, 8260B)

VOLATILE ORGANICS (8240/8260)

		Detected Compounds																
		Acetone	Benzene	t-Butanol	2-Butanone (MEK)	Chloro-ethane	Chloro form	cis -1,2 Dichloro-ethene	Dichloro-difluoro-methane	1,1-Di chloro ethane	1,2- Di-chloro-ethane	1,1-Di chloro ethene	1,4-Di chloro benzene	1,2- Di-chloro-propane	Diethyl Ether	Ethyl-Benzene	2-Hex anone	Isopropyl benzene
Toxicity Characteristic [4]		None	500.0	None	200,000	None	6000.0	None	None	None	500	700	7500	None	None	None	None	None
Date	Lab	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	ug/L
2/7/02*	Endyne	49.4				5.7				1.1					22	1.9		
5/2/02*	Endyne	1180	1.8		2810		1.9			4.2					52.2	4.6		
8/7/02*	Endyne	1930			3250					14.4					178	9.1		N/D
10/2/2002	Endyne	1790	6.8		3240					31.4					276	14		N/D
2/6/2003*	Endyne	10,500	6.3		23,300					31.4					380	15.5		N/D
5/6/2003	Endyne	1,830	4.3		3,140	9.6	1.5			25.8					94	17.4		
8/12/03*	Endyne	739			1,660			5.2		13.4					37.7	11.1		N/D
10/2/2003*	Endyne	3,210	7.8		9,070			8.4		43.4					191	27.9		N/D
2/2/04*	Endyne	11,600	10.5		35,200			47.8		33.6	8.8							N/D
4/13/04*	Endyne	19,300	10.3		39,500			41.5		18.3	6.5							N/D
8/9/2004*	Endyne	7,300	10.6		16,600			6.2		18.3	6.5				385	38.6	137	
10/5/2004*	Endyne	16,200	13.7		28,700			7.0							282	42.9	291	
2/9/2005*	Endyne	9,230	10.6		22,100			7.6							223	25.9	168	N/D
5/2/2005*	Endyne	9,530	10.3		22,100			6.2							249	23.0	444	
8/2/2005*	Endyne	9,240	5.7		14,300										124	9.1	56.4	
10/3/2005*	Endyne	10,200	5.9		20,700										114	9.5	53.7	
2/6/06*	Endyne	7,330	6.1		11,800			8.1							97.6	13.9	146	
5/1/2006*	Endyne	1,490			794										52.0	15.8		
8/7/2006*	Endyne	15,200	6.2		28,200										68.8	14.1		
11/16/2006	Endyne	11,400	11.2		18,600			8.4							131.0	25.4	132	
4/30/2007	Endyne	10,400	15.1		12,100			5.8							102.0	41.7	73.3	
10/3/2007	Endyne	11,400	13.0		20,900			9.3					6.0		106	48.2	59.7	
5/6/2008	Endyne	17,900	8.8	1,140	25,400			6.9					9.3		61.7	49.1		
10/6/2008	Endyne	14,400		772	16,300										28.3	13.8		
5/6/2009	Endyne	2,780	8.5	1,810	4,240			17.3		5.5					77.2	44.7		
10/6/2009	Endyne	383	6.2	1,420	621			15.5							61.6	26.2		
5/3/2010	Endyne	132	5.8	*1,650*	105			18.6		5.9			5.6		65.1	53.3		
10/4/2010	Endyne	244	7.6	1,810	182			12.8							35.3	36.3		
5/3/2011	Endyne		7.7	1,100	52.4			13.1					6.4		34.6	52.8		
10/3/2011	Endyne	53.1		1,300				12.8							26.7			
5/1/2012	Endyne	108	11.0	2,500				18.0					7.8		44.2	65.3		
10/1/202	Endyne	75.1	9.9	1,580	55			15.1					9.4		30.3	56.1		
5/8/2013	Endyne	68.0	9.0	1,310	57.9			26.1					6.9		32.2	47.2		
10/10/2013	Endyne		10.8	2,130				20.8		7.4			9.2		48.1			
5/8/2014	Endyne			1,810				7.6							35.7			
10/8/2014	Endyne		10.9	2,200				13.2					10.8			67.5		

[1] EPA Method 8260B began on August 5, 1999
[3] Beginning with May 2001 sampling round, the VOC analyses are for the 8260 list of analytes, plus carbon disulfide (per request from NEWSVT).
Labs: Endyne = Endyne, Inc., Williston, VT
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NEWSVT Landfills
Coventry, Vermont
PHASE III LINER Cell 2 - Primary Leachate
Organics (2 of 3)
(EPA Methods 8240, 8260, 8260B)

VOLATILE ORGANICS (8240/8260)

		Detected Compounds																
		p-Isopropyl-toluene	4-Methyl 2-Pentanone	Methylene Chloride	MTBE	Naphthalene	Styrene	Tetra chloro ethene	Tetra hydrofuran	Toluene	Trichloro-fluoro-methane	1,1,1-Tri-chloro-ethane	Tri chloro ethene	1,2,4 - Tri methyl benzene	1,3,5 - Trimethyl benzene	Vinyl Chloride	Total Xylenes	Unidentified Peaks
Toxicity Characteristic [4]		None	None	None	None	None	None	700	None	None	None	None	500	None	None	200	None	None
Date	Lab	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/l)	#
2/7/02*	Endyne			137	6.5			4.7		125	23.5	27.4	1.4					
5/2/02*	Endyne		38.2	264	21.8		3.3	8.7	333	207	19.6	21.4	5.7	1.0				
8/7/02*	Endyne			359	71.2		6.2	12.7	212	229	32.8	29.6	7.9					
10/2/2002	Endyne			408	90.4		9.0	17.8	280	340		34.9	11.0					
2/6/03*	Endyne		274	836	167		5.0	8.9	1,190	273		18.8	13.7					
5/6/2003*	Endyne		67.1	338	46.3		7.6	11.6	244	319		8.1	16.7	3.0				
8/12/03*	Endyne			67.3	15.6			5.4	70	99.8		6.1	12.6					
10/2/03*	Endyne		115	104	107		6.1	7.4	373	228	14.4	19.2	20.6					
2/2/04*	Endyne		450	79.2	209		7.6		2,250	367			17.9	8.2				
4/13/04*	Endyne		383	31.7	210		5.0		3,170	402				7.2				
8/9/2004*	Endyne		427		193				2,270	365				7.2	7.9	23.3	70.3	8
10/5/2004*	Endyne		420		177				2,580	375				7.2	7.5	13.2	81.9	11
2/9/2005*	Endyne		326		143				3,120	259				6.3			63.1	> 10
5/2/2005*	Endyne		283		149				3,760	241							54.4	9
8/2/2005*	Endyne		220		89.5				3,090	83.6							23.2	> 10
10/3/2005*	Endyne		271		77.8				3,280	76.1							25.9	> 10
2/6/06*	Endyne		160		69				2,480	147							32.6	> 10
5/1/2006*	Endyne	9	95.1		28.8	29.2			3,540	16.3				8.9			50.3	> 10
8/7/2006*	Endyne		139		46.4				3,180	108							35.2	10
11/16/2006	Endyne	5.3	217		86.4				2,270	225				8.4			68.8	7
4/30/2007	Endyne	6.3	234		56.4				2,840	399				8.7			94.9	6
10/3/2007	Endyne	8.0	279		56.6	12.0	8.3		3,740	252				10.9			103	> 10
5/6/2008	Endyne	5.3	296		33.7	12.4	9.7		3,450	181				10.0			99.6	> 10
10/6/2008	Endyne		155		16.0				3,290	67							45.6	> 10
5/6/2009	Endyne	16.2	183		36.5		11.9	6.5	3,210	237			21.6	10.1			105	> 10
10/6/2009	Endyne	6.6			28.9		8.6		3,540	120				5.9			70	> 10
5/3/2010	Endyne	11.5			26.3		17.6		2,930	120				8.9			98.7	> 10
10/4/2010	Endyne	9.7			18.9		14.0		3,220	120				10.3			93.5	> 10
5/3/2011	Endyne	12.1			18.5		15.9		2,310	164				10.2			110	> 10
10/3/2011	Endyne	9.7			15.7				1,980								34.5	5
5/1/2012	Endyne	20.2			26.5	13.4	19.0		3,110	167				13.5			124	5
10/1/2012	Endyne	18.9			17.7		17.3		2,560	151				16.9			139	5
5/8/2013	Endyne	33.0			17.4		25.9		1,490	194				11.4			108	4
10/10/2013	Endyne	40.7			25.5	12.2			2,760	206				16.6	5.7	11.1	166	5
5/8/2014	Endyne	21.9			23.0				1,710								13.9	4
10/8/2014	Endyne	21.2			14.5		26.0		2,550	151				16.6			153	3

[1] EPA Method 8260B began on August 5, 1999
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NEWSVT Landfills
Coventry, Vermont
PHASE III Cell 2 LINER - Primary Leachate
Organics (3 of 3)
(EPA Methods 8270, 8080, 605 and 1664)

SEMI-VOLATILE ORGANICS (8270, 608, 8080, 1664)

					Detected Compunds												
		Methods with Non-Detects			Aceto-phenone	Benzo(b,k) fluoranthene	Benzyl alcohol	Diethyl-phthalate	Iso phorone	2-Methyphenol	Naphthalene	Phenol	3&4 Methyl phenol	Total Cresols	Unidentified Peaks	Oil & Grease
		Toxicity Characteristic [4]			None	None	None	None	None	None	None	None	None	200,000	None	None
Date	Lab	8270	605	8082	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(#)	mg/L
2/7/02*	Endyne		NA	NA											> 10	4.0
5/2/02*	Endyne		NA	NA									41.7		> 10	
10/2/2002	Endyne		NA	NA								137	667.0		> 10	
5/6/2003*	Endyne		NA	NA			< 50**	25.7					54.3		> 10	
10/2/03*	Endyne		NA	NA											> 10	
4/13/03*	Endyne		NA	NA				85.1				974	9,390		>10	
10/5/04*	Endyne		NA	NA						59.1		907	11,800		>10	
5/2/2005*	Endyne		NA	NA				50.4				286	6,980		>10	
10/3/2005*	Endyne		NA	NA								804	10,000		>10	
5/1/2006*	Endyne		NA	NA						298			146		>10	
11/16/2006	Endyne		NA	NA								190	6,750		> 10	
4/30/2007	Endyne		NA	NA				54.8				176	6,590		> 10	NA
10/3/2007	Endyne		NA	NA								381	15,900	15,900	> 10	NA
5/6/2008	Endyne		NA	NA				74.8				294	14,000	14,000	> 10	NA
10/6/2008	Endyne		NA	NA								173	10,500	10,500	> 10	NA
5/6/2009	Endyne		NA	NA									2,390	2,390	> 10	NA
10/6/2009	Endyne		NA	NA									406	406	> 10	NA
5/3/2010	Endyne		NA	NA									103	103	> 10	NA
10/4/2010	Endyne		NA	NA											> 10	NA
5/3/2011	Endyne		NA	NA											> 10	NA
10/3/2011	Endyne	ND	NA	NA											> 10	NA
5/1/2012	Endyne	ND	NA	NA											> 10	NA
10/1/2012	Endyne	ND	NA	NA											> 10	NA
5/8/2013	Endyne	ND	NA	NA											> 10	NA
10/10/2013	Endyne	ND	NA	NA											> 10	NA
5/8/2014	Endyne	ND	NA	NA											> 10	NA
10/8/2014	Endyne	ND	NA	NA											> 10	NA

Labs: Endyne = Endyne, Inc., Williston, VT
"Method" = EPA method of analysis; "ND" indicates no detects for that test method.
NA = Method not analyzed on this date
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** Indicates analyte reovery in associated QA/QC was not within laboratory accepted control limits.
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NEWSVT Landfills
Coventry, Vermont
PHASE IV LINER, Cell 1 - Primary Leachate
Metals and Other Inorganics (1 of 2)

		Metals																		
		Total Antimony (mg/L)	Total Arsenic (mg/L)	Total Barium (mg/L)	Total Beryllium (mg/L)	Total Boron (mg/L)	Total Cadmium (mg/L)	Total Chromium (mg/L)	Total Cobalt (mg/L)	Total Copper (mg/L)	Total Iron (mg/L)	Total Lead (mg/L)	Total Manganese (mg/L)	Total Mercury (mg/L)	Total Molybdenum (mg/L)	Total Nickel (mg/L)	Total Selenium (mg/L)	Total Silver (mg/L)	Total Thallium (mg/L)	Total Vanadium (mg/L)	Total Zinc (mg/L)
Toxicity Characteristic (mg/L) [1]		None	5.0	100.0	None	None	1.0	5.0	None	None	None	5.0	None	0.2	None	None	1.0	5.0	None	None	None
Date	Lab																				
11/16/2006	Endyne	< 0.002	0.035	0.107	< 0.002		< 0.002	< 0.020	< 0.020	0.027	0.044	< 0.001	1.11	< 0.001	< 0.020	0.051	< 0.020		< 0.002	< 0.020	< 0.020
4/30/2007	Endyne	< 0.002	0.054	0.304	< 0.002		0.024	< 0.020	< 0.020	< 0.020	387	< 0.001	25.2	< 0.001	< 0.020	0.035	0.003		< 0.001	< 0.020	< 0.020
10/3/2007	Endyne	< 0.050	0.078	0.608	< 0.002		0.014	< 0.020	< 0.020	< 0.020	432	< 0.001	3.58	< 0.001	< 0.020	0.062	< 0.050		< 0.001	0.055	< 0.020
5/6/2008	Endyne	< 0.002	0.103	0.65	< 0.002		0.031	< 0.020	< 0.020	< 0.020	390	0.004	5.5	< 0.001	< 0.020	0.091	< 0.002		< 0.001	0.027	< 0.020
10/6/2008	Endyne	0.004	0.29	0.41	< 0.002		< 0.002	< 0.020	< 0.020	0.054	160	< 0.001	2.5	< 0.001	< 0.020	0.14	< 0.004		< 0.010	< 0.020	< 0.020
5/6/2009	Endyne	0.006	0.37	0.4	< 0.002		0.009	0.032	< 0.020	< 0.020	220	< 0.002	2.2	< 0.001	< 0.010	0.19	< 0.002		< 0.001	< 0.020	0.088
10/6/2009	Endyne	< 0.020	0.25	0.32	< 0.002		0.009	0.04	< 0.020	< 0.020	130	< 0.010	1.7	< 0.001	< 0.010	0.28	< 0.020		< 0.010	< 0.020	< 0.020
5/3/2010	Endyne	< 0.010	0.22	0.42	< 0.005		< 0.010	0.1	< 0.100	< 0.100	220	< 0.005	7.6	< 0.0002	< 0.100	0.33	< 0.010		< 0.005	< 0.100	0.73
10/4/2010	Endyne	0.006	0.30	0.36	< 0.005		< 0.010	0.037	< 0.100	< 0.100	130	< 0.001	6.0	< 0.0002	< 0.100	0.28	< 0.002		< 0.001	< 0.100	0.49
5/3/2011	Endyne	0.007	0.16	0.3	< 0.001		< 0.004	0.054	< 0.020	< 0.020	140	< 0.002	4.1	< 0.0002	< 0.020	0.30	< 0.002		< 0.001	< 0.020	0.22
10/3/2011	Endyne	0.006	0.29	0.23	< 0.010		< 0.200	0.095	< 0.200	< 0.200	160	< 0.001	*4.0*	< 0.0002	< 0.200	0.30	< 0.050		< 0.001	< 0.200	0.45
5/1/2012	Endyne	*0.005*	0.28	0.99	< 0.004		< 0.002	0.13	0.025	*< 0.030*	180	*< 0.004*	4.4	< 0.0002	< 0.020	0.47	< 0.003		< 0.003	0.029	1.2
10/1/2012	Endyne	0.014	0.34	0.29	< 0.010		< 0.02	0.24	< 0.200	< 0.200	440	< 0.005	14	< 0.0002	< 0.200	0.96	< 0.020		< 0.010	< 0.200	0.29
5/8/2013	Endyne	< 0.002	0.034	< 0.20	< 0.010		< 0.02	0.14	< 0.200	< 0.200	110	< 0.001	4.1	< 0.0002	< 0.200	0.61	< 0.002	< 0.20	< 0.001	< 0.200	2.6
10/10/2013	Endyne	0.002	0.37	0.27	< 0.010		< 0.02	0.18	< 0.200	< 0.200	210	< 0.001	7.0	< 0.0002	< 0.200	0.78	< 0.020	< 0.20	< 0.001	< 0.200	4.5
5/8/2014	Endyne	0.014	0.50	0.19	< 0.004		< 0.008	0.20	< 0.080	< 0.080	41	0.003	1.4	< 0.0002	< 0.080	0.50	< 0.004	< 0.08	< 0.002	< 0.080	1.3
10/8/2014	Endyne	*0.015*	0.52	< 0.20	< 0.010		< 0.020	0.34	< 0.200	< 0.200	13	< 0.001	0.65	< 0.0002	< 0.200	0.47	< 0.002	< 0.20	< 0.001	< 0.200	0.47

Labs: Endyne = Endyne Inc., Williston, VT
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blank = not analyzed

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NEWSVT Landfills
Coventry, Vermont
PHASE IV LINER, Cell 1 - Primary Leachate
Metals and Other Inorganics (2 of 2)

		OTHER INORGANICS										
		BOD_5 (mg/L)	COD (mg/L)	Specific Conductance (us/cm)	Total Chloride (mg/L)	Total Cyanide (mg/L)	Total Kjeldahl Nitrogen (mg/L)	Total Phos phorus (mg/L)	Total Sodium (mg/L)	Total Sulfate (mg/L)	pH (s.u.)	Temp (°C)
Toxicity Characteristic (mg/L) [1]		None	None	None	None	None	None	None	None	None	None	None
Date	Lab											
11/16/2006	Endyne	19	26	1,072	3.79		0.275		5.55		6.08	11.50
4/30/2007	Endyne	1,300	1,240	3,997	202		30.5		150		6.17	11.93
10/3/2007	Endyne	360	4,400	3,827	210		33		159		5.93	15.22
5/6/2008	Endyne	2,900	4,900	17,854	460		95		410		7.02	18.51
10/6/2008	Endyne	> 1400	5,100	734	640		170		470		6.80	11.60
5/6/2009	Endyne	2,500	5,300	8,360	730		290		590		6.67	12.40
10/6/2009	Endyne	3,800	6,300	7,630	940		420		910		8.20	15.10
5/3/2010	Endyne	5,000	8,300	9,480	840		350		830		6.70	18.00
10/4/2010	Endyne	3,900	5,300	5,970	540		240		480		6.40	15.10
5/3/2011	Endyne	4,500	6,300	7,500	710		330		740		6.80	15.40
10/3/2011	Endyne	3,500	5,300	7,300	780		310		680		6.70	15.50
5/1/2012	Endyne	4,300	7,000	10,290	1,100		100		940		7.00	14.70
10/1/2012	Endyne	12,000	*7,000*	15,710	1,400		1,300		1,400		7.20	16.00
5/8/2013	Endyne	5,900	1,400	13,590	1,200		920		1,400		7.34	20.40
10/10/2013	Endyne	9,400	*11,000*	15,070	2,000		1,100		1,800		7.20	17.30
5/8/2014	Endyne	2,700	870	11,930	1,600		1,100		1,600		7.61	17.00
10/8/2014	Endyne	1,400	*4,000*	18,020	1,800		1,900		2,100		7.13	21.20

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NEWSVT Landfills
Coventry, Vermont
PHASE IV LINER Cell I - Primary Leachate
Organics (1 of 3)
(EPA Methods 8240, 8260, 8260B)

VOLATILE ORGANICS (8240/8260)

		Detected Compounds																
		Acetone	Benzene	t-Butanol	2-Butanone (MEK)	Chloro-ethane	Chloro form	cis -1,2 Dichloro-ethene	Dichloro-difluoro-methane	1,1-Di chloro ethane	1,2- Di-chloro-ethane	1,1-Di chloro ethene	1,4-Di chloro benzene	1,2- Di-chloro-propane	Diethyl Ether	Ethyl-Benzene	2-Hex anone	Iso propyl benzene
Toxicity Characteristic [4]		None	500	None	200,000	None	6000	None	None	None	500	700	7500	None	None	None	None	None
Date	Lab	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
11/16/2006	Endyne	28	1.0		68.7		1.1		33.9						25.2	4.4	101	
4/30/2007	Endyne	5,300	8.1		5,690					15.9	7.9				210	17.5		
10/3/2007	Endyne	5,440	12.7	210	12,600			17.6	54.5	15.5	14.2				271	17.7		
5/6/2008	Endyne	11,400	6.7	205	17,100			15.4		19.7	15.2				268	14.7	1080	
10/6/2008	Endyne	8,670		202	10,800			16.2			10.8				186	7.5	607	
5/6/2009	Endyne	10,900	11.1	400	16,000			16.7		6.1				12.5	301	29.7	360	
10/6/2009	Endyne	9,050		456	14,100			6.1			7.1				253		184	
5/3/2010	Endyne	7,050	5.6		11,300			13.0		5.7	7.6				219	6.7	221	
10/4/2010	Endyne	4,670	12.4	220	7,780					11.4	9.3				129	28.5	71.2	7.6
5/3/2011	Endyne	13,800		542	13,000			7.8							117	7.1	63.6	
10/3/2011	Endyne	6,800	19.8		7,390			11.3			5.6				173	43.5		
5/1/2012	Endyne	10,500	24.1	1,930	14,100			22.1			7.0		6.9		203	93.7	104	
10/1/202	Endyne	15,400	14.5	1,200	22,000			17.2		8.5	11.3				198	35.3		
5/8/2013	Endyne	9,490		990	11,700										57		53.1	
10/10/2013	Endyne	16,000	21.8	1,830	23,400			20.7		6.0	10.5		6.2		175	72.9	54.1	
5/8/2014	Endyne	8,700		2,130	12,400													
10/8/2014	Endyne	1,640		2,020	3,000										29.4	15.3		

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NEWSVT Landfills
Coventry, Vermont
PHASE IV LINER Cell I - Primary Leachate
Organics (2 of 3)
(EPA Methods 8240, 8260, 8260B)

VOLATILE ORGANICS (8240/8260)

		Detected Compounds																
		p-Isopropyl-toluene	4-Methyl 2-Pentanone	Methylene Chloride	MTBE	Naphthalene	Styrene	Tetra chloro ethene	Tetra hydrofuran	Toluene	Trichloro-fluoro-methane	1,1,1-Tri-chloro-ethane	Tri chloro ethene	1,2,4 - Tri methyl benzene	1,3,5 - Tri methyl benzene	Vinyl Chloride	Total Xylenes	Unidentified Peaks
Toxicity Characteristic [4]		None	None	None	None	None	None	700	None	None	None	None	500	None	None	200	None	None
Date	Lab	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/l)	#
11/16/2006	Endyne			89.2	3.3		2.9	7.7	26.3	95.3	69.8	20.2	4.2				18.2	8
4/30/2007	Endyne		76.8	208	34.1		5.7	12.4	626	298	27.4	17.5	27.7				57.5	8
10/3/2007	Endyne		138	47	141		8.3	9.7	1,600	223	22.5	25.5	7.4				49.8	> 10
5/6/2008	Endyne		131	33.5	34.1		7.4		1,950	306			16.2				41.2	>10
10/6/2008	Endyne		104	31.7	21.7				1,900	682							20.3	>10
5/6/2009	Endyne		250		41.1		7.3		2,800	693			5.4			12.1	61.5	>10
10/6/2009	Endyne		141		17.0				2,790	653								> 10
5/3/2010	Endyne		169		22.3				2,070	185							21.4	> 10
10/4/2010	Endyne		100	29.1	13.6				1,560	236			5.2			10.7	50	> 10
5/3/2011	Endyne		143		12.5				1,960	124							17.6	> 10
10/3/2011	Endyne	18.3	136		16.5				1,970	234				6.6			77.2	2
5/1/2012	Endyne	12.6	316		28.4	21.0	14.3		3,310	350				14.7	5.7	11.5	180	4
10/1/2012	Endyne	8.3	192		19.8	17.1			3,390	195				6.1			64.1	5
5/8/2013	Endyne		93						1,910	9.7								0
10/10/2013	Endyne	12.0	248		22.2	37.9			5,380	314.0				15.4	5.3		135	7
5/8/2014	Endyne								3,520	91.5								0
10/8/2014	Endyne	9.4	118			33.4			3,130	64.2				5.8			30.7	6

[1] EPA Method 8260B began on August 5, 1999
[3] Beginning with May 2001 sampling round, the VOC analyses are for the 8260 list of analytes, plus carbon disulfide (per request from NEWSVT).
Labs: Endyne = Endyne, Inc., Williston, VT
"Method" = EPA method of analysis; "ND" indicates no detects for that test method.
NA = Method not analyzed on this date
PLE = Present in background laboratory environment
[a] = High Sulfur contamination
Results listed here as "<___" are shown on lab reports as "TBQ: Trace below quantitation limit." The < values listed here are the reported detection limit.
blank = not detected (see individual lab reports for detection levels)
*Primary and Secondary Leachate were sampled together.
[4]Toxicity Characteristc= Taken from Vermont Hazardous Waste Management Regulations March 15, 2013. Chapter 2, Table 1-Maximum Concentration of Contaminants for the Characteristic of Toxicity.
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NEWSVT Landfills
Coventry, Vermont
PHASE IV LINER Cell I - Primary Leachate
Organics (3 of 3)
(EPA Methods 8270, 8080, 605 and 1664)

SEMI-VOLATILE ORGANICS (8270)

		Detected Compunds																
		Aceto-phenone	Benzyl alcohol	Diethyl-phthalate	Benzo(b,k) fluoranthene	Iso phorone	Naphthalene	Phenol	3&4 Methyl phenol	2-Nitro phenol	4-Nitro phenol	2,4-Dinitro phenol	2 Methyl-phenol	2,4 Dimethyl-phenol	Penta-chloro-phenol	Total Cresol	Bis(2-ethyl-hexyl) phthalate	Unidentified Peaks
Toxicity Characteristic [4]		None	None	None	None	None	None	None	None	None	None	None	None	None	None	200,000	None	None
Date	Lab	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(#)
11/16/2006	Endyne																	> 10
4/30/2007	Endyne							99.7	888									> 10
10/3/2007	Endyne							135	1,540							1,540		> 10
5/6/2008	Endyne							653	4,250							4,250		> 10
10/6/2008	Endyne							153	4,100							4,100		>10
5/6/2009	Endyne							119	8,450							8,450	301	>10
10/6/2009	Endyne							123	6,210							6,210		> 10
5/3/2010	Endyne							355	6,240							6,240		> 10
10/4/2010	Endyne							182	2,430							2,430		> 10
5/3/2011	Endyne							289	4,930							4,930		> 10
10/3/2011	Endyne							162	4,240							4,240		> 10
5/1/2012	Endyne							280	5,690							5,690		> 10
10/1/2012	Endyne							489	9,420							9,420		> 10
5/8/2013	Endyne							502	6,820							6,820		> 10
10/10/2013	Endyne						20.4	322	9,060							9,060		> 10
5/8/2014	Endyne						30.2	205	4,360							4,360		> 10
10/8/2014	Endyne						26.2	243	1,540							1,540	123	> 10

Labs: Endyne = Endyne, Inc., Williston, VT
"Method" = EPA method of analysis; "ND" indicates no detects for that test method.
NA = Method not analyzed on this date
PLE = Present in background laboratory environment
[a] = High Sulfur contamination
Results listed here as "<___" are shown on lab reports as "TBQ: Trace below quantitation limit." The < values listed here are the reported detection limit.
blank = not detected (see individual lab reports for detection levels)
*Primary and Secondary Leachate were sampled together.
** Asterisks indicate analyte recovery in associated QA/QC was not within laboratory accepted control limits.
Italicized data indicates that the data was qualified by the laboratory for QA/QC purposes. See laboratory reports for individual qualifiers, which are defined at the end of each laboratory report.
[4]Toxicity Characteristc= Taken from Vermont Hazardous Waste Management Regulations March 15, 2013. Chapter 2, Table 1-Maximum Concentration of Contaminants for the Characteristic of Toxicity.

NEWSVT Landfills
Coventry, Vermont
PHASE IV LINER, Cell 2 - Primary Leachate
Metals and Other Inorganics (1 of 2)

		Metals																		
		Total Antimony (mg/L)	Total Arsenic (mg/L)	Total Barium (mg/L)	Total Beryllium (mg/L)	Total Boron (mg/L)	Total Cadmium (mg/L)	Total Chromium (mg/L)	Total Cobalt (mg/L)	Total Copper (mg/L)	Total Iron (mg/L)	Total Lead (mg/L)	Total Manganese (mg/L)	Total Mercury (mg/L)	Total Molybdenum (mg/L)	Total Nickel (mg/L)	Total Selenium (mg/L)	Total Silver (mg/L)	Total Thallium (mg/L)	Total Vanadium (mg/L)	Total Zinc (mg/L)
Toxicity Characteristic (mg/L) [1]		None	5.0	100.0	None	None	1.0	5.0	None	None	None	5.0	None	0.2	None	None	1.0	5.0	None	None	None
Date	Lab																				
10/6/2008	Endyne	< 0.002	0.13	0.29	< 0.002		< 0.002	< 0.020	0.059	0.032	82	< 0.001	18.0	< 0.001	< 0.020	0.12	< 0.004		< 0.001	< 0.020	< 0.020
5/6/2009	Endyne	< 0.002	0.21	0.44	< 0.002		0.008	< 0.020	< 0.020	< 0.020	230	< 0.002	12.0	< 0.001	< 0.010	0.04	< 0.002		< 0.001	< 0.020	< 0.020
10/6/2009	Endyne	< 0.020	0.19	0.66	< 0.004		< 0.002	< 0.040	< 0.040	< 0.040	260	< 0.001	2.7	< 0.001	< 0.010	0.13	< 0.020		< 0.010	< 0.040	< 0.040
5/3/2010	Endyne	< 0.010	0.12	0.99	< 0.005		< 0.010	0.081	< 0.100	< 0.100	420	< 0.005	13.0	< 0.0002	< 0.100	0.24	< 0.010		< 0.005	< 0.100	0.05
10/4/2010	Endyne	< 0.003	0.148	0.40	< 0.005		< 0.010	< 0.025	< 0.100	< 0.100	130	< 0.001	7.9	< 0.0002	< 0.100	0.20	< 0.002		< 0.001	< 0.100	0.15
5/3/2011	Endyne	0.014	0.077	0.92	< 0.001		0.013	0.079	0.025	< 0.020	410	< 0.002	42.0	< 0.0002	< 0.020	0.27	< 0.002		< 0.001	< 0.020	0.40
10/3/2011	Endyne	< 0.002	0.041	0.13	< 0.010		< 0.020	< 0.050	< 0.200	< 0.200	94	*0.001*	*5.7*	< 0.0002	< 0.200	0.069	< 0.050		*< 0.004*	< 0.200	0.086
5/1/2012	Endyne	*0.013*	0.11	1.60	*< 0.010*		< 0.002	0.23	0.042	*< 0.060*	360	< 0.002	10.0	< 0.0002	< 0.020	0.59	< 0.003		< 0.003	0.057	1.60
10/1/2012	Endyne	0.027	0.25	0.46	< 0.010		< 0.020	0.29	< 0.200	< 0.200	400	< 0.006	15.0	< 0.0002	< 0.200	0.98	< 0.020		< 0.010	< 0.200	0.31
5/8/2013	Endyne	< 0.002	0.03	0.23	< 0.020		< 0.020	0.25	< 0.200	< 0.200	140	0.001	4.8	< 0.0002	< 0.200	1.00	< 0.002	< 0.20	< 0.001	< 0.200	2.00
10/10/2013	Endyne	0.002	0.28	< 0.20	< 0.010		< 0.020	0.31	< 0.200	< 0.200	110	< 0.01	5.0	< 0.0002	< 0.200	0.90	< 0.020	< 0.20	< 0.001	< 0.200	2.20
5/8/2014	Endyne	0.013	0.26	0.11	< 0.004		< 0.008	0.25	< 0.080	< 0.080	32	< 0.002	1.1	< 0.0002	< 0.080	0.64	< 0.004	< 0.08	< 0.002	< 0.080	1.20
10/8/2014	Endyne	*0.004*	0.26	< 0.20	< 0.010		< 0.020	0.29	< 0.200	< 0.200	18	< 0.001	0.57	< 0.0002	< 0.200	0.70	< 0.002	< 0.20	< 0.001	< 0.200	1.20

Labs: Endyne = Endyne Inc., Williston, VT
Results listed here as "<---" means not detected to the reported detection limit.
blank = not analyzed
[1]Toxicity Characteristc= Taken from Vermont Hazardous Waste Management Regulations March 15, 2013. Chapter 2, Table 1-Maximum Concentration of Contaminants for the Characteristic of Toxicity.
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NEWSVT Landfills
Coventry, Vermont
PHASE IV LINER, Cell 2 - Primary Leachate
Metals and Other Inorganics (2 of 2)

		OTHER INORGANICS										
		BOD_5 (mg/L)	COD (mg/L)	Specific Conductance (umhos)	Total Chloride (mg/L)	Total Cyanide (mg/L)	Total Kjeldahl Nitrogen (mg/L)	Total Phos phorus (mg/L)	Total Sodium (mg/L)	Total Sulfate (mg/L)	pH (s.u.)	Temp (°C)
Toxicity Characteristic (mg/L) [1]		None	None	None	None	None	None	None	None	None	None	None
Date	Lab											
10/6/2008	Endyne	160	210	6,500	7.2		1.4		8.3		6.50	16.20
5/6/2009	Endyne	850	1,400	3,291	210		48		150		6.73	14.39
10/6/2009	Endyne	730	1,100	3,551	420		120		340		6.50	13.40
5/3/2010	Endyne	> 3100	8,200	9,250	830		280		760		6.60	14.90
10/4/2010	Endyne	2,400	3,300	19,600	290		90		200		6.50	15.20
5/3/2011	Endyne	9,500	14,000	9,800	950		400		930		6.50	12.90
10/3/2011	Endyne	1,000	1,900	1,707	130		82		120		6.40	13.90
5/1/2012	Endyne	9,500	17,000	11,770	1,800		1,200		1,500		6.70	15.20
10/1/2012	Endyne	14,000	*380*	19,880	2,500		1,500		2,000		7.60	15.30
5/8/2013	Endyne	6,600	1,300	20,590	2,300		1,400		2,300		7.35	20.50
10/10/2013	Endyne	8,400	13,000	19,550	2,700		1,600		2,100		7.25	19.20
5/8/2014	Endyne	4,100	880	15,360	2,000		1,400		1,800		7.41	18.32
10/8/2014	Endyne	3,900	9,300	21,930	1,900		2,000		2,700		7.08	19.00

Labs: Endyne = Endyne Inc., Williston, VT
Results listed here as "<---" means not detected to the reported detection limit.
blank = not analyzed
[1]Toxicity Characteristc= Taken from Vermont Hazardous Waste Management Regulations March 15, 2013. Chapter 2, Table 1-Maximum Concentration of Contaminants for the Characteristic of Toxicity.
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NEWSVT Landfills
Coventry, Vermont
PHASE IV LINER Cell II - Primary Leachate
Organics (1 of 3)
(EPA Methods 8240, 8260, 8260B)

VOLATILE ORGANICS (8240/8260)

		Detected Compounds																
		Acetone	Benzene	t-Butanol	2-Butanone (MEK)	Chloro-ethane	Chloro form	cis -1,2 Dichloro-ethene	Dichloro-difluoro-methane	1,1-Di chloro ethane	1,2- Di-chloro-ethane	1,1-Di chloro ethene	1,4-Di chloro benzene	1,2- Di-chloro-propane	Diethyl Ether	Ethyl-Benzene	2-Hex anone	Iso propyl benzene
Toxicity Characteristic [4]		None	500	None	200,000	None	6000	None	None	None	500	700	7500	None	None	None	None	None
Date	Lab	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
10/6/2008	Endyne	3,000	5.9	61.3	7,150		5.8			21.0					156			
5/6/2009	Endyne	4,150		203	7,400			20.2		6.4	26.9				273	7.6		
10/6/2009	Endyne	1,260		259	4,270			14.0			7.5	5.0			262	10.0		
5/3/2010	Endyne	*10,900*	7.4	< 500	19,400			21.1		6.9	11.6				345	12.1	159	
10/4/2010	Endyne	2,290	5.1	137	3,910						7.0				45	9.6		
5/3/2011	Endyne	22,900	5.7	445	27,700			14.1			16.7				143	9.2	629	
10/3/2011	Endyne	1,580	6.0		2,630			11.1			9.7				37.5	7.0	154	
5/1/2012	Endyne	18,100	12.8	1,340	24,500			8.9			8.4				207	29.5	312	
10/1/2012	Endyne	18,600	7.0	1,480	25,200			8.6			8.2				131	15.8	223	
5/8/2013	Endyne	6,710		957	8,320			6.5			8.1				107	5.1	126	
10/10/2013	Endyne	16,000	19.3	1,750	22,200			21.1			14.4		6.8		116	50.7	264	
5/8/2014	Endyne	7,130		1,370	9,650													
10/8/2014	Endyne	13,800	7.6	1,990	18,800								5.5		45.7	14.9	132	

Labs: Endyne = Endyne, Inc., Williston, VT
"Method" = EPA method of analysis; "ND" indicates no detects for that test method.
NA = Method not analyzed on this date
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blank = not detected (see individual lab reports for detection levels)
*Primary and Secondary Leachate were sampled together.
[4]Toxicity Characteristc= Taken from Vermont Hazardous Waste Management Regulations March 15, 2013. Chapter 2, Table 1-Maximum Concentration of Contaminants for the Characteristic of Toxicit
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NEWSVT Landfills
Coventry, Vermont
PHASE IV LINER Cell II - Primary Leachate
Organics (2of 3)
(EPA Methods 8240, 8260, 8260B)

VOLATILE ORGANICS (8240/8260)

		Detected Compounds																
		p-Isopropyl-toluene	4-Methyl 2-Pentanone	Methylene Chloride	MTBE	Napthalene	Styrene	Tetra chloro ethene	Tetra hydrofuran	Toluene	Trichloro-fluoro-methane	1,1,1-Tri-chloro-ethane	Tri chloro ethene	1,2,4 - Tri methyl benzene	1,3,5 - Tri methyl benzene	Vinyl Chloride	Total Xylenes	Unidentified Peaks
Toxicity Characteristic [4]		None	None	None	None	None	None	700	None	None	None	None	500	None	None	200	None	None
Date	Lab	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/l)	#
10/6/2008	Endyne			301.0	13.0				5,460	151	10.7	6.3					18.5	>10
5/6/2009	Endyne		166		15.3				1,090	298							27.5	>10
10/6/2009	Endyne		127	101.0	13.1				1,340	400	14.1						35.1	3
5/3/2010	Endyne		360	41.7	15.6					533							36.8	>10
10/4/2010	Endyne								422	174							28.2	> 10
5/3/2011	Endyne		312	43.4	11.0				1,840	313							30.2	> 10
10/3/2011	Endyne		53.5	36.2					288	121							22.6	4
5/1/2012	Endyne	8.4	438		16.9				3,080	336				6.8			66.7	2
10/1/2012	Endyne	7.2	376		11.4				3,300	111							40.5	6
5/8/2013	Endyne		99.8		10.2				2,380	31.4							20	0
10/10/2013	Endyne	19.2	348.0		11.6				2,940	254.0				13.7			111	7
5/8/2014	Endyne								3,510	139								0
10/8/2014	Endyne	6.3	273						4,360	69.8				7.2			41.5	5

Labs: Endyne = Endyne, Inc., Williston, VT
"Method" = EPA method of analysis; "ND" indicates no detects for that test method.
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blank = not detected (see individual lab reports for detection levels)
*Primary and Secondary Leachate were sampled together.
[4]Toxicity Characteristc= Taken from Vermont Hazardous Waste Management Regulations March 15, 2013. Chapter 2, Table 1-Maximum Concentration of Contaminants for the Characteristic of Toxicity.
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NEWSVT Landfills
Coventry, Vermont
PHASE IV LINER Cell II - Primary Leachate
Organics (3 of 3)
(EPA Methods 8270, 8080, 605 and 1664)

SEMI-VOLATILE ORGANICS (8270)

		Detected Compunds															
		Aceto-phenone	Benzyl alcohol	Diethyl-phthalate	Benzo(b,k) fluoranthene	Iso phorone	Naphthalene	Phenol	3&4 Methyl phenol	2-Nitro phenol	4-Nitro phenol	2,4-Dinitro phenol	2 Methyl-phenol	2,4 Dimethyl-phenol	Penta-chloro-phenol	Total Cresol	Unidentified Peaks
Toxicity Characteristic [4]		None	None	None	None	None	None	None	None	None	None	None	None	None	None	200,000	None
Date	Lab	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(#)
10/6/2008	Endyne																> 0
5/6/2009	Endyne								1,240							1,240	> 10
10/6/2009	Endyne								1,910							1,910	> 10
5/3/2010	Endyne							297	6,400							6,400	> 10
10/4/2010	Endyne							103	1,070							1,070	> 10
5/3/2011	Endyne							700	9,920							9,920	> 10
10/3/2011	Endyne								463							463	> 10
5/1/2012	Endyne							498	13,100							13,100	> 10
10/1/2012	Endyne							417	15,500							15,500	> 10
5/8/2013	Endyne							380	8,580							8,580	> 10
10/10/2013	Endyne							376	13,200							13,200	> 10
5/8/2014	Endyne							100	4,140							4,140	> 10
10/8/2014	Endyne							136	5,570							5,570	> 10

Labs: Endyne = Endyne, Inc., Williston, VT
"Method" = EPA method of analysis; "ND" indicates no detects for that test method.
NA = Method not analyzed on this date
Results listed here as "<___" are shown on lab reports as "TBQ: Trace below quantitation limit." The < values listed here are the reported detection limit.
blank = not detected (see individual lab reports for detection levels)
*Primary and Secondary Leachate were sampled together.
** Asterisks indicate analyte recovery in associated QA/QC was not within laboratory accepted control limits.
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[4]Toxicity Characteristc= Taken from Vermont Hazardous Waste Management Regulations March 15, 2013. Chapter 2, Table 1-Maximum Concentration of Contaminants for the Characteristic of Toxicity.

NEWSVT Landfills
Coventry, Vermont
PHASE IV LINER, Cell 3A - Primary Leachate
Metals and Other Inorganics (1 of 2)

		Metals																		
		Total Antimony (mg/L)	Total Arsenic (mg/L)	Total Barium (mg/L)	Total Beryllium (mg/L)	Total Cadmium (mg/L)	Total Chromium (mg/L)	Total Cobalt (mg/L)	Total Copper (mg/L)	Total Iron (mg/L)	Total Lead (mg/L)	Total Manganese (mg/L)	Total Mercury (mg/L)	Total Molybdenum (mg/L)	Total Nickel (mg/L)	Total Selenium (mg/L)	Total Silver (mg/L)	Total Thallium (mg/L)	Total Vanadium (mg/L)	Total Zinc (mg/L)
Toxicity Characteristic (mg/L) [1]		None	5.0	100.0	None	1.0	5.0	None	None	None	5.0	None	0.2	None	None	1.0	5.0	None	None	None
Date	Lab																			
5/3/2010	Endyne	< 0.010	0.019	0.19	< 0.005	< 0.010	< 0.025	< 0.100	< 0.100	44	< 0.005	9.9	< 0.0002	< 0.100	0.13	< 0.010		< 0.005	< 0.100	< 0.025
10/4/2010	Endyne	< 0.002	0.064	0.22	< 0.005	< 0.010	< 0.025	< 0.100	< 0.100	220	< 0.001	30	< 0.0002	< 0.100	0.12	< 0.002		< 0.001	< 0.100	< 0.025
5/3/2011	Endyne	0.019	0.103	0.83	< 0.001	0.012	0.081	0.23	< 0.020	370	0.004	68	< 0.0002	< 0.020	0.81	< 0.002		< 0.001	< 0.020	1.5
10/3/2011	Endyne	*0.006*	0.001	0.43	< 0.010	< 0.020	0.09	< 0.200	< 0.200	270	*0.003*	*26*	< 0.0002	< 0.200	0.43	< 0.050		< 0.001	< 0.200	0.46
5/1/2012	Endyne	*0.009*	0.35	1.2	< 0.001	< 0.002	0.16	0.021	< 0.020	100	< 0.001	3.4	< 0.0002	< 0.020	0.52	< 0.006		< 0.005	0.033	0.85
10/1/2012	Endyne	0.003	0.17	< 0.200	< 0.010	< 0.020	0.08	< 0.200	< 0.200	32	0.002	1.5	< 0.0002	< 0.200	0.17	< 0.020		< 0.010	< 0.200	0.029
5/8/2013	Endyne	< 0.002	0.063	0.28	< 0.010	< 0.020	0.34	< 0.200	< 0.200	67	< 0.001	5.0	< 0.0002	< 0.200	0.55	< 0.002	< 0.200	< 0.001	< 0.200	0.36
10/10/2013	Endyne	< 0.002	0.70	0.21	< 0.010	< 0.020	0.47	< 0.200	< 0.200	26	0.020	1.4	< 0.0002	< 0.200	0.61	< 0.020	< 0.200	< 0.001	< 0.200	0.46
5/8/2014	Endyne	0.004	0.50	0.33	< 0.004	< 0.008	0.31	< 0.080	< 0.080	65	< 0.002	3.7	< 0.0002	< 0.080	0.43	< 0.004	< 0.080	< 0.002	< 0.080	0.19
10/8/2014	Endyne	< 0.002	0.24	< 0.20	< 0.010	< 0.020	0.14	< 0.200	< 0.200	28	0.006	1.6	< 0.0002	< 0.200	0.19	< 0.002	< 0.200	< 0.001	< 0.200	< 0.20

Sample collected from leachate above-ground storage tank.
Labs: Endyne = Endyne Inc., Williston, VT
Results listed here as "<---" means not detected to the reported detection limit.
Blank = not analyzed.
* 8/7/2006 was the first sampling round, taken for background analysis.
[1]Toxicity Characteristc= Taken from Vermont Hazardous Waste Management Regulations March 15, 2013. Chapter 2, Table 1-Maximum Concentration of Contaminants for the Characteristic of Toxicity.
Italicized data indicates that the data was qualified by the laboratory for QA/QC purposes. See laboratory reports for individual qualifiers, which are defined at the end of each laboratory report.

NEWSVT Landfills
Coventry, Vermont
PHASE IV LINER, Cell 3A - Primary Leachate
Metals and Other Inorganics (2 of 2)

		OTHER INORGANICS							
		BOD_5 (mg/L)	COD (mg/L)	Specific Conductance (us/cm)	Total Chloride (mg/L)	Total Kjeldahl Nitrogen (mg/L)	Total Sodium (mg/L)	pH (s.u.)	Temp (°C)
Toxicity Characteristic (mg/L) [1]		None	None	None	None	None	None	None	None
Date	Lab								
5/3/2010	Endyne	390	670	18,640	42	9.3	44	6.10	13.00
10/4/2010	Endyne	1400	2100	2,703	180	39	130	6.20	14.20
5/3/2011	Endyne	10,000	13,000	8,050	750	23	780	6.10	12.50
10/3/2011	Endyne	4,800	7,100	6,390	700	230	500	6.40	21.20
5/1/2012	Endyne	3,000	5,900	12,480	1,800	910	1,400	6.80	17.20
10/1/2012	Endyne	1,100	1,300	5,290	670	490	510	7.10	16.50
5/8/2013	Endyne	480	420	16,510	1,800	1,100	1,800	7.36	20.60
10/10/2013	Endyne	310	3,600	16,070	2,300	1,400	1,700	7.59	20.70
5/8/2014	Endyne	1,400	790	13,750	1,700	1,100	1,500	7.25	17.80
10/8/2014	Endyne	420	1,900	5,600	630	620	510	7.61	18.70

Sample collected from leachate above-ground storage tank.
Labs: Endyne = Endyne Inc., Williston, VT
Results listed here as "<---" means not detected to the reported detection limit.
Blank = not analyzed.
*5/3/10 was the first sampling round, taken for background analysis.
[1]Toxicity Characteristc= Taken from Vermont Hazardous Waste Management Regulations March 15, 2013. Chapter 2, Table 1-Maximum Concentration of Contaminants for the Characteristic of Toxicity.
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NEWSVT Landfills
Coventry, Vermont
Phase IV Cell 3A - Primary Leachate
Organics (1 of 3)
(EPA Methods 8260B, 8270)

VOLATILE ORGANICS (8260B)

			Detected Compounds															
		Non-Detects	Acetone	Benzene	t-Butanol	2-Butanone (MEK)	1,4-Dichloro-benzene	1,1-Dichloro-ethane	Diethyl Ether	1,2-Dichloro-ethane	cis-1,2-Dichloro-ethene	Ethyl-Benzene	2-Hexanone	4-Isopropyl-toluene	4-Methyl 2-Pentanone	Ethyl t-butyl ether (ETBE)	Methylene Chloride	MTBE
Toxicity Characteristic [1]		8260B	None	500	None	200,000	7500	None	None	None	None	None	None	None	None	None	None	None
Date	Lab		(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
5/3/2010	Endyne		*224*			888			196	8.3		7					147	
10/4/2010	Endyne		5,650	14.5	122	15,500		11.2	298	72.2		30.3			196		131	14.6
5/3/2011	Endyne		5,300	19.1	489	6,920		10.2	242	89.7	82.9	26.6	133		340		97.9	42.1
10/3/2011	Endyne		7,440	27.2	696	11,200			127	24.1	45.7	51.0	368	21.4	282	11.2		22.6
5/1/2012	Endyne		7,480	20.1	2,390	10,600			96.4	8.3	14.7	45.2	417	10.1	410			37.5
10/1/2012	Endyne		4,720	17.5	624	5,620			46.7	11.3	18.2	46.8	84.3	19.1	134			11.2
5/8/2013	Endyne		1,080	20.6	2,250	3,140	5.3		76.4	12.3	13.5	46.5		27.1	102			27.2
10/10/2013	Endyne		1,120	17.8	2,060	1,870	9.0		45.2	6.3	10.1	52.6		33.1	66.3			12.0
5/8/2014	Endyne		1,870		2,430	3,000						53.0			220			
10/8/2014	Endyne		550	8.0	648	1,150	5.4				6.0	22.1		15.6			119	

Sample collected from leachate above-ground storage tank.
Labs: Endyne = Endyne Inc., Williston, VT
Results listed here as "<---" means not detected to the reported detection limit.
Blank = not analyzed.
[1]Toxicity Characteristic= Taken from Vermont Hazardous Waste Management Regulations March 15, 2013. Chapter 2, Table 1-Maximum Concentration of Contaminants for the Characteristic of Toxicity.
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NEWSVT Landfills
Coventry, Vermont
Phase IV Cell 3A - Primary Leachate
Organics (2 of 3)
(EPA Methods 8260B, 8270)

VOLATILE ORGANICS (8260)

			Detected Compounds														
		Non-Detects	Styrene	Tetra hydrofuran	Toluene	Tetra chloro ethene	1,1,1-Tri-chloro-ethane	Tri chloro ethene	1,2,4 - Tri methyl benzene	1,3,5-Tri methyl benzene	Vinyl Chloride	trans- 1,2 dichloro-ethene	Trichloro-fluoro-methane	Total Xylenes	Total Methyl phenol	Naphthalene	Unidentified Peaks
Toxicity Characteristic [1]		8260	None	None	None	700	None	500	None	None	200		None	None	None	None	
Date	Lab		(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/l)	(ug/l)	(ug/L)	#
5/3/2010	Endyne		5.7	149	110	12.1						5.8	230	27.6			0
10/4/2010	Endyne		12.3	1,460	254	18.8	7.3	12.7	6.6			6.4	24.1	106			> 10
5/3/2011	Endyne		15	2,610	396	8.6		12.8	7.4			5.6		82.4			> 10
10/3/2011	Endyne		12.3	2,550	504			6.5	14.6	5.4	22.5			131			4
5/1/2012	Endyne		9.6	4,990	385				11.8					104			4
10/1/2012	Endyne		11.1	1,760	251				12.6					102			2
5/8/2013	Endyne			3,880	224				16.8	5.4				112		10.5	5
10/10/2013	Endyne			3,740	174				22.1	7.6				123		24.9	> 10
5/8/2014	Endyne			3380	112									111			0
10/8/2014	Endyne			947	82.7				9.9					62			2

Sample collected from leachate above-ground storage tank.
Labs: Endyne = Endyne Inc., Williston, VT
Results listed here as "<---" means not detected to the reported detection limit.
Blank = not analyzed.
[1]Toxicity Characteristic= Taken from Vermont Hazardous Waste Management Regulations March 15, 2013. Chapter 2, Table 1-Maximum Concentration of Contaminants for the Characteristic of Toxicity.
Italicized data indicates that the data was qualified by the laboratory for QA/QC purposes. See laboratory reports for individual qualifiers, which are defined at the end of each laboratory report.

NEWSVT Landfills
Coventry, Vermont
Phase IV Cell 3A - Primary Leachate
Organics (3 of 3)
(EPA Methods 8240, 8260B, 8270)

			Detected Compunds EPA Method 8270				
			3&4 Methyl phenol	Phenol	Total Cresol	Bis (2-ethylhexyl) phthalate	Unidentified Peaks
Toxicity Characteristic [1]			None	None	200,000		None
Date	Lab	8270C	(ug/L)	(ug/L)	(ug/L)	ug/L	(#)
5/3/2010	Endyne	ND					>10
10/4/2010	Endyne		763	118	763		> 10
5/3/2011	Endyne		4,230	756	4,230		> 10
10/3/2011	Endyne		4,180	418	4,180		> 10
5/1/2012	Endyne		5,640	238	5,640		> 10
10/1/2012	Endyne		1,370		1,370		> 10
5/8/2013	Endyne		756		756		> 10
10/10/2013	Endyne		161		161		> 10
5/8/2014	Endyne		1,490		1,490		> 10
10/8/2014	Endyne		154		154		> 10

Sample collected from leachate above-ground storage tank.
Labs: Endyne = Endyne Inc., Williston, VT
Results listed here as "<---" means not detected to the reported detection limit.
Blank = not analyzed.
* 8/7/2006 was the first sampling round, taken for background analysis. No solid waste in cell to date.
[1]Toxicity Characteristic= Taken from Vermont Hazardous Waste Management Regulations March 15, 2013. Chapter 2, Table 1-Maximum Concentration of Contaminants for the Characteristic of Toxicity.
Italicized data indicates that the data was qualified by the laboratory for QA/QC purposes. See laboratory reports for individual qualifiers, which are defined at the end of each laboratory report.

NEWSVT Landfills
Coventry, Vermont
Combined Leachate- All Phases (Sampled from Combined Above-Ground Leachate Storage Tank)
Metals and Other Inorganics (1 of 2)

		Metals																		
		Total Antimony (mg/L)	Total Arsenic (mg/L)	Total Barium (mg/L)	Total Beryllium (mg/L)	Total Cadmium (mg/L)	Total Chromium (mg/L)	Total Cobalt (mg/L)	Total Copper (mg/L)	Total Iron (mg/L)	Total Lead (mg/L)	Total Manganese (mg/L)	Total Mercury (mg/L)	Total Molybdenum (mg/L)	Total Nickel (mg/L)	Total Selenium (mg/L)	Total Silver (mg/L)	Total Thallium (mg/L)	Total Vanadium (mg/L)	Total Zinc (mg/L)
Toxicity Characteristic (mg/L) [1]		None	5.0	100.0	None	1.0	5.0	None	None	None	5.0	None	0.2	None	None	1.0	5.0	None	None	None
Date	Lab																			
8/7/2006*	Endyne		< 0.002			< 0.002	< 0.010		0.058		< 0.010		< 0.001	< 0.020	< 0.020	< 0.050				0.136
10/2/2006	Endyne	< 0.015	0.233	0.097	< 0.002	< 0.002	0.116	< 0.020	< 0.020	56.6	0.003	1.14	< 0.001	< 0.020	0.478	0.025	< 0.020	< 0.002	< 0.020	0.243
2/6/2007	Endyne		0.202			< 0.002	0.072		0.055		< 0.001		< 0.001	< 0.020	0.324	< 0.002				0.117
5/1/2007	Endyne	0.006	0.106	0.147	< 0.002	0.007	0.057	< 0.020	< 0.020	95.9	0.002	7.45	< 0.001	< 0.020	0.254	0.002		< 0.001	0.03	0.237
8/16/2007	Endyne		0.019			< 0.002	0.076		< 0.020		< 0.001		< 0.002	< 0.020	0.375	0.002				0.04
10/3/2007	Endyne	< 0.100	0.324	0.136	< 0.004	< 0.004	0.145	< 0.040	< 0.040	44.2	< 0.002	0.877	< 0.001	< 0.040	0.527	< 0.100		< 0.100	0.04	0.206
2/14/2008	Endyne		0.212			< 0.002	0.095		< 0.020		< 0.010		< 0.001	< 0.020	0.411	< 0.002				0.249
5/6/2008	Endyne	0.003	0.271	0.16	< 0.002	0.007	0.1	< 0.020	< 0.024	72	< 0.001	1.90	< 0.001	< 0.020	0.32	< 0.002		< 0.002	0.021	0.400
8/5/2008	Endyne		0.282			0.005	0.11		0.024		< 0.001		< 0.001	< 0.020	0.34	< 0.002				0.190
10/6/2008	Endyne	0.003	0.38	0.18	< 0.002	< 0.002	0.15	0.025	< 0.020	42	< 0.002	2.00	< 0.001	< 0.020	0.42	< 0.004		< 0.010	0.031	0.410
2/3/2009	Endyne		0.37			< 0.002	0.15		< 0.020		< 0.001		< 0.001	< 0.020	0.41	< 0.002				0.200
5/6/2009	Endyne	0.009	0.40	0.17	< 0.002	0.003	0.14	< 0.020	< 0.020	62	0.001	2.40	< 0.001	< 0.010	0.35	< 0.002		< 0.002	0.033	0.180
8/11/2009	Endyne		0.53			< 0.004	0.22		< 0.040		< 0.001		< 0.001	< 0.040	0.43	< 0.002				0.180
10/6/2009	Endyne	< 0.020	0.52	0.2	< 0.004	< 0.002	0.014	< 0.040	< 0.040	32	< 0.001	0.83	< 0.001	< 0.010	0.49	< 0.020		< 0.010	0.044	0.240
2/10/2010	Endyne		0.41			< 0.010	0.16		< 0.100		< 0.010		< 0.0002	< 0.100	0.28	< 0.020				0.120
5/3/2010	Endyne	0.018	0.34	0.24	< 0.005	< 0.010	0.16	0.1	< 0.100	66	< 0.005	3.10	< 0.0002	< 0.100	0.36	< 0.010		< 0.005	< 0.100	0.130
8/19/2010	Endyne		0.26			< 0.020	< 0.200		< 0.200		< 0.001		< 0.0002	< 0.200	0.41	< 0.002				0.260
10/4/2010	Endyne	0.017	0.19	0.14	< 0.005	< 0.010	< 0.100	< 0.10	< 0.100	33	0.003	3.30	< 0.0002	< 0.100	0.23	< 0.002		< 0.002	< 0.100	0.083
2/8/2011	Endyne		0.52			< 0.200	< 0.500		< 2.000		< 0.020		< 0.0002	< 2.000	0.60	< 0.002				< 0.50
5/3/2011	Endyne	0.009	0.17	0.39	< 0.001	0.004	0.085	0.074	< 0.020	140	< 0.001	23.00	< 0.0002	< 0.020	0.39	< 0.002		< 0.001	< 0.020	0.360
8/22/2011	Endyne		0.48			< 0.002	0.17		< 0.020		< 0.020		< 0.0002	< 0.020	0.53	0.001				0.350
10/3/2011	Endyne	0.008	0.02	0.15	< 0.010	< 0.020	0.095	< 0.200	0.11	82	< 0.001	*5.00*	< 0.0002	< 0.200	0.26	< 0.002		< 0.001	< 0.200	0.130
2/8/2012	Endyne		0.39			< 0.002	0.096		< 0.020		< 0.020		< 0.0002	< 0.020	0.41	< 0.002				< 0.15
5/1/2012	Endyne	*0.009*	0.34	0.9	< 0.001	< 0.002	0.15	0.025	< 0.020	98	< 0.002	3.30	< 0.0002	< 0.020	0.42	*< 0.004*		< 0.004	0.031	0.480
8/14/2012	Endyne		0.61			< 0.020	0.21		< 0.200		< 0.200		< 0.0002	< 0.200	0.51	< 0.002				0.510
10/1/2012	Endyne	0.018	0.55	0.25	< 0.010	< 0.020	0.22	< 0.200	< 0.200	61	< 0.004	2.30	< 0.0002	< 0.200	0.51	< 0.020		< 0.010	< 0.200	0.045
2/5/2013	Endyne		*0.50*			< 0.020	0.14		< 0.200		< 0.200		< 0.0002	< 0.200	0.42	0.001				0.380
5/8/2013	Endyne	< 0.002	0.039	0.2	< 0.010	< 0.020	0.18	< 0.200	< 0.200	44	< 0.001	2.90	< 0.0002	< 0.200	0.45	< 0.002	< 0.200	< 0.001	< 0.200	0.45
8/1/2013	Endyne		0.048			< 0.002	0.031		< 0.020		< 0.020		< 0.0002	< 0.020	0.06	< 0.002				0.074
10/10/2013	Endyne	< 0.002	0.280	0.2	< 0.010	< 0.020	0.18	< 0.20	< 0.200	31	< 0.010	1.80	< 0.0002	< 0.200	0.40	< 0.020	< 0.200	< 0.001	< 0.20	0.540
2/6/2014	Endyne		0.410			< 0.008	0.23		< 0.080		< 0.080		< 0.0002	< 0.080	0.42	< 0.004				1.300
5/8/2014	Endyne	0.010	0.350	0.2	< 0.004	< 0.008	0.20	< 0.080	< 0.080	24	< 0.002	1.70	< 0.0002	< 0.080	0.39	< 0.004	< 0.080	< 0.002	< 0.080	0.340
8/11/2014	Endyne		0.580			< 0.004	0.29		< 0.040		< 0.040		< 0.0002	< 0.040	0.53	< 0.002				0.430
10/8/2014	Endyne	0.015	0.440	< 0.20	< 0.010	< 0.020	0.27	< 0.20	< 0.200	15	< 0.001	0.59	< 0.0002	< 0.200	0.40	< 0.002	< 0.200	< 0.001	< 0.20	0.340

Sample collected from leachate above-ground storage tank.
Labs: Endyne = Endyne Inc., Williston, VT
"<---" means not detected to the reported detection limit.
Blank = not analyzed.
* 8/7/2006 was the first sampling round, taken for background analysis.
[4]Toxicity Characteristc= Taken from Vermont Hazardous Waste Management Regulations March 15, 2013. Chapter 2, Table 1-Maximum Concentration of Contaminants for the Characteristic of Toxicity.
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NEWSVT Landfills
Coventry, Vermont
Combined Leachate- All Phases (Sampled from Combined Above-Ground Leachate Storage Tank)
Metals and Other Inorganics (2 of 2)

		OTHER INORGANICS							
		BOD_5 (mg/L)	COD (mg/L)	Specific Conductance (us/cm)	Total Chloride (mg/L)	Total Kjeldahl Nitrogen (mg/L)	Total Sodium (mg/L)	pH (s.u.)	Temp (°C)
Toxicity Characteristic (mg/L) [1]		None	None	None	None	None	None	None	None
Date	Lab								
8/7/2006*	Endyne	< 4.0	< 15	7.38	< 10	0.439		7.46	25.91
10/2/2006	Endyne	4,000	95	16,630	1,970	618	18,000	7.72	11.17
2/6/2007	Endyne	1,600	2,000	10,954	943	681		7.83	1.12
5/1/2007	Endyne	1,900	3,200	8,156	706	490	795	7.41	13.9
8/16/2007	Endyne	350	1,500	11,970	1,140	935		8.20	20.6
10/3/2007	Endyne	1,900	5,000		1,400	990	1,440	8.08	19.14
2/12/2008	Endyne	3,500	4,700	12,832	1,200	780		7.87	5.96
5/6/2008	Endyne	1,400	460	11,141	1,200	780	1,100	7.37	16.04
8/5/2008	Endyne	2,500	4,600	12,040	1,600	900		7.60	20.0
10/6/2008	Endyne	3,600	6,200	1,704	1,800	1,100	1,700	8.00	14.0
2/3/2009	Endyne	2,000	4,000	12,669	1,300	730	1,300	6.53	3.2
5/6/2009	Endyne	1,100	3,800	13,530	1,400	980	1,300	7.55	13.4
8/11/2009	Endyne	2,100	4,800	16,050	1,800	1,300		7.70	21.0
10/6/2009	Endyne	1,600	4,300	14,080	2,000	950	1,900	8.50	14.1
2/10/2010	Endyne	1,400	3,700	12,970	1,300	910	1,100	7.53	1.28
5/3/2010	Endyne	1,500	4,200	11,630	1,200	650	1,100	7.70	15.2
8/19/2010	Endyne	2,100	2,600	12,710	1,200	900		7.40	21.9
10/4/2010	Endyne	1,400	2,800	8,990	960	560	690	7.50	16.0
2/11/2011	Endyne	2,900	6,200	15,940	1,700	1,300	1,600	7.23	4.2
5/3/2011	Endyne	4,200	5,600	7,380	830	23	810	7.10	13.3
8/22/2011	Endyne	4,300	7,400	16,020	1,700	1,000	1,600	7.60	18.7
10/3/2011	Endyne	1,700	3,500	6,200	790	480	620	7.30	17.1
2/8/2012	Endyne	1,900	4,500	7,190	1,300	910	11	7.80	5.5
5/1/2012	Endyne	2,600	5,400	11,310	1,400	900	1,100	7.30	11.1
8/14/2012	Endyne	3,400	6,500	15,450	1,700	1,200	1,500	8.00	22.3
10/1/2012	Endyne	3,000	1,000	13,620	1,800	1,200	1,300	8.50	16.1
2/5/2013	Endyne	2,600	5,200	11,220	1,000	720	990	7.30	8.0
5/8/2013	Endyne	1,500	560	12,590	1,200	870	1,400	7.86	20.5
8/1/2013	Endyne	2,200	4,800	13,093	1,600	980	150	8.17	22.7
10/10/2013	Endyne	2,800	*5,200*	13,180	2,000	1,100	1,100	8.14	19.5
2/6/2014	Endyne	2,100	4,900	7,980	1,700	990	1,280	7.83	1.2
5/8/2014	Endyne	1,200	640	10,170	1,400	980	1,400	7.85	14.1
8/11/2014	Endyne	1,200	3,000	14,360	1,600	1,100	1,900	7.59	22.9
10/8/2014	Endyne	1,300	4,300	14,850	1,700	1,400	1,700	7.20	19.5

Sample collected from leachate above-ground storage tank.
Labs: Endyne = Endyne Inc., Williston, VT
Results listed here as "<---" means not detected to the reported detection limit.
Blank = not analyzed.
* 8/7/2006 was the first sampling round, taken for background analysis.
[4]Toxicity Characteristc= Taken from Vermont Hazardous Waste Management Regulations March 15, 2013. Chapter 2, Table 1-Maximum Concentration of Contaminants for the Characteristic of Toxicity.
Italicized data indicates that the data was qualified by the laboratory for QA/QC purposes. See laboratory reports for individual qualifiers, which are defined at the end of each laboratory report.

NEWSVT Landfills
Coventry, Vermont
Combined Leachate- All Phases (Sampled from Combined Above-Ground Leachate Storage Tank)
Organics (1 of 3)
(EPA Methods 8260B, 8270)

VOLATILE ORGANICS by Method 8260B

			Detected Compounds											
		Non-Detects 8260B	Acetone	t-Butanol	2-Butanone (MEK)	1,4-Dichloro-benzene	1,1-Dichloro-ethane	Diethyl Ether	1,2-Dichloro-ethane	cis-1,2-Dichloro-ethene	Ethyl-Benzene	2-Hexanone	4-Isopropyl-toluene	4-Methyl 2-Pentanone
Toxicity Characteristic [1]			None	None	None	7500	None	None	None	None	None	None	None	None
Date	Lab		(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
8/7/2006*	Endyne	ND												
10/2/2006	Endyne		7,320		11,600			51.9			5.2			112
2/6/2007	Endyne		5,850		8,460			35.6						89.7
5/1/2007	Endyne		5,630		7,870			67.0			7.7	54.4		112
8/16/2007	Endyne		3,300		3,380									51.0
10/3/2007	Endyne		4,570		5,420			26.6						70.1
2/12/2008	Endyne		8,820	1,690	15,300			44.8			7.1	191		141.0
5/6/2008	Endyne		6,820	1,510	9,020	6.5		66.6			18.2	146		121.0
8/5/2008	Endyne		5,270	1,750	7,330	5.6		56.0			15.8	76.9		112.0
10/6/2008	Endyne		13,800	1,680	14,100	6		35.6			9.4	74.3		198.0
2/3/2009	Endyne		7,990	1,920	11,000	13.7		70.4			24.4	91.0	15.0	222.0
5/6/2009	Endyne		8,210	1,940	10,200		5.2	87.8		6.6	20.4	59.3		184.0
8/18/2009	Endyne		11,400	2,420				55.7		7.1	11.8	95.6	7.6	203.0
10/6/2009	Endyne		5,840	1,620	6,520						7.4			130.0
2/10/2010	Endyne		7,800	1,010	8,820			103.0	5.2	8.2	19.7	83.3	6.5	176.0
5/3/2010	Endyne		*5,260*	1,130	5,920			116.0		5.7	17.1	52.4	6.3	131.0
8/19/2010	Endyne		*5,270*	1,860	7,100			64.2	5		11.1			101.0
10/4/2010	Endyne		2,960	1,280	3,710			63.0	10.2		10.2			87.1
2/8/2011	Endyne		14,600	2,450	17,600									
5/3/2011	Endyne		3,520	849	4,160			84.9	20.1	16.3	14.4	93.5		119.0
8/22/2011	Endyne		9,750	2,860	12,200			66.4			13.5	320.0		182.0
10/3/2011	Endyne		3,590	834	4,290			51.7	5.2	6.2	10.3			117.0
2/8/2012	Endyne		4,640	1,050	6,810			44.2			11.2	61.2		93.9
5/1/2012	Endyne		7,260	2,180	8,590			78.6			15.9	116.0		170.0
8/14/2012	Endyne		*3,840*	1,720	5,740			32.1			6.8			108.0
10/1/2012	Endyne		7,230	2,490	7,890			39.4			9.4	72.9		159.0
2/5/2013	Endyne		6,940	1,300	7,810			52.2	7.4	6.6	19.2		9.6	147.0
5/8/2013	Endyne		5,120	2,520	5,950			38.3			10.4		6.6	91.2
8/1/2013	Endyne		3,590	*2,360*	4,300									
10/10/2013	Endyne		5,025	1,990	6,500			44.8			12.3	52.3		132.0
2/6/2014	Endyne		4,870	*1,700*	5,760									
5/8/2014	Endyne		1,640	2,190	3,370			38.2					6.2	166.0
10/8/2014	Endyne		2,550	1,430	3,900						6.3	81.2	5.4	85.2

Sample collected from leachate above-ground storage tank.
Labs: Endyne = Endyne Inc., Williston, VT
Blank = not detected above laboratory detection limits
* 8/7/2006 was the first sampling round, taken for background analysis. No solid waste in cell to date.
[1]Toxicity Characteristic= Taken from Vermont Hazardous Waste Management Regulations March 15, 2013. Chapter 2, Table 1-Maximum Concentration of Contaminants for the Characteristic of Toxicity.
Italicized data indicates that the data was qualified by the laboratory for QA/QC purposes. See laboratory reports for individual qualifiers, which are defined at the end of each laboratory report.

NEWSVT Landfills
Coventry, Vermont
Combined Leachate- All Phases (Sampled from Combined Above-Ground Leachate Storage Tank)
Organics (2 of 3)
(EPA Methods 8260B, 8270)

VOLATILE ORGANICS by Method 8260B

			Detected Compounds											
		Non-Detects 8260	Methylene Chloride	MTBE	Tetra hydrofuran	Toluene	1,2,4-Trimethyl-benzene	Naphthalene	Vinyl Chloride	Total Xylenes	Total Methyl phenol	Benzene	Styrene	Unidentified Peaks
Toxicity Characteristic [1]			None	None	None	None	None	None	200	None	None	500	None	
Date	Lab		(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	#
8/7/2006*	Endyne	ND												0
10/2/2006	Endyne			25	3,340	18.3			17.2					8
2/6/2007	Endyne			20.5	2,220	14.1								4
5/1/2007	Endyne		33.9	20.0	2,480	40.2		13.7		20.6	1690			>10
8/16/2007	Endyne			10.8	1,570									>10
10/3/2007	Endyne			14.2	2,360	9.6		11.1						> 10
2/12/2008	Endyne			13.6	2,670	23.9		13.6		18.8				>10
5/6/2008	Endyne			18.1	2,740	55.8	6.2	22.3		42.9				>10
8/5/2008	Endyne			15.9	2,810	53.6	5.5	19.7		38.6				>10
10/6/2008	Endyne				2,700	32.4		25.7		24.5				>10
2/3/2009	Endyne			15.8	2,740	104.0	15.5	74.1		59.4				>10
5/6/2009	Endyne			17.8	3,130	99.8	6.1	12.9		51.9				>10
8/18/2009	Endyne			12.5	3,390	41.5	6.4	20.6		30.9				>10
10/6/2009	Endyne				2,460	33.6				19.9				>10
2/10/2010	Endyne			12.5	2,150	105.0	8	16.7		48.2				>10
5/3/2010	Endyne			11.6	1,540	42.4	6.1			41.2				>10
8/19/2010	Endyne				1,750	53.6				27.8				>10
10/4/2010	Endyne				1,490	54.8				29.6				>10
2/8/2011	Endyne				3,520									3
5/3/2011	Endyne			14.2	1,750	113				39.6				>10
8/22/2011	Endyne				2,440	96.3				35				3
10/3/2011	Endyne				1,350	80.4				27.8				3
2/8/2012	Endyne				1,890	38.9				30.8				3
5/1/2012	Endyne			16.1	3,540	58.1	5.4	11.5		40.3				5
8/14/2012	Endyne				2,990	17.3				19.8				6
10/1/2012	Endyne			10.4	2,880	25.4				24.5				8
2/5/2013	Endyne			11.2	1,930	79.7	8.9			57.2		5.5	5.1	8
5/8/2013	Endyne				2,200	30.0	5.5	11.2		30				6
8/1/2013	Endyne				2,200	15.8								1
10/10/2013	Endyne				2,690	39.0	5.1	15.7		32.9				>10
2/6/2014	Endyne				2,620	25.4		46.4						7
5/8/2014	Endyne				2,900	38.8	7	34		36.9				0
10/8/2014	Endyne		25.5		2,150	23.1		12.1		19.6				7

Sample collected from leachate above-ground storage tank.
Labs: Endyne = Endyne Inc., Williston, VT
Blank = not detected above laboratory detection limits
* 8/7/2006 was the first sampling round, taken for background analysis. No solid waste in cell to date.
[1]Toxicity Characteristic= Taken from Vermont Hazardous Waste Management Regulations March 15, 2013. Chapter 2, Table 1-Maximum Concentration of Contaminants for the Characteristic of Toxicity.
Italicized data indicates that the data was qualified by the laboratory for QA/QC purposes. See laboratory reports for individual qualifiers, which are defined at the end of each laboratory report.

NEWSVT Landfills
Coventry, Vermont
Combined Leachate- All Phases (Sampled from Combined Above-Ground Leachate Storage Tank)
Organics (3 of 3)
(EPA Methods 8260B, 8270)

		Detected Compounds					
		Semi-Volatile Organics by EPA Method 8270					
		3&4 Methyl phenol	Phenol	Total Cresol	Bis (2-ethylhexyl) phthalate	Phenan-threne	Unidentified Peaks
Toxicity Characteristic [1]		None	None	200,000		None	None
Date	Lab	(ug/L)	(ug/L)	(ug/L)	ug/L	(ug/L)	(#)
8/7/2006*	Endyne						> 10
10/2/2006	Endyne						> 10
2/6/2007	Endyne						> 10
5/1/2007	Endyne		121				> 10
8/16/2007	Endyne						> 10
10/3/2007	Endyne	667	540	667		< 40	> 10
2/12/2008	Endyne	667	540	1,540			> 10
5/6/2008	Endyne	2,510	125	2,510		< 20	> 10
10/6/2008	Endyne	2,620	254	2,620		< 40	>10
5/6/2009	Endyne	1,570	130	1,570		< 20	>10
10/6/2009	Endyne	1,450	331	1,450	103	< 20	> 10
5/3/2010	Endyne	1,700	327	1,700		< 20	> 10
10/4/2010	Endyne	1,240	182	1,240		< 20	> 10
5/3/2011	Endyne	2,730	393	2,730		< 20	> 10
10/3/2011	Endyne	1,800	148	1,800		< 20	> 10
5/1/2012	Endyne	3,240	285	3,240		< 20	> 10
10/1/2012	Endyne	3,770	299	3,770		< 20	>10
3/18/2013	Endyne	1,470	175	1,470		< 20	>10
5/8/2013	Endyne	1,900	237	1,900		< 20	>10
10/10/2013	Endyne	3,110	152	3,110		< 20	>10
2/6/2014	Endyne	2,420	182	2,420		22.6	>10
5/8/2014	Endyne	1,550	125	1,550			>10
10/8/2014	Endyne	1,280	139	1,280			>10

Sample collected from leachate above-ground storage tank.
Labs: Endyne = Endyne Inc., Williston, VT
Blank = not detected above laboratory detection limits
* 8/7/2006 was the first sampling round, taken for background analysis. No solid waste in cell to date.
[1]Toxicity Characteristic= Taken from Vermont Hazardous Waste Management Regulations March 15, 2013. Chapter 2, Table 1-Maximum Concentration of Contaminants for the Characteristic of Toxicity.
Italicized data indicates that the data was qualified by the laboratory for QA/QC purposes. See laboratory reports for individual qualifiers, which are defined at the end of each laboratory report.

NEWSVT Landfills
Coventry, Vermont
Leachate
Volatile Organics (EPA Method 8260B)

Trip Blank

Date	Lab			Unidentified Peaks (Number of)
		8260	Acetone ug/L	VOCs (Mthd. 8260)
10/6/2008	Endyne	ND		0
5/6/2009	Endyne	ND		0
10/6/2009	Endyne	ND		0
5/3/2010	Endyne	ND		0
10/4/2010	Endyne	ND		0
5/2/2011	Endyne	ND		0
10/3/2011	Endyne	ND		0
4/30/2012	Endyne	ND		0
10/1/2012	Endyne	ND		0
5/7/2013	Endyne	ND		0
10/7/2013	Endyne		12.8	0
2/3/2014	Endyne	ND		0
4/29/2014	Endyne	ND		0
10/2/2014	Endyne	ND		0

Endyne = Endyne Inc., Williston, VT.
"ND" indicates no detects for that test method (see individual lab reports for detection levels).

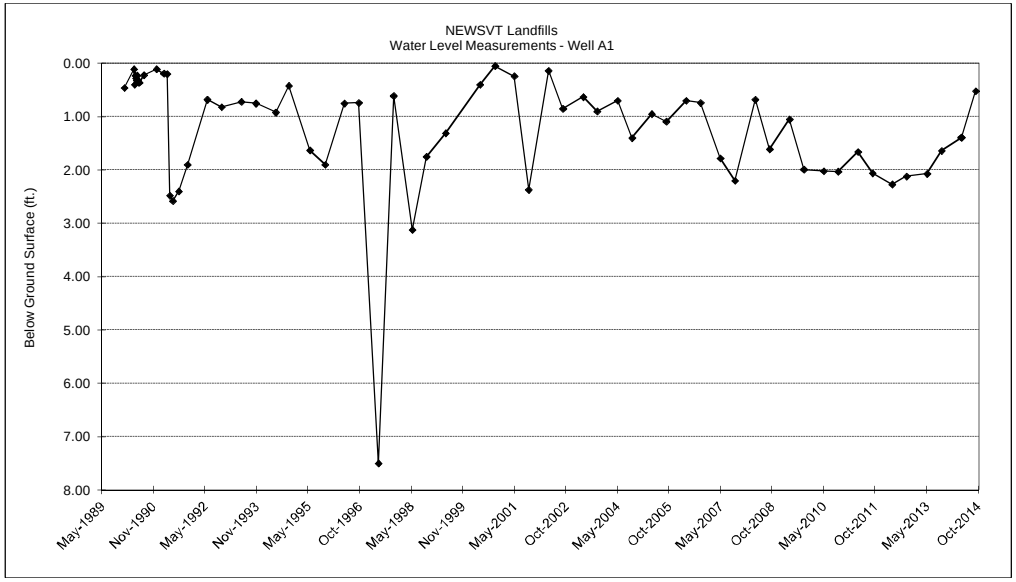
NEWSVT Landfills - Water Level Measurements

DATE	DEPTH (FT) BTOP	DEPTH (FT) BGS	ELEVATION FT.
12/29/1989	3.06	0.46	682.49
2/2/1990	F		
3/5/1990	F		
4/2/1990	F		
4/9/1990	2.71	0.11	682.84
4/16/1990	3.00	0.40	682.55
4/23/1990	2.83	0.23	682.72
4/30/1990	2.88	0.28	682.67
5/7/1990	2.92	0.32	682.63
5/14/1990	2.83	0.23	682.72
5/21/1990	2.92	0.32	682.63
5/28/1990	2.96	0.36	682.59
6/4/1990	2.96	0.36	682.59
7/24/1990	2.82	0.22	682.73
12/6/1990	2.71	0.11	682.84
2/21/1991	2.79	0.19	682.76
3/28/1991	2.80	0.20	682.75
4/26/1991	5.08	2.48	680.47
5/28/1991	5.18	2.58	680.37
7/30/1991	5.00	2.40	680.55
10/31/1991	4.50	1.90	681.05
5/27/1992	3.28	0.68	682.27
10/27/1992	3.42	0.82	682.13
5/24/1993	3.32	0.72	682.23
10/26/1993	3.35	0.75	682.20
5/25/1994	3.52	0.92	682.03
10/11/1994	3.02	0.42	682.53
5/23/1995	4.23	1.63	681.32
10/31/1995	4.5	1.90	681.05
5/22/1996	3.35	0.75	682.20
10/23/1996	3.34	0.74	682.21
5/21/1997	10.1	7.50	675.45
10/28/1997	3.21	0.61	682.34
5/15/1998	5.72	3.12	679.83
10/13/1998	4.35	1.75	681.20
5/5/1999	3.91	1.31	681.64
10/12/1999			
5/4/2000	3.0	0.40	682.55
10/10/2000	2.65	0.05	682.90
5/3/2001	2.84	0.24	682.71
10/2/2001	4.97	2.37	680.58
5/1/2002	2.74	0.14	682.81
10/1/2002	3.45	0.85	682.10
5/6/2003	3.23	0.63	682.32
10/1/2003	3.50	0.90	682.05
5/4/2004	3.30	0.70	682.25
10/5/2004	4.00	1.40	681.55
5/3/2005	3.55	0.95	682.00
10/3/2005	3.69	1.09	681.86
5/2/2006	3.30	0.70	682.25
10/3/2006	3.34	0.74	682.21
5/1/2007	4.38	1.78	681.17
10/4/2007	4.80	2.20	680.75
5/6/2008	3.28	0.68	682.27
10/6/2008	4.21	1.61	681.34
5/6/2009	3.65	1.05	681.90
10/6/2009	4.59	1.99	680.96
5/3/2010	4.62	2.02	680.93
10/4/2010	4.63	2.03	680.92
5/3/2011	4.26	1.66	681.29
10/5/2011	4.66	2.06	680.89
5/1/2012	4.87	2.27	680.68
10/1/2012	4.72	2.12	680.83
5/7/2013	4.67	2.07	680.88
10/8/2013	4.24	1.64	681.31
5/6/2014	3.99	1.39	681.56
5/6/2014	3.99	1.39	681.56
10/6/2014	3.12	0.52	682.43

Well A1*

Outer Casing Elev.	NM	Ft.
Elevation PVC TOC	685.55	Ft.
Elevation GS	682.95	Ft.
Outer Casing Stickup	NM	Ft.
PVC Stickup	2.60	Ft.
Well Depth BGS	12	Ft.
Well Bottom Elev.	670.95	Ft.
Screen Top Depth	5.5	Ft.
Screen Top Elev.	677.45	Ft.

WELL TYPE:
SHALLOW
Surficial



BGS = Below Ground Surface
BTOP = Below Top of Pipe (PVC)
F = Frozen at or near ground surface

GS = Ground surface
PVC = PVC well casing (inside)
TOC = Top of casing (outer casing)

NM = Not measureed
Well Type: Characterized by WHEM (Shallow or Deep, relative to Water Table),
(Completed in Surficial Material, or Bedrock).

*Additional WL's taken 2013-2014, not included here

Waite-Heindel Environmental Management;
Revised: 11/3/14;
U:\PROJECTS - WHEM\NEWSVT\data_semi\wells.xlsx;
Tab = WELLA1.

NEWSVT Landfills - Water Level Measurements

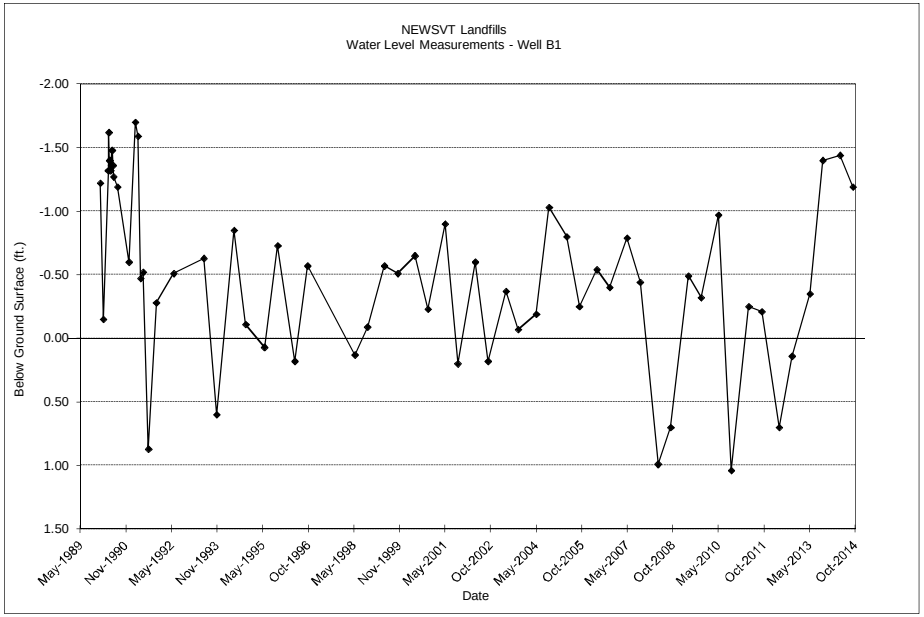
DATE	DEPTH (FT) BTOP	DEPTH (FT) BGS	ELEVATION FT.
12/29/1989	1.43	-1.22	684.00
2/2/1990	2.50	-0.15	682.93
3/5/1990	F		
4/2/1990	1.33	-1.32	684.10
4/9/1990	1.03	-1.62	684.40
4/16/1990	1.25	-1.40	684.18
4/23/1990	1.25	-1.40	684.18
4/30/1990	1.33	-1.32	684.10
5/7/1990	1.29	-1.36	684.14
5/14/1990	1.17	-1.48	684.26
5/21/1990	1.17	-1.48	684.26
5/28/1990	1.29	-1.36	684.14
6/4/1990	1.38	-1.27	684.05
7/24/1990	1.46	-1.19	683.97
12/6/1990	2.05	-0.60	683.38
2/21/1991	0.95	-1.70	684.48
3/28/1991	1.06	-1.59	684.37
4/26/1991	2.18	-0.47	683.25
5/28/1991	2.13	-0.52	683.30
7/30/1991	3.52	0.87	681.91
10/31/1991	2.37	-0.28	683.06
5/27/1992	2.14	-0.51	683.29
5/24/1993	2.02	-0.63	683.41
10/26/1993	3.25	0.60	682.18
5/25/1994	1.8	-0.85	683.63
10/11/1994	2.54	-0.11	682.89
5/23/1995	2.72	0.07	682.71
10/31/1995	1.92	-0.73	683.51
5/22/1996	2.83	0.18	682.60
10/23/1996	2.08	-0.57	683.35
5/15/1998	2.78	0.13	682.65
10/13/1998	2.56	-0.09	682.87
5/5/1999	2.08	-0.57	683.35
10/12/1999	2.14	-0.51	683.29
5/4/2000	2.00	-0.65	683.43
10/10/2000	2.42	-0.23	683.01
5/3/2001	1.75	-0.90	683.68
10/2/2001	2.85	0.20	682.58
5/1/2002	2.05	-0.60	683.38
10/1/2002	2.83	0.18	682.60
5/6/2003	2.28	-0.37	683.15
10/1/2003	2.58	-0.07	682.85
5/4/2004	2.46	-0.19	682.97
10/5/2004	1.62	-1.03	683.81
5/3/2005	1.85	-0.80	683.58
10/3/2005	2.40	-0.25	683.03
5/2/2006	2.11	-0.54	683.32
10/3/2006	2.25	-0.40	683.18
5/1/2007	1.86	-0.79	683.57
10/4/2007	2.21	-0.44	683.22
5/6/2008	3.64	0.99	681.79
10/6/2008	3.35	0.70	682.08
5/6/2009	2.16	-0.49	683.27
10/6/2009	2.33	-0.32	683.10
5/3/2010	1.68	-0.97	683.75
10/4/2010	3.69	1.04	681.74
5/3/2011	2.40	-0.25	683.03
10/5/2011	2.44	-0.21	682.99
5/1/2012	3.35	0.70	682.08
10/2/2012	2.79	0.14	682.64
5/7/2013	2.30	-0.35	683.13
10/8/2013	1.25	-1.40	684.18
5/6/2014	1.21	-1.44	684.22
10/6/2014	1.46	-1.19	683.97

BGS = Below Ground Surface
BTOP = Below Top of Pipe (PVC)
F = Frozen at or near ground surface
GS = Ground surface
PVC = PVC well casing (inside)
TOC = Top of casing (outer casing)
Negative values indicated that the water level was above the ground surface
NM = Not measureed
*Additional WL's taken 2013-2014, not included here

Well B1*

Outer Casing Elev.	NM	Ft.
Elevation PVC TOC	685.43	Ft.
Elevation GS	682.78	Ft.
Outer Casing Stickup	NM	Ft.
PVC Stickup	2.65	Ft.
Well Depth BGS	42	Ft.
Well Bottom Elev.	640.78	Ft.
Screen Top Depth	16	Ft.
Screen Top Elev.	666.78	Ft.

WELL TYPE:
SHALLOW
Surficial



Well Type: Characterized by WHEM (Shallow or Deep, relative to Water Table),
(Completed in Surficial Material, or Bedrock).

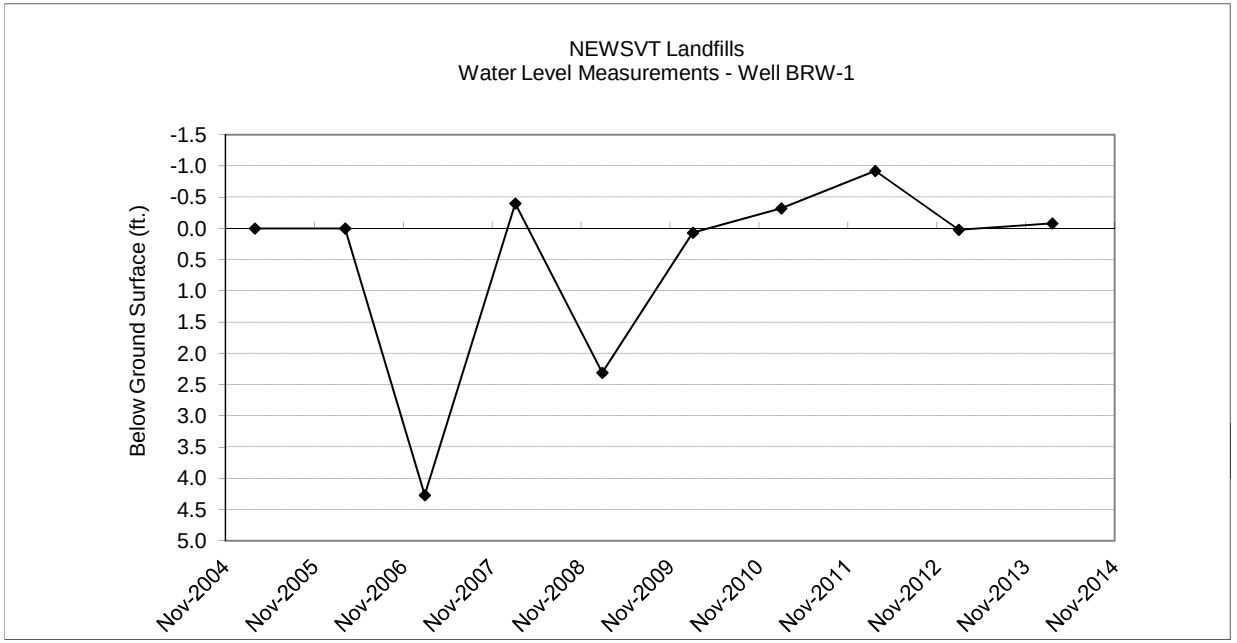
NEWSVT Landfills - Water Level Measurements

MW-BRW-1			
	Depth		Elevation
Date	BTOP	BGS	feet
3/10/2005	--	--	--
3/16/2006	--	--	--
2/6/2007	6.77	4.27	677.33
2/12/2008	2.1	-0.40	682.00
2/3/2009	4.81	2.31	679.29
2/10/2010	2.57	0.07	681.53
2/8/2011	2.18	-0.32	681.92
2/28/2012	1.58	-0.92	682.52
2/5/2013	2.52	0.02	681.58
2/24/2014	2.42	-0.08	681.68

Well BRW-1*

Outer Casing Elev.	none	Ft.
Elevation PVC TOC	684.10	Ft.
Elevation GS	681.60	Ft.
Outer Casing Stickup	none	Ft.
PVC Stickup	2.50	Ft.
Well Depth BGS	14	Ft.
Well Bottom Elev.	667.60	Ft.
Screen Top Depth	9	Ft.
Screen Top Elev.	672.60	Ft.

WELL TYPE:
SHALLOW
Surficial



BGS = Below Ground Surface
BTOP = Below Top of Pipe (PVC)
GS = Ground surface
PVC = PVC well casing (inside)
TOC = Top of casing (outer casing)
Well Type: Characterized by WHEM (Shallow or Deep,
relative to Water Table;
Completed in Surficial Material, or Bedrock).
*Additional WL's taken in 2014, not included here

NEWSVT Landfills - Water Level Measurements

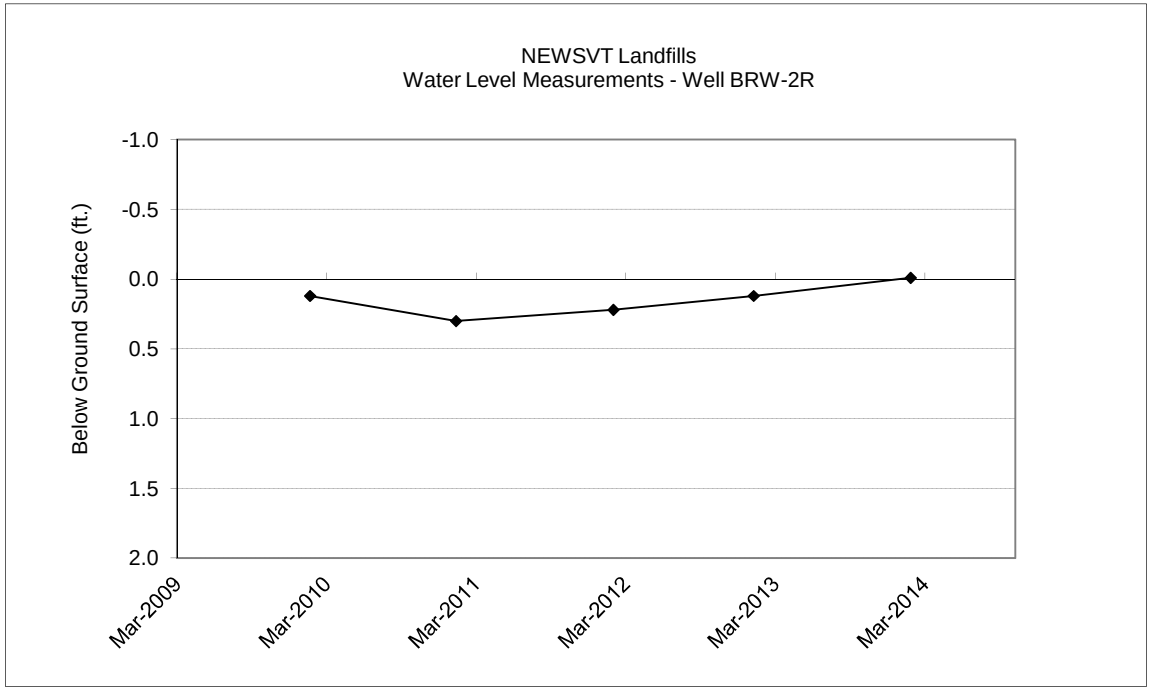
MW-BRW-2			
	Depth		Elevation
Date	BTOP	BGS	feet
3/10/2005	--	--	--
3/16/2006	--	--	--
2/6/2007	5.66	--	--
2/21/2008	4.54	--	--
2/3/2009	2.33	--	--
Well BRW-2R			
	DEPTH (FT)		ELEVATION
DATE	BTOP	BGS	FT.
Replaced February 16, 2010			
2/16/2010	6.52	0.12	681.48
2/8/2011	6.70	0.30	681.30
2/28/2012	6.62	0.22	681.38
2/5/2013	6.52	0.12	681.48
2/24/2014	6.39	-0.01	681.61

BTOP = Below Top of Pipe (PVC)
GS = Ground surface
PVC = PVC well casing (inside)
TOC = Top of casing (outer casing)
Well Type: Characterized by WHEM (Shallow or Deep,
relative to Water Table;
Completed in Surficial Material, or Bedrock).
*Additional WL's taken in 2014, not included here

Well BRW-2R*

Outer Casing Elev.	none	Ft.
Elevation PVC TOC	688.00	Ft.
Elevation GS	681.60	Ft.
Outer Casing Stickup	none	Ft.
PVC Stickup	6.40	Ft.
Well Depth BGS	9.5	Ft.
Well Bottom Elev.	672.10	Ft.
Screen Top Depth	4.5	Ft.
Screen Top Elev.	677.10	Ft.

WELL TYPE:
SHALLOW
Surficial



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Tab = BRW-2R.

NEWSVT Landfills - Water Level Measurements

Well BRW-3D					
DATE	GROUNDWATER DEPTH		GROUNDWATER ELEVATION	SURFACE WATER AT WELL	
				Depth (FT)	ELEVATION
	FT BTOP	FT BGS	FT.	BTP	FT.
9/24/2013	1.23	-1.16	683.72	NA	NA
10/10/2013	1.35	-1.04	683.60	NA	NA
10/29/2013	2.32	-0.07	682.63	NA	NA
3/11/2014	4.99	2.60	679.96	NA	NA
3/26/2014	4.15	1.76	680.80	NA	NA
4/15/2014	3.40	1.01	681.55	0.60	683.16
5/7/2014	2.50	0.11	682.45	NA	NA
10/8/2014	5.46	3.07	679.49	NA	NA

No adjacent river elevation data available

BTOP = Below Top of Pipe (PVC)

GS = Ground surface

PVC = PVC well casing (inside)

TOC = Top of casing (outer casing)

^ = Water level was at ice surface within well

Well Type: Characterized by WHEM (Shallow or Deep, relative to Water Table; Completed in Surficial Material, or Bedrock).

Surface Water is flood water surrounding PVC Well

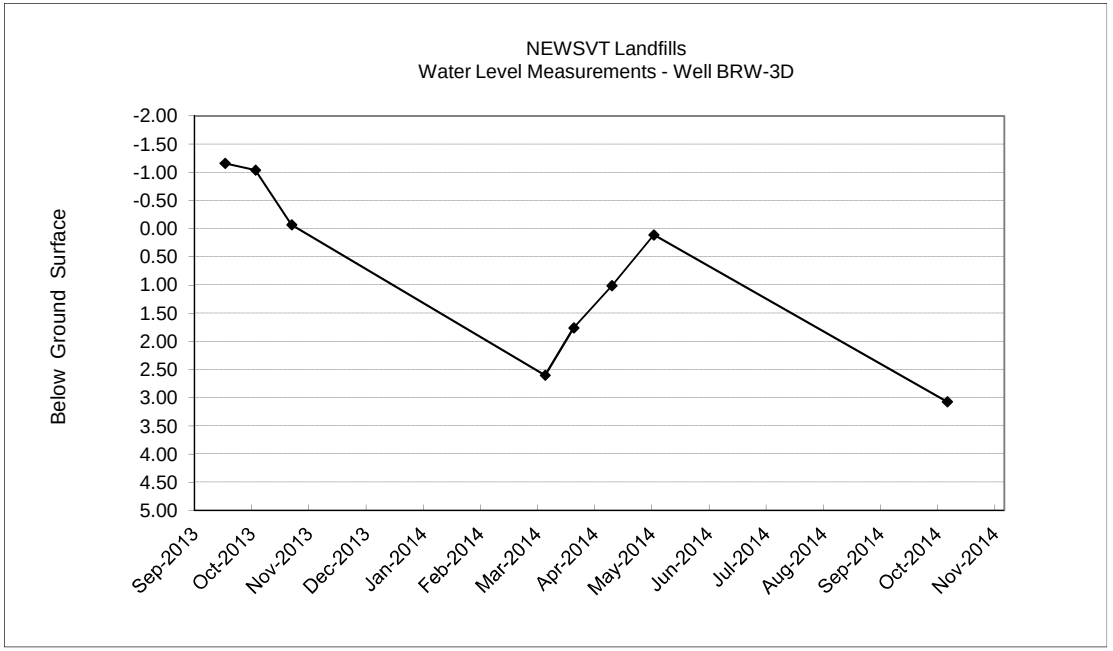
NA = Not Applicable, no surface water

1. "Adjacent river elevation" is based on relative river elevations surveyed at 8 points from the Airport Road Bridge to SW-2 on 10/8/2014

Well BRW-3D

Outer Casing Elev.	none	Ft.
Elevation PVC TOC	684.95	Ft.
Elevation GS	682.56	Ft.
Outer Casing Stickup	none	Ft.
PVC Stickup	2.39	Ft.
Well Depth BGS	46	Ft.
Well Bottom Elev.	636.56	Ft.
Screen Top Depth	36.5	Ft.
Screen Top Elev.	646.06	Ft.

WELL TYPE:
DEEP
Surficial



NEWSVT Landfills - Water Level Measurements

Well BRW-3S					
DATE	GROUNDWATER DEPTH		GROUNDWATER ELEVATION	SURFACE WATER AT WELL	
				Depth (FT)	ELEVATION
	FT BTOP	FT BGS	FT.	BTP	FT.
5/21/2013	5.35	2.55	680.05	NA	NA
6/13/2013	3.66	0.86	681.74	NA	NA
7/8/2013	4.95	2.15	680.45	NA	NA
7/25/2013	3.73	0.93	681.67	NA	NA
9/24/2013	5.13	2.33	680.27	NA	NA
10/10/2013	2.91	0.11	682.49	NA	NA
10/29/2013	2.91	0.11	682.49	NA	NA
3/11/2014	2.49	-0.31	682.91	NA	NA
3/26/2014	^2.00	-0.80	683.40	NA	NA
4/15/2014	1.00	-1.80	684.40	1.00	683.60
5/7/2014	2.82	0.02	682.58	NA	NA
10/8/2014	2.90	0.10	682.50	NA	NA

No adjacent river elevation data available

BTOP = Below Top of Pipe (PVC)

GS = Ground surface

PVC = PVC well casing (inside)

TOC = Top of casing (outer casing)

^ = Water level was at ice surface within well

Well Type: Characterized by WHEM (Shallow or Deep, relative to Water Table; Completed in Surficial Material, or Bedrock).

Surface Water is flood water surrounding PVC Well

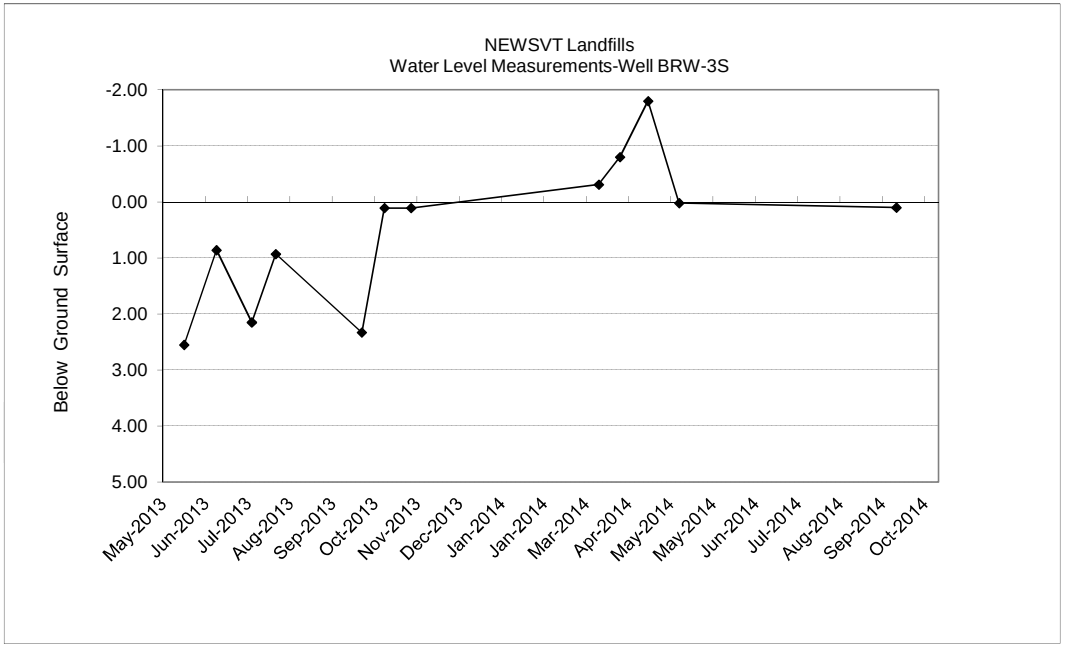
NA = Not Applicable, no surface water

1. "Adjacent river elevation" is based on relative river elevations surveyed at 8 points from the Airport Road Bridge to SW-2 on 10/8/2014

Well BRW-3S

Outer Casing Elev.	none	Ft.
Elevation PVC TOC	685.40	Ft.
Elevation GS	682.60	Ft.
Outer Casing Stickup	none	Ft.
PVC Stickup	2.80	Ft.
Well Depth BGS	10	Ft.
Well Bottom Elev.	672.60	Ft.
Screen Top Depth	5	Ft.
Screen Top Elev.	677.60	Ft.

WELL TYPE:
SHALLOW
Surficial



NEWSVT Landfills - Water Level Measurements

DATE	DEPTH (FT) BTOP	DEPTH (FT) BGS	ELEVATION FT.
10/13/1998	6.00	2.82	686.70
5/5/1999	6.06	2.88	686.64
10/12/1999	6.48	3.30	686.22
5/4/2000	6.90	3.72	685.80
10/10/2000	6.62	3.44	686.08
5/3/2001	5.76	2.58	686.94
10/2/2001	7.66	4.48	685.04
5/1/2002	5.61	2.43	687.09
10/1/2002	7.25	4.07	685.45
5/6/2003	7.96	4.78	684.74
10/1/2003	6.79	3.61	685.91
5/4/2004	7.95	4.77	684.75
10/5/2004	6.75	3.57	685.95
5/3/2005	5.91	2.73	686.79
10/3/2005	7.10	3.92	685.60
5/2/2006	7.35	4.17	685.35
10/3/2006	6.38	3.20	686.32
5/1/2007	5.75	2.57	686.95
10/4/2007	7.51	4.33	685.19
5/6/2008	7.68	4.50	685.02
10/6/2008	8.19	5.01	684.51
5/6/2009	6.42	3.24	686.28
10/6/2009	6.31	3.13	686.39
5/3/2010	5.99	2.81	686.71
10/4/2010	5.92	2.74	686.78
5/3/2011	7.15	3.97	685.55
10/5/2011	5.88	2.70	686.82
5/2/2012	7.80	4.62	684.90
10/1/2012	8.15	4.97	684.55
5/7/2013	6.21	3.03	686.49
10/8/2013	7.09	3.91	685.61
5/6/2014	5.09	1.91	687.61
10/6/2014	6.44	3.26	686.26

BGS = Below Ground Surface
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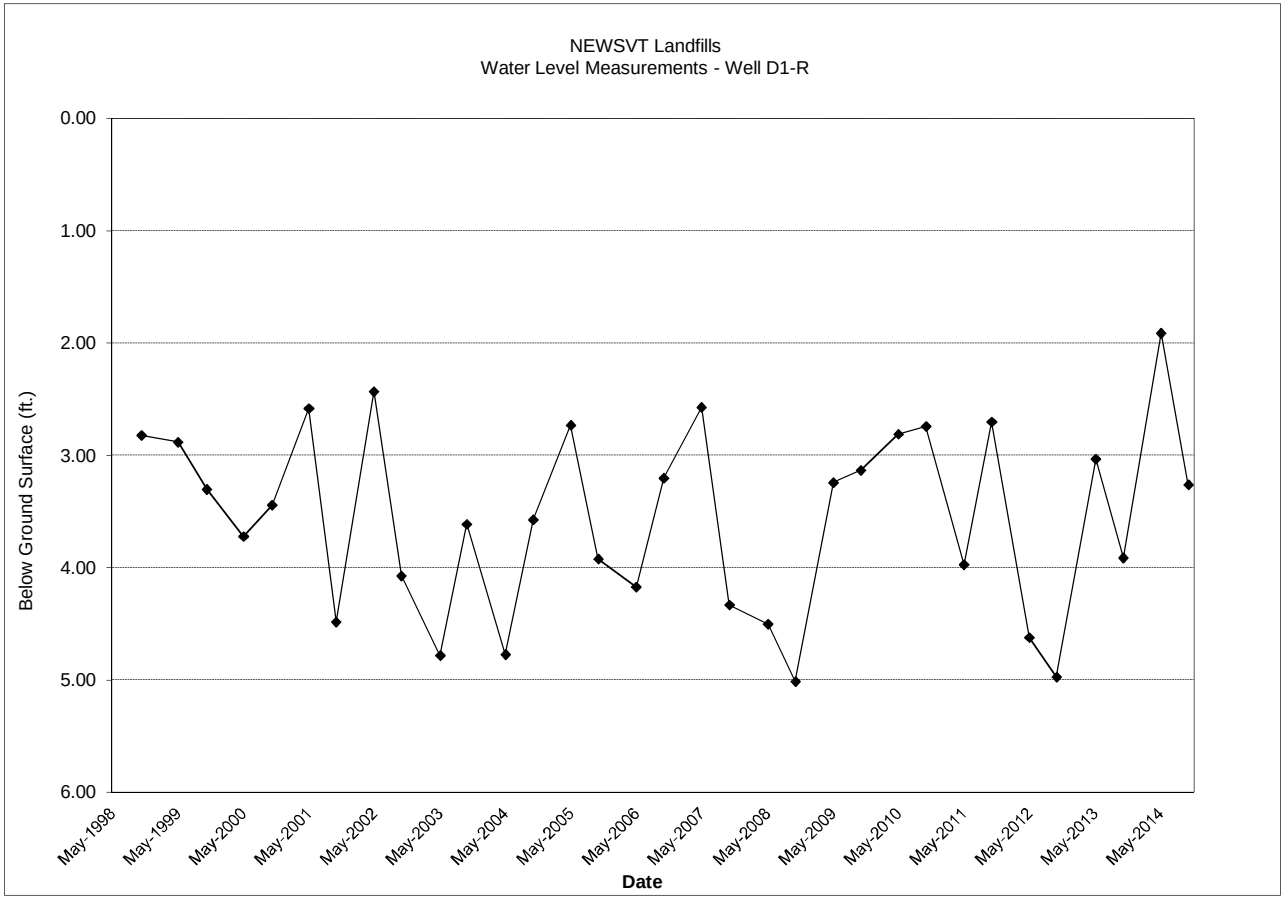
F = Frozen at or near ground surface
GS = Ground surface
PVC = PVC well casing (inside)
TOC = Top of casing (outer casing)
NM = Not measureed
Well Type: Characterized by WHEM (Shallow or Deep,
relative to Water Table;
Completed in Surficial Material, or Bedrock).
*Additional WL's taken 2013-2014, not included here

Well D1-R*

Outer Casing Elev.	NM	Ft.
Elevation PVC TOC	692.70	Ft.
Elevation GS	689.52	Ft.
Outer Casing Stickup	NM	Ft.
PVC Stickup	3.18	Ft.
Well Depth BGS	75	Ft.
Well Bottom Elev.	614.52	Ft.
Screen Top Depth	44	Ft.
Screen Top Elev.	645.52	Ft.

WELL TYPE:
DEEP
Surficial



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Tab = WELLD1R.

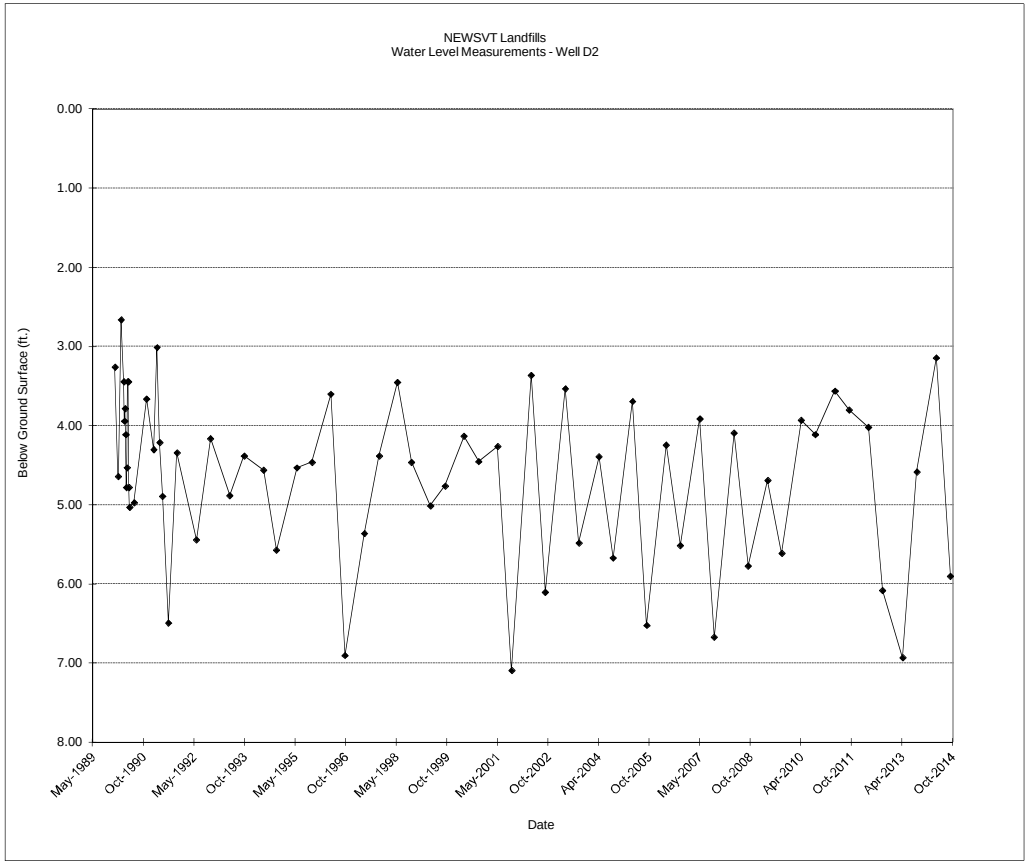
NEWSVT Landfills - Water Level Measurements

DATE	DEPTH (FT) BTOP	DEPTH (FT) BGS	ELEVATION FT.
12/29/1989	5.90	3.26	687.22
2/2/1990	7.28	4.64	685.84
3/5/1990	5.30	2.66	687.82
4/2/1990	6.08	3.44	687.04
4/9/1990	6.58	3.94	686.54
4/16/1990	6.42	3.78	686.70
4/23/1990	6.75	4.11	686.37
4/30/1990	7.42	4.78	685.70
5/7/1990	7.17	4.53	685.95
5/14/1990	6.08	3.44	687.04
5/21/1990	6.08	3.44	687.04
5/28/1990	7.42	4.78	685.70
6/4/1990	7.67	5.03	685.45
7/24/1990	7.61	4.97	685.51
12/6/1990	6.30	3.66	686.82
2/21/1991	6.94	4.30	686.18
3/28/1991	5.65	3.01	687.47
4/26/1991	6.85	4.21	686.27
5/28/1991	7.53	4.89	685.59
7/30/1991	9.13	6.49	683.99
10/31/1991	6.98	4.34	686.14
5/27/1992	8.08	5.44	685.04
10/27/1992	6.80	4.16	686.32
5/24/1993	7.52	4.88	685.60
10/26/1993	7.02	4.38	686.10
5/25/1994	7.2	4.56	685.92
10/11/1994	8.21	5.57	684.91
5/23/1995	7.17	4.53	685.95
10/31/1995	7.1	4.46	686.02
5/22/1996	6.24	3.60	686.88
10/23/1996	9.54	6.90	683.58
5/21/1997	8.0	5.36	685.12
10/29/1997	7.02	4.38	686.10
5/15/1998	6.09	3.45	687.03
10/13/1998	7.10	4.46	686.02
5/5/1999	7.65	5.01	685.47
10/12/1999	7.40	4.76	685.72
5/4/2000	6.77	4.13	686.35
10/10/2000	7.09	4.45	686.03
5/3/2001	6.90	4.26	686.22
10/2/2001	9.73	7.09	683.39
5/1/2002	6.00	3.36	687.12
10/1/2002	8.74	6.10	684.38
5/6/2003	6.17	3.53	686.95
10/1/2003	8.12	5.48	685.00
5/4/2004	7.03	4.39	686.09
10/5/2004	8.31	5.67	684.81
5/3/2005	6.33	3.69	686.79
10/3/2005	9.16	6.52	683.96
5/2/2006	6.88	4.24	686.24
10/3/2006	8.15	5.51	684.97
5/1/2007	6.55	3.91	686.57
10/4/2007	9.31	6.67	683.81
5/6/2008	6.73	4.09	686.39
10/6/2008	8.41	5.77	684.71
5/6/2009	7.33	4.69	685.79
10/6/2009	8.25	5.61	684.87
5/3/2010	6.57	3.93	686.55
10/4/2010	6.75	4.11	686.37
5/3/2011	6.20	3.56	686.92
10/5/2011	6.44	3.80	686.68
5/2/2012	6.66	4.02	686.46
10/1/2012	8.72	6.08	684.40
5/7/2013	9.57	6.93	683.55
10/8/2013	7.22	4.58	685.90
5/6/2014	5.78	3.14	687.34
10/6/2014	8.54	5.90	684.58

Well D2*

Outer Casing Elev.	NM	Ft.
Elevation PVC TOC	693.12	Ft.
Elevation GS	690.48	Ft.
Outer Casing Stickup	NM	Ft.
PVC Stickup	2.64	Ft.
Well Depth BGS	31	Ft.
Well Bottom Elev.	659.48	Ft.
Screen Top Depth	22	Ft.
Screen Top Elev.	668.48	Ft.

WELL TYPE:
SHALLOW
Surficial



BGS = Below Ground Surface
BTOP = Below Top of Pipe (PVC)
F = Frozen at or near ground surface
GS = Ground surface
PVC = PVC well casing (inside)
TOC = Top of casing (outer casing)
NM = Not measureed
*Additional WL's taken 2013-2014, not included here

Well Type: Characterized by WHEM (Shallow or Deep, relative to Water Table), (Completed in Surficial Material, or Bedrock).

NEWSVT Landfills - Water Level Measurements

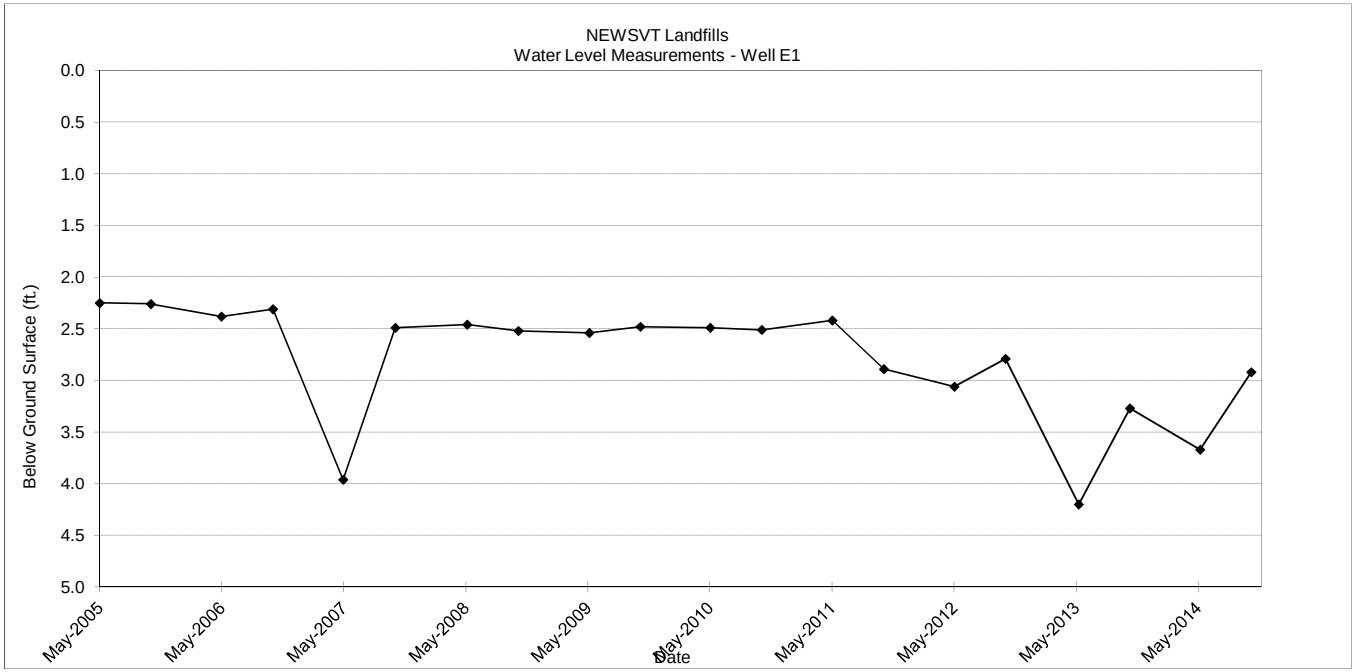
Date	Depth BTOP	Depth BGS	Elevation feet
5/3/2005	3.25	2.25	783.91
10/3/2005	3.26	2.26	783.90
5/2/2006	3.38	2.38	783.78
10/3/2006	3.31	2.31	783.85
5/1/2007	4.96	3.96	782.20
10/4/2007	3.49	2.49	783.67
5/6/2008	3.46	2.46	783.70
10/6/2008	3.52	2.52	783.64
5/6/2009	3.54	2.54	783.62
10/6/2009	3.48	2.48	783.68
5/3/2010	3.49	2.49	783.67
10/4/2010	3.51	2.51	783.65
5/3/2011	3.42	2.42	783.74
10/4/2011	3.89	2.89	783.27
5/2/2012	4.06	3.06	783.10
10/2/2012	3.79	2.79	783.37
5/9/2013	5.20	4.20	781.96
10/9/2013	4.27	3.27	782.89
5/7/2014	4.67	3.67	782.49
10/7/2014	3.92	2.92	783.24

BGS = Below Ground Surface
BTOP = Below Top of Pipe (PVC)
GS = Ground surface
PVC = PVC well casing (inside)
TOC = Top of casing (outer casing)
Well Type: Characterized by WHEM (Shallow or Deep,
relative to Water Table;
Completed in Surficial Material, or Bedrock).

Well E1

Outer Casing Elev.	none	Ft.
Elevation PVC TOC	787.16	Ft.
Elevation GS	786.16	Ft.
Outer Casing Stickup	none	Ft.
PVC Stickup	1.00	Ft.
Well Depth BGS	7	Ft.
Well Bottom Elev.	779.16	Ft.
Screen Top Depth	3	Ft.
Screen Top Elev.	783.16	Ft.

WELL TYPE:
SHALLOW
Surficial



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NEWSVT Landfills - Water Level Measurements

DATE	DEPTH (FT) BTOP	DEPTH (FT) BGS	ELEVATION FT.
10/2/1989	2.49	0.09	685.45
10/18/1989	1.99	-0.41	685.95
11/1/1989	2.08	-0.32	685.86
2/2/1990	F		
3/5/1990	F		
4/2/1990	1.63	-0.77	686.31
4/9/1990	1.67	-0.73	686.27
4/16/1990	1.83	-0.57	686.11
4/23/1990	1.83	-0.57	686.11
4/30/1990	1.79	-0.61	686.15
5/7/1990	1.79	-0.61	686.15
5/14/1990	1.67	-0.73	686.27
5/21/1990	1.67	-0.73	686.27
5/28/1990	1.71	-0.69	686.23
6/4/1990	1.63	-0.77	686.31
2/21/1991	0.30	-2.10	687.64
3/28/1991	0.44	-1.96	687.50
4/26/1991	0.45	-1.95	687.49
5/28/1991	0.67	-1.73	687.27
7/30/1991	1.36	-1.04	686.58
10/31/1991	0.51	-1.89	687.43
5/27/1992	0.57	-1.83	687.37
10/27/1992	0.50	-1.90	687.44
5/24/1993	0.71	-1.69	687.23
10/26/1993	0.68	-1.72	687.26
5/25/1994	0.73	-1.67	687.21
10/11/1994	0.85	-1.55	687.09
5/23/1995	0.90	-1.50	687.04
10/31/1995	0.80	-1.60	687.14
5/22/1996	0.12	-2.28	687.82
10/23/1996	0.80	-1.60	687.14
5/21/1997	9.30	6.90	678.64
10/29/1997	0.17	-2.23	687.77
5/15/1998	5.27	2.87	682.67

MW-P2-R

DATE	DEPTH (FT) BTOP	DEPTH (FT) BGS	ELEVATION FT.
10/13/1998	1.45	-1.50	685.56
5/5/1999	1.75	-1.20	685.26
10/12/1999	1.91	-1.04	685.10
5/4/2000	1.61	-1.34	685.40
10/10/2000	1.92	-1.03	685.09
5/3/2001	1.52	-1.43	685.49
10/1/2001	3.33	0.38	683.68
5/1/2002	1.90	-1.05	685.11
10/1/2002	2.57	-0.38	684.44
5/6/2003	2.80	-0.15	684.21
10/1/2003	2.73	-0.22	684.28
5/4/2004	2.77	-0.18	684.24
10/5/2004	2.90	-0.05	684.11
5/3/2005	1.86	-1.09	685.15
10/3/2005	3.03	0.08	683.98
5/2/2006	1.99	-0.96	685.02
10/3/2006	2.28	-0.67	684.73
5/1/2007	2.58	-0.37	684.43
10/4/2007	3.62	0.67	683.39
5/6/2008	1.93	-1.02	685.08
10/6/2008	2.89	-0.06	684.12
5/6/2009	2.46	-0.49	684.55
10/6/2009	3.03	0.08	683.98
5/3/2010	2.24	-0.71	684.77
10/4/2010	2.32	-0.63	684.69
5/3/2011	2.75	-0.20	684.26
10/5/2011	3.56	0.61	683.45
5/2/2012	3.51	0.56	683.50
10/1/2012	3.73	0.78	683.28
5/7/2013	3.81	0.86	683.20
10/8/2013	2.34	-0.61	684.67
5/6/2014	2.36	-0.59	684.65
10/6/2014	2.98	0.03	684.03

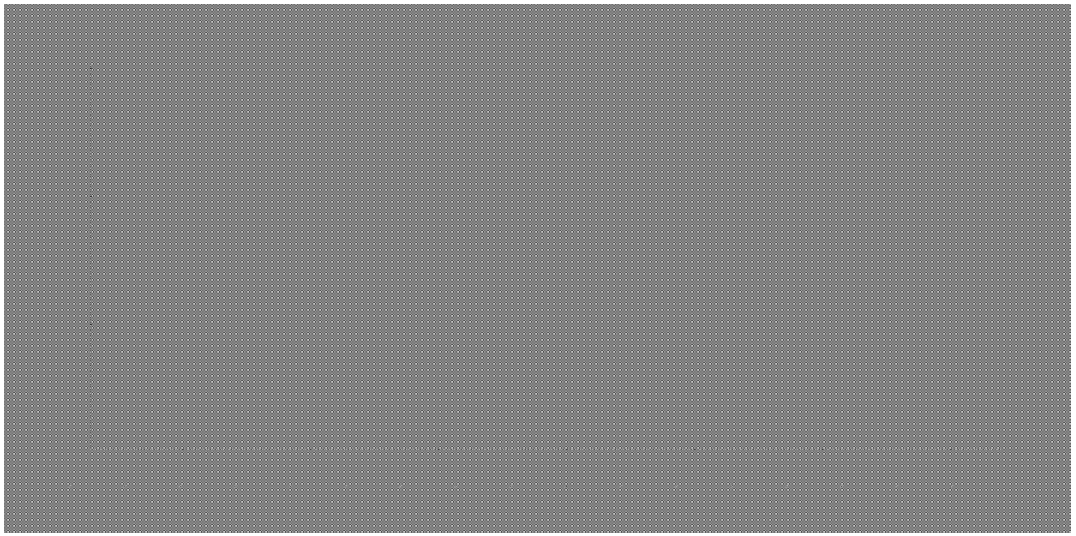
Well P2

Elevation Outer Casing	--	Ft.
Elevation PVC TOC	687.94	Ft.
Elevation GS	685.54	Ft.
Outer Casing Stickup	--	Ft.
PVC Stickup	2.40	Ft.

Well P2-R*

Outer Casing Elev.	NM	Ft.
Elevation PVC TOC	687.01	Ft.
Elevation GS	684.06	Ft.
Outer Casing Stickup	NM	Ft.
PVC Stickup	2.95	Ft.
Well Depth BGS	8	Ft.
Well Bottom Elev.	676.06	Ft.
Screen Top Depth	6	Ft.
Screen Top Elev.	678.06	Ft.

WELL TYPE:
SHALLOW
Surficial



BGS = Below Ground Surface
BTOP = Below Top of Pipe (PVC)
F = Frozen at or near ground surface

GS = Ground surface
PVC = PVC well casing (inside)
TOC = Top of casing (outer casing)

NM = Not measureed
Well Type: Characterized by WHEM (Shallow or Deep, relative to Water Table), (Completed in Surficial Material, or Bedrock).

*Additional WL's taken 2013-2014, not included here

NEWSVT Landfills - Water Level Measurements

DATE	DEPTH (FT) BTOP	DEPTH (FT) BGS	ELEVATION FT.
3/28/1991	2.89	-0.11	682.58
4/26/1991	3.64	0.64	681.83
5/28/1991	3.70	0.70	681.77
7/30/1991	4.34	1.34	681.13
10/31/1991	3.47	0.47	682.00
5/27/1992	2.96	-0.04	682.51
10/27/1992	3.57	0.57	681.90
5/24/1993	3.03	0.03	682.44
10/26/1993	3.03	0.03	682.44
5/25/1994	2.85	-0.15	682.62
10/11/1994	2.91	-0.09	682.56
5/23/1995	2.91	-0.09	682.56
10/25/1995	3.4	0.40	682.07
5/22/1996	3.52	0.52	681.95
10/23/1996	3.27	0.27	682.20
5/21/1997	7.0	4.00	678.47
10/29/1997	3.20	0.20	682.27
5/15/1998	3.15	0.15	682.32
10/13/1998	3.31	0.31	682.16
5/5/1999	3.10	0.10	682.37
10/12/1999	2.33	-0.67	683.14
5/4/2000	2.97	-0.03	682.50
10/10/2000	2.04	-0.96	683.43
5/3/2001	2.33	-0.67	683.14
10/2/2001	3.86	0.86	681.61
5/1/2002	3.18	0.18	682.29
10/1/2002	3.30	0.30	682.17
5/6/2003	2.80	-0.20	682.67
10/1/2003	3.22	0.22	682.25
5/4/2004	3.04	0.04	682.43
10/5/2004	3.49	0.49	681.98
5/3/2005	2.93	-0.07	682.54
10/3/2005	3.53	0.53	681.94
5/2/2006	3.19	0.19	682.28
10/3/2006	3.26	0.26	682.21
5/1/2007	2.86	-0.14	682.61
10/4/2007	3.69	0.69	681.78
5/6/2008	3.52	0.52	681.95
10/6/2008	3.33	0.33	682.14
5/6/2009	3.06	0.06	682.41
10/6/2009	3.85	0.85	681.62
5/3/2010	4.23	1.23	681.24
10/4/2010	4.05	1.05	681.42
5/3/2011	2.65	-0.35	682.82
10/5/2011	3.44	0.44	682.03
5/1/2012	4.40	1.40	681.07
10/1/2012	3.29	0.29	682.18
5/7/2013	3.12	0.12	682.35
10/8/2013	2.91	-0.09	682.56
5/6/2014	2.71	-0.29	682.76
10/6/2014	2.97	-0.03	682.50

BGS = Below Ground Surface
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GS = Ground surface
PVC = PVC well casing (inside)
TOC = Top of casing (outer casing)
NM = Not measureed
Well Type: Characterized by WHEM (Shallow or Deep,
relative to Water Table;
Completed in Surficial Material, or Bedrock).
*Additionial WL's taken in 2014, not included here

Well P5*

Outer Casing Elev.	NM	Ft.
Elevation PVC TOC	685.47	Ft.
Elevation GS	682.47	Ft.
Outer Casing Stickup	NM	Ft.
PVC Stickup	3.00	Ft.
Well Depth BGS	15	Ft.
Well Bottom Elev.	667.47	Ft.
Screen Top Depth	5	Ft.
Screen Top Elev.	677.47	Ft.

WELL TYPE:
SHALLOW
Surficial

Waite-Heindel Environmental Management;
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Tab = WELLP5.

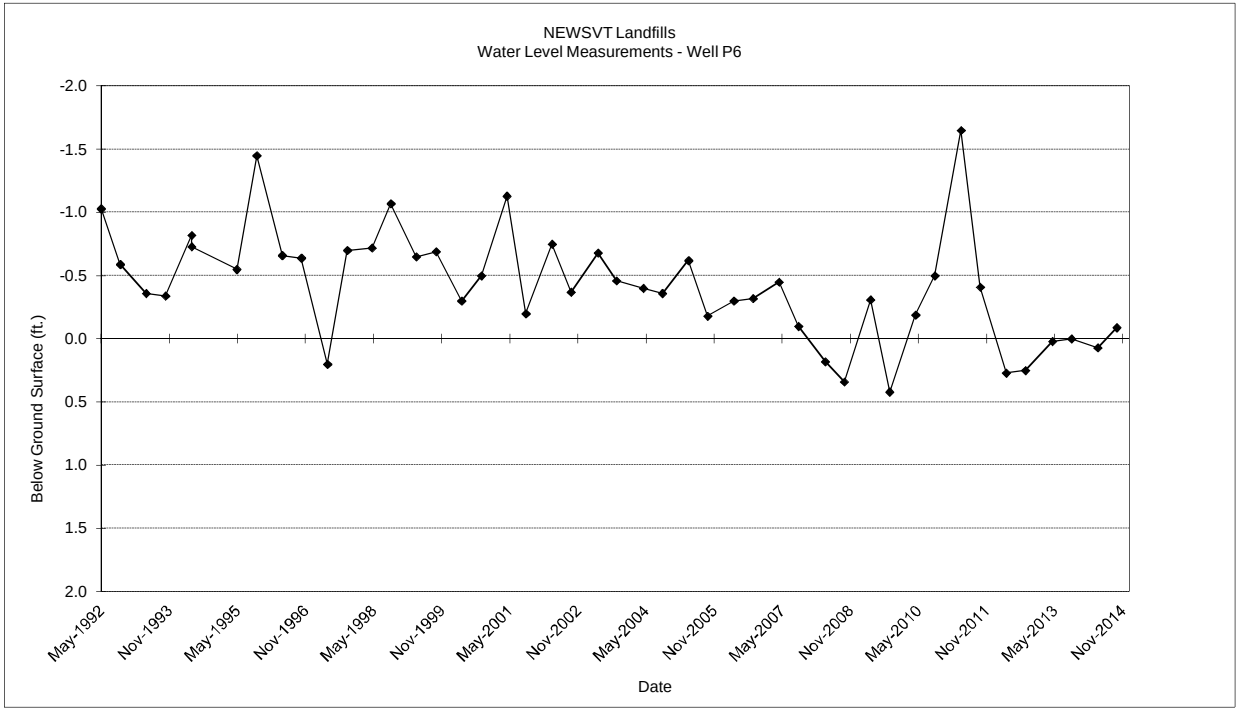
NEWSVT Landfills - Water Level Measurements

DATE	DEPTH (FT) BTOP	DEPTH (FT) BGS	ELEVATION FT.
5/27/1992	1.77	-1.03	687.03
10/27/1992	2.21	-0.59	686.59
5/24/1993	2.44	-0.36	686.36
10/26/1993	2.46	-0.34	686.34
5/25/1994	1.98	-0.82	686.82
5/25/1994	2.07	-0.73	686.73
5/23/1995	2.25	-0.55	686.55
10/31/1995	1.35	-1.45	687.45
5/22/1996	2.14	-0.66	686.66
10/23/1996	2.16	-0.64	686.64
5/21/1997	3.0	0.20	685.80
10/28/1997	2.10	-0.70	686.70
5/14/1998	2.08	-0.72	686.72
10/13/1998	1.73	-1.07	687.07
5/5/1999	2.15	-0.65	686.65
10/12/1999	2.11	-0.69	686.69
5/4/2000	2.50	-0.30	686.30
10/10/2000	2.30	-0.50	686.50
5/3/2001	1.67	-1.13	687.13
10/2/2001	2.60	-0.20	686.20
5/1/2002	2.05	-0.75	686.75
10/1/2002	2.43	-0.37	686.37
5/6/2003	2.12	-0.68	686.68
10/1/2003	2.34	-0.46	686.46
5/4/2004	2.40	-0.40	686.40
10/5/2004	2.44	-0.36	686.36
5/3/2005	2.18	-0.62	686.62
10/3/2005	2.62	-0.18	686.18
5/2/2006	2.50	-0.30	686.30
10/3/2006	2.48	-0.32	686.32
5/1/2007	2.35	-0.45	686.45
10/4/2007	2.70	-0.10	686.10
5/6/2008	2.98	0.18	685.82
10/6/2008	3.14	0.34	685.66
5/6/2009	2.49	-0.31	686.31
10/6/2009	3.22	0.42	685.58
5/3/2010	2.61	-0.19	686.19
10/4/2010	2.30	-0.50	686.50
5/3/2011	1.15	-1.65	687.65
10/5/2011	2.39	-0.41	686.41
5/1/2012	3.07	0.27	685.73
10/2/2012	3.05	0.25	685.75
5/7/2013	2.82	0.02	685.98
10/8/2013	2.80	0.00	686.00
5/7/2014	2.87	0.07	685.93
10/7/2014	2.71	-0.09	686.09

Well P6*

Outer Casing Elev.	NM	Ft.
Elevation PVC TOC	688.80	Ft.
Elevation GS	686.00	Ft.
Outer Casing Stickup	NM	Ft.
PVC Stickup	2.80	Ft.
Well Depth BGS	13	Ft.
Well Bottom Elev.	673.00	Ft.
Screen Top Depth	3	Ft.
Screen Top Elev.	683.00	Ft.

WELL TYPE:
SHALLOW
Surficial



BGS = Below Ground Surface
BTOP = Below Top of Pipe (PVC)
F = Frozen at or near ground surface
GS = Ground surface
PVC = PVC well casing (inside)
TOC = Top of casing (outer casing)
NM = Not measureed
*Additional WL's taken in 2014, not included here

Well Type: Characterized by WHEM (Shallow or Deep, relative to Water Table; Completed in Surficial Material, or Bedrock).

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Tab = WELLP6.

NEWSVT Landfills - Water Level Measurements

DATE	DEPTH (FT) BTOP	DEPTH (FT) BGS	ELEVATION FT.
5/27/1992	3.68	0.28	702.41
10/27/1992	4.31	0.91	701.78
5/24/1993	3.78	0.38	702.31
10/26/1993	3.78	0.38	702.31
5/25/1994	3.98	0.58	702.11
5/25/1994	4.68	1.28	701.41
5/23/1995	4.21	0.81	701.88
10/25/1995	8.70	5.30	697.39
5/22/1996	3.51	0.11	702.58
10/23/1996	3.80	0.40	702.29
5/21/1997	4.0	0.60	702.09
10/28/1997	3.84	0.44	702.25
5/14/1998	5.00	1.60	701.09
10/13/1998	4.42	1.02	701.67
5/5/1999	3.86	0.46	702.23
10/12/1999	3.23	-0.17	702.86
5/4/2000	3.65	0.25	702.44
10/10/2000	4.48	1.08	701.61
5/3/2001	3.12	-0.28	702.97
10/2/2001	6.24	2.84	699.85
5/1/2002	3.55	0.15	702.54
10/1/2002	3.62	0.22	702.47
5/6/2003	2.99	-0.41	703.10
10/1/2003	3.67	0.27	702.42
5/4/2004	3.65	0.25	702.44
10/5/2004	6.19	2.79	699.90
5/3/2005	3.75	0.35	702.34
10/3/2005	6.63	3.23	699.46
5/2/2006	4.25	0.85	701.84
10/3/2006	6.04	2.64	700.05
5/1/2007	4.06	0.66	702.03
10/4/2007	8.32	4.92	697.77
5/6/2008	4.55	1.15	701.54
10/6/2008	9.15	5.75	696.94
5/6/2009	4.60	1.20	701.49
10/6/2009	5.25	1.85	700.84
5/3/2010	4.55	1.15	701.54
10/4/2010	4.35	0.95	701.74
5/3/2011	3.54	0.14	702.55
10/4/2011	3.89	0.49	702.20
5/3/2012	4.56	1.16	701.53
10/3/2012	5.15	1.75	700.94
5/8/2013	5.56	2.16	700.53
10/9/2013	5.12	1.72	700.97
5/7/2014	4.69	1.29	701.40
10/7/2014	6.80	3.40	699.29

BGS = Below Ground Surface
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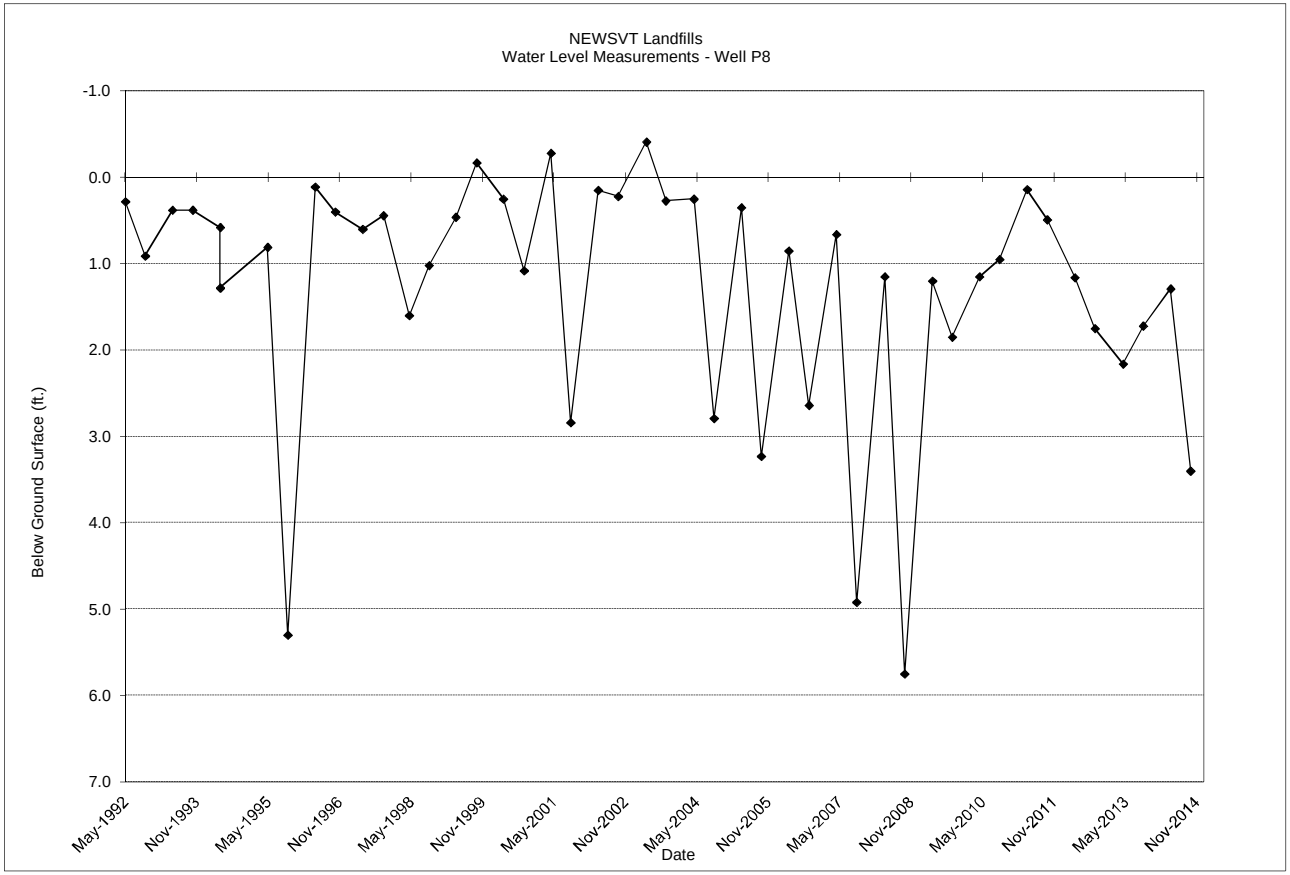
NM = Not measureed
Well Type: Characterized by WHEM (Shallow or Deep, relative to Water Table),
(Completed in Surficial Material, or Bedrock).
*Additional WL's taken 2013-2014, not included here

Well P8*

Outer Casing Elev.	NM	Ft.
Elevation PVC TOC	706.09	Ft.
Elevation GS	702.69	Ft.
Outer Casing Stickup	NM	Ft.
PVC Stickup	3.4	Ft.
Well Depth BGS	12	Ft.
Well Bottom Elev.	690.69	Ft.
Screen Top Depth	2	Ft.
Screen Top Elev.	700.69	Ft.

WELL TYPE:
SHALLOW
Surficial



Waite-Heindel Environmental Management;
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Tab = WELLP8.

NEWSVT Landfills - Water Level Measurements

Date	Depth BTOP	Depth BGS	Elevation feet
3/14/2001	20.68	18.18	799.06
9/26/2001	24.03	21.53	795.71
11/15/2001	22.10	19.60	797.64
12/19/2001	21.30	18.80	798.44
12/28/2001	21.50	19.00	798.24
1/15/2002	21.73	19.23	798.01
1/25/2002	21.56	19.06	798.18
2/6/2002	21.25	18.75	798.49
3/25/2002	18.36	15.86	801.38
5/1/2002	15.92	13.42	803.82
8/7/2002	20.63	18.13	799.11
10/1/2002	21.95	19.45	797.79
10/28/2004	19.76	17.26	799.98
5/3/2005	15.63	13.13	804.11
10/3/2005	28.03	25.53	791.71
5/2/2006	36.49	33.99	783.25
10/3/2006	35.53	33.03	784.21
5/1/2007	33.4	30.90	786.34
10/4/2007	36.84	34.34	782.90
5/6/2008	33.6	31.10	786.14
10/6/2008	36.33	33.83	783.41
5/6/2009	35.53	33.03	784.21
10/6/2009	37.02	34.52	782.72
5/3/2010	35.57	33.07	784.17
10/4/2010	37.22	34.72	782.52
5/3/2011	33.5	31.00	786.24
10/4/2011	34.84	32.34	784.90
5/2/2012	36.20	33.70	783.54
10/2/2012	38.52	36.02	781.22
5/9/2013	36.68	34.18	783.06
10/8/2013	37.89	35.39	781.85
5/6/2014	36.40	33.90	783.34
10/6/2014	37.43	34.93	782.31

BGS = Below Ground Surface
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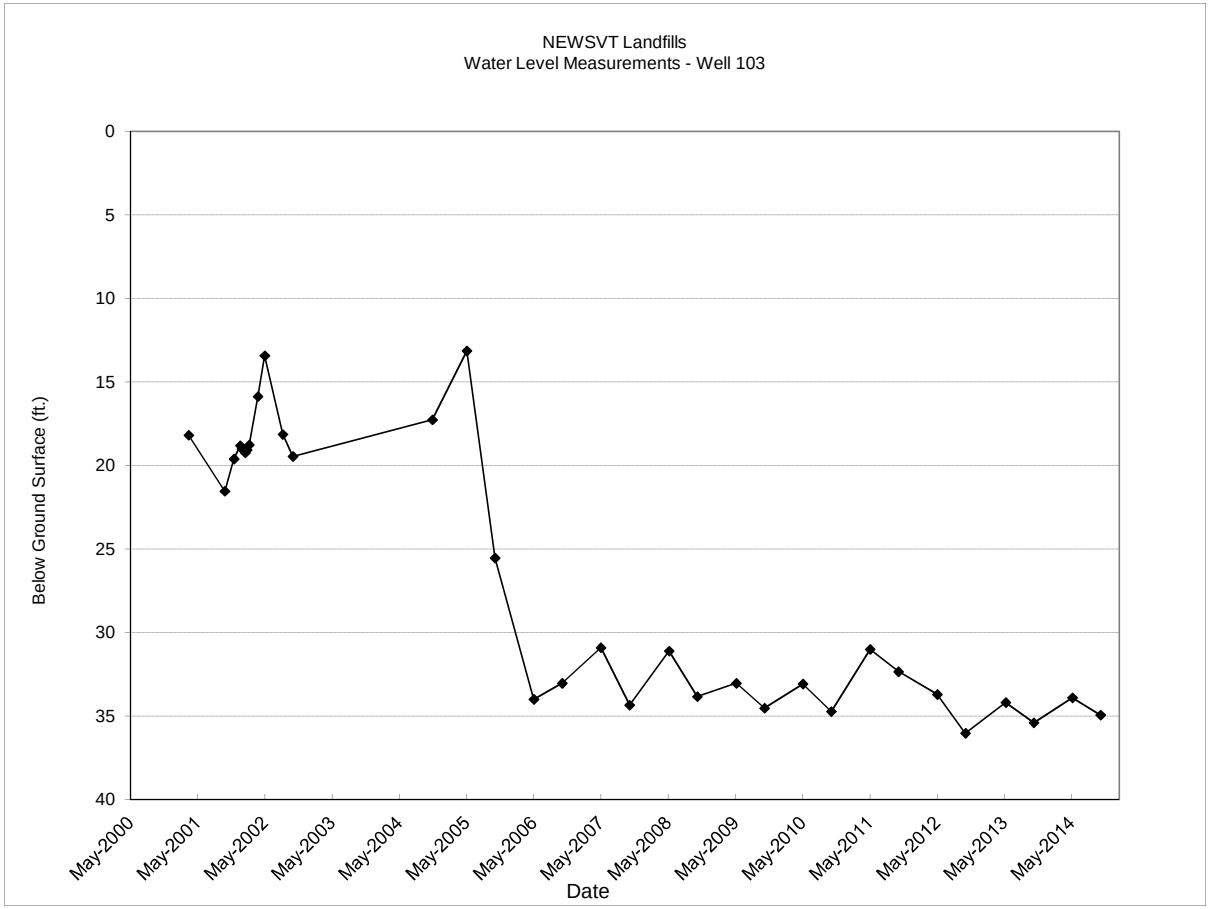
PVC = PVC well casing (inside)
TOC = Top of casing (outer casing)
NM = Not measureed
Well Type: Characterized by WHEM (Shallow or Deep,
relative to Water Table;
Completed in Surficial Material, or Bedrock).

Well 103

Outer Casing Elev.	NM	Ft.
Elevation PVC TOC	819.74	Ft.
Elevation GS	817.24	Ft.
Outer Casing Stickup	NM	Ft.
PVC Stickup	2.50	Ft.
Well Depth BGS	51	Ft.
Well Bottom Elev.	766.24	Ft.
Screen Top Depth	46	Ft.
Screen Top Elev.	771.24	Ft.

WELL TYPE:
DEEP
Surficial



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Tab = WELL103.

NEWSVT Landfills - Water Level Measurements

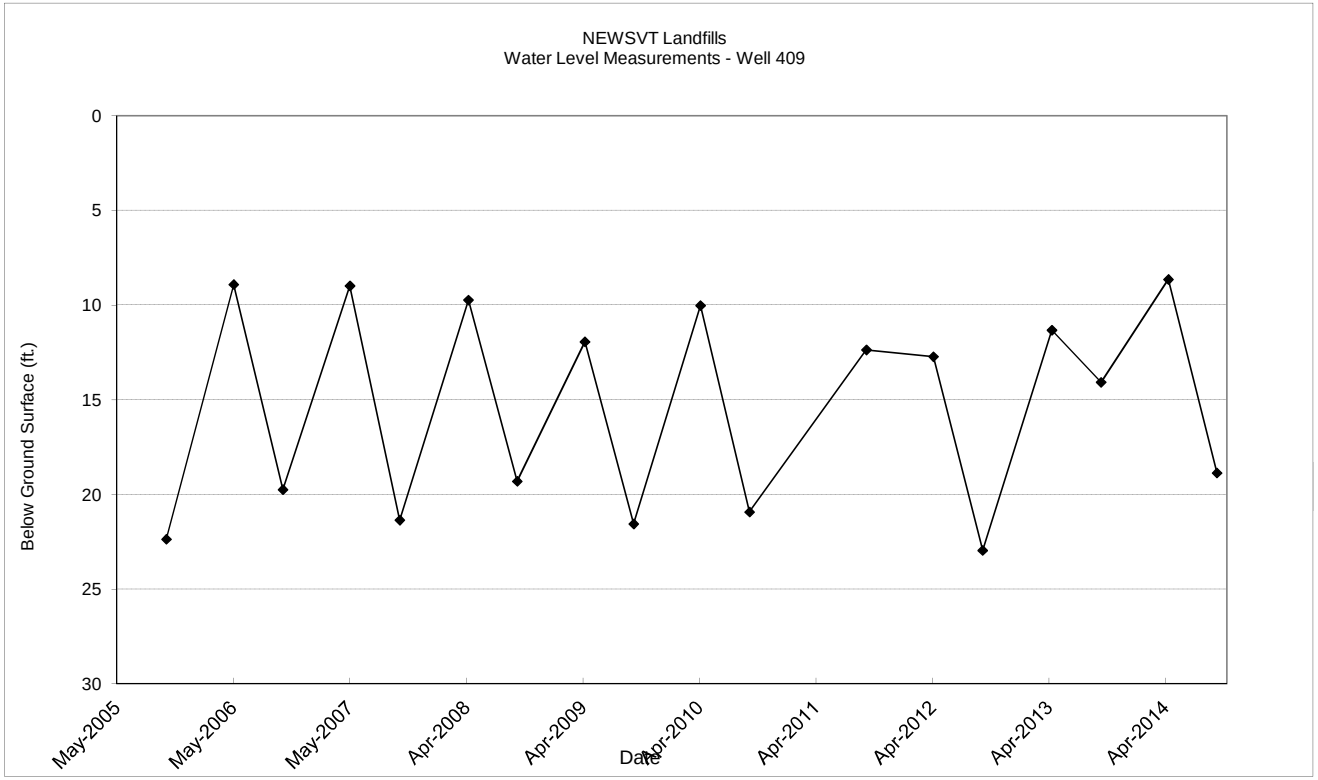
Date	Depth BTOP	Depth BGS	Elevation feet
10/3/2005	25.26	22.36	755.64
5/2/2006	11.81	8.91	769.09
10/3/2006	22.64	19.74	758.26
5/1/2007	11.88	8.98	769.02
10/4/2007	24.25	21.35	756.65
5/6/2008	12.63	9.73	768.27
10/6/2008	22.2	19.30	758.70
5/6/2009	14.83	11.93	766.07
10/6/2009	24.45	21.55	756.45
5/3/2010	12.92	10.02	767.98
10/4/2010	23.82	20.92	757.08
10/5/2011	15.26	12.36	765.64
5/2/2012	15.62	12.72	765.28
10/3/2012	25.85	22.95	755.05
5/8/2013	14.22	11.32	766.68
10/9/2013	16.97	14.07	763.93
5/8/2014	11.54	8.64	769.36
10/7/2014	21.76	18.86	759.14

BGS = Below Ground Surface
BTOP = Below Top of Pipe (PVC)
GS = Ground surface
PVC = PVC well casing (inside)
TOC = Top of casing (outer casing)
NM = Not measureed
Well Type: Characterized by WHEM (Shallow or Deep,
relative to Water Table;
Completed in Surficial Material, or Bedrock).

Well 409

Outer Casing Elev.	NM	Ft.
Elevation PVC TOC	780.90	Ft.
Elevation GS	778.00	Ft.
Outer Casing Stickup	NM	Ft.
PVC Stickup	2.90	Ft.
Well Depth BGS	37	Ft.
Well Bottom Elev.	741.00	Ft.
Screen Top Depth	22	Ft.
Screen Top Elev.	756.00	Ft.

WELL TYPE:
DEEP
Surficial



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Tab = WELL409.

WASTE USA - Water Level Measurements

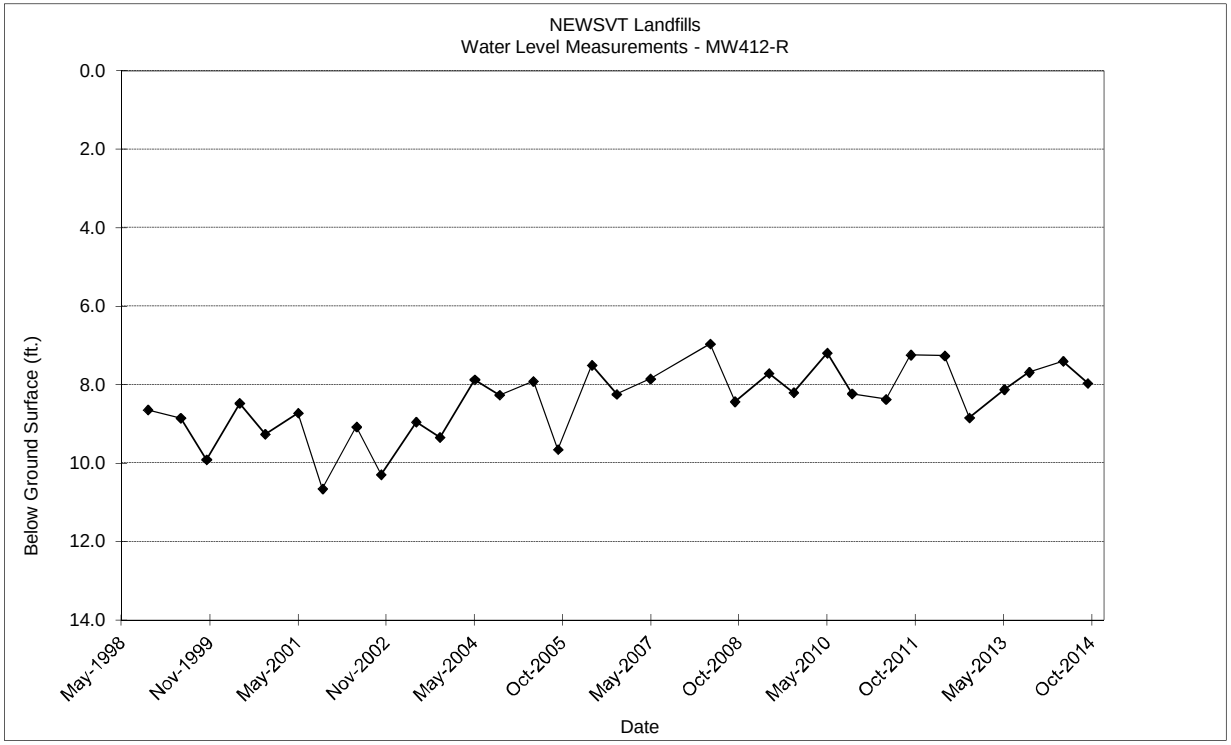
MW-412-R			
	DEPTH (FT)		ELEVATION
DATE	BTOP	BGS	FT.
10/13/1998	11.42	8.64	699.19
5/5/1999	11.63	8.85	698.98
10/12/1999	12.69	9.91	697.92
5/4/2000	11.25	8.47	699.36
10/10/2000	12.04	9.26	698.57
5/3/2001	11.50	8.72	699.11
10/2/2001	13.43	10.65	697.18
5/1/2002	11.85	9.07	698.76
10/1/2002	13.07	10.29	697.54
5/6/2003	11.73	8.95	698.88
10/1/2003	12.12	9.34	698.49
5/4/2004	10.65	7.87	699.96
10/5/2004	11.04	8.26	699.57
5/3/2005	10.69	7.91	699.92
10/3/2005	12.43	9.65	698.18
5/2/2006	10.28	7.50	700.33
10/3/2006	11.02	8.24	699.59
5/1/2007	10.63	7.85	699.98
10/4/2007	NR		
5/6/2008	9.74	6.96	700.87
10/6/2008	11.21	8.43	699.40
5/6/2009	10.49	7.71	700.12
10/6/2009	10.98	8.20	699.63
5/3/2010	9.97	7.19	700.64
10/4/2010	11.01	8.23	699.60
5/3/2011	11.15	8.37	699.46
10/4/2011	10.02	7.24	700.59
5/1/2012	10.04	7.26	700.57
10/2/2012	11.62	8.84	698.99
5/7/2013	10.90	8.12	699.71
10/8/2013	10.46	7.68	700.15
5/7/2014	10.18	7.40	700.43
10/7/2014	10.74	7.96	699.87

BGS = Below Ground Surface
BTOP = Below Top of Pipe (PVC)
F = Frozen at or near ground surface
GS = Ground surface
PVC = PVC well casing (inside)
TOC = Top of casing (outer casing)
NR = Not recorded
NM = Not measureed
Well Type: Characterized by WHEM (Shallow or Deep,
relative to Water Table;
Completed in Surficial Material, or Bedrock).

Well 412-R

Outer Casing Elev.	NM	Ft.
Elevation PVC TOC	710.61	Ft.
Elevation GS	707.83	Ft.
Outer Casing Stickup	NM	Ft.
PVC Stickup	2.78	Ft.
Well Depth BGS	36.5	Ft.
Well Bottom Elev.	671.33	Ft.
Screen Top Depth	20	Ft.
Screen Top Elev.	687.83	Ft.

WELL TYPE:
SHALLOW
Surficial



Waite-Heindel Environmental Management;
Revised: 11/3/14;
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Tab = WELL412-R.

NEWSVT - Water Levels

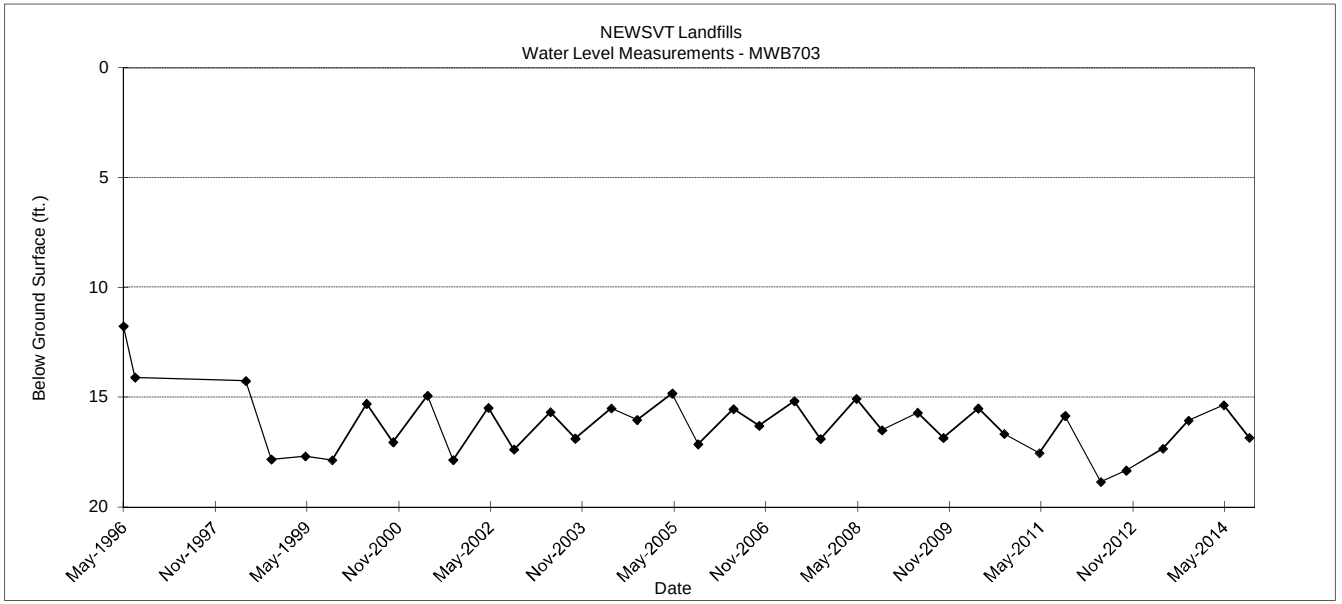
DATE	DEPTH (FT) BTOP	DEPTH (FT) BGS	ELEVATION FT.
5/14/1996	14.52	11.77	756.82
7/22/1996	16.85	14.10	754.49
9/27/1996	NR		
5/14/1998	17.02	14.27	754.32
10/13/1998	20.58	17.83	750.76
5/5/1999	20.44	17.69	750.90
10/12/1999	20.62	17.87	750.72
5/4/2000	18.05	15.30	753.29
10/10/2000	19.8	17.05	751.54
5/3/2001	17.69	14.94	753.65
10/2/2001	20.61	17.86	750.73
5/1/2002	18.24	15.49	753.10
10/1/2002	20.14	17.39	751.20
5/6/2003	18.43	15.68	752.91
10/1/2003	19.64	16.89	751.70
5/4/2004	18.26	15.51	753.08
10/5/2004	18.79	16.04	752.55
5/3/2005	17.58	14.83	753.76
10/3/2005	19.9	17.15	751.44
5/2/2006	18.3	15.55	753.04
10/3/2006	19.06	16.31	752.28
5/1/2007	17.93	15.18	753.41
10/4/2007	19.65	16.90	751.69
5/6/2008	17.83	15.08	753.51
10/6/2008	19.26	16.51	752.08
5/6/2009	18.46	15.71	752.88
10/6/2009	19.61	16.86	751.73
5/3/2010	18.27	15.52	753.07
10/4/2010	19.42	16.67	751.92
5/3/2011	20.30	17.55	751.04
10/4/2011	18.60	15.85	752.74
5/3/2012	21.61	18.86	749.73
10/2/2012	21.10	18.35	750.24
5/9/2013	20.10	17.35	751.24
10/9/2013	18.82	16.07	752.52
5/7/2014	18.12	15.37	753.22
10/6/2014	19.60	16.85	751.74

BGS = Below Ground Surface
BTOP = Below Top of Pipe (PVC)
GS = Ground surface
PVC = PVC well casing (inside)
TOC = Top of casing (outer casing)
* PVC Stickup is approximate
NM = Not measureed

Well B-703

Outer Casing Elev.	NM	Ft.
Elevation PVC TOC	771.34	Ft.
Elevation GS	768.59	Ft.
Outer Casing Stickup	NM	Ft.
PVC Stickup *	2.75	Ft.
Well Depth BGS	41.3	Ft.
Well Bottom Elev.	727.29	Ft.
Screen Top Depth	31.3	Ft.
Screen Top Elev.	737.29	Ft.

WELL TYPE:
DEEP
Surficial



Well Type: Characterized by WHEM (Shallow or Deep,
relative to Water Table;
Completed in Surficial Material, or Bedrock).

Waite-Heindel Environmental Management;
Revised: 11/3/14;
U:\PROJECTS - WHEM\NEWSVT\data_semi\wells.xlsx;
Tab = WELLB703.

NEWSVT - Water Level Measurements

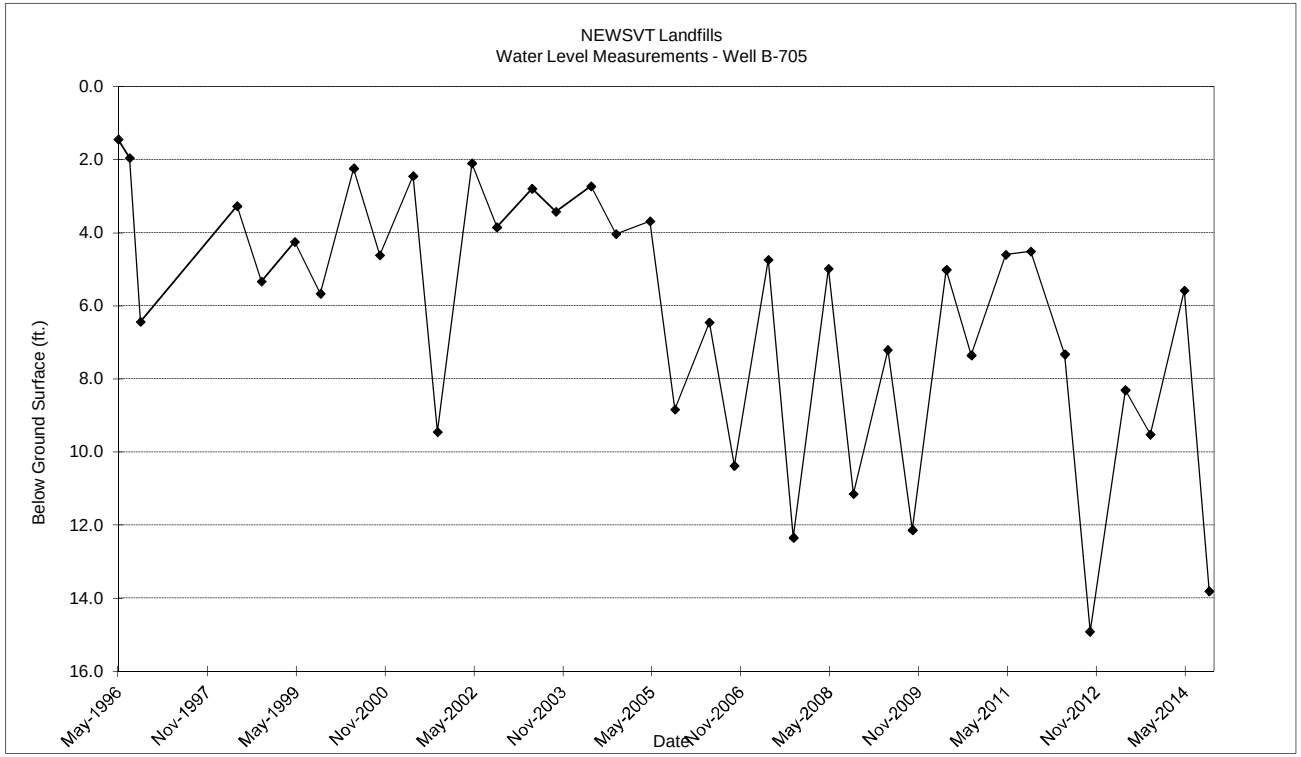
DATE	DEPTH (FT) BTOP	DEPTH (FT) BGS	ELEVATION FT.
5/14/1996	3.94	1.44	830.49
7/22/1996	4.45	1.95	829.98
9/27/1996	8.93	6.43	825.50
5/15/1998	5.77	3.27	828.66
10/13/1998	7.83	5.33	826.60
5/5/1999	6.75	4.25	827.68
10/12/1999	8.16	5.66	826.27
5/4/2000	4.74	2.24	829.69
10/10/2000	7.11	4.61	827.32
5/3/2001	4.95	2.45	829.48
10/2/2001	11.95	9.45	822.48
5/1/2002	4.6	2.10	829.83
10/1/2002	6.35	3.85	828.08
5/6/2003	5.29	2.79	829.14
10/1/2003	5.92	3.42	828.51
5/4/2004	5.23	2.73	829.20
10/5/2004	6.53	4.03	827.90
5/3/2005	6.18	3.68	828.25
10/3/2005	11.33	8.83	823.10
5/2/2006	8.95	6.45	825.48
10/3/2006	12.87	10.37	821.56
5/1/2007	7.24	4.74	827.19
10/4/2007	14.84	12.34	819.59
5/6/2008	7.48	4.98	826.95
10/6/2008	13.64	11.14	820.79
5/6/2009	9.7	7.20	824.73
10/6/2009	14.63	12.13	819.80
5/3/2010	7.51	5.01	826.92
10/4/2010	9.85	7.35	824.58
5/3/2011	7.10	4.60	827.33
10/5/2011	7.01	4.51	827.42
5/2/2012	9.82	7.32	824.61
10/3/2012	17.41	14.91	817.02
5/8/2013	10.80	8.30	823.63
10/9/2013	12.02	9.52	822.41
5/8/2014	8.08	5.58	826.35
10/7/2014	16.30	13.80	818.13

BGS = Below Ground Surface
BTOP = Below Top of Pipe (PVC)
GS = Ground surface
PVC = PVC well casing (inside)
TOC = Top of casing (outer casing)
NM = Not measureed

Well B-705

Outer Casing Elev.	NM	Ft.
Elevation PVC TOC	834.43	Ft.
Elevation GS	831.93	Ft.
Outer Casing Stickup	NM	Ft.
PVC Stickup	2.50	Ft.
Well Depth BGS	33	Ft.
Well Bottom Elev.	798.93	Ft.
Screen Top Depth	20	Ft.
Screen Top Elev.	811.93	Ft.

WELL TYPE:
SHALLOW
Surficial



Well Type: Characterized by WHEM (Shallow or Deep, relative to Water Table),
(Completed in Surficial Material, or Bedrock).

Waite-Heindel Environmental Management;
Revised: 11/3/14;
U:\PROJECTS - WHEM\NEWSVT\data_semi\wells.xlsx;
Tab = WELLB705.

NEWSVT - Water Level Measurements

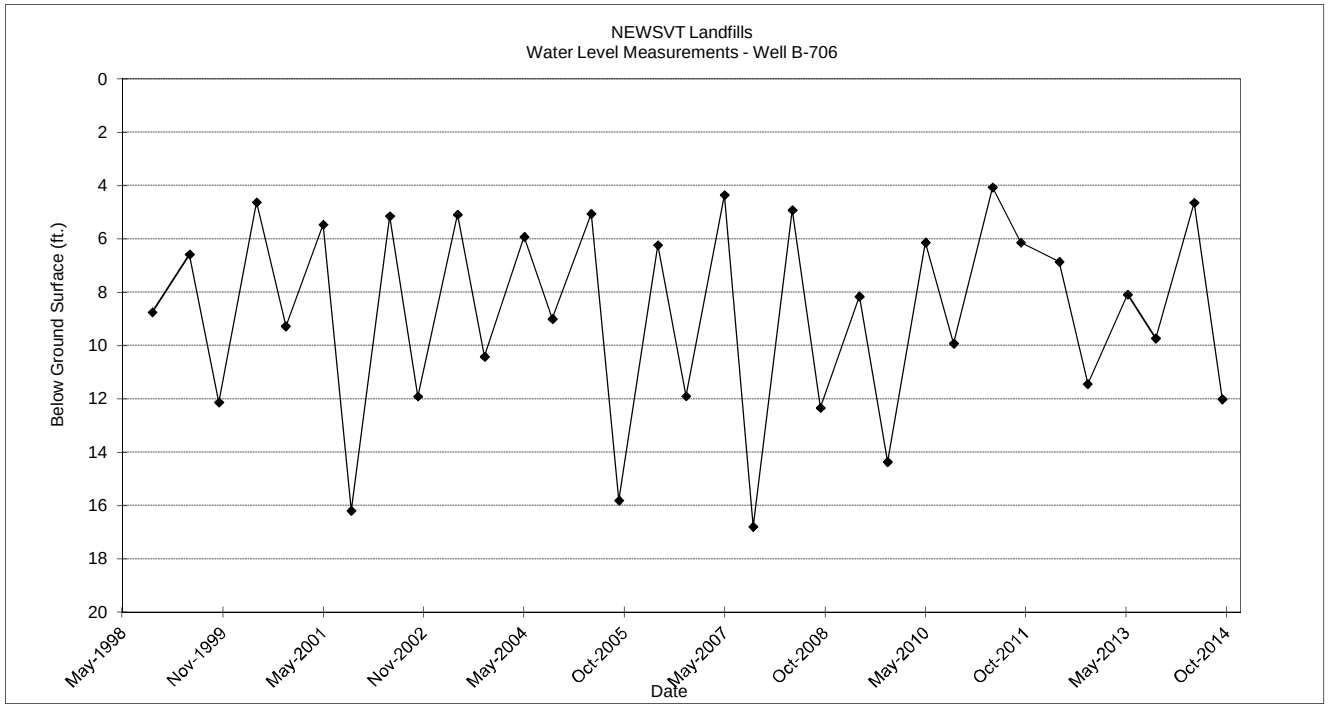
DATE	DEPTH (FT) BTOP	DEPTH (FT) BGS	ELEVATION FT.
10/13/1998	11.59	8.74	781.41
5/5/1999	9.42	6.57	783.58
10/12/1999	14.97	12.12	778.03
5/4/2000	7.47	4.62	785.53
10/10/2000	12.11	9.26	780.89
5/3/2001	8.3	5.45	784.70
10/2/2001	19.03	16.18	773.97
5/1/2002	7.98	5.13	785.02
10/1/2002	14.75	11.90	778.25
5/6/2003	7.93	5.08	785.07
10/1/2003	13.26	10.41	779.74
5/4/2004	8.76	5.91	784.24
10/5/2004	11.84	8.99	781.16
5/3/2005	7.90	5.05	785.10
10/3/2005	18.65	15.80	774.35
5/2/2006	9.07	6.22	783.93
10/3/2006	14.74	11.89	778.26
5/1/2007	7.19	4.34	785.81
10/4/2007	19.64	16.79	773.36
5/6/2008	7.76	4.91	785.24
10/6/2008	15.18	12.33	777.82
5/6/2009	11.00	8.15	782.00
10/6/2009	17.20	14.35	775.80
5/3/2010	8.97	6.12	784.03
10/4/2010	12.76	9.91	780.24
5/3/2011	6.90	4.05	786.10
10/4/2011	8.98	6.13	784.02
5/2/2012	9.70	6.85	783.30
10/3/2012	14.28	11.43	778.72
5/9/2013	10.93	8.08	782.07
10/9/2013	12.57	9.72	780.43
5/7/2014	7.48	4.63	785.52
10/7/2014	14.85	12.00	778.15

BGS = Below Ground Surface
BTOP = Below Top of Pipe (PVC)
GS = Ground surface
PVC = PVC well casing (inside)
TOC = Top of casing (outer casing)
NM = Not measureed
Well Type: Characterized by WHEM (Shallow or Deep,
relative to Water Table;
Completed in Surficial Material, or Bedrock).

Well B-706

Outer Casing Elev.	NM	Ft.
Elevation PVC TOC	793.00	Ft.
Elevation GS	790.15	Ft.
Outer Casing Stickup	NM	Ft.
PVC Stickup	2.85	Ft.
Well Depth BGS	36	Ft.
Well Bottom Elev.	754.15	Ft.
Screen Top Depth	NA	Ft.
Screen Top Elev.	NA	Ft.

WELL TYPE:
SHALLOW
Surficial



Waite-Heindel Environmental Management;
Revised: 11/3/14;
U:\PROJECTS - WHEM\NEWSVT\data_semi\wells.xlsx;
Tab = WELLB706.

APPENDIX 2

ENDYNE Inc.
Environmental Laboratories

Laboratory Report

WaiteHeindel Environmental Mgt 070338
7 Kilburn Street
Suite 301
Burlington, VT 05406
Atten: Miles Waite

PROJECT: NEWSVT LF Ground Water
WORK ORDER: **1410-21187**
DATE RECEIVED: October 09, 2014
DATE REPORTED: November 06, 2014
SAMPLER: Wendy/Stefan

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. All required method quality control elements including instrument calibration were performed in accordance with method requirements and determined to be acceptable unless otherwise noted.

The column labeled Lab/Tech in the accompanying report denotes the laboratory facility where the testing was performed and the technician who conducted the assay. A "W" designates the Williston, VT lab under NELAC certification ELAP 11263; "R" designates the Lebanon, NH facility under certification NH 2037 and "N" the Plattsburgh, NY lab under certification ELAP 11892. "Sub" indicates the testing was performed by a subcontracted laboratory. The accreditation status of the subcontracted lab is referenced in the corresponding NELAC and Qual fields.

The NELAC column also denotes the accreditation status of each laboratory for each reported parameter. "A" indicates the referenced laboratory is NELAC accredited for the parameter reported. "N" indicates the laboratory is not accredited. "U" indicates that NELAC does not offer accreditation for that parameter in that specific matrix. Test results denoted with an "A" meet all National Environmental Laboratory Accreditation Program requirements except where denoted by pertinent data qualifiers. Test results are representative of the samples as they were received at the laboratory

Endyne, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose.

Reviewed by:

Harry B. Locker, Ph.D.
Laboratory Director

CLIENT: WaiteHeindel Environmental Mgt
PROJECT: NEWSVT LF Ground Water
REPORT DATE: 11/6/2014

WORK ORDER: **1410-21187**
DATE RECEIVED: 10/09/2014

001 Site: A-1 Date Sampled: 10/6/14 Time: 17:01

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Chloride	88	mg/L	SM 4500-Cl-E	10/14/14	N JGM	A	
COD	45	mg/L	Hach8000/EPA410.4	10/14/14	N JGM	A	
Antimony, Total	< 0.002	mg/L	SM 3113B-04	10/23/14	W CM	A	
Arsenic, Total	0.027	mg/L	SM 3113B-04	10/16/14	W CM	A	
Barium, Total	0.027	mg/L	EPA 200.7	10/15/14	W RGT	A	
Beryllium, Total	< 0.001	mg/L	EPA 200.7	10/15/14	W RGT	A	
Cadmium, Total	< 0.002	mg/L	EPA 200.7	10/15/14	W RGT	A	
Chromium, Total	< 0.005	mg/L	EPA 200.7	10/15/14	W RGT	A	
Cobalt, Total	< 0.020	mg/L	EPA 200.7	10/15/14	W RGT	A	
Copper, Total	< 0.020	mg/L	EPA 200.7	10/15/14	W RGT	A	
Iron, Dissolved	4.2	mg/L	EPA 200.7	10/21/14	W RGT	A	
Iron, Total	5.5	mg/L	EPA 200.7	10/15/14	W RGT	A	
Lead, Total	< 0.001	mg/L	SM 3113B-04	10/27/14	W CM	A	
Manganese, Dissolved	0.46	mg/L	EPA 200.7	10/21/14	W RGT	A	
Manganese, Total	0.54	mg/L	EPA 200.7	10/15/14	W RGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	10/20/14	W EER	A	
Nickel, Total	0.011	mg/L	EPA 200.7	10/15/14	W RGT	A	
Selenium, Total	< 0.002	mg/L	SM20 3113B	10/15/14	W CM	A	
Silver, Total	< 0.020	mg/L	EPA 200.7	10/15/14	W RGT	A	
Sodium, Total	74	mg/L	EPA 200.7	10/15/14	W RGT	A	
Thallium, Total	< 0.001	mg/L	SM 3113B-04	10/23/14	W CM	A	
Vanadium, Total	< 0.020	mg/L	EPA 200.7	10/15/14	W RGT	A	
Zinc, Total	< 0.020	mg/L	EPA 200.7	10/15/14	W RGT	A	

002 Site: B-1 Date Sampled: 10/6/14 Time: 14:55

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Chloride	2.7	mg/L	SM 4500-Cl-E	10/14/14	N JGM	A	
COD	< 10	mg/L	Hach8000/EPA410.4	10/14/14	N JGM	A	
Antimony, Total	< 0.002	mg/L	SM 3113B-04	10/23/14	W CM	A	
Arsenic, Total	0.022	mg/L	SM 3113B-04	10/16/14	W CM	A	
Barium, Total	< 0.020	mg/L	EPA 200.7	10/15/14	W RGT	A	
Beryllium, Total	< 0.001	mg/L	EPA 200.7	10/15/14	W RGT	A	
Cadmium, Total	< 0.002	mg/L	EPA 200.7	10/15/14	W RGT	A	
Chromium, Total	< 0.005	mg/L	EPA 200.7	10/15/14	W RGT	A	
Cobalt, Total	< 0.020	mg/L	EPA 200.7	10/15/14	W RGT	A	
Copper, Total	< 0.020	mg/L	EPA 200.7	10/15/14	W RGT	A	
Iron, Dissolved	0.14	mg/L	EPA 200.7	10/21/14	W RGT	A	
Iron, Total	0.16	mg/L	EPA 200.7	10/15/14	W RGT	A	
Lead, Total	< 0.001	mg/L	SM 3113B-04	10/27/14	W CM	A	
Manganese, Dissolved	0.048	mg/L	EPA 200.7	10/21/14	W RGT	A	
Manganese, Total	0.049	mg/L	EPA 200.7	10/15/14	W RGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	10/20/14	W EER	A	
Nickel, Total	< 0.005	mg/L	EPA 200.7	10/15/14	W RGT	A	

CLIENT: WaiteHeindel Environmental Mgt
PROJECT: NEWSVT LF Ground Water
REPORT DATE: 11/6/2014

WORK ORDER: **1410-21187**
DATE RECEIVED: 10/09/2014

002 Site: B-1 Date Sampled: 10/6/14 Time: 14:55

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Selenium, Total	< 0.002	mg/L	SM20 3113B	10/15/14	W CM	A	
Silver, Total	< 0.020	mg/L	EPA 200.7	10/15/14	W RGT	A	
Sodium, Total	6.9	mg/L	EPA 200.7	10/15/14	W RGT	A	
Thallium, Total	< 0.001	mg/L	SM 3113B-04	10/23/14	W CM	A	
Vanadium, Total	< 0.020	mg/L	EPA 200.7	10/15/14	W RGT	A	
Zinc, Total	< 0.020	mg/L	EPA 200.7	10/15/14	W RGT	A	

003 Site: D1R Date Sampled: 10/6/14 Time: 11:03

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Chloride	< 2.5	mg/L	SM 4500-Cl-E	10/14/14	N JGM	A	
COD	13	mg/L	Hach8000/EPA410.4	10/14/14	N JGM	A	
Antimony, Total	< 0.002	mg/L	SM 3113B-04	10/23/14	W CM	A	
Arsenic, Total	0.023	mg/L	EPA 200.7	10/21/14	W EEP	N	
Barium, Total	< 0.020	mg/L	EPA 200.7	10/21/14	W RGT	A	
Beryllium, Total	< 0.001	mg/L	EPA 200.7	10/21/14	W RGT	A	
Cadmium, Total	< 0.002	mg/L	EPA 200.7	10/21/14	W RGT	A	
Chromium, Total	< 0.005	mg/L	EPA 200.7	10/21/14	W RGT	A	
Cobalt, Total	< 0.020	mg/L	EPA 200.7	10/21/14	W RGT	A	
Copper, Total	< 0.020	mg/L	EPA 200.7	10/21/14	W RGT	A	
Iron, Dissolved	0.30	mg/L	EPA 200.7	10/20/14	W RGT	A	
Iron, Total	0.44	mg/L	EPA 200.7	10/21/14	W RGT	A	
Lead, Total	< 0.001	mg/L	SM 3113B-04	10/27/14	W CM	A	
Manganese, Dissolved	0.47	mg/L	EPA 200.7	10/20/14	W RGT	A	
Manganese, Total	0.53	mg/L	EPA 200.7	10/21/14	W RGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	10/20/14	W EER	A	
Nickel, Total	0.006	mg/L	EPA 200.7	10/21/14	W RGT	A	
Selenium, Total	< 0.002	mg/L	SM20 3113B	10/15/14	W CM	A	
Silver, Total	< 0.020	mg/L	EPA 200.7	10/21/14	W RGT	A	
Sodium, Total	11	mg/L	EPA 200.7	10/21/14	W RGT	A	
Thallium, Total	< 0.001	mg/L	SM 3113B-04	10/23/14	W CM	A	
Vanadium, Total	< 0.020	mg/L	EPA 200.7	10/21/14	W RGT	A	
Zinc, Total	< 0.020	mg/L	EPA 200.7	10/21/14	W RGT	A	

004 Site: D2 Date Sampled: 10/6/14 Time: 11:47

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Chloride	250	mg/L	SM 4500-Cl-E	10/14/14	N JGM	A	
COD	4600	mg/L	Hach8000/EPA410.4	10/14/14	N JGM	A	
Antimony, Total	0.003	mg/L	SM 3113B-04	10/23/14	W CM	A	
Arsenic, Total	0.68	mg/L	EPA 200.7	10/21/14	W RGT	N	
Barium, Total	< 0.20	mg/L	EPA 200.7	10/21/14	W RGT	A	
Beryllium, Total	< 0.01	mg/L	EPA 200.7	10/21/14	W RGT	A	
Cadmium, Total	< 0.02	mg/L	EPA 200.7	10/21/14	W RGT	A	
Chromium, Total	< 0.05	mg/L	EPA 200.7	10/21/14	W RGT	A	

CLIENT: WaiteHeindel Environmental Mgt
PROJECT: NEWSVT LF Ground Water
REPORT DATE: 11/6/2014

WORK ORDER: **1410-21187**
DATE RECEIVED: 10/09/2014

004 Site: D2 Date Sampled: 10/6/14 Time: 11:47

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Cobalt, Total	< 0.20	mg/L	EPA 200.7	10/21/14	W RGT	A	
Copper, Total	< 0.20	mg/L	EPA 200.7	10/21/14	W RGT	A	
Iron, Dissolved	4.5	mg/L	EPA 200.7	10/21/14	W RGT	A	
Iron, Total	24	mg/L	EPA 200.7	10/21/14	W RGT	A	
Lead, Total	< 0.001	mg/L	SM 3113B-04	10/27/14	W CM	A	M-
Manganese, Dissolved	2.8	mg/L	EPA 200.7	10/21/14	W RGT	A	
Manganese, Total	2.9	mg/L	EPA 200.7	10/21/14	W RGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	10/20/14	W EER	A	
Nickel, Total	0.28	mg/L	EPA 200.7	10/21/14	W RGT	A	
Selenium, Total	< 0.002	mg/L	SM20 3113B	10/15/14	W CM	A	
Silver, Total	< 0.20	mg/L	EPA 200.7	10/21/14	W RGT	A	
Sodium, Total	980	mg/L	EPA 200.7	10/21/14	W RGT	A	
Thallium, Total	< 0.001	mg/L	SM 3113B-04	10/23/14	W CM	A	M-
Vanadium, Total	< 0.20	mg/L	EPA 200.7	10/21/14	W RGT	A	
Zinc, Total	< 0.20	mg/L	EPA 200.7	10/21/14	W RGT	A	

005 Site: P2R Date Sampled: 10/6/14 Time: 15:30

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Chloride	550	mg/L	SM 4500-Cl-E	10/14/14	N JGM	A	
COD	170	mg/L	Hach8000/EPA410.4	10/14/14	N JGM	A	
Antimony, Total	< 0.002	mg/L	SM 3113B-04	10/23/14	W CM	A	
Arsenic, Total	0.47	mg/L	EPA 200.7	11/4/14	W RGT	N	
Barium, Total	0.28	mg/L	EPA 200.7	11/4/14	W RGT	A	
Beryllium, Total	< 0.001	mg/L	EPA 200.7	11/4/14	W RGT	A	
Cadmium, Total	< 0.002	mg/L	EPA 200.7	11/4/14	W RGT	A	
Chromium, Total	0.062	mg/L	EPA 200.7	11/4/14	W RGT	A	
Cobalt, Total	0.022	mg/L	EPA 200.7	11/4/14	W RGT	A	
Copper, Total	0.025	mg/L	EPA 200.7	11/4/14	W RGT	A	
Iron, Dissolved	34	mg/L	EPA 200.7	10/21/14	W RGT	A	
Iron, Total	63	mg/L	EPA 200.7	11/4/14	W RGT	A	
Lead, Total	0.006	mg/L	SM 3113B-04	10/27/14	W CM	A	
Manganese, Dissolved	0.67	mg/L	EPA 200.7	10/21/14	W RGT	A	
Manganese, Total	0.97	mg/L	EPA 200.7	11/4/14	W RGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	10/20/14	W EER	A	
Nickel, Total	0.17	mg/L	EPA 200.7	11/4/14	W RGT	A	
Selenium, Total	< 0.002	mg/L	SM20 3113B	10/15/14	W CM	A	
Silver, Total	< 0.020	mg/L	EPA 200.7	11/4/14	W RGT	A	
Sodium, Total	220	mg/L	EPA 200.7	11/4/14	W RGT	A	
Thallium, Total	< 0.001	mg/L	SM 3113B-04	10/23/14	W CM	A	
Vanadium, Total	0.025	mg/L	EPA 200.7	11/4/14	W RGT	A	
Zinc, Total	0.070	mg/L	EPA 200.7	11/4/14	W RGT	A	

006 Site: P5 Date Sampled: 10/6/14 Time: 16:20

CLIENT: WaiteHeindel Environmental Mgt
PROJECT: NEWSVT LF Ground Water
REPORT DATE: 11/6/2014

WORK ORDER: **1410-21187**
DATE RECEIVED: 10/09/2014

006 Site: P5 Date Sampled: 10/6/14 Time: 16:20

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Chloride	2.5	mg/L	SM 4500-Cl-E	10/14/14	N JGM	A	
COD	10	mg/L	Hach8000/EPA410.4	10/14/14	N JGM	A	
Antimony, Total	< 0.002	mg/L	SM 3113B-04	10/23/14	W CM	A	
Arsenic, Total	0.002	mg/L	SM 3113B-04	10/27/14	W CM	A	
Barium, Total	< 0.020	mg/L	EPA 200.7	10/20/14	W RGT	A	
Beryllium, Total	< 0.001	mg/L	EPA 200.7	10/20/14	W RGT	A	
Cadmium, Total	< 0.002	mg/L	EPA 200.7	10/20/14	W RGT	A	
Chromium, Total	< 0.005	mg/L	EPA 200.7	10/20/14	W RGT	A	
Cobalt, Total	< 0.020	mg/L	EPA 200.7	10/20/14	W RGT	A	
Copper, Total	< 0.020	mg/L	EPA 200.7	10/20/14	W RGT	A	
Iron, Dissolved	< 0.020	mg/L	EPA 200.7	10/21/14	W RGT	A	
Iron, Total	0.027	mg/L	EPA 200.7	10/20/14	W RGT	A	
Lead, Total	< 0.001	mg/L	SM 3113B-04	10/27/14	W CM	A	
Manganese, Dissolved	0.14	mg/L	EPA 200.7	10/21/14	W RGT	A	
Manganese, Total	0.16	mg/L	EPA 200.7	10/20/14	W RGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	10/20/14	W EER	A	
Nickel, Total	< 0.005	mg/L	EPA 200.7	10/20/14	W RGT	A	
Selenium, Total	< 0.002	mg/L	SM20 3113B	10/16/14	W CM	A	
Silver, Total	< 0.020	mg/L	EPA 200.7	10/20/14	W RGT	A	
Sodium, Total	5.2	mg/L	EPA 200.7	10/21/14	W RGT	A	
Thallium, Total	< 0.001	mg/L	SM 3113B-04	10/23/14	W CM	A	
Vanadium, Total	< 0.020	mg/L	EPA 200.7	10/20/14	W RGT	A	
Zinc, Total	< 0.020	mg/L	EPA 200.7	10/20/14	W RGT	A	

007 Site: P6 Date Sampled: 10/7/14 Time: 15:23

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Chloride	2.5	mg/L	SM 4500-Cl-E	10/14/14	N JGM	A	
COD	13	mg/L	Hach8000/EPA410.4	10/14/14	N JGM	A	
Antimony, Total	< 0.002	mg/L	SM 3113B-04	10/23/14	W CM	A	
Arsenic, Total	< 0.001	mg/L	SM 3113B-04	10/25/14	W CM	A	
Barium, Total	< 0.020	mg/L	EPA 200.7	10/20/14	W RGT	A	
Beryllium, Total	< 0.001	mg/L	EPA 200.7	10/20/14	W RGT	A	
Cadmium, Total	< 0.002	mg/L	EPA 200.7	10/20/14	W RGT	A	
Chromium, Total	< 0.005	mg/L	EPA 200.7	10/20/14	W RGT	A	
Cobalt, Total	< 0.020	mg/L	EPA 200.7	10/20/14	W RGT	A	
Copper, Total	< 0.020	mg/L	EPA 200.7	10/20/14	W RGT	A	
Iron, Dissolved	0.14	mg/L	EPA 200.7	10/21/14	W RGT	A	
Iron, Total	15	mg/L	EPA 200.7	10/20/14	W RGT	A	
Lead, Total	0.001	mg/L	SM 3113B-04	10/27/14	W CM	A	
Manganese, Dissolved	0.20	mg/L	EPA 200.7	10/21/14	W RGT	A	
Manganese, Total	0.27	mg/L	EPA 200.7	10/20/14	W RGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	10/20/14	W EER	A	
Nickel, Total	0.006	mg/L	EPA 200.7	10/20/14	W RGT	A	

CLIENT: WaiteHeindel Environmental Mgt
PROJECT: NEWSVT LF Ground Water
REPORT DATE: 11/6/2014

WORK ORDER: **1410-21187**
DATE RECEIVED: 10/09/2014

007 Site: P6 Date Sampled: 10/7/14 Time: 15:23

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Selenium, Total	< 0.002	mg/L	SM20 3113B	10/16/14	W CM	A	
Silver, Total	< 0.020	mg/L	EPA 200.7	10/20/14	W RGT	A	
Sodium, Total	4.4	mg/L	EPA 200.7	10/20/14	W RGT	A	AN1
Thallium, Total	< 0.001	mg/L	SM 3113B-04	10/24/14	W CM	A	
Vanadium, Total	< 0.020	mg/L	EPA 200.7	10/20/14	W RGT	A	
Zinc, Total	< 0.020	mg/L	EPA 200.7	10/20/14	W RGT	A	

008 Site: BRW-3S Date Sampled: 10/7/14 Time: 10:03

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Chloride	< 2.5	mg/L	SM 4500-Cl-E	10/14/14	N JGM	A	
COD	12	mg/L	Hach8000/EPA410.4	10/14/14	N JGM	A	
Antimony, Total	< 0.002	mg/L	SM 3113B-04	11/1/14	W CM	A	
Arsenic, Total	< 0.001	mg/L	SM 3113B-04	10/25/14	W CM	A	
Barium, Total	< 0.020	mg/L	EPA 200.7	10/20/14	W RGT	A	
Beryllium, Total	< 0.001	mg/L	EPA 200.7	10/20/14	W RGT	A	
Cadmium, Total	< 0.002	mg/L	EPA 200.7	10/20/14	W RGT	A	
Chromium, Total	< 0.005	mg/L	EPA 200.7	10/20/14	W RGT	A	
Cobalt, Total	< 0.020	mg/L	EPA 200.7	10/20/14	W RGT	A	
Copper, Total	< 0.020	mg/L	EPA 200.7	10/20/14	W RGT	A	
Iron, Dissolved	< 0.020	mg/L	EPA 200.7	10/21/14	W RGT	A	
Iron, Total	0.022	mg/L	EPA 200.7	10/20/14	W RGT	A	
Lead, Total	< 0.001	mg/L	SM 3113B-04	10/27/14	W CM	A	
Manganese, Dissolved	0.074	mg/L	EPA 200.7	10/21/14	W RGT	A	
Manganese, Total	0.071	mg/L	EPA 200.7	10/20/14	W RGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	10/20/14	W EER	A	
Nickel, Total	< 0.005	mg/L	EPA 200.7	10/20/14	W RGT	A	
Selenium, Total	< 0.002	mg/L	SM20 3113B	10/16/14	W CM	A	
Silver, Total	< 0.020	mg/L	EPA 200.7	10/20/14	W RGT	A	
Sodium, Total	6.2	mg/L	EPA 200.7	10/20/14	W RGT	A	
Thallium, Total	< 0.001	mg/L	SM 3113B-04	10/24/14	W CM	A	
Vanadium, Total	< 0.020	mg/L	EPA 200.7	10/20/14	W RGT	A	
Zinc, Total	< 0.020	mg/L	EPA 200.7	10/20/14	W RGT	A	

009 Site: 409 Date Sampled: 10/7/14 Time: 16:26

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Chloride	6.0	mg/L	SM 4500-Cl-E	10/14/14	N JGM	A	
COD	33	mg/L	Hach8000/EPA410.4	10/14/14	N JGM	A	
Antimony, Total	< 0.002	mg/L	SM 3113B-04	11/1/14	W CM	A	
Arsenic, Total	0.002	mg/L	SM 3113B-04	10/25/14	W CM	A	
Barium, Total	< 0.020	mg/L	EPA 200.7	10/20/14	W RGT	A	
Beryllium, Total	< 0.001	mg/L	EPA 200.7	10/20/14	W RGT	A	
Cadmium, Total	< 0.002	mg/L	EPA 200.7	10/20/14	W RGT	A	
Chromium, Total	< 0.005	mg/L	EPA 200.7	10/20/14	W RGT	A	

CLIENT: WaiteHeindel Environmental Mgt
PROJECT: NEWSVT LF Ground Water
REPORT DATE: 11/6/2014

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009 Site: 409 Date Sampled: 10/7/14 Time: 16:26

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Cobalt, Total	< 0.020	mg/L	EPA 200.7	10/20/14	W RGT	A	
Copper, Total	< 0.020	mg/L	EPA 200.7	10/20/14	W RGT	A	
Iron, Dissolved	< 0.020	mg/L	EPA 200.7	10/21/14	W RGT	A	
Iron, Total	2.3	mg/L	EPA 200.7	10/20/14	W RGT	A	
Lead, Total	0.001	mg/L	SM 3113B-04	10/27/14	W CM	A	
Manganese, Dissolved	< 0.020	mg/L	EPA 200.7	10/21/14	W RGT	A	
Manganese, Total	0.22	mg/L	EPA 200.7	10/20/14	W RGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	10/20/14	W EER	A	
Nickel, Total	0.009	mg/L	EPA 200.7	10/20/14	W RGT	A	
Selenium, Total	< 0.002	mg/L	SM20 3113B	10/16/14	W CM	A	
Silver, Total	< 0.020	mg/L	EPA 200.7	10/20/14	W RGT	A	
Sodium, Total	2.8	mg/L	EPA 200.7	10/20/14	W RGT	A	AN1
Thallium, Total	< 0.001	mg/L	SM 3113B-04	10/24/14	W CM	A	
Vanadium, Total	< 0.020	mg/L	EPA 200.7	10/20/14	W RGT	A	
Zinc, Total	< 0.020	mg/L	EPA 200.7	10/20/14	W RGT	A	

010 Site: 703 Date Sampled: 10/6/14 Time: 17:17

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Chloride	5.8	mg/L	SM 4500-Cl-E	10/14/14	N JGM	A	
COD	35	mg/L	Hach8000/EPA410.4	10/14/14	N JGM	A	
Antimony, Total	< 0.002	mg/L	SM 3113B-04	11/1/14	W CM	A	
Arsenic, Total	0.006	mg/L	SM 3113B-04	10/25/14	W CM	A	
Barium, Total	0.027	mg/L	EPA 200.7	10/20/14	W RGT	A	
Beryllium, Total	< 0.001	mg/L	EPA 200.7	10/20/14	W RGT	A	
Cadmium, Total	< 0.002	mg/L	EPA 200.7	10/20/14	W RGT	A	
Chromium, Total	< 0.005	mg/L	EPA 200.7	10/20/14	W RGT	A	
Cobalt, Total	< 0.020	mg/L	EPA 200.7	10/20/14	W RGT	A	
Copper, Total	< 0.020	mg/L	EPA 200.7	10/20/14	W RGT	A	
Iron, Dissolved	< 0.020	mg/L	EPA 200.7	10/21/14	W RGT	A	
Iron, Total	0.29	mg/L	EPA 200.7	10/20/14	W RGT	A	
Lead, Total	< 0.001	mg/L	SM 3113B-04	10/27/14	W CM	A	
Manganese, Dissolved	0.21	mg/L	EPA 200.7	10/21/14	W RGT	A	
Manganese, Total	1.8	mg/L	EPA 200.7	10/20/14	W RGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	10/20/14	W EER	A	
Nickel, Total	< 0.005	mg/L	EPA 200.7	10/20/14	W RGT	A	
Selenium, Total	< 0.002	mg/L	SM20 3113B	10/16/14	W CM	A	
Silver, Total	< 0.020	mg/L	EPA 200.7	10/20/14	W RGT	A	
Sodium, Total	6.2	mg/L	EPA 200.7	10/20/14	W RGT	A	
Thallium, Total	< 0.001	mg/L	SM 3113B-04	10/24/14	W CM	A	
Vanadium, Total	< 0.020	mg/L	EPA 200.7	10/20/14	W RGT	A	
Zinc, Total	< 0.020	mg/L	EPA 200.7	10/20/14	W RGT	A	

011 Site: 412R Date Sampled: 10/7/14 Time: 11:31

CLIENT: WaiteHeindel Environmental Mgt
PROJECT: NEWSVT LF Ground Water
REPORT DATE: 11/6/2014

WORK ORDER: **1410-21187**
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011 Site: 412R — Date Sampled: 10/7/14 — Time: 11:31

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Chloride	15	mg/L	SM 4500-Cl-E	10/14/14	N JGM	A	
COD	61	mg/L	Hach8000/EPA410.4	10/14/14	N JGM	A	
Antimony, Total	< 0.002	mg/L	SM 3113B-04	10/30/14	W CM	A	
Arsenic, Total	0.016	mg/L	SM 3113B-04	10/25/14	W CM	A	
Barium, Total	0.067	mg/L	EPA 200.7	10/20/14	W RGT	A	
Beryllium, Total	< 0.001	mg/L	EPA 200.7	10/20/14	W RGT	A	
Cadmium, Total	< 0.002	mg/L	EPA 200.7	10/20/14	W RGT	A	
Chromium, Total	< 0.005	mg/L	EPA 200.7	10/20/14	W RGT	A	
Cobalt, Total	< 0.020	mg/L	EPA 200.7	10/20/14	W RGT	A	
Copper, Total	< 0.020	mg/L	EPA 200.7	10/20/14	W RGT	A	
Iron, Dissolved	9.6	mg/L	EPA 200.7	10/21/14	W RGT	A	
Iron, Total	9.4	mg/L	EPA 200.7	10/20/14	W RGT	A	
Lead, Total	< 0.001	mg/L	SM 3113B-04	10/27/14	W CM	A	
Manganese, Dissolved	0.82	mg/L	EPA 200.7	10/21/14	W RGT	A	
Manganese, Total	0.78	mg/L	EPA 200.7	10/20/14	W RGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	10/20/14	W EER	A	
Nickel, Total	< 0.005	mg/L	EPA 200.7	10/20/14	W RGT	A	
Selenium, Total	< 0.002	mg/L	SM20 3113B	10/16/14	W CM	A	
Silver, Total	< 0.020	mg/L	EPA 200.7	10/20/14	W RGT	A	
Sodium, Total	8.8	mg/L	EPA 200.7	10/20/14	W RGT	A	
Thallium, Total	< 0.001	mg/L	SM 3113B-04	10/23/14	W CM	A	
Vanadium, Total	< 0.020	mg/L	EPA 200.7	10/20/14	W RGT	A	
Zinc, Total	< 0.020	mg/L	EPA 200.7	10/20/14	W RGT	A	

012 Site: 705 — Date Sampled: 10/7/14 — Time: 16:32

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Chloride	97	mg/L	SM 4500-Cl-E	10/14/14	N JGM	A	
COD	18	mg/L	Hach8000/EPA410.4	10/14/14	N JGM	A	
Antimony, Total	< 0.002	mg/L	SM 3113B-04	10/30/14	W CM	A	
Arsenic, Total	0.011	mg/L	SM 3113B-04	10/25/14	W CM	A	
Barium, Total	< 0.020	mg/L	EPA 200.7	10/20/14	W RGT	A	
Beryllium, Total	< 0.001	mg/L	EPA 200.7	10/20/14	W RGT	A	
Cadmium, Total	< 0.002	mg/L	EPA 200.7	10/20/14	W RGT	A	
Chromium, Total	< 0.005	mg/L	EPA 200.7	10/20/14	W RGT	A	
Cobalt, Total	< 0.020	mg/L	EPA 200.7	10/20/14	W RGT	A	
Copper, Total	< 0.020	mg/L	EPA 200.7	10/20/14	W RGT	A	
Iron, Dissolved	0.10	mg/L	EPA 200.7	10/21/14	W RGT	A	
Iron, Total	0.81	mg/L	EPA 200.7	10/20/14	W RGT	A	
Lead, Total	< 0.001	mg/L	SM 3113B-04	10/27/14	W CM	A	
Manganese, Dissolved	0.22	mg/L	EPA 200.7	10/21/14	W RGT	A	
Manganese, Total	0.36	mg/L	EPA 200.7	10/20/14	W RGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	10/20/14	W EER	A	
Nickel, Total	< 0.005	mg/L	EPA 200.7	10/20/14	W RGT	A	

CLIENT: WaiteHeindel Environmental Mgt
PROJECT: NEWSVT LF Ground Water
REPORT DATE: 11/6/2014

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012 Site: 705 Date Sampled: 10/7/14 Time: 16:32

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Selenium, Total	< 0.002	mg/L	SM20 3113B	10/16/14	W CM	A	
Silver, Total	< 0.020	mg/L	EPA 200.7	10/20/14	W RGT	A	
Sodium, Total	6.3	mg/L	EPA 200.7	10/20/14	W RGT	A	
Thallium, Total	< 0.001	mg/L	SM 3113B-04	10/23/14	W CM	A	
Vanadium, Total	< 0.020	mg/L	EPA 200.7	10/20/14	W RGT	A	
Zinc, Total	< 0.020	mg/L	EPA 200.7	10/20/14	W RGT	A	

013 Site: 706 Date Sampled: 10/7/14 Time: 14:57

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Chloride	10	mg/L	SM 4500-Cl-E	10/14/14	N JGM	A	
COD	27	mg/L	Hach8000/EPA410.4	10/14/14	N JGM	A	
Antimony, Total	< 0.002	mg/L	SM 3113B-04	11/1/14	W CM	A	
Arsenic, Total	0.006	mg/L	SM 3113B-04	10/25/14	W CM	A	
Barium, Total	< 0.020	mg/L	EPA 200.7	10/20/14	W RGT	A	
Beryllium, Total	< 0.001	mg/L	EPA 200.7	10/20/14	W RGT	A	
Cadmium, Total	< 0.002	mg/L	EPA 200.7	10/20/14	W RGT	A	
Chromium, Total	< 0.005	mg/L	EPA 200.7	10/20/14	W RGT	A	
Cobalt, Total	< 0.020	mg/L	EPA 200.7	10/20/14	W RGT	A	
Copper, Total	< 0.020	mg/L	EPA 200.7	10/20/14	W RGT	A	
Iron, Dissolved	< 0.020	mg/L	EPA 200.7	10/21/14	W RGT	A	
Iron, Total	0.51	mg/L	EPA 200.7	10/20/14	W RGT	A	
Lead, Total	< 0.001	mg/L	SM 3113B-04	10/27/14	W CM	A	
Manganese, Dissolved	0.070	mg/L	EPA 200.7	10/21/14	W RGT	A	
Manganese, Total	2.3	mg/L	EPA 200.7	10/20/14	W RGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	10/20/14	W EER	A	
Nickel, Total	< 0.005	mg/L	EPA 200.7	10/20/14	W RGT	A	
Selenium, Total	< 0.002	mg/L	SM20 3113B	10/16/14	W CM	A	
Silver, Total	< 0.020	mg/L	EPA 200.7	10/20/14	W RGT	A	
Sodium, Total	6.8	mg/L	EPA 200.7	10/20/14	W RGT	A	
Thallium, Total	< 0.001	mg/L	SM 3113B-04	10/23/14	W CM	A	
Vanadium, Total	< 0.020	mg/L	EPA 200.7	10/20/14	W RGT	A	
Zinc, Total	< 0.020	mg/L	EPA 200.7	10/20/14	W RGT	A	

014 Site: DW-21 Date Sampled: 10/8/14 Time: 8:45

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Chloride	23	mg/L	SM 4500-Cl-E	10/14/14	N JGM	A	
COD	25	mg/L	Hach8000/EPA410.4	10/14/14	N JGM	A	
Antimony, Total	< 0.002	mg/L	SM 3113B-04	11/1/14	W CM	A	
Arsenic, Total	< 0.001	mg/L	SM 3113B-04	10/25/14	W CM	A	
Barium, Total	< 0.020	mg/L	EPA 200.7	10/20/14	W RGT	A	
Beryllium, Total	< 0.001	mg/L	EPA 200.7	10/20/14	W RGT	A	
Cadmium, Total	< 0.002	mg/L	EPA 200.7	10/20/14	W RGT	A	
Chromium, Total	< 0.005	mg/L	EPA 200.7	10/20/14	W RGT	A	

CLIENT: WaiteHeindel Environmental Mgt
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REPORT DATE: 11/6/2014

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014 Site: DW-21 Date Sampled: 10/8/14 Time: 8:45

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Cobalt, Total	< 0.020	mg/L	EPA 200.7	10/20/14	W RGT	A	
Copper, Total	< 0.020	mg/L	EPA 200.7	10/20/14	W RGT	A	
Iron, Dissolved	< 0.020	mg/L	EPA 200.7	10/21/14	W RGT	A	
Iron, Total	0.028	mg/L	EPA 200.7	10/20/14	W RGT	A	
Lead, Total	0.001	mg/L	SM 3113B-04	10/27/14	W CM	A	
Manganese, Dissolved	< 0.020	mg/L	EPA 200.7	10/21/14	W RGT	A	
Manganese, Total	< 0.020	mg/L	EPA 200.7	10/20/14	W RGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	10/20/14	W EER	A	
Nickel, Total	< 0.005	mg/L	EPA 200.7	10/20/14	W RGT	A	
Selenium, Total	< 0.002	mg/L	SM20 3113B	10/16/14	W CM	A	
Silver, Total	< 0.020	mg/L	EPA 200.7	10/20/14	W RGT	A	
Sodium, Total	95	mg/L	EPA 200.7	10/20/14	W RGT	A	
Thallium, Total	< 0.001	mg/L	SM 3113B-04	10/23/14	W CM	A	
Vanadium, Total	< 0.020	mg/L	EPA 200.7	10/20/14	W RGT	A	
Zinc, Total	< 0.020	mg/L	EPA 200.7	10/20/14	W RGT	A	

015 Site: 805S Date Sampled: 10/7/14 Time: 11:25

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Chloride	9.5	mg/L	SM 4500-Cl-E	10/14/14	N JGM	A	
COD	110	mg/L	Hach8000/EPA410.4	10/14/14	N JGM	A	
Antimony, Total	< 0.002	mg/L	SM 3113B-04	11/1/14	W CM	A	
Arsenic, Total	0.002	mg/L	SM 3113B-04	10/25/14	W CM	A	
Barium, Total	0.023	mg/L	EPA 200.7	10/20/14	W RGT	A	
Beryllium, Total	< 0.001	mg/L	EPA 200.7	10/20/14	W RGT	A	
Cadmium, Total	< 0.002	mg/L	EPA 200.7	10/20/14	W RGT	A	
Chromium, Total	0.007	mg/L	EPA 200.7	10/20/14	W RGT	A	
Cobalt, Total	< 0.020	mg/L	EPA 200.7	10/20/14	W RGT	A	
Copper, Total	< 0.020	mg/L	EPA 200.7	10/20/14	W RGT	A	
Iron, Dissolved	0.048	mg/L	EPA 200.7	10/21/14	W RGT	A	
Iron, Total	1.7	mg/L	EPA 200.7	10/20/14	W RGT	A	
Lead, Total	< 0.001	mg/L	SM 3113B-04	10/27/14	W CM	A	
Manganese, Dissolved	< 0.020	mg/L	EPA 200.7	10/21/14	W RGT	A	
Manganese, Total	0.043	mg/L	EPA 200.7	10/20/14	W RGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	10/20/14	W EER	A	
Nickel, Total	< 0.005	mg/L	EPA 200.7	10/20/14	W RGT	A	
Selenium, Total	< 0.002	mg/L	SM20 3113B	10/16/14	W CM	A	
Silver, Total	< 0.020	mg/L	EPA 200.7	10/20/14	W RGT	A	
Sodium, Total	5.1	mg/L	EPA 200.7	10/20/14	W RGT	A	
Thallium, Total	< 0.001	mg/L	SM 3113B-04	10/23/14	W CM	A	
Vanadium, Total	< 0.020	mg/L	EPA 200.7	10/20/14	W RGT	A	
Zinc, Total	< 0.020	mg/L	EPA 200.7	10/20/14	W RGT	A	

016 Site: 103 Date Sampled: 10/6/14 Time: 15:13

CLIENT: WaiteHeindel Environmental Mgt
PROJECT: NEWSVT LF Ground Water
REPORT DATE: 11/6/2014

WORK ORDER: **1410-21187**
DATE RECEIVED: 10/09/2014

016 Site: 103 Date Sampled: 10/6/14 Time: 15:13

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Chloride	4.1	mg/L	SM 4500-Cl-E	10/14/14	N JGM	A	
COD	31	mg/L	Hach8000/EPA410.4	10/14/14	N JGM	A	
Antimony, Total	< 0.002	mg/L	SM 3113B-04	11/1/14	W CM	A	
Arsenic, Total	0.007	mg/L	SM 3113B-04	10/25/14	W CM	A	
Barium, Total	0.020	mg/L	EPA 200.7	10/21/14	W RGT	A	
Beryllium, Total	< 0.001	mg/L	EPA 200.7	10/21/14	W RGT	A	
Cadmium, Total	< 0.002	mg/L	EPA 200.7	10/21/14	W RGT	A	
Chromium, Total	< 0.005	mg/L	EPA 200.7	10/21/14	W RGT	A	
Cobalt, Total	< 0.020	mg/L	EPA 200.7	10/21/14	W RGT	A	
Copper, Total	< 0.020	mg/L	EPA 200.7	10/21/14	W RGT	A	
Iron, Dissolved	0.024	mg/L	EPA 200.7	10/21/14	W RGT	A	
Iron, Total	0.64	mg/L	EPA 200.7	10/21/14	W RGT	A	
Lead, Total	< 0.001	mg/L	SM 3113B-04	10/24/14	W CM	A	
Manganese, Dissolved	< 0.020	mg/L	EPA 200.7	10/21/14	W RGT	A	
Manganese, Total	0.73	mg/L	EPA 200.7	10/21/14	W RGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	10/20/14	W EER	A	
Nickel, Total	0.005	mg/L	EPA 200.7	10/21/14	W RGT	A	
Selenium, Total	< 0.002	mg/L	SM20 3113B	10/16/14	W CM	A	
Silver, Total	< 0.020	mg/L	EPA 200.7	10/21/14	W RGT	A	
Sodium, Total	11	mg/L	EPA 200.7	10/21/14	W RGT	A	
Thallium, Total	< 0.001	mg/L	SM 3113B-04	10/27/14	W CM	A	
Vanadium, Total	< 0.020	mg/L	EPA 200.7	10/21/14	W RGT	A	
Zinc, Total	< 0.020	mg/L	EPA 200.7	10/21/14	W RGT	A	

017 Site: BRW-3D Date Sampled: 10/7/14 Time: 9:14

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Chloride	< 2.5	mg/L	SM 4500-Cl-E	10/14/14	N JGM	A	
COD	< 10	mg/L	Hach8000/EPA410.4	10/14/14	N JGM	A	
Antimony, Total	< 0.002	mg/L	SM 3113B-04	11/1/14	W CM	A	
Arsenic, Total	0.024	mg/L	EPA 200.7	10/21/14	W RGT	N	
Barium, Total	< 0.020	mg/L	EPA 200.7	10/21/14	W RGT	A	
Beryllium, Total	< 0.001	mg/L	EPA 200.7	10/21/14	W RGT	A	
Cadmium, Total	< 0.002	mg/L	EPA 200.7	10/21/14	W RGT	A	
Chromium, Total	< 0.005	mg/L	EPA 200.7	10/21/14	W RGT	A	
Cobalt, Total	< 0.020	mg/L	EPA 200.7	10/21/14	W RGT	A	
Copper, Total	< 0.020	mg/L	EPA 200.7	10/21/14	W RGT	A	
Iron, Dissolved	0.17	mg/L	EPA 200.7	10/21/14	W RGT	A	
Iron, Total	0.33	mg/L	EPA 200.7	10/21/14	W RGT	A	
Lead, Total	< 0.001	mg/L	SM 3113B-04	10/24/14	W CM	A	
Manganese, Dissolved	0.020	mg/L	EPA 200.7	10/21/14	W RGT	A	
Manganese, Total	0.024	mg/L	EPA 200.7	10/21/14	W RGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	10/20/14	W EER	A	
Nickel, Total	< 0.005	mg/L	EPA 200.7	10/21/14	W RGT	A	

CLIENT: WaiteHeindel Environmental Mgt
PROJECT: NEWSVT LF Ground Water
REPORT DATE: 11/6/2014

WORK ORDER: **1410-21187**
DATE RECEIVED: 10/09/2014

017 Site: BRW-3D — Date Sampled: 10/7/14 — Time: 9:14

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Selenium, Total	< 0.002	mg/L	SM20 3113B	10/16/14	W CM	A	
Silver, Total	< 0.020	mg/L	EPA 200.7	10/31/14	W RGT	A	
Sodium, Total	6.7	mg/L	EPA 200.7	10/21/14	W RGT	A	
Thallium, Total	< 0.001	mg/L	SM 3113B-04	10/27/14	W CM	A	
Vanadium, Total	< 0.020	mg/L	EPA 200.7	10/21/14	W RGT	A	
Zinc, Total	< 0.020	mg/L	EPA 200.7	10/21/14	W RGT	A	

018 Site: E1 — Date Sampled: 10/7/14 — Time: 11:35

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Chloride	8.3	mg/L	SM 4500-Cl-E	10/14/14	N JGM	A	
COD	100	mg/L	Hach8000/EPA410.4	10/14/14	N JGM	A	
Antimony, Total	< 0.002	mg/L	SM 3113B-04	11/1/14	W CM	A	
Arsenic, Total	0.010	mg/L	SM 3113B-04	10/25/14	W CM	A	
Barium, Total	< 0.020	mg/L	EPA 200.7	10/21/14	W RGT	A	
Beryllium, Total	< 0.001	mg/L	EPA 200.7	10/21/14	W RGT	A	
Cadmium, Total	0.002	mg/L	EPA 200.7	10/21/14	W RGT	A	
Chromium, Total	0.005	mg/L	EPA 200.7	10/21/14	W RGT	A	
Cobalt, Total	< 0.020	mg/L	EPA 200.7	10/21/14	W RGT	A	
Copper, Total	< 0.020	mg/L	EPA 200.7	10/21/14	W RGT	A	
Iron, Dissolved	< 0.020	mg/L	EPA 200.7	10/21/14	W RGT	A	
Iron, Total	1.4	mg/L	EPA 200.7	10/21/14	W RGT	A	
Lead, Total	< 0.001	mg/L	SM 3113B-04	10/24/14	W CM	A	
Manganese, Dissolved	0.13	mg/L	EPA 200.7	10/21/14	W RGT	A	
Manganese, Total	0.16	mg/L	EPA 200.7	10/21/14	W RGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	10/20/14	W EER	A	
Nickel, Total	< 0.005	mg/L	EPA 200.7	10/21/14	W RGT	A	
Selenium, Total	< 0.002	mg/L	SM20 3113B	10/16/14	W CM	A	
Silver, Total	< 0.020	mg/L	EPA 200.7	10/21/14	W RGT	A	
Sodium, Total	4.1	mg/L	EPA 200.7	10/21/14	W RGT	A	
Thallium, Total	< 0.001	mg/L	SM 3113B-04	10/27/14	W CM	A	
Vanadium, Total	< 0.020	mg/L	EPA 200.7	10/21/14	W RGT	A	
Zinc, Total	0.023	mg/L	EPA 200.7	10/21/14	W RGT	A	

019 Site: ST ONGE — Date Sampled: 10/8/14 — Time: 17:00

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Chloride	180	mg/L	SM 4500-Cl-E	10/14/14	N JGM	A	
COD	16	mg/L	Hach8000/EPA410.4	10/14/14	N JGM	A	
Antimony, Total	< 0.002	mg/L	SM 3113B-04	11/1/14	W CM	A	
Arsenic, Total	0.011	mg/L	SM 3113B-04	10/25/14	W CM	A	
Barium, Total	0.028	mg/L	EPA 200.7	10/21/14	W RGT	A	
Beryllium, Total	< 0.001	mg/L	EPA 200.7	10/21/14	W RGT	A	
Cadmium, Total	< 0.002	mg/L	EPA 200.7	10/21/14	W RGT	A	
Chromium, Total	< 0.005	mg/L	EPA 200.7	10/21/14	W RGT	A	

CLIENT: WaiteHeindel Environmental Mgt
PROJECT: NEWSVT LF Ground Water
REPORT DATE: 11/6/2014

WORK ORDER: **1410-21187**
DATE RECEIVED: 10/09/2014

019 Site: ST ONGE — Date Sampled: 10/8/14 — Time: 17:00

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Cobalt, Total	< 0.020	mg/L	EPA 200.7	10/21/14	W RGT	A	
Copper, Total	< 0.020	mg/L	EPA 200.7	10/21/14	W RGT	A	
Iron, Dissolved	< 0.020	mg/L	EPA 200.7	10/21/14	W RGT	A	
Iron, Total	0.15	mg/L	EPA 200.7	10/21/14	W RGT	A	
Lead, Total	0.001	mg/L	SM 3113B-04	10/24/14	W CM	A	
Manganese, Dissolved	0.033	mg/L	EPA 200.7	10/21/14	W RGT	A	
Manganese, Total	0.034	mg/L	EPA 200.7	10/21/14	W RGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	10/20/14	W EER	A	
Nickel, Total	< 0.005	mg/L	EPA 200.7	10/21/14	W RGT	A	
Selenium, Total	< 0.002	mg/L	SM20 3113B	10/16/14	W CM	A	
Silver, Total	< 0.020	mg/L	EPA 200.7	10/21/14	W RGT	A	
Sodium, Total	77	mg/L	EPA 200.7	10/21/14	W RGT	A	
Thallium, Total	< 0.001	mg/L	SM 3113B-04	10/27/14	W CM	A	
Vanadium, Total	< 0.020	mg/L	EPA 200.7	10/21/14	W RGT	A	
Zinc, Total	< 0.020	mg/L	EPA 200.7	10/21/14	W RGT	A	

020 Site: 801BR-R — Date Sampled: 10/6/14 — Time: 11:17

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Chloride	2.8	mg/L	SM 4500-Cl-E	10/14/14	N JGM	A	
COD	12	mg/L	Hach8000/EPA410.4	10/14/14	N JGM	A	
Antimony, Total	< 0.002	mg/L	SM 3113B-04	11/1/14	W CM	A	
Arsenic, Total	0.009	mg/L	SM 3113B-04	10/25/14	W CM	A	
Barium, Total	< 0.020	mg/L	EPA 200.7	10/21/14	W RGT	A	
Beryllium, Total	< 0.001	mg/L	EPA 200.7	10/21/14	W RGT	A	
Cadmium, Total	< 0.002	mg/L	EPA 200.7	10/21/14	W RGT	A	
Chromium, Total	0.007	mg/L	EPA 200.7	10/21/14	W RGT	A	
Cobalt, Total	< 0.020	mg/L	EPA 200.7	10/21/14	W RGT	A	
Copper, Total	< 0.020	mg/L	EPA 200.7	10/21/14	W RGT	A	
Iron, Dissolved	0.031	mg/L	EPA 200.7	10/21/14	W RGT	A	
Iron, Total	0.41	mg/L	EPA 200.7	10/21/14	W RGT	A	
Lead, Total	< 0.001	mg/L	SM 3113B-04	10/24/14	W CM	A	
Manganese, Dissolved	0.065	mg/L	EPA 200.7	10/21/14	W RGT	A	
Manganese, Total	0.11	mg/L	EPA 200.7	10/21/14	W RGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	10/20/14	W EER	A	
Nickel, Total	0.006	mg/L	EPA 200.7	10/21/14	W RGT	A	
Selenium, Total	< 0.002	mg/L	SM20 3113B	10/16/14	W CM	A	
Silver, Total	< 0.020	mg/L	EPA 200.7	10/21/14	W RGT	A	
Sodium, Total	9.7	mg/L	EPA 200.7	10/21/14	W RGT	A	
Thallium, Total	< 0.001	mg/L	SM 3113B-04	10/27/14	W CM	A	
Vanadium, Total	< 0.020	mg/L	EPA 200.7	10/21/14	W RGT	A	
Zinc, Total	< 0.020	mg/L	EPA 200.7	10/21/14	W RGT	A	

021 Site: 801D-R — Date Sampled: 10/6/14 — Time: 12:53

CLIENT: WaiteHeindel Environmental Mgt
PROJECT: NEWSVT LF Ground Water
REPORT DATE: 11/6/2014

WORK ORDER: **1410-21187**
DATE RECEIVED: 10/09/2014

021 Site: 801D-R — Date Sampled: 10/6/14 — Time: 12:53

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Chloride	2.5	mg/L	SM 4500-Cl-E	10/14/14	N JGM	A	
COD	39	mg/L	Hach8000/EPA410.4	10/17/14	N JGM	A	
Antimony, Total	< 0.002	mg/L	SM 3113B-04	11/1/14	W CM	A	
Arsenic, Total	< 0.001	mg/L	SM 3113B-04	10/25/14	W CM	A	
Barium, Total	< 0.020	mg/L	EPA 200.7	10/21/14	W RGT	A	
Beryllium, Total	< 0.001	mg/L	EPA 200.7	10/21/14	W RGT	A	
Cadmium, Total	< 0.002	mg/L	EPA 200.7	10/21/14	W RGT	A	
Chromium, Total	< 0.005	mg/L	EPA 200.7	10/21/14	W RGT	A	
Cobalt, Total	< 0.020	mg/L	EPA 200.7	10/21/14	W RGT	A	
Copper, Total	< 0.020	mg/L	EPA 200.7	10/21/14	W RGT	A	
Iron, Dissolved	0.049	mg/L	EPA 200.7	10/21/14	W RGT	A	
Iron, Total	2.3	mg/L	EPA 200.7	10/21/14	W RGT	A	
Lead, Total	< 0.001	mg/L	SM 3113B-04	10/27/14	W CM	A	
Manganese, Dissolved	< 0.020	mg/L	EPA 200.7	10/21/14	W RGT	A	
Manganese, Total	< 0.020	mg/L	EPA 200.7	10/21/14	W RGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	10/20/14	W EER	A	
Nickel, Total	< 0.005	mg/L	EPA 200.7	10/21/14	W RGT	A	
Selenium, Total	< 0.002	mg/L	SM20 3113B	10/16/14	W CM	A	
Silver, Total	< 0.020	mg/L	EPA 200.7	10/21/14	W RGT	A	
Sodium, Total	7.4	mg/L	EPA 200.7	10/21/14	W RGT	A	
Thallium, Total	< 0.001	mg/L	SM 3113B-04	10/27/14	W CM	A	
Vanadium, Total	< 0.020	mg/L	EPA 200.7	10/21/14	W RGT	A	
Zinc, Total	< 0.020	mg/L	EPA 200.7	10/21/14	W RGT	A	

022 Site: P8 — Date Sampled: 10/7/14 — Time: 10:27

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Chloride	53	mg/L	SM 4500-Cl-E	10/14/14	N JGM	A	
COD	69	mg/L	Hach8000/EPA410.4	10/17/14	N JGM	A	
Antimony, Total	< 0.002	mg/L	SM 3113B-04	11/1/14	W CM	A	
Arsenic, Total	0.016	mg/L	SM 3113B-04	10/25/14	W CM	A	
Barium, Total	0.15	mg/L	EPA 200.7	10/21/14	W RGT	A	
Beryllium, Total	< 0.001	mg/L	EPA 200.7	10/21/14	W RGT	A	
Cadmium, Total	< 0.002	mg/L	EPA 200.7	10/21/14	W RGT	A	
Chromium, Total	< 0.005	mg/L	EPA 200.7	10/21/14	W RGT	A	
Cobalt, Total	< 0.020	mg/L	EPA 200.7	10/21/14	W RGT	A	
Copper, Total	< 0.020	mg/L	EPA 200.7	10/21/14	W RGT	A	
Iron, Dissolved	4.2	mg/L	EPA 200.7	10/21/14	W RGT	A	
Iron, Total	3.6	mg/L	EPA 200.7	10/21/14	W RGT	A	
Lead, Total	< 0.001	mg/L	SM 3113B-04	10/27/14	W CM	A	
Manganese, Dissolved	2.8	mg/L	EPA 200.7	10/21/14	W RGT	A	
Manganese, Total	2.0	mg/L	EPA 200.7	10/21/14	W RGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	10/20/14	W EER	A	
Nickel, Total	0.006	mg/L	EPA 200.7	10/21/14	W RGT	A	

CLIENT: WaiteHeindel Environmental Mgt
PROJECT: NEWSVT LF Ground Water
REPORT DATE: 11/6/2014

WORK ORDER: **1410-21187**
DATE RECEIVED: 10/09/2014

022 Site: P8 Date Sampled: 10/7/14 Time: 10:27

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Selenium, Total	< 0.002	mg/L	SM20 3113B	10/16/14	W CM	A	
Silver, Total	< 0.020	mg/L	EPA 200.7	10/21/14	W RGT	A	
Sodium, Total	23	mg/L	EPA 200.7	10/21/14	W RGT	A	
Thallium, Total	< 0.001	mg/L	SM 3113B-04	10/27/14	W CM	A	
Vanadium, Total	< 0.020	mg/L	EPA 200.7	10/21/14	W RGT	A	
Zinc, Total	< 0.020	mg/L	EPA 200.7	10/21/14	W RGT	A	

023 Site: 804SR Date Sampled: 10/7/14 Time: 14:11

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Chloride	11	mg/L	SM 4500-Cl-E	10/14/14	N JGM	A	
COD	16	mg/L	Hach8000/EPA410.4	10/17/14	N JGM	A	
Antimony, Total	< 0.002	mg/L	SM 3113B-04	11/1/14	W CM	A	
Arsenic, Total	0.001	mg/L	SM 3113B-04	10/25/14	W CM	A	
Barium, Total	0.025	mg/L	EPA 200.7	10/21/14	W RGT	A	
Beryllium, Total	< 0.001	mg/L	EPA 200.7	10/21/14	W RGT	A	
Cadmium, Total	< 0.002	mg/L	EPA 200.7	10/21/14	W RGT	A	
Chromium, Total	0.008	mg/L	EPA 200.7	10/21/14	W RGT	A	
Cobalt, Total	< 0.020	mg/L	EPA 200.7	10/21/14	W RGT	A	
Copper, Total	< 0.020	mg/L	EPA 200.7	10/21/14	W RGT	A	
Iron, Dissolved	< 0.020	mg/L	EPA 200.7	10/21/14	W RGT	A	
Iron, Total	2.8	mg/L	EPA 200.7	10/21/14	W RGT	A	
Lead, Total	0.001	mg/L	SM 3113B-04	10/27/14	W CM	A	
Manganese, Dissolved	< 0.020	mg/L	EPA 200.7	10/21/14	W RGT	A	
Manganese, Total	0.080	mg/L	EPA 200.7	10/21/14	W RGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	10/20/14	W EER	A	
Nickel, Total	0.007	mg/L	EPA 200.7	10/21/14	W RGT	A	
Selenium, Total	< 0.002	mg/L	SM20 3113B	10/16/14	W CM	A	
Silver, Total	< 0.020	mg/L	EPA 200.7	10/21/14	W RGT	A	
Sodium, Total	6.1	mg/L	EPA 200.7	10/21/14	W RGT	A	
Thallium, Total	< 0.001	mg/L	SM 3113B-04	10/27/14	W CM	A	
Vanadium, Total	< 0.020	mg/L	EPA 200.7	10/21/14	W RGT	A	
Zinc, Total	< 0.020	mg/L	EPA 200.7	10/21/14	W RGT	A	

028 Site: DUP 1@DIR Date Sampled: 10/6/14 Time:

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Chloride	2.5	mg/L	SM 4500-Cl-E	10/14/14	N JGM	A	
COD	< 10	mg/L	Hach8000/EPA410.4	10/17/14	N JGM	A	
Antimony, Total	< 0.002	mg/L	SM 3113B-04	11/1/14	W CM	A	
Arsenic, Total	0.021	mg/L	EPA 200.7	10/21/14	W RGT	N	
Barium, Total	< 0.020	mg/L	EPA 200.7	10/21/14	W RGT	A	
Beryllium, Total	< 0.001	mg/L	EPA 200.7	10/21/14	W RGT	A	
Cadmium, Total	< 0.002	mg/L	EPA 200.7	10/21/14	W RGT	A	
Chromium, Total	< 0.005	mg/L	EPA 200.7	10/21/14	W RGT	A	

CLIENT: WaiteHeindel Environmental Mgt
PROJECT: NEWSVT LF Ground Water
REPORT DATE: 11/6/2014

WORK ORDER: **1410-21187**
DATE RECEIVED: 10/09/2014

028 Site: DUP 1@DIR Date Sampled: 10/6/14 Time:

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Cobalt, Total	< 0.020	mg/L	EPA 200.7	10/21/14	W RGT	A	
Copper, Total	< 0.020	mg/L	EPA 200.7	10/21/14	W RGT	A	
Iron, Dissolved	0.29	mg/L	EPA 200.7	10/21/14	W RGT	A	
Iron, Total	0.39	mg/L	EPA 200.7	10/21/14	W RGT	A	
Lead, Total	< 0.001	mg/L	SM 3113B-04	10/27/14	W CM	A	
Manganese, Dissolved	0.48	mg/L	EPA 200.7	10/21/14	W RGT	A	
Manganese, Total	0.52	mg/L	EPA 200.7	10/21/14	W RGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	10/20/14	W EER	A	
Nickel, Total	0.006	mg/L	EPA 200.7	10/21/14	W RGT	A	
Selenium, Total	< 0.002	mg/L	SM20 3113B	10/16/14	W CM	A	
Silver, Total	< 0.020	mg/L	EPA 200.7	10/21/14	W RGT	A	
Sodium, Total	11	mg/L	EPA 200.7	10/21/14	W RGT	A	
Thallium, Total	< 0.001	mg/L	SM 3113B-04	10/27/14	W CM	A	
Vanadium, Total	< 0.020	mg/L	EPA 200.7	10/21/14	W RGT	A	
Zinc, Total	< 0.020	mg/L	EPA 200.7	10/21/14	W RGT	A	

029 Site: DUP 2@P2R Date Sampled: 10/6/14 Time:

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Chloride	640	mg/L	SM 4500-Cl-E	11/3/14	N JGM	A	
COD	150	mg/L	Hach8000/EPA410.4	10/17/14	N JGM	A	
Antimony, Total	< 0.002	mg/L	SM 3113B-04	11/1/14	W CM	A	
Arsenic, Total	0.38	mg/L	EPA 200.7	11/4/14	W RGT	N	
Barium, Total	0.24	mg/L	EPA 200.7	11/4/14	W RGT	A	
Beryllium, Total	< 0.001	mg/L	EPA 200.7	11/4/14	W RGT	A	
Cadmium, Total	< 0.002	mg/L	EPA 200.7	11/4/14	W RGT	A	
Chromium, Total	0.051	mg/L	EPA 200.7	11/4/14	W RGT	A	
Cobalt, Total	< 0.020	mg/L	EPA 200.7	11/4/14	W RGT	A	
Copper, Total	0.020	mg/L	EPA 200.7	11/4/14	W RGT	A	
Iron, Dissolved	34	mg/L	EPA 200.7	10/21/14	W RGT	A	
Iron, Total	50	mg/L	EPA 200.7	11/4/14	W RGT	A	
Lead, Total	0.008	mg/L	SM 3113B-04	10/27/14	W CM	A	
Manganese, Dissolved	0.66	mg/L	EPA 200.7	10/21/14	W RGT	A	
Manganese, Total	0.81	mg/L	EPA 200.7	11/4/14	W RGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	10/20/14	W EER	A	
Nickel, Total	0.13	mg/L	EPA 200.7	11/4/14	W RGT	A	
Selenium, Total	< 0.002	mg/L	SM20 3113B	10/16/14	W CM	A	
Silver, Total	< 0.020	mg/L	EPA 200.7	11/4/14	W RGT	A	
Sodium, Total	200	mg/L	EPA 200.7	11/4/14	W RGT	A	
Thallium, Total	< 0.001	mg/L	SM 3113B-04	10/27/14	W CM	A	
Vanadium, Total	< 0.020	mg/L	EPA 200.7	11/4/14	W RGT	A	
Zinc, Total	0.053	mg/L	EPA 200.7	11/4/14	W RGT	A	

030 Site: DUP 3@412R Date Sampled: 10/7/14 Time:

CLIENT: WaiteHeindel Environmental Mgt
PROJECT: NEWSVT LF Ground Water
REPORT DATE: 11/6/2014

WORK ORDER: **1410-21187**
DATE RECEIVED: 10/09/2014

030 Site: DUP 3@412R Date Sampled: 10/7/14 Time:

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Chloride	15	mg/L	SM 4500-Cl-E	10/14/14	N JGM	A	
COD	43	mg/L	Hach8000/EPA410.4	10/17/14	N JGM	A	
Antimony, Total	< 0.002	mg/L	SM 3113B-04	10/30/14	W CM	A	
Arsenic, Total	0.015	mg/L	SM 3113B-04	10/25/14	W CM	A	
Barium, Total	0.066	mg/L	EPA 200.7	10/21/14	W RGT	A	
Beryllium, Total	< 0.001	mg/L	EPA 200.7	10/21/14	W RGT	A	
Cadmium, Total	< 0.002	mg/L	EPA 200.7	10/21/14	W RGT	A	
Chromium, Total	< 0.005	mg/L	EPA 200.7	10/21/14	W RGT	A	
Cobalt, Total	< 0.020	mg/L	EPA 200.7	10/21/14	W RGT	A	
Copper, Total	< 0.020	mg/L	EPA 200.7	10/21/14	W RGT	A	
Iron, Dissolved	9.0	mg/L	EPA 200.7	10/21/14	W RGT	A	
Iron, Total	9.1	mg/L	EPA 200.7	10/21/14	W RGT	A	
Lead, Total	< 0.001	mg/L	SM 3113B-04	10/27/14	W CM	A	
Manganese, Dissolved	0.77	mg/L	EPA 200.7	10/21/14	W RGT	A	
Manganese, Total	0.78	mg/L	EPA 200.7	10/21/14	W RGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	10/20/14	W EER	A	
Nickel, Total	< 0.005	mg/L	EPA 200.7	10/21/14	W RGT	A	
Selenium, Total	< 0.002	mg/L	SM20 3113B	10/20/14	W CM	A	
Silver, Total	< 0.020	mg/L	EPA 200.7	10/21/14	W RGT	A	
Sodium, Total	11	mg/L	EPA 200.7	10/21/14	W RGT	A	
Thallium, Total	< 0.001	mg/L	SM 3113B-04	10/27/14	W CM	A	
Vanadium, Total	< 0.020	mg/L	EPA 200.7	10/21/14	W RGT	A	
Zinc, Total	< 0.020	mg/L	EPA 200.7	10/21/14	W RGT	A	

CLIENT: WaiteHeindel Environmental Mgt
PROJECT: NEWSVT LF Ground Water
REPORT DATE: 11/6/2014

WORK ORDER: **1410-21187**
DATE RECEIVED: 10/09/2014

TEST METHOD: EPA 8260C

001 Site: A-1 Sampled: 10/6/14 17:01 Test Date: 10/14/14 W MHM

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Dichlorodifluoromethane	< 5.0	ug/L	A		Chloromethane	< 3.0	ug/L	N	
Vinyl chloride	7.8	ug/L	A		Bromomethane	< 5.0	ug/L	A	
Chloroethane	20.6	ug/L	A		Trichlorofluoromethane	< 2.0	ug/L	A	
Diethyl ether	121	ug/L	N		1,1-Dichloroethene	< 1.0	ug/L	A	
Acetone	< 10.0	ug/L	A		Carbon disulfide	< 5.0	ug/L	A	
Methylene chloride	< 5.0	ug/L	A		t-Butanol	< 20.0	ug/L	N	
Methyl-t-butyl ether (MTBE)	3.2	ug/L	A		trans-1,2-Dichloroethene	< 1.0	ug/L	A	
Di-isopropyl ether (DIPE)	< 2.0	ug/L	N		1,1-Dichloroethane	5.3	ug/L	A	
Ethyl-t-butyl ether (ETBE)	< 2.0	ug/L	N		2-Butanone	< 10.0	ug/L	A	
2,2-Dichloropropane	< 2.0	ug/L	N		cis-1,2-Dichloroethene	< 1.0	ug/L	N	
Bromochloromethane	< 2.0	ug/L	N		Chloroform	< 1.0	ug/L	A	
Tetrahydrofuran	56.3	ug/L	U		1,1,1-Trichloroethane	< 1.0	ug/L	A	
Carbon tetrachloride	< 1.0	ug/L	A		1,1-Dichloropropene	< 1.0	ug/L	N	
Benzene	5.7	ug/L	A		t-Amylmethyl ether (TAME)	< 2.0	ug/L	N	
1,2-Dichloroethane	< 1.0	ug/L	A		Trichloroethene	< 1.0	ug/L	A	
1,2-Dichloropropane	< 2.0	ug/L	A		Dibromomethane	< 2.0	ug/L	N	
Bromodichloromethane	< 0.5	ug/L	A		cis-1,3-Dichloropropene	< 1.0	ug/L	A	
4-Methyl-2-pentanone (MIBK)	< 10.0	ug/L	N		Toluene	1.4	ug/L	A	
trans-1,3-Dichloropropene	< 1.0	ug/L	A		1,1,2-Trichloroethane	< 1.0	ug/L	A	
Tetrachloroethene	< 1.0	ug/L	A		1,3-Dichloropropane	< 1.0	ug/L	N	
2-Hexanone	< 10.0	ug/L	N		Dibromochloromethane	< 2.0	ug/L	A	
1,2-Dibromoethane	< 1.0	ug/L	A		Chlorobenzene	< 1.0	ug/L	A	
Ethylbenzene	2.7	ug/L	A		1,1,1,2-Tetrachloroethane	< 2.0	ug/L	A	
Xylenes, Total	2.1	ug/L	A		Styrene	< 1.0	ug/L	N	
Bromoform	< 2.0	ug/L	A		Isopropylbenzene	< 1.0	ug/L	A	
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	A		Bromobenzene	< 1.0	ug/L	N	
n-Propylbenzene	< 1.0	ug/L	A		1,2,3-Trichloropropane	< 2.0	ug/L	N	
2-Chlorotoluene	< 1.0	ug/L	N		1,3,5-Trimethylbenzene	< 1.0	ug/L	A	
4-Chlorotoluene	< 1.0	ug/L	N		t-Butylbenzene	< 1.0	ug/L	A	
1,2,4-Trimethylbenzene	< 1.0	ug/L	A		s-Butylbenzene	< 1.0	ug/L	N	
4-Isopropyltoluene	< 1.0	ug/L	A		1,3-Dichlorobenzene	< 1.0	ug/L	A	
1,4-Dichlorobenzene	< 1.0	ug/L	A		n-Butylbenzene	< 1.0	ug/L	A	
1,2-Dichlorobenzene	< 1.0	ug/L	A		1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	A		1,3,5-Trichlorobenzene	< 2.0	ug/L	N	
Hexachlorobutadiene	< 0.5	ug/L	N		Naphthalene	< 2.0	ug/L	A	
1,2,3-Trichlorobenzene	< 2.0	ug/L	N		Surr. 1 (Dibromofluoromethane)	104	%	N	
Surr. 3 (4-Bromofluorobenzene)	104	%	N		Surr. 2 (Toluene d8)	104	%	N	
Unidentified Peaks	0		U						

CLIENT: WaiteHeindel Environmental Mgt
PROJECT: NEWSVT LF Ground Water
REPORT DATE: 11/6/2014

WORK ORDER: **1410-21187**
DATE RECEIVED: 10/09/2014

TEST METHOD: EPA 8260C

002 Site: B-1 Sampled: 10/6/14 14:55 Test Date: 10/14/14 W MHM

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Dichlorodifluoromethane	< 5.0	ug/L	A		Chloromethane	< 3.0	ug/L	N	
Vinyl chloride	< 2.0	ug/L	A		Bromomethane	< 5.0	ug/L	A	
Chloroethane	< 5.0	ug/L	A		Trichlorofluoromethane	< 2.0	ug/L	A	
Diethyl ether	< 5.0	ug/L	N		1,1-Dichloroethene	< 1.0	ug/L	A	
Acetone	< 10.0	ug/L	A		Carbon disulfide	< 5.0	ug/L	A	
Methylene chloride	< 5.0	ug/L	A		t-Butanol	< 20.0	ug/L	N	
Methyl-t-butyl ether (MTBE)	< 2.0	ug/L	A		trans-1,2-Dichloroethene	< 1.0	ug/L	A	
Di-isopropyl ether (DIPE)	< 2.0	ug/L	N		1,1-Dichloroethane	< 1.0	ug/L	A	
Ethyl-t-butyl ether (ETBE)	< 2.0	ug/L	N		2-Butanone	< 10.0	ug/L	A	
2,2-Dichloropropane	< 2.0	ug/L	N		cis-1,2-Dichloroethene	< 1.0	ug/L	N	
Bromochloromethane	< 2.0	ug/L	N		Chloroform	< 1.0	ug/L	A	
Tetrahydrofuran	< 10.0	ug/L	U		1,1,1-Trichloroethane	< 1.0	ug/L	A	
Carbon tetrachloride	< 1.0	ug/L	A		1,1-Dichloropropene	< 1.0	ug/L	N	
Benzene	< 1.0	ug/L	A		t-Amylmethyl ether (TAME)	< 2.0	ug/L	N	
1,2-Dichloroethane	< 1.0	ug/L	A		Trichloroethene	< 1.0	ug/L	A	
1,2-Dichloropropane	< 2.0	ug/L	A		Dibromomethane	< 2.0	ug/L	N	
Bromodichloromethane	< 0.5	ug/L	A		cis-1,3-Dichloropropene	< 1.0	ug/L	A	
4-Methyl-2-pentanone (MIBK)	< 10.0	ug/L	N		Toluene	< 1.0	ug/L	A	
trans-1,3-Dichloropropene	< 1.0	ug/L	A		1,1,2-Trichloroethane	< 1.0	ug/L	A	
Tetrachloroethene	< 1.0	ug/L	A		1,3-Dichloropropane	< 1.0	ug/L	N	
2-Hexanone	< 10.0	ug/L	N		Dibromochloromethane	< 2.0	ug/L	A	
1,2-Dibromoethane	< 1.0	ug/L	A		Chlorobenzene	< 1.0	ug/L	A	
Ethylbenzene	< 1.0	ug/L	A		1,1,1,2-Tetrachloroethane	< 2.0	ug/L	A	
Xylenes, Total	< 2.0	ug/L	A		Styrene	< 1.0	ug/L	N	
Bromoform	< 2.0	ug/L	A		Isopropylbenzene	< 1.0	ug/L	A	
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	A		Bromobenzene	< 1.0	ug/L	N	
n-Propylbenzene	< 1.0	ug/L	A		1,2,3-Trichloropropane	< 2.0	ug/L	N	
2-Chlorotoluene	< 1.0	ug/L	N		1,3,5-Trimethylbenzene	< 1.0	ug/L	A	
4-Chlorotoluene	< 1.0	ug/L	N		t-Butylbenzene	< 1.0	ug/L	A	
1,2,4-Trimethylbenzene	< 1.0	ug/L	A		s-Butylbenzene	< 1.0	ug/L	N	
4-Isopropyltoluene	< 1.0	ug/L	A		1,3-Dichlorobenzene	< 1.0	ug/L	A	
1,4-Dichlorobenzene	< 1.0	ug/L	A		n-Butylbenzene	< 1.0	ug/L	A	
1,2-Dichlorobenzene	< 1.0	ug/L	A		1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	A		1,3,5-Trichlorobenzene	< 2.0	ug/L	N	
Hexachlorobutadiene	< 0.5	ug/L	N		Naphthalene	< 2.0	ug/L	A	
1,2,3-Trichlorobenzene	< 2.0	ug/L	N		Surr. 1 (Dibromofluoromethane)	106	%	N	
Surr. 3 (4-Bromofluorobenzene)	106	%	N		Surr. 2 (Toluene d8)	106	%	N	
Unidentified Peaks	0		U						

CLIENT: WaiteHeindel Environmental Mgt
PROJECT: NEWSVT LF Ground Water
REPORT DATE: 11/6/2014

WORK ORDER: **1410-21187**
DATE RECEIVED: 10/09/2014

TEST METHOD: EPA 8260C

003 Site: D1R Sampled: 10/6/14 11:03 Test Date: 10/14/14 W MHM

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Dichlorodifluoromethane	< 5.0	ug/L	A		Chloromethane	< 3.0	ug/L	N	
Vinyl chloride	< 2.0	ug/L	A		Bromomethane	< 5.0	ug/L	A	
Chloroethane	< 5.0	ug/L	A		Trichlorofluoromethane	< 2.0	ug/L	A	
Diethyl ether	< 5.0	ug/L	N		1,1-Dichloroethene	< 1.0	ug/L	A	
Acetone	< 10.0	ug/L	A		Carbon disulfide	< 5.0	ug/L	A	
Methylene chloride	< 5.0	ug/L	A		t-Butanol	< 20.0	ug/L	N	
Methyl-t-butyl ether (MTBE)	< 2.0	ug/L	A		trans-1,2-Dichloroethene	< 1.0	ug/L	A	
Di-isopropyl ether (DIPE)	< 2.0	ug/L	N		1,1-Dichloroethane	< 1.0	ug/L	A	
Ethyl-t-butyl ether (ETBE)	< 2.0	ug/L	N		2-Butanone	< 10.0	ug/L	A	
2,2-Dichloropropane	< 2.0	ug/L	N		cis-1,2-Dichloroethene	< 1.0	ug/L	N	
Bromochloromethane	< 2.0	ug/L	N		Chloroform	< 1.0	ug/L	A	
Tetrahydrofuran	< 10.0	ug/L	U		1,1,1-Trichloroethane	< 1.0	ug/L	A	
Carbon tetrachloride	< 1.0	ug/L	A		1,1-Dichloropropene	< 1.0	ug/L	N	
Benzene	< 1.0	ug/L	A		t-Amylmethyl ether (TAME)	< 2.0	ug/L	N	
1,2-Dichloroethane	< 1.0	ug/L	A		Trichloroethene	< 1.0	ug/L	A	
1,2-Dichloropropane	< 2.0	ug/L	A		Dibromomethane	< 2.0	ug/L	N	
Bromodichloromethane	< 0.5	ug/L	A		cis-1,3-Dichloropropene	< 1.0	ug/L	A	
4-Methyl-2-pentanone (MIBK)	< 10.0	ug/L	N		Toluene	< 1.0	ug/L	A	
trans-1,3-Dichloropropene	< 1.0	ug/L	A		1,1,2-Trichloroethane	< 1.0	ug/L	A	
Tetrachloroethene	< 1.0	ug/L	A		1,3-Dichloropropane	< 1.0	ug/L	N	
2-Hexanone	< 10.0	ug/L	N		Dibromochloromethane	< 2.0	ug/L	A	
1,2-Dibromoethane	< 1.0	ug/L	A		Chlorobenzene	< 1.0	ug/L	A	
Ethylbenzene	< 1.0	ug/L	A		1,1,1,2-Tetrachloroethane	< 2.0	ug/L	A	
Xylenes, Total	< 2.0	ug/L	A		Styrene	< 1.0	ug/L	N	
Bromoform	< 2.0	ug/L	A		Isopropylbenzene	< 1.0	ug/L	A	
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	A		Bromobenzene	< 1.0	ug/L	N	
n-Propylbenzene	< 1.0	ug/L	A		1,2,3-Trichloropropane	< 2.0	ug/L	N	
2-Chlorotoluene	< 1.0	ug/L	N		1,3,5-Trimethylbenzene	< 1.0	ug/L	A	
4-Chlorotoluene	< 1.0	ug/L	N		t-Butylbenzene	< 1.0	ug/L	A	
1,2,4-Trimethylbenzene	< 1.0	ug/L	A		s-Butylbenzene	< 1.0	ug/L	N	
4-Isopropyltoluene	< 1.0	ug/L	A		1,3-Dichlorobenzene	< 1.0	ug/L	A	
1,4-Dichlorobenzene	< 1.0	ug/L	A		n-Butylbenzene	< 1.0	ug/L	A	
1,2-Dichlorobenzene	< 1.0	ug/L	A		1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	A		1,3,5-Trichlorobenzene	< 2.0	ug/L	N	
Hexachlorobutadiene	< 0.5	ug/L	N		Naphthalene	< 2.0	ug/L	A	
1,2,3-Trichlorobenzene	< 2.0	ug/L	N		Surr. 1 (Dibromofluoromethane)	102	%	N	
Surr. 3 (4-Bromofluorobenzene)	105	%	N		Surr. 2 (Toluene d8)	106	%	N	
Unidentified Peaks	0		U						

CLIENT: WaiteHeindel Environmental Mgt
PROJECT: NEWSVT LF Ground Water
REPORT DATE: 11/6/2014

WORK ORDER: **1410-21187**
DATE RECEIVED: 10/09/2014

TEST METHOD: EPA 8260C

004 Site: D2 Sampled: 10/6/14 11:47 Test Date: 10/14/14 W MHM

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Dichlorodifluoromethane	< 500	ug/L	A		Chloromethane	< 300	ug/L	N	
Vinyl chloride	< 200	ug/L	A		Bromomethane	< 500	ug/L	A	
Chloroethane	< 500	ug/L	A		Trichlorofluoromethane	< 200	ug/L	A	
Diethyl ether	< 500	ug/L	N		1,1-Dichloroethene	< 100	ug/L	A	
Acetone	21,700	ug/L	A		Carbon disulfide	< 500	ug/L	A	
Methylene chloride	< 500	ug/L	A		t-Butanol	< 2,000	ug/L	N	
Methyl-t-butyl ether (MTBE)	< 200	ug/L	A		trans-1,2-Dichloroethene	< 100	ug/L	A	
Di-isopropyl ether (DIPE)	< 200	ug/L	N		1,1-Dichloroethane	< 100	ug/L	A	
Ethyl-t-butyl ether (ETBE)	< 200	ug/L	N		2-Butanone	36,200	ug/L	A	
2,2-Dichloropropane	< 200	ug/L	N		cis-1,2-Dichloroethene	< 100	ug/L	N	
Bromochloromethane	< 200	ug/L	N		Chloroform	< 100	ug/L	A	
Tetrahydrofuran	1,630	ug/L	U		1,1,1-Trichloroethane	< 100	ug/L	A	
Carbon tetrachloride	< 100	ug/L	A		1,1-Dichloropropene	< 100	ug/L	N	
Benzene	< 100	ug/L	A		t-Amylmethyl ether (TAME)	< 200	ug/L	N	
1,2-Dichloroethane	< 100	ug/L	A		Trichloroethene	< 100	ug/L	A	
1,2-Dichloropropane	< 200	ug/L	A		Dibromomethane	< 200	ug/L	N	
Bromodichloromethane	< 50.0	ug/L	A		cis-1,3-Dichloropropene	< 100	ug/L	A	
4-Methyl-2-pentanone (MIBK)	< 1,000	ug/L	N		Toluene	< 100	ug/L	A	
trans-1,3-Dichloropropene	< 100	ug/L	A		1,1,2-Trichloroethane	< 100	ug/L	A	
Tetrachloroethene	< 100	ug/L	A		1,3-Dichloropropane	< 100	ug/L	N	
2-Hexanone	< 1,000	ug/L	N		Dibromochloromethane	< 200	ug/L	A	
1,2-Dibromoethane	< 100	ug/L	A		Chlorobenzene	< 100	ug/L	A	
Ethylbenzene	< 100	ug/L	A		1,1,1,2-Tetrachloroethane	< 200	ug/L	A	
Xylenes, Total	< 200	ug/L	A		Styrene	< 100	ug/L	N	
Bromoform	< 200	ug/L	A		Isopropylbenzene	< 100	ug/L	A	
1,1,2,2-Tetrachloroethane	< 200	ug/L	A		Bromobenzene	< 100	ug/L	N	
n-Propylbenzene	< 100	ug/L	A		1,2,3-Trichloropropane	< 200	ug/L	N	
2-Chlorotoluene	< 100	ug/L	N		1,3,5-Trimethylbenzene	< 100	ug/L	A	
4-Chlorotoluene	< 100	ug/L	N		t-Butylbenzene	< 100	ug/L	A	
1,2,4-Trimethylbenzene	< 100	ug/L	A		s-Butylbenzene	< 100	ug/L	N	
4-Isopropyltoluene	< 100	ug/L	A		1,3-Dichlorobenzene	< 100	ug/L	A	
1,4-Dichlorobenzene	< 100	ug/L	A		n-Butylbenzene	< 100	ug/L	A	
1,2-Dichlorobenzene	< 100	ug/L	A		1,2-Dibromo-3-Chloropropane	< 200	ug/L	A	
1,2,4-Trichlorobenzene	< 200	ug/L	A		1,3,5-Trichlorobenzene	< 200	ug/L	N	
Hexachlorobutadiene	< 50.0	ug/L	N		Naphthalene	< 200	ug/L	A	
1,2,3-Trichlorobenzene	< 200	ug/L	N		Surr. 1 (Dibromofluoromethane)	107	%	N	
Surr. 3 (4-Bromofluorobenzene)	101	%	N		Surr. 2 (Toluene d8)	104	%	N	
Unidentified Peaks	0		U						

CLIENT: WaiteHeindel Environmental Mgt
PROJECT: NEWSVT LF Ground Water
REPORT DATE: 11/6/2014

WORK ORDER: **1410-21187**
DATE RECEIVED: 10/09/2014

TEST METHOD: EPA 8260C

005 Site: P2R Sampled: 10/6/14 15:30 Test Date: 10/14/14 W MHM

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Dichlorodifluoromethane	< 5.0	ug/L	A		Chloromethane	< 3.0	ug/L	N	
Vinyl chloride	< 2.0	ug/L	A		Bromomethane	< 5.0	ug/L	A	
Chloroethane	20.2	ug/L	A		Trichlorofluoromethane	< 2.0	ug/L	A	
Diethyl ether	256	ug/L	N		1,1-Dichloroethene	< 1.0	ug/L	A	
Acetone	< 10.0	ug/L	A		Carbon disulfide	< 5.0	ug/L	A	
Methylene chloride	< 5.0	ug/L	A		t-Butanol	75.6	ug/L	N	
Methyl-t-butyl ether (MTBE)	< 2.0	ug/L	A		trans-1,2-Dichloroethene	< 1.0	ug/L	A	
Di-isopropyl ether (DIPE)	< 2.0	ug/L	N		1,1-Dichloroethane	5.3	ug/L	A	
Ethyl-t-butyl ether (ETBE)	< 2.0	ug/L	N		2-Butanone	< 10.0	ug/L	A	
2,2-Dichloropropane	< 2.0	ug/L	N		cis-1,2-Dichloroethene	< 1.0	ug/L	N	
Bromochloromethane	< 2.0	ug/L	N		Chloroform	< 1.0	ug/L	A	
Tetrahydrofuran	95.8	ug/L	U		1,1,1-Trichloroethane	< 1.0	ug/L	A	
Carbon tetrachloride	< 1.0	ug/L	A		1,1-Dichloropropene	< 1.0	ug/L	N	
Benzene	5.0	ug/L	A		t-Amylmethyl ether (TAME)	< 2.0	ug/L	N	
1,2-Dichloroethane	1.1	ug/L	A		Trichloroethene	< 1.0	ug/L	A	
1,2-Dichloropropane	< 2.0	ug/L	A		Dibromomethane	< 2.0	ug/L	N	
Bromodichloromethane	< 0.5	ug/L	A		cis-1,3-Dichloropropene	< 1.0	ug/L	A	
4-Methyl-2-pentanone (MIBK)	< 10.0	ug/L	N		Toluene	3.8	ug/L	A	
trans-1,3-Dichloropropene	< 1.0	ug/L	A		1,1,2-Trichloroethane	< 1.0	ug/L	A	
Tetrachloroethene	< 1.0	ug/L	A		1,3-Dichloropropane	< 1.0	ug/L	N	
2-Hexanone	< 10.0	ug/L	N		Dibromochloromethane	< 2.0	ug/L	A	
1,2-Dibromoethane	< 1.0	ug/L	A		Chlorobenzene	< 1.0	ug/L	A	
Ethylbenzene	21.0	ug/L	A		1,1,1,2-Tetrachloroethane	< 2.0	ug/L	A	
Xylenes, Total	10.3	ug/L	A		Styrene	< 1.0	ug/L	N	
Bromoform	< 2.0	ug/L	A		Isopropylbenzene	6.0	ug/L	A	
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	A		Bromobenzene	< 1.0	ug/L	N	
n-Propylbenzene	< 1.0	ug/L	A		1,2,3-Trichloropropane	< 2.0	ug/L	N	
2-Chlorotoluene	< 1.0	ug/L	N		1,3,5-Trimethylbenzene	< 1.0	ug/L	A	
4-Chlorotoluene	< 1.0	ug/L	N		t-Butylbenzene	< 1.0	ug/L	A	
1,2,4-Trimethylbenzene	1.1	ug/L	A		s-Butylbenzene	< 1.0	ug/L	N	
4-Isopropyltoluene	< 1.0	ug/L	A		1,3-Dichlorobenzene	< 1.0	ug/L	A	
1,4-Dichlorobenzene	< 1.0	ug/L	A		n-Butylbenzene	< 1.0	ug/L	A	
1,2-Dichlorobenzene	< 1.0	ug/L	A		1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	A		1,3,5-Trichlorobenzene	< 2.0	ug/L	N	
Hexachlorobutadiene	< 0.5	ug/L	N		Naphthalene	< 2.0	ug/L	A	
1,2,3-Trichlorobenzene	< 2.0	ug/L	N		Surr. 1 (Dibromofluoromethane)	104	%	N	
Surr. 2 (Toluene d8)	105	%	N		Surr. 3 (4-Bromofluorobenzene)	105	%	N	
Unidentified Peaks	2		U						

CLIENT: WaiteHeindel Environmental Mgt
PROJECT: NEWSVT LF Ground Water
REPORT DATE: 11/6/2014

WORK ORDER: **1410-21187**
DATE RECEIVED: 10/09/2014

TEST METHOD: EPA 8260C

006 Site: P5 Sampled: 10/6/14 16:20 Test Date: 10/14/14 W MHM

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Dichlorodifluoromethane	< 5.0	ug/L	A		Chloromethane	< 3.0	ug/L	N	
Vinyl chloride	< 2.0	ug/L	A		Bromomethane	< 5.0	ug/L	A	
Chloroethane	< 5.0	ug/L	A		Trichlorofluoromethane	< 2.0	ug/L	A	
Diethyl ether	< 5.0	ug/L	N		1,1-Dichloroethene	< 1.0	ug/L	A	
Acetone	< 10.0	ug/L	A		Carbon disulfide	< 5.0	ug/L	A	
Methylene chloride	< 5.0	ug/L	A		t-Butanol	< 20.0	ug/L	N	
Methyl-t-butyl ether (MTBE)	< 2.0	ug/L	A		trans-1,2-Dichloroethene	< 1.0	ug/L	A	
Di-isopropyl ether (DIPE)	< 2.0	ug/L	N		1,1-Dichloroethane	< 1.0	ug/L	A	
Ethyl-t-butyl ether (ETBE)	< 2.0	ug/L	N		2-Butanone	< 10.0	ug/L	A	
2,2-Dichloropropane	< 2.0	ug/L	N		cis-1,2-Dichloroethene	< 1.0	ug/L	N	
Bromochloromethane	< 2.0	ug/L	N		Chloroform	< 1.0	ug/L	A	
Tetrahydrofuran	< 10.0	ug/L	U		1,1,1-Trichloroethane	< 1.0	ug/L	A	
Carbon tetrachloride	< 1.0	ug/L	A		1,1-Dichloropropene	< 1.0	ug/L	N	
Benzene	< 1.0	ug/L	A		t-Amylmethyl ether (TAME)	< 2.0	ug/L	N	
1,2-Dichloroethane	< 1.0	ug/L	A		Trichloroethene	< 1.0	ug/L	A	
1,2-Dichloropropane	< 2.0	ug/L	A		Dibromomethane	< 2.0	ug/L	N	
Bromodichloromethane	< 0.5	ug/L	A		cis-1,3-Dichloropropene	< 1.0	ug/L	A	
4-Methyl-2-pentanone (MIBK)	< 10.0	ug/L	N		Toluene	< 1.0	ug/L	A	
trans-1,3-Dichloropropene	< 1.0	ug/L	A		1,1,2-Trichloroethane	< 1.0	ug/L	A	
Tetrachloroethene	< 1.0	ug/L	A		1,3-Dichloropropane	< 1.0	ug/L	N	
2-Hexanone	< 10.0	ug/L	N		Dibromochloromethane	< 2.0	ug/L	A	
1,2-Dibromoethane	< 1.0	ug/L	A		Chlorobenzene	< 1.0	ug/L	A	
Ethylbenzene	< 1.0	ug/L	A		1,1,1,2-Tetrachloroethane	< 2.0	ug/L	A	
Xylenes, Total	< 2.0	ug/L	A		Styrene	< 1.0	ug/L	N	
Bromoform	< 2.0	ug/L	A		Isopropylbenzene	< 1.0	ug/L	A	
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	A		Bromobenzene	< 1.0	ug/L	N	
n-Propylbenzene	< 1.0	ug/L	A		1,2,3-Trichloropropane	< 2.0	ug/L	N	
2-Chlorotoluene	< 1.0	ug/L	N		1,3,5-Trimethylbenzene	< 1.0	ug/L	A	
4-Chlorotoluene	< 1.0	ug/L	N		t-Butylbenzene	< 1.0	ug/L	A	
1,2,4-Trimethylbenzene	< 1.0	ug/L	A		s-Butylbenzene	< 1.0	ug/L	N	
4-Isopropyltoluene	< 1.0	ug/L	A		1,3-Dichlorobenzene	< 1.0	ug/L	A	
1,4-Dichlorobenzene	< 1.0	ug/L	A		n-Butylbenzene	< 1.0	ug/L	A	
1,2-Dichlorobenzene	< 1.0	ug/L	A		1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	A		1,3,5-Trichlorobenzene	< 2.0	ug/L	N	
Hexachlorobutadiene	< 0.5	ug/L	N		Naphthalene	< 2.0	ug/L	A	
1,2,3-Trichlorobenzene	< 2.0	ug/L	N		Surr. 1 (Dibromofluoromethane)	107	%	N	
Surr. 3 (4-Bromofluorobenzene)	105	%	N		Surr. 2 (Toluene d8)	106	%	N	
Unidentified Peaks	0		U						

CLIENT: WaiteHeindel Environmental Mgt
PROJECT: NEWSVT LF Ground Water
REPORT DATE: 11/6/2014

WORK ORDER: **1410-21187**
DATE RECEIVED: 10/09/2014

TEST METHOD: EPA 8260C

007 Site: P6 Sampled: 10/7/14 15:23 Test Date: 10/14/14 W MHM

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Dichlorodifluoromethane	< 5.0	ug/L	A		Chloromethane	< 3.0	ug/L	N	
Vinyl chloride	< 2.0	ug/L	A		Bromomethane	< 5.0	ug/L	A	
Chloroethane	< 5.0	ug/L	A		Trichlorofluoromethane	< 2.0	ug/L	A	
Diethyl ether	< 5.0	ug/L	N		1,1-Dichloroethene	< 1.0	ug/L	A	
Acetone	< 10.0	ug/L	A		Carbon disulfide	< 5.0	ug/L	A	
Methylene chloride	< 5.0	ug/L	A		t-Butanol	< 20.0	ug/L	N	
Methyl-t-butyl ether (MTBE)	< 2.0	ug/L	A		trans-1,2-Dichloroethene	< 1.0	ug/L	A	
Di-isopropyl ether (DIPE)	< 2.0	ug/L	N		1,1-Dichloroethane	< 1.0	ug/L	A	
Ethyl-t-butyl ether (ETBE)	< 2.0	ug/L	N		2-Butanone	< 10.0	ug/L	A	
2,2-Dichloropropane	< 2.0	ug/L	N		cis-1,2-Dichloroethene	< 1.0	ug/L	N	
Bromochloromethane	< 2.0	ug/L	N		Chloroform	< 1.0	ug/L	A	
Tetrahydrofuran	< 10.0	ug/L	U		1,1,1-Trichloroethane	< 1.0	ug/L	A	
Carbon tetrachloride	< 1.0	ug/L	A		1,1-Dichloropropene	< 1.0	ug/L	N	
Benzene	< 1.0	ug/L	A		t-Amylmethyl ether (TAME)	< 2.0	ug/L	N	
1,2-Dichloroethane	< 1.0	ug/L	A		Trichloroethene	< 1.0	ug/L	A	
1,2-Dichloropropane	< 2.0	ug/L	A		Dibromomethane	< 2.0	ug/L	N	
Bromodichloromethane	< 0.5	ug/L	A		cis-1,3-Dichloropropene	< 1.0	ug/L	A	
4-Methyl-2-pentanone (MIBK)	< 10.0	ug/L	N		Toluene	< 1.0	ug/L	A	
trans-1,3-Dichloropropene	< 1.0	ug/L	A		1,1,2-Trichloroethane	< 1.0	ug/L	A	
Tetrachloroethene	< 1.0	ug/L	A		1,3-Dichloropropane	< 1.0	ug/L	N	
2-Hexanone	< 10.0	ug/L	N		Dibromochloromethane	< 2.0	ug/L	A	
1,2-Dibromoethane	< 1.0	ug/L	A		Chlorobenzene	< 1.0	ug/L	A	
Ethylbenzene	< 1.0	ug/L	A		1,1,1,2-Tetrachloroethane	< 2.0	ug/L	A	
Xylenes, Total	< 2.0	ug/L	A		Styrene	< 1.0	ug/L	N	
Bromoform	< 2.0	ug/L	A		Isopropylbenzene	< 1.0	ug/L	A	
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	A		Bromobenzene	< 1.0	ug/L	N	
n-Propylbenzene	< 1.0	ug/L	A		1,2,3-Trichloropropane	< 2.0	ug/L	N	
2-Chlorotoluene	< 1.0	ug/L	N		1,3,5-Trimethylbenzene	< 1.0	ug/L	A	
4-Chlorotoluene	< 1.0	ug/L	N		t-Butylbenzene	< 1.0	ug/L	A	
1,2,4-Trimethylbenzene	< 1.0	ug/L	A		s-Butylbenzene	< 1.0	ug/L	N	
4-Isopropyltoluene	< 1.0	ug/L	A		1,3-Dichlorobenzene	< 1.0	ug/L	A	
1,4-Dichlorobenzene	< 1.0	ug/L	A		n-Butylbenzene	< 1.0	ug/L	A	
1,2-Dichlorobenzene	< 1.0	ug/L	A		1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	A		1,3,5-Trichlorobenzene	< 2.0	ug/L	N	
Hexachlorobutadiene	< 0.5	ug/L	N		Naphthalene	< 2.0	ug/L	A	
1,2,3-Trichlorobenzene	< 2.0	ug/L	N		Surr. 1 (Dibromofluoromethane)	108	%	N	
Surr. 3 (4-Bromofluorobenzene)	102	%	N		Surr. 2 (Toluene d8)	105	%	N	
Unidentified Peaks	0		U						

CLIENT: WaiteHeindel Environmental Mgt
PROJECT: NEWSVT LF Ground Water
REPORT DATE: 11/6/2014

WORK ORDER: **1410-21187**
DATE RECEIVED: 10/09/2014

TEST METHOD: EPA 8260C

008 Site: BRW-3S Sampled: 10/7/14 10:03 Test Date: 10/14/14 W MHM

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Dichlorodifluoromethane	< 5.0	ug/L	A		Chloromethane	< 3.0	ug/L	N	
Vinyl chloride	< 2.0	ug/L	A		Bromomethane	< 5.0	ug/L	A	
Chloroethane	< 5.0	ug/L	A		Trichlorofluoromethane	< 2.0	ug/L	A	
Diethyl ether	< 5.0	ug/L	N		1,1-Dichloroethene	< 1.0	ug/L	A	
Acetone	< 10.0	ug/L	A		Carbon disulfide	< 5.0	ug/L	A	
Methylene chloride	< 5.0	ug/L	A		t-Butanol	< 20.0	ug/L	N	
Methyl-t-butyl ether (MTBE)	< 2.0	ug/L	A		trans-1,2-Dichloroethene	< 1.0	ug/L	A	
Di-isopropyl ether (DIPE)	< 2.0	ug/L	N		1,1-Dichloroethane	< 1.0	ug/L	A	
Ethyl-t-butyl ether (ETBE)	< 2.0	ug/L	N		2-Butanone	< 10.0	ug/L	A	
2,2-Dichloropropane	< 2.0	ug/L	N		cis-1,2-Dichloroethene	< 1.0	ug/L	N	
Bromochloromethane	< 2.0	ug/L	N		Chloroform	< 1.0	ug/L	A	
Tetrahydrofuran	< 10.0	ug/L	U		1,1,1-Trichloroethane	< 1.0	ug/L	A	
Carbon tetrachloride	< 1.0	ug/L	A		1,1-Dichloropropene	< 1.0	ug/L	N	
Benzene	< 1.0	ug/L	A		t-Amylmethyl ether (TAME)	< 2.0	ug/L	N	
1,2-Dichloroethane	< 1.0	ug/L	A		Trichloroethene	< 1.0	ug/L	A	
1,2-Dichloropropane	< 2.0	ug/L	A		Dibromomethane	< 2.0	ug/L	N	
Bromodichloromethane	< 0.5	ug/L	A		cis-1,3-Dichloropropene	< 1.0	ug/L	A	
4-Methyl-2-pentanone (MIBK)	< 10.0	ug/L	N		Toluene	< 1.0	ug/L	A	
trans-1,3-Dichloropropene	< 1.0	ug/L	A		1,1,2-Trichloroethane	< 1.0	ug/L	A	
Tetrachloroethene	< 1.0	ug/L	A		1,3-Dichloropropane	< 1.0	ug/L	N	
2-Hexanone	< 10.0	ug/L	N		Dibromochloromethane	< 2.0	ug/L	A	
1,2-Dibromoethane	< 1.0	ug/L	A		Chlorobenzene	< 1.0	ug/L	A	
Ethylbenzene	< 1.0	ug/L	A		1,1,1,2-Tetrachloroethane	< 2.0	ug/L	A	
Xylenes, Total	< 2.0	ug/L	A		Styrene	< 1.0	ug/L	N	
Bromoform	< 2.0	ug/L	A		Isopropylbenzene	< 1.0	ug/L	A	
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	A		Bromobenzene	< 1.0	ug/L	N	
n-Propylbenzene	< 1.0	ug/L	A		1,2,3-Trichloropropane	< 2.0	ug/L	N	
2-Chlorotoluene	< 1.0	ug/L	N		1,3,5-Trimethylbenzene	< 1.0	ug/L	A	
4-Chlorotoluene	< 1.0	ug/L	N		t-Butylbenzene	< 1.0	ug/L	A	
1,2,4-Trimethylbenzene	< 1.0	ug/L	A		s-Butylbenzene	< 1.0	ug/L	N	
4-Isopropyltoluene	< 1.0	ug/L	A		1,3-Dichlorobenzene	< 1.0	ug/L	A	
1,4-Dichlorobenzene	< 1.0	ug/L	A		n-Butylbenzene	< 1.0	ug/L	A	
1,2-Dichlorobenzene	< 1.0	ug/L	A		1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	A		1,3,5-Trichlorobenzene	< 2.0	ug/L	N	
Hexachlorobutadiene	< 0.5	ug/L	N		Naphthalene	< 2.0	ug/L	A	
1,2,3-Trichlorobenzene	< 2.0	ug/L	N		Surr. 1 (Dibromofluoromethane)	109	%	N	
Surr. 2 (Toluene d8)	104	%	N		Surr. 3 (4-Bromofluorobenzene)	97	%	N	
Unidentified Peaks	0		U						

CLIENT: WaiteHeindel Environmental Mgt
PROJECT: NEWSVT LF Ground Water
REPORT DATE: 11/6/2014

WORK ORDER: **1410-21187**
DATE RECEIVED: 10/09/2014

TEST METHOD: EPA 8260C

009 Site: 409 Sampled: 10/7/14 16:26 Test Date: 10/15/14 W MHM

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Dichlorodifluoromethane	< 5.0	ug/L	A		Chloromethane	< 3.0	ug/L	N	
Vinyl chloride	< 2.0	ug/L	A		Bromomethane	< 5.0	ug/L	A	
Chloroethane	< 5.0	ug/L	A		Trichlorofluoromethane	< 2.0	ug/L	A	
Diethyl ether	< 5.0	ug/L	N		1,1-Dichloroethene	< 1.0	ug/L	A	
Acetone	< 10.0	ug/L	A		Carbon disulfide	< 5.0	ug/L	A	
Methylene chloride	< 5.0	ug/L	A		t-Butanol	< 20.0	ug/L	N	
Methyl-t-butyl ether (MTBE)	< 2.0	ug/L	A		trans-1,2-Dichloroethene	< 1.0	ug/L	A	
Di-isopropyl ether (DIPE)	< 2.0	ug/L	N		1,1-Dichloroethane	< 1.0	ug/L	A	
Ethyl-t-butyl ether (ETBE)	< 2.0	ug/L	N		2-Butanone	< 10.0	ug/L	A	
2,2-Dichloropropane	< 2.0	ug/L	N		cis-1,2-Dichloroethene	< 1.0	ug/L	N	
Bromochloromethane	< 2.0	ug/L	N		Chloroform	< 1.0	ug/L	A	
Tetrahydrofuran	< 10.0	ug/L	U		1,1,1-Trichloroethane	< 1.0	ug/L	A	
Carbon tetrachloride	< 1.0	ug/L	A		1,1-Dichloropropene	< 1.0	ug/L	N	
Benzene	< 1.0	ug/L	A		t-Amylmethyl ether (TAME)	< 2.0	ug/L	N	
1,2-Dichloroethane	< 1.0	ug/L	A		Trichloroethene	< 1.0	ug/L	A	
1,2-Dichloropropane	< 2.0	ug/L	A		Dibromomethane	< 2.0	ug/L	N	
Bromodichloromethane	< 0.5	ug/L	A		cis-1,3-Dichloropropene	< 1.0	ug/L	A	
4-Methyl-2-pentanone (MIBK)	< 10.0	ug/L	N		Toluene	< 1.0	ug/L	A	
trans-1,3-Dichloropropene	< 1.0	ug/L	A		1,1,2-Trichloroethane	< 1.0	ug/L	A	
Tetrachloroethene	< 1.0	ug/L	A		1,3-Dichloropropane	< 1.0	ug/L	N	
2-Hexanone	< 10.0	ug/L	N		Dibromochloromethane	< 2.0	ug/L	A	
1,2-Dibromoethane	< 1.0	ug/L	A		Chlorobenzene	< 1.0	ug/L	A	
Ethylbenzene	< 1.0	ug/L	A		1,1,1,2-Tetrachloroethane	< 2.0	ug/L	A	
Xylenes, Total	< 2.0	ug/L	A		Styrene	< 1.0	ug/L	N	
Bromoform	< 2.0	ug/L	A		Isopropylbenzene	< 1.0	ug/L	A	
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	A		Bromobenzene	< 1.0	ug/L	N	
n-Propylbenzene	< 1.0	ug/L	A		1,2,3-Trichloropropane	< 2.0	ug/L	N	
2-Chlorotoluene	< 1.0	ug/L	N		1,3,5-Trimethylbenzene	< 1.0	ug/L	A	
4-Chlorotoluene	< 1.0	ug/L	N		t-Butylbenzene	< 1.0	ug/L	A	
1,2,4-Trimethylbenzene	< 1.0	ug/L	A		s-Butylbenzene	< 1.0	ug/L	N	
4-Isopropyltoluene	< 1.0	ug/L	A		1,3-Dichlorobenzene	< 1.0	ug/L	A	
1,4-Dichlorobenzene	< 1.0	ug/L	A		n-Butylbenzene	< 1.0	ug/L	A	
1,2-Dichlorobenzene	< 1.0	ug/L	A		1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	A		1,3,5-Trichlorobenzene	< 2.0	ug/L	N	
Hexachlorobutadiene	< 0.5	ug/L	N		Naphthalene	< 2.0	ug/L	A	
1,2,3-Trichlorobenzene	< 2.0	ug/L	N		Surr. 1 (Dibromofluoromethane)	111	%	N	
Surr. 3 (4-Bromofluorobenzene)	104	%	N		Surr. 2 (Toluene d8)	106	%	N	
Unidentified Peaks	0		U						

CLIENT: WaiteHeindel Environmental Mgt
PROJECT: NEWSVT LF Ground Water
REPORT DATE: 11/6/2014

WORK ORDER: **1410-21187**
DATE RECEIVED: 10/09/2014

TEST METHOD: EPA 8260C

010 Site: 703 Sampled: 10/6/14 17:17 Test Date: 10/15/14 W MHM

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Dichlorodifluoromethane	< 5.0	ug/L	A		Chloromethane	< 3.0	ug/L	N	
Vinyl chloride	< 2.0	ug/L	A		Bromomethane	< 5.0	ug/L	A	
Chloroethane	< 5.0	ug/L	A		Trichlorofluoromethane	< 2.0	ug/L	A	
Diethyl ether	< 5.0	ug/L	N		1,1-Dichloroethene	< 1.0	ug/L	A	
Acetone	< 10.0	ug/L	A		Carbon disulfide	< 5.0	ug/L	A	
Methylene chloride	< 5.0	ug/L	A		t-Butanol	< 20.0	ug/L	N	
Methyl-t-butyl ether (MTBE)	< 2.0	ug/L	A		trans-1,2-Dichloroethene	< 1.0	ug/L	A	
Di-isopropyl ether (DIPE)	< 2.0	ug/L	N		1,1-Dichloroethane	< 1.0	ug/L	A	
Ethyl-t-butyl ether (ETBE)	< 2.0	ug/L	N		2-Butanone	< 10.0	ug/L	A	
2,2-Dichloropropane	< 2.0	ug/L	N		cis-1,2-Dichloroethene	< 1.0	ug/L	N	
Bromochloromethane	< 2.0	ug/L	N		Chloroform	< 1.0	ug/L	A	
Tetrahydrofuran	< 10.0	ug/L	U		1,1,1-Trichloroethane	< 1.0	ug/L	A	
Carbon tetrachloride	< 1.0	ug/L	A		1,1-Dichloropropene	< 1.0	ug/L	N	
Benzene	< 1.0	ug/L	A		t-Amylmethyl ether (TAME)	< 2.0	ug/L	N	
1,2-Dichloroethane	< 1.0	ug/L	A		Trichloroethene	< 1.0	ug/L	A	
1,2-Dichloropropane	< 2.0	ug/L	A		Dibromomethane	< 2.0	ug/L	N	
Bromodichloromethane	< 0.5	ug/L	A		cis-1,3-Dichloropropene	< 1.0	ug/L	A	
4-Methyl-2-pentanone (MIBK)	< 10.0	ug/L	N		Toluene	< 1.0	ug/L	A	
trans-1,3-Dichloropropene	< 1.0	ug/L	A		1,1,2-Trichloroethane	< 1.0	ug/L	A	
Tetrachloroethene	< 1.0	ug/L	A		1,3-Dichloropropane	< 1.0	ug/L	N	
2-Hexanone	< 10.0	ug/L	N		Dibromochloromethane	< 2.0	ug/L	A	
1,2-Dibromoethane	< 1.0	ug/L	A		Chlorobenzene	< 1.0	ug/L	A	
Ethylbenzene	< 1.0	ug/L	A		1,1,1,2-Tetrachloroethane	< 2.0	ug/L	A	
Xylenes, Total	< 2.0	ug/L	A		Styrene	< 1.0	ug/L	N	
Bromoform	< 2.0	ug/L	A		Isopropylbenzene	< 1.0	ug/L	A	
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	A		Bromobenzene	< 1.0	ug/L	N	
n-Propylbenzene	< 1.0	ug/L	A		1,2,3-Trichloropropane	< 2.0	ug/L	N	
2-Chlorotoluene	< 1.0	ug/L	N		1,3,5-Trimethylbenzene	< 1.0	ug/L	A	
4-Chlorotoluene	< 1.0	ug/L	N		t-Butylbenzene	< 1.0	ug/L	A	
1,2,4-Trimethylbenzene	< 1.0	ug/L	A		s-Butylbenzene	< 1.0	ug/L	N	
4-Isopropyltoluene	< 1.0	ug/L	A		1,3-Dichlorobenzene	< 1.0	ug/L	A	
1,4-Dichlorobenzene	< 1.0	ug/L	A		n-Butylbenzene	< 1.0	ug/L	A	
1,2-Dichlorobenzene	< 1.0	ug/L	A		1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	A		1,3,5-Trichlorobenzene	< 2.0	ug/L	N	
Hexachlorobutadiene	< 0.5	ug/L	N		Naphthalene	< 2.0	ug/L	A	
1,2,3-Trichlorobenzene	< 2.0	ug/L	N		Surr. 1 (Dibromofluoromethane)	104	%	N	
Surr. 3 (4-Bromofluorobenzene)	103	%	N		Surr. 2 (Toluene d8)	105	%	N	
Unidentified Peaks	0		U						

CLIENT: WaiteHeindel Environmental Mgt
PROJECT: NEWSVT LF Ground Water
REPORT DATE: 11/6/2014

WORK ORDER: **1410-21187**
DATE RECEIVED: 10/09/2014

TEST METHOD: EPA 8260C

011 Site: 412R Sampled: 10/7/14 11:31 Test Date: 10/15/14 W MHM

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Dichlorodifluoromethane	< 5.0	ug/L	A		Chloromethane	< 3.0	ug/L	N	
Vinyl chloride	< 2.0	ug/L	A		Bromomethane	< 5.0	ug/L	A	
Chloroethane	< 5.0	ug/L	A		Trichlorofluoromethane	< 2.0	ug/L	A	
Diethyl ether	< 5.0	ug/L	N		1,1-Dichloroethene	< 1.0	ug/L	A	
Acetone	< 10.0	ug/L	A		Carbon disulfide	< 5.0	ug/L	A	
Methylene chloride	< 5.0	ug/L	A		t-Butanol	< 20.0	ug/L	N	
Methyl-t-butyl ether (MTBE)	< 2.0	ug/L	A		trans-1,2-Dichloroethene	< 1.0	ug/L	A	
Di-isopropyl ether (DIPE)	< 2.0	ug/L	N		1,1-Dichloroethane	< 1.0	ug/L	A	
Ethyl-t-butyl ether (ETBE)	< 2.0	ug/L	N		2-Butanone	< 10.0	ug/L	A	
2,2-Dichloropropane	< 2.0	ug/L	N		cis-1,2-Dichloroethene	< 1.0	ug/L	N	
Bromochloromethane	< 2.0	ug/L	N		Chloroform	< 1.0	ug/L	A	
Tetrahydrofuran	< 10.0	ug/L	U		1,1,1-Trichloroethane	< 1.0	ug/L	A	
Carbon tetrachloride	< 1.0	ug/L	A		1,1-Dichloropropene	< 1.0	ug/L	N	
Benzene	< 1.0	ug/L	A		t-Amylmethyl ether (TAME)	< 2.0	ug/L	N	
1,2-Dichloroethane	< 1.0	ug/L	A		Trichloroethene	< 1.0	ug/L	A	
1,2-Dichloropropane	< 2.0	ug/L	A		Dibromomethane	< 2.0	ug/L	N	
Bromodichloromethane	< 0.5	ug/L	A		cis-1,3-Dichloropropene	< 1.0	ug/L	A	
4-Methyl-2-pentanone (MIBK)	< 10.0	ug/L	N		Toluene	< 1.0	ug/L	A	
trans-1,3-Dichloropropene	< 1.0	ug/L	A		1,1,2-Trichloroethane	< 1.0	ug/L	A	
Tetrachloroethene	< 1.0	ug/L	A		1,3-Dichloropropane	< 1.0	ug/L	N	
2-Hexanone	< 10.0	ug/L	N		Dibromochloromethane	< 2.0	ug/L	A	
1,2-Dibromoethane	< 1.0	ug/L	A		Chlorobenzene	< 1.0	ug/L	A	
Ethylbenzene	< 1.0	ug/L	A		1,1,1,2-Tetrachloroethane	< 2.0	ug/L	A	
Xylenes, Total	< 2.0	ug/L	A		Styrene	< 1.0	ug/L	N	
Bromoform	< 2.0	ug/L	A		Isopropylbenzene	< 1.0	ug/L	A	
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	A		Bromobenzene	< 1.0	ug/L	N	
n-Propylbenzene	< 1.0	ug/L	A		1,2,3-Trichloropropane	< 2.0	ug/L	N	
2-Chlorotoluene	< 1.0	ug/L	N		1,3,5-Trimethylbenzene	< 1.0	ug/L	A	
4-Chlorotoluene	< 1.0	ug/L	N		t-Butylbenzene	< 1.0	ug/L	A	
1,2,4-Trimethylbenzene	< 1.0	ug/L	A		s-Butylbenzene	< 1.0	ug/L	N	
4-Isopropyltoluene	< 1.0	ug/L	A		1,3-Dichlorobenzene	< 1.0	ug/L	A	
1,4-Dichlorobenzene	< 1.0	ug/L	A		n-Butylbenzene	< 1.0	ug/L	A	
1,2-Dichlorobenzene	< 1.0	ug/L	A		1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	A		1,3,5-Trichlorobenzene	< 2.0	ug/L	N	
Hexachlorobutadiene	< 0.5	ug/L	N		Naphthalene	< 2.0	ug/L	A	
1,2,3-Trichlorobenzene	< 2.0	ug/L	N		Surr. 1 (Dibromofluoromethane)	106	%	N	
Surr. 3 (4-Bromofluorobenzene)	104	%	N		Surr. 2 (Toluene d8)	106	%	N	
Unidentified Peaks	0		U						

CLIENT: WaiteHeindel Environmental Mgt
PROJECT: NEWSVT LF Ground Water
REPORT DATE: 11/6/2014

WORK ORDER: **1410-21187**
DATE RECEIVED: 10/09/2014

TEST METHOD: EPA 8260C

012 Site: 705 Sampled: 10/7/14 16:32 Test Date: 10/15/14 W MHM

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Dichlorodifluoromethane	< 5.0	ug/L	A		Chloromethane	< 3.0	ug/L	N	
Vinyl chloride	< 2.0	ug/L	A		Bromomethane	< 5.0	ug/L	A	
Chloroethane	< 5.0	ug/L	A		Trichlorofluoromethane	< 2.0	ug/L	A	
Diethyl ether	< 5.0	ug/L	N		1,1-Dichloroethene	< 1.0	ug/L	A	
Acetone	< 10.0	ug/L	A		Carbon disulfide	< 5.0	ug/L	A	
Methylene chloride	< 5.0	ug/L	A		t-Butanol	< 20.0	ug/L	N	
Methyl-t-butyl ether (MTBE)	< 2.0	ug/L	A		trans-1,2-Dichloroethene	< 1.0	ug/L	A	
Di-isopropyl ether (DIPE)	< 2.0	ug/L	N		1,1-Dichloroethane	< 1.0	ug/L	A	
Ethyl-t-butyl ether (ETBE)	< 2.0	ug/L	N		2-Butanone	< 10.0	ug/L	A	
2,2-Dichloropropane	< 2.0	ug/L	N		cis-1,2-Dichloroethene	< 1.0	ug/L	N	
Bromochloromethane	< 2.0	ug/L	N		Chloroform	< 1.0	ug/L	A	
Tetrahydrofuran	< 10.0	ug/L	U		1,1,1-Trichloroethane	< 1.0	ug/L	A	
Carbon tetrachloride	< 1.0	ug/L	A		1,1-Dichloropropene	< 1.0	ug/L	N	
Benzene	< 1.0	ug/L	A		t-Amylmethyl ether (TAME)	< 2.0	ug/L	N	
1,2-Dichloroethane	< 1.0	ug/L	A		Trichloroethene	< 1.0	ug/L	A	
1,2-Dichloropropane	< 2.0	ug/L	A		Dibromomethane	< 2.0	ug/L	N	
Bromodichloromethane	< 0.5	ug/L	A		cis-1,3-Dichloropropene	< 1.0	ug/L	A	
4-Methyl-2-pentanone (MIBK)	< 10.0	ug/L	N		Toluene	< 1.0	ug/L	A	
trans-1,3-Dichloropropene	< 1.0	ug/L	A		1,1,2-Trichloroethane	< 1.0	ug/L	A	
Tetrachloroethene	< 1.0	ug/L	A		1,3-Dichloropropane	< 1.0	ug/L	N	
2-Hexanone	< 10.0	ug/L	N		Dibromochloromethane	< 2.0	ug/L	A	
1,2-Dibromoethane	< 1.0	ug/L	A		Chlorobenzene	< 1.0	ug/L	A	
Ethylbenzene	< 1.0	ug/L	A		1,1,1,2-Tetrachloroethane	< 2.0	ug/L	A	
Xylenes, Total	< 2.0	ug/L	A		Styrene	< 1.0	ug/L	N	
Bromoform	< 2.0	ug/L	A		Isopropylbenzene	< 1.0	ug/L	A	
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	A		Bromobenzene	< 1.0	ug/L	N	
n-Propylbenzene	< 1.0	ug/L	A		1,2,3-Trichloropropane	< 2.0	ug/L	N	
2-Chlorotoluene	< 1.0	ug/L	N		1,3,5-Trimethylbenzene	< 1.0	ug/L	A	
4-Chlorotoluene	< 1.0	ug/L	N		t-Butylbenzene	< 1.0	ug/L	A	
1,2,4-Trimethylbenzene	< 1.0	ug/L	A		s-Butylbenzene	< 1.0	ug/L	N	
4-Isopropyltoluene	< 1.0	ug/L	A		1,3-Dichlorobenzene	< 1.0	ug/L	A	
1,4-Dichlorobenzene	< 1.0	ug/L	A		n-Butylbenzene	< 1.0	ug/L	A	
1,2-Dichlorobenzene	< 1.0	ug/L	A		1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	A		1,3,5-Trichlorobenzene	< 2.0	ug/L	N	
Hexachlorobutadiene	< 0.5	ug/L	N		Naphthalene	< 2.0	ug/L	A	
1,2,3-Trichlorobenzene	< 2.0	ug/L	N		Surr. 1 (Dibromofluoromethane)	110	%	N	
Surr. 2 (Toluene d8)	105	%	N		Surr. 3 (4-Bromofluorobenzene)	102	%	N	
Unidentified Peaks	0		U						

CLIENT: WaiteHeindel Environmental Mgt
PROJECT: NEWSVT LF Ground Water
REPORT DATE: 11/6/2014

WORK ORDER: **1410-21187**
DATE RECEIVED: 10/09/2014

TEST METHOD: EPA 8260C

013 Site: 706 Sampled: 10/7/14 14:57 Test Date: 10/15/14 W MHM

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Dichlorodifluoromethane	< 5.0	ug/L	A		Chloromethane	< 3.0	ug/L	N	
Vinyl chloride	< 2.0	ug/L	A		Bromomethane	< 5.0	ug/L	A	
Chloroethane	< 5.0	ug/L	A		Trichlorofluoromethane	< 2.0	ug/L	A	
Diethyl ether	< 5.0	ug/L	N		1,1-Dichloroethene	< 1.0	ug/L	A	
Acetone	< 10.0	ug/L	A		Carbon disulfide	< 5.0	ug/L	A	
Methylene chloride	< 5.0	ug/L	A		t-Butanol	< 20.0	ug/L	N	RPD
Methyl-t-butyl ether (MTBE)	< 2.0	ug/L	A		trans-1,2-Dichloroethene	< 1.0	ug/L	A	
Di-isopropyl ether (DIPE)	< 2.0	ug/L	N		1,1-Dichloroethane	< 1.0	ug/L	A	
Ethyl-t-butyl ether (ETBE)	< 2.0	ug/L	N		2-Butanone	< 10.0	ug/L	A	RPD
2,2-Dichloropropane	< 2.0	ug/L	N		cis-1,2-Dichloroethene	< 1.0	ug/L	N	
Bromochloromethane	< 2.0	ug/L	N		Chloroform	< 1.0	ug/L	A	
Tetrahydrofuran	< 10.0	ug/L	U	RPD	1,1,1-Trichloroethane	< 1.0	ug/L	A	
Carbon tetrachloride	< 1.0	ug/L	A		1,1-Dichloropropene	< 1.0	ug/L	N	
Benzene	< 1.0	ug/L	A		t-Amylmethyl ether (TAME)	< 2.0	ug/L	N	
1,2-Dichloroethane	< 1.0	ug/L	A		Trichloroethene	< 1.0	ug/L	A	
1,2-Dichloropropane	< 2.0	ug/L	A		Dibromomethane	< 2.0	ug/L	N	
Bromodichloromethane	< 0.5	ug/L	A		cis-1,3-Dichloropropene	< 1.0	ug/L	A	
4-Methyl-2-pentanone (MIBK)	< 10.0	ug/L	N		Toluene	< 1.0	ug/L	A	
trans-1,3-Dichloropropene	< 1.0	ug/L	A		1,1,2-Trichloroethane	< 1.0	ug/L	A	
Tetrachloroethene	< 1.0	ug/L	A		1,3-Dichloropropane	< 1.0	ug/L	N	
2-Hexanone	< 10.0	ug/L	N	RPD	Dibromochloromethane	< 2.0	ug/L	A	
1,2-Dibromoethane	< 1.0	ug/L	A		Chlorobenzene	< 1.0	ug/L	A	
Ethylbenzene	< 1.0	ug/L	A		1,1,1,2-Tetrachloroethane	< 2.0	ug/L	A	
Xylenes, Total	< 2.0	ug/L	A		Styrene	< 1.0	ug/L	N	
Bromoform	< 2.0	ug/L	A		Isopropylbenzene	< 1.0	ug/L	A	
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	A		Bromobenzene	< 1.0	ug/L	N	
n-Propylbenzene	< 1.0	ug/L	A		1,2,3-Trichloropropane	< 2.0	ug/L	N	
2-Chlorotoluene	< 1.0	ug/L	N		1,3,5-Trimethylbenzene	< 1.0	ug/L	A	
4-Chlorotoluene	< 1.0	ug/L	N		t-Butylbenzene	< 1.0	ug/L	A	
1,2,4-Trimethylbenzene	< 1.0	ug/L	A		s-Butylbenzene	< 1.0	ug/L	N	
4-Isopropyltoluene	< 1.0	ug/L	A		1,3-Dichlorobenzene	< 1.0	ug/L	A	
1,4-Dichlorobenzene	< 1.0	ug/L	A		n-Butylbenzene	< 1.0	ug/L	A	
1,2-Dichlorobenzene	< 1.0	ug/L	A		1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	A		1,3,5-Trichlorobenzene	< 2.0	ug/L	N	
Hexachlorobutadiene	< 0.5	ug/L	N		Naphthalene	< 2.0	ug/L	A	
1,2,3-Trichlorobenzene	< 2.0	ug/L	N		Surr. 1 (Dibromofluoromethane)	107	%	N	
Surr. 3 (4-Bromofluorobenzene)	104	%	N		Surr. 2 (Toluene d8)	107	%	N	
Unidentified Peaks	0		U						

CLIENT: WaiteHeindel Environmental Mgt
PROJECT: NEWSVT LF Ground Water
REPORT DATE: 11/6/2014

WORK ORDER: **1410-21187**
DATE RECEIVED: 10/09/2014

TEST METHOD: EPA 8260C

014 Site: DW-21 Sampled: 10/8/14 8:45 Test Date: 10/21/14 W SJM

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Dichlorodifluoromethane	< 5.0	ug/L	A		Chloromethane	< 3.0	ug/L	N	
Vinyl chloride	< 2.0	ug/L	A		Bromomethane	< 5.0	ug/L	A	
Chloroethane	< 5.0	ug/L	A		Trichlorofluoromethane	< 2.0	ug/L	A	
Diethyl ether	< 5.0	ug/L	N		1,1-Dichloroethene	< 1.0	ug/L	A	QA-
Acetone	< 10.0	ug/L	A	QA-	Carbon disulfide	< 5.0	ug/L	A	
Methylene chloride	< 5.0	ug/L	A		t-Butanol	< 20.0	ug/L	N	
Methyl-t-butyl ether (MTBE)	< 2.0	ug/L	A		trans-1,2-Dichloroethene	< 1.0	ug/L	A	
Di-isopropyl ether (DIPE)	< 2.0	ug/L	N		1,1-Dichloroethane	< 1.0	ug/L	A	
Ethyl-t-butyl ether (ETBE)	< 2.0	ug/L	N		2-Butanone	< 10.0	ug/L	A	
2,2-Dichloropropane	< 2.0	ug/L	N		cis-1,2-Dichloroethene	< 1.0	ug/L	N	
Bromochloromethane	< 2.0	ug/L	N		Chloroform	< 1.0	ug/L	A	
Tetrahydrofuran	< 10.0	ug/L	U		1,1,1-Trichloroethane	< 1.0	ug/L	A	
Carbon tetrachloride	< 1.0	ug/L	A		1,1-Dichloropropene	< 1.0	ug/L	N	
Benzene	< 1.0	ug/L	A		t-Amylmethyl ether (TAME)	< 2.0	ug/L	N	
1,2-Dichloroethane	< 1.0	ug/L	A		Trichloroethene	< 1.0	ug/L	A	
1,2-Dichloropropane	< 2.0	ug/L	A		Dibromomethane	< 2.0	ug/L	N	
Bromodichloromethane	< 0.5	ug/L	A		cis-1,3-Dichloropropene	< 2.0	ug/L	A	
4-Methyl-2-pentanone (MIBK)	< 10.0	ug/L	N		Toluene	< 1.0	ug/L	A	
trans-1,3-Dichloropropene	< 2.0	ug/L	A		1,1,2-Trichloroethane	< 1.0	ug/L	A	
Tetrachloroethene	< 1.0	ug/L	A		1,3-Dichloropropane	< 1.0	ug/L	N	
2-Hexanone	< 10.0	ug/L	N		Dibromochloromethane	< 2.0	ug/L	A	
1,2-Dibromoethane	< 1.0	ug/L	A		Chlorobenzene	< 1.0	ug/L	A	
Ethylbenzene	< 1.0	ug/L	A		1,1,1,2-Tetrachloroethane	< 2.0	ug/L	A	
Xylenes, Total	< 2.0	ug/L	A		Styrene	< 1.0	ug/L	N	
Bromoform	< 2.0	ug/L	A		Isopropylbenzene	< 1.0	ug/L	A	
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	A		Bromobenzene	< 1.0	ug/L	N	
n-Propylbenzene	< 1.0	ug/L	A		1,2,3-Trichloropropane	< 2.0	ug/L	N	
2-Chlorotoluene	< 1.0	ug/L	N		1,3,5-Trimethylbenzene	< 1.0	ug/L	A	
4-Chlorotoluene	< 1.0	ug/L	N		t-Butylbenzene	< 1.0	ug/L	A	
1,2,4-Trimethylbenzene	< 1.0	ug/L	A		s-Butylbenzene	< 1.0	ug/L	N	
4-Isopropyltoluene	< 1.0	ug/L	A		1,3-Dichlorobenzene	< 1.0	ug/L	A	
1,4-Dichlorobenzene	< 1.0	ug/L	A		n-Butylbenzene	< 2.0	ug/L	A	
1,2-Dichlorobenzene	< 1.0	ug/L	A		1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	A		1,3,5-Trichlorobenzene	< 2.0	ug/L	N	
Hexachlorobutadiene	< 0.5	ug/L	N		Naphthalene	< 2.0	ug/L	A	
1,2,3-Trichlorobenzene	< 2.0	ug/L	N		Surr. 1 (Dibromofluoromethane)	105	%	N	
Surr. 3 (4-Bromofluorobenzene)	87	%	N		Surr. 2 (Toluene d8)	91	%	N	
Unidentified Peaks	0		U						

CLIENT: WaiteHeindel Environmental Mgt
PROJECT: NEWSVT LF Ground Water
REPORT DATE: 11/6/2014

WORK ORDER: **1410-21187**
DATE RECEIVED: 10/09/2014

TEST METHOD: EPA 8260C

015 Site: 805S Sampled: 10/7/14 11:25 Test Date: 10/21/14 W SJM

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Dichlorodifluoromethane	< 5.0	ug/L	A		Chloromethane	< 3.0	ug/L	N	
Vinyl chloride	< 2.0	ug/L	A		Bromomethane	< 5.0	ug/L	A	
Chloroethane	< 5.0	ug/L	A		Trichlorofluoromethane	< 2.0	ug/L	A	
Diethyl ether	< 5.0	ug/L	N		1,1-Dichloroethene	< 1.0	ug/L	A	QA-
Acetone	< 10.0	ug/L	A	QA-	Carbon disulfide	< 5.0	ug/L	A	
Methylene chloride	< 5.0	ug/L	A		t-Butanol	< 20.0	ug/L	N	
Methyl-t-butyl ether (MTBE)	< 2.0	ug/L	A		trans-1,2-Dichloroethene	< 1.0	ug/L	A	
Di-isopropyl ether (DIPE)	< 2.0	ug/L	N		1,1-Dichloroethane	< 1.0	ug/L	A	
Ethyl-t-butyl ether (ETBE)	< 2.0	ug/L	N		2-Butanone	< 10.0	ug/L	A	
2,2-Dichloropropane	< 2.0	ug/L	N		cis-1,2-Dichloroethene	< 1.0	ug/L	N	
Bromochloromethane	< 2.0	ug/L	N		Chloroform	< 1.0	ug/L	A	
Tetrahydrofuran	< 10.0	ug/L	U		1,1,1-Trichloroethane	< 1.0	ug/L	A	
Carbon tetrachloride	< 1.0	ug/L	A		1,1-Dichloropropene	< 1.0	ug/L	N	
Benzene	< 1.0	ug/L	A		t-Amylmethyl ether (TAME)	< 2.0	ug/L	N	
1,2-Dichloroethane	< 1.0	ug/L	A		Trichloroethene	< 1.0	ug/L	A	
1,2-Dichloropropane	< 2.0	ug/L	A		Dibromomethane	< 2.0	ug/L	N	
Bromodichloromethane	< 0.5	ug/L	A		cis-1,3-Dichloropropene	< 2.0	ug/L	A	
4-Methyl-2-pentanone (MIBK)	< 10.0	ug/L	N		Toluene	< 1.0	ug/L	A	
trans-1,3-Dichloropropene	< 2.0	ug/L	A		1,1,2-Trichloroethane	< 1.0	ug/L	A	
Tetrachloroethene	< 1.0	ug/L	A		1,3-Dichloropropane	< 1.0	ug/L	N	
2-Hexanone	< 10.0	ug/L	N		Dibromochloromethane	< 2.0	ug/L	A	
1,2-Dibromoethane	< 1.0	ug/L	A		Chlorobenzene	< 1.0	ug/L	A	
Ethylbenzene	< 1.0	ug/L	A		1,1,1,2-Tetrachloroethane	< 2.0	ug/L	A	
Xylenes, Total	< 2.0	ug/L	A		Styrene	< 1.0	ug/L	N	
Bromoform	< 2.0	ug/L	A		Isopropylbenzene	< 1.0	ug/L	A	
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	A		Bromobenzene	< 1.0	ug/L	N	
n-Propylbenzene	< 1.0	ug/L	A		1,2,3-Trichloropropane	< 2.0	ug/L	N	
2-Chlorotoluene	< 1.0	ug/L	N		1,3,5-Trimethylbenzene	< 1.0	ug/L	A	
4-Chlorotoluene	< 1.0	ug/L	N		t-Butylbenzene	< 1.0	ug/L	A	
1,2,4-Trimethylbenzene	< 1.0	ug/L	A		s-Butylbenzene	< 1.0	ug/L	N	
4-Isopropyltoluene	< 1.0	ug/L	A		1,3-Dichlorobenzene	< 1.0	ug/L	A	
1,4-Dichlorobenzene	< 1.0	ug/L	A		n-Butylbenzene	< 2.0	ug/L	A	
1,2-Dichlorobenzene	< 1.0	ug/L	A		1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	A		1,3,5-Trichlorobenzene	< 2.0	ug/L	N	
Hexachlorobutadiene	< 0.5	ug/L	N		Naphthalene	< 2.0	ug/L	A	
1,2,3-Trichlorobenzene	< 2.0	ug/L	N		Surr. 1 (Dibromofluoromethane)	106	%	N	
Surr. 2 (Toluene d8)	92	%	N		Surr. 3 (4-Bromofluorobenzene)	89	%	N	
Unidentified Peaks	0		U						

CLIENT: WaiteHeindel Environmental Mgt
PROJECT: NEWSVT LF Ground Water
REPORT DATE: 11/6/2014

WORK ORDER: **1410-21187**
DATE RECEIVED: 10/09/2014

TEST METHOD: EPA 8260C

016 Site: 103 Sampled: 10/6/14 15:13 Test Date: 10/16/14 W MHM

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Dichlorodifluoromethane	< 5.0	ug/L	A		Chloromethane	< 3.0	ug/L	N	
Vinyl chloride	< 2.0	ug/L	A		Bromomethane	< 5.0	ug/L	A	
Chloroethane	< 5.0	ug/L	A		Trichlorofluoromethane	< 2.0	ug/L	A	
Diethyl ether	< 5.0	ug/L	N		1,1-Dichloroethene	< 1.0	ug/L	A	
Acetone	< 10.0	ug/L	A		Carbon disulfide	< 5.0	ug/L	A	
Methylene chloride	< 5.0	ug/L	A		t-Butanol	< 20.0	ug/L	N	
Methyl-t-butyl ether (MTBE)	< 2.0	ug/L	A		trans-1,2-Dichloroethene	< 1.0	ug/L	A	
Di-isopropyl ether (DIPE)	< 2.0	ug/L	N		1,1-Dichloroethane	< 1.0	ug/L	A	
Ethyl-t-butyl ether (ETBE)	< 2.0	ug/L	N		2-Butanone	< 10.0	ug/L	A	
2,2-Dichloropropane	< 2.0	ug/L	N		cis-1,2-Dichloroethene	< 1.0	ug/L	N	
Bromochloromethane	< 2.0	ug/L	N		Chloroform	< 1.0	ug/L	A	
Tetrahydrofuran	< 10.0	ug/L	U		1,1,1-Trichloroethane	< 1.0	ug/L	A	
Carbon tetrachloride	< 1.0	ug/L	A		1,1-Dichloropropene	< 1.0	ug/L	N	
Benzene	< 1.0	ug/L	A		t-Amylmethyl ether (TAME)	< 2.0	ug/L	N	
1,2-Dichloroethane	< 1.0	ug/L	A		Trichloroethene	< 1.0	ug/L	A	
1,2-Dichloropropane	< 2.0	ug/L	A		Dibromomethane	< 2.0	ug/L	N	
Bromodichloromethane	< 0.5	ug/L	A		cis-1,3-Dichloropropene	< 1.0	ug/L	A	
4-Methyl-2-pentanone (MIBK)	< 10.0	ug/L	N		Toluene	< 1.0	ug/L	A	
trans-1,3-Dichloropropene	< 1.0	ug/L	A		1,1,2-Trichloroethane	< 1.0	ug/L	A	
Tetrachloroethene	< 1.0	ug/L	A		1,3-Dichloropropane	< 1.0	ug/L	N	
2-Hexanone	< 10.0	ug/L	N		Dibromochloromethane	< 2.0	ug/L	A	
1,2-Dibromoethane	< 1.0	ug/L	A		Chlorobenzene	< 1.0	ug/L	A	
Ethylbenzene	< 1.0	ug/L	A		1,1,1,2-Tetrachloroethane	< 2.0	ug/L	A	
Xylenes, Total	< 2.0	ug/L	A		Styrene	< 1.0	ug/L	N	
Bromoform	< 2.0	ug/L	A		Isopropylbenzene	< 1.0	ug/L	A	
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	A		Bromobenzene	< 1.0	ug/L	N	
n-Propylbenzene	< 1.0	ug/L	A		1,2,3-Trichloropropane	< 2.0	ug/L	N	
2-Chlorotoluene	< 1.0	ug/L	N		1,3,5-Trimethylbenzene	< 1.0	ug/L	A	
4-Chlorotoluene	< 1.0	ug/L	N		t-Butylbenzene	< 1.0	ug/L	A	
1,2,4-Trimethylbenzene	< 1.0	ug/L	A		s-Butylbenzene	< 1.0	ug/L	N	
4-Isopropyltoluene	< 1.0	ug/L	A		1,3-Dichlorobenzene	< 1.0	ug/L	A	
1,4-Dichlorobenzene	< 1.0	ug/L	A		n-Butylbenzene	< 1.0	ug/L	A	
1,2-Dichlorobenzene	< 1.0	ug/L	A		1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	A		1,3,5-Trichlorobenzene	< 2.0	ug/L	N	
Hexachlorobutadiene	< 0.5	ug/L	N		Naphthalene	< 2.0	ug/L	A	
1,2,3-Trichlorobenzene	< 2.0	ug/L	N		Surr. 1 (Dibromofluoromethane)	108	%	N	
Surr. 2 (Toluene d8)	104	%	N		Surr. 3 (4-Bromofluorobenzene)	106	%	N	
Unidentified Peaks	0		U						

CLIENT: WaiteHeindel Environmental Mgt
PROJECT: NEWSVT LF Ground Water
REPORT DATE: 11/6/2014

WORK ORDER: **1410-21187**
DATE RECEIVED: 10/09/2014

TEST METHOD: EPA 8260C

017 Site: BRW-3D Sampled: 10/7/14 9:14 Test Date: 10/21/14 W SJM

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Dichlorodifluoromethane	< 5.0	ug/L	A		Chloromethane	< 3.0	ug/L	N	
Vinyl chloride	< 2.0	ug/L	A		Bromomethane	< 5.0	ug/L	A	
Chloroethane	< 5.0	ug/L	A		Trichlorofluoromethane	< 2.0	ug/L	A	
Diethyl ether	< 5.0	ug/L	N		1,1-Dichloroethene	< 1.0	ug/L	A	QA-
Acetone	< 10.0	ug/L	A	QA-	Carbon disulfide	< 5.0	ug/L	A	
Methylene chloride	< 5.0	ug/L	A		t-Butanol	< 20.0	ug/L	N	
Methyl-t-butyl ether (MTBE)	< 2.0	ug/L	A		trans-1,2-Dichloroethene	< 1.0	ug/L	A	
Di-isopropyl ether (DIPE)	< 2.0	ug/L	N		1,1-Dichloroethane	< 1.0	ug/L	A	
Ethyl-t-butyl ether (ETBE)	< 2.0	ug/L	N		2-Butanone	< 10.0	ug/L	A	
2,2-Dichloropropane	< 2.0	ug/L	N		cis-1,2-Dichloroethene	< 1.0	ug/L	N	
Bromochloromethane	< 2.0	ug/L	N		Chloroform	< 1.0	ug/L	A	
Tetrahydrofuran	< 10.0	ug/L	U		1,1,1-Trichloroethane	< 1.0	ug/L	A	
Carbon tetrachloride	< 1.0	ug/L	A		1,1-Dichloropropene	< 1.0	ug/L	N	
Benzene	< 1.0	ug/L	A		t-Amylmethyl ether (TAME)	< 2.0	ug/L	N	
1,2-Dichloroethane	< 1.0	ug/L	A		Trichloroethene	< 1.0	ug/L	A	
1,2-Dichloropropane	< 2.0	ug/L	A		Dibromomethane	< 2.0	ug/L	N	
Bromodichloromethane	< 0.5	ug/L	A		cis-1,3-Dichloropropene	< 2.0	ug/L	A	
4-Methyl-2-pentanone (MIBK)	< 10.0	ug/L	N		Toluene	< 1.0	ug/L	A	
trans-1,3-Dichloropropene	< 2.0	ug/L	A		1,1,2-Trichloroethane	< 1.0	ug/L	A	
Tetrachloroethene	< 1.0	ug/L	A		1,3-Dichloropropane	< 1.0	ug/L	N	
2-Hexanone	< 10.0	ug/L	N		Dibromochloromethane	< 2.0	ug/L	A	
1,2-Dibromoethane	< 1.0	ug/L	A		Chlorobenzene	< 1.0	ug/L	A	
Ethylbenzene	< 1.0	ug/L	A		1,1,1,2-Tetrachloroethane	< 2.0	ug/L	A	
Xylenes, Total	< 2.0	ug/L	A		Styrene	< 1.0	ug/L	N	
Bromoform	< 2.0	ug/L	A		Isopropylbenzene	< 1.0	ug/L	A	
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	A		Bromobenzene	< 1.0	ug/L	N	
n-Propylbenzene	< 1.0	ug/L	A		1,2,3-Trichloropropane	< 2.0	ug/L	N	
2-Chlorotoluene	< 1.0	ug/L	N		1,3,5-Trimethylbenzene	< 1.0	ug/L	A	
4-Chlorotoluene	< 1.0	ug/L	N		t-Butylbenzene	< 1.0	ug/L	A	
1,2,4-Trimethylbenzene	< 1.0	ug/L	A		s-Butylbenzene	< 1.0	ug/L	N	
4-Isopropyltoluene	< 1.0	ug/L	A		1,3-Dichlorobenzene	< 1.0	ug/L	A	
1,4-Dichlorobenzene	< 1.0	ug/L	A		n-Butylbenzene	< 2.0	ug/L	A	
1,2-Dichlorobenzene	< 1.0	ug/L	A		1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	A		1,3,5-Trichlorobenzene	< 2.0	ug/L	N	
Hexachlorobutadiene	< 0.5	ug/L	N		Naphthalene	< 2.0	ug/L	A	
1,2,3-Trichlorobenzene	< 2.0	ug/L	N		Surr. 1 (Dibromofluoromethane)	111	%	N	
Surr. 3 (4-Bromofluorobenzene)	88	%	N		Surr. 2 (Toluene d8)	89	%	N	
Unidentified Peaks	0		U						

CLIENT: WaiteHeindel Environmental Mgt
PROJECT: NEWSVT LF Ground Water
REPORT DATE: 11/6/2014

WORK ORDER: **1410-21187**
DATE RECEIVED: 10/09/2014

TEST METHOD: EPA 8260C

018 Site: E1 Sampled: 10/7/14 11:35 Test Date: 10/21/14 W SJM

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Dichlorodifluoromethane	< 5.0	ug/L	A		Chloromethane	< 3.0	ug/L	N	
Vinyl chloride	< 2.0	ug/L	A		Bromomethane	< 5.0	ug/L	A	
Chloroethane	< 5.0	ug/L	A		Trichlorofluoromethane	< 2.0	ug/L	A	
Diethyl ether	< 5.0	ug/L	N		1,1-Dichloroethene	< 1.0	ug/L	A	QA-
Acetone	< 10.0	ug/L	A	QA-	Carbon disulfide	< 5.0	ug/L	A	
Methylene chloride	< 5.0	ug/L	A		t-Butanol	< 20.0	ug/L	N	
Methyl-t-butyl ether (MTBE)	< 2.0	ug/L	A		trans-1,2-Dichloroethene	< 1.0	ug/L	A	
Di-isopropyl ether (DIPE)	< 2.0	ug/L	N		1,1-Dichloroethane	< 1.0	ug/L	A	
Ethyl-t-butyl ether (ETBE)	< 2.0	ug/L	N		2-Butanone	< 10.0	ug/L	A	
2,2-Dichloropropane	< 2.0	ug/L	N		cis-1,2-Dichloroethene	< 1.0	ug/L	N	
Bromochloromethane	< 2.0	ug/L	N		Chloroform	< 1.0	ug/L	A	
Tetrahydrofuran	< 10.0	ug/L	U		1,1,1-Trichloroethane	< 1.0	ug/L	A	
Carbon tetrachloride	< 1.0	ug/L	A		1,1-Dichloropropene	< 1.0	ug/L	N	
Benzene	< 1.0	ug/L	A		t-Amylmethyl ether (TAME)	< 2.0	ug/L	N	
1,2-Dichloroethane	< 1.0	ug/L	A		Trichloroethene	< 1.0	ug/L	A	
1,2-Dichloropropane	< 2.0	ug/L	A		Dibromomethane	< 2.0	ug/L	N	
Bromodichloromethane	< 0.5	ug/L	A		cis-1,3-Dichloropropene	< 2.0	ug/L	A	
4-Methyl-2-pentanone (MIBK)	< 10.0	ug/L	N		Toluene	< 1.0	ug/L	A	
trans-1,3-Dichloropropene	< 2.0	ug/L	A		1,1,2-Trichloroethane	< 1.0	ug/L	A	
Tetrachloroethene	< 1.0	ug/L	A		1,3-Dichloropropane	< 1.0	ug/L	N	
2-Hexanone	< 10.0	ug/L	N		Dibromochloromethane	< 2.0	ug/L	A	
1,2-Dibromoethane	< 1.0	ug/L	A		Chlorobenzene	< 1.0	ug/L	A	
Ethylbenzene	< 1.0	ug/L	A		1,1,1,2-Tetrachloroethane	< 2.0	ug/L	A	
Xylenes, Total	< 2.0	ug/L	A		Styrene	< 1.0	ug/L	N	
Bromoform	< 2.0	ug/L	A		Isopropylbenzene	< 1.0	ug/L	A	
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	A		Bromobenzene	< 1.0	ug/L	N	
n-Propylbenzene	< 1.0	ug/L	A		1,2,3-Trichloropropane	< 2.0	ug/L	N	
2-Chlorotoluene	< 1.0	ug/L	N		1,3,5-Trimethylbenzene	< 1.0	ug/L	A	
4-Chlorotoluene	< 1.0	ug/L	N		t-Butylbenzene	< 1.0	ug/L	A	
1,2,4-Trimethylbenzene	< 1.0	ug/L	A		s-Butylbenzene	< 1.0	ug/L	N	
4-Isopropyltoluene	< 1.0	ug/L	A		1,3-Dichlorobenzene	< 1.0	ug/L	A	
1,4-Dichlorobenzene	< 1.0	ug/L	A		n-Butylbenzene	< 2.0	ug/L	A	
1,2-Dichlorobenzene	< 1.0	ug/L	A		1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	A		1,3,5-Trichlorobenzene	< 2.0	ug/L	N	
Hexachlorobutadiene	< 0.5	ug/L	N		Naphthalene	< 2.0	ug/L	A	
1,2,3-Trichlorobenzene	< 2.0	ug/L	N		Surr. 1 (Dibromofluoromethane)	110	%	N	
Surr. 2 (Toluene d8)	92	%	N		Surr. 3 (4-Bromofluorobenzene)	92	%	N	
Unidentified Peaks	0		U						

CLIENT: WaiteHeindel Environmental Mgt
PROJECT: NEWSVT LF Ground Water
REPORT DATE: 11/6/2014

WORK ORDER: **1410-21187**
DATE RECEIVED: 10/09/2014

TEST METHOD: EPA 8260C

019 Site: ST ONGE Sampled: 10/8/14 17:00 Test Date: 10/21/14 W SJM

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Dichlorodifluoromethane	< 5.0	ug/L	A		Chloromethane	< 3.0	ug/L	N	
Vinyl chloride	< 2.0	ug/L	A		Bromomethane	< 5.0	ug/L	A	
Chloroethane	< 5.0	ug/L	A		Trichlorofluoromethane	< 2.0	ug/L	A	
Diethyl ether	< 5.0	ug/L	N		1,1-Dichloroethene	< 1.0	ug/L	A	QA-
Acetone	< 10.0	ug/L	A	QA-	Carbon disulfide	< 5.0	ug/L	A	
Methylene chloride	< 5.0	ug/L	A		t-Butanol	< 20.0	ug/L	N	
Methyl-t-butyl ether (MTBE)	< 2.0	ug/L	A		trans-1,2-Dichloroethene	< 1.0	ug/L	A	
Di-isopropyl ether (DIPE)	< 2.0	ug/L	N		1,1-Dichloroethane	< 1.0	ug/L	A	
Ethyl-t-butyl ether (ETBE)	< 2.0	ug/L	N		2-Butanone	< 10.0	ug/L	A	
2,2-Dichloropropane	< 2.0	ug/L	N		cis-1,2-Dichloroethene	< 1.0	ug/L	N	
Bromochloromethane	< 2.0	ug/L	N		Chloroform	< 1.0	ug/L	A	
Tetrahydrofuran	< 10.0	ug/L	U		1,1,1-Trichloroethane	< 1.0	ug/L	A	
Carbon tetrachloride	< 1.0	ug/L	A		1,1-Dichloropropene	< 1.0	ug/L	N	
Benzene	< 1.0	ug/L	A		t-Amylmethyl ether (TAME)	< 2.0	ug/L	N	
1,2-Dichloroethane	< 1.0	ug/L	A		Trichloroethene	< 1.0	ug/L	A	
1,2-Dichloropropane	< 2.0	ug/L	A		Dibromomethane	< 2.0	ug/L	N	
Bromodichloromethane	< 0.5	ug/L	A		cis-1,3-Dichloropropene	< 2.0	ug/L	A	
4-Methyl-2-pentanone (MIBK)	< 10.0	ug/L	N		Toluene	< 1.0	ug/L	A	
trans-1,3-Dichloropropene	< 2.0	ug/L	A		1,1,2-Trichloroethane	< 1.0	ug/L	A	
Tetrachloroethene	< 1.0	ug/L	A		1,3-Dichloropropane	< 1.0	ug/L	N	
2-Hexanone	< 10.0	ug/L	N		Dibromochloromethane	< 2.0	ug/L	A	
1,2-Dibromoethane	< 1.0	ug/L	A		Chlorobenzene	< 1.0	ug/L	A	
Ethylbenzene	< 1.0	ug/L	A		1,1,1,2-Tetrachloroethane	< 2.0	ug/L	A	
Xylenes, Total	< 2.0	ug/L	A		Styrene	< 1.0	ug/L	N	
Bromoform	< 2.0	ug/L	A		Isopropylbenzene	< 1.0	ug/L	A	
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	A		Bromobenzene	< 1.0	ug/L	N	
n-Propylbenzene	< 1.0	ug/L	A		1,2,3-Trichloropropane	< 2.0	ug/L	N	
2-Chlorotoluene	< 1.0	ug/L	N		1,3,5-Trimethylbenzene	< 1.0	ug/L	A	
4-Chlorotoluene	< 1.0	ug/L	N		t-Butylbenzene	< 1.0	ug/L	A	
1,2,4-Trimethylbenzene	< 1.0	ug/L	A		s-Butylbenzene	< 1.0	ug/L	N	
4-Isopropyltoluene	< 1.0	ug/L	A		1,3-Dichlorobenzene	< 1.0	ug/L	A	
1,4-Dichlorobenzene	< 1.0	ug/L	A		n-Butylbenzene	< 2.0	ug/L	A	
1,2-Dichlorobenzene	< 1.0	ug/L	A		1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	A		1,3,5-Trichlorobenzene	< 2.0	ug/L	N	
Hexachlorobutadiene	< 0.5	ug/L	N		Naphthalene	< 2.0	ug/L	A	
1,2,3-Trichlorobenzene	< 2.0	ug/L	N		Surr. 1 (Dibromofluoromethane)	108	%	N	
Surr. 3 (4-Bromofluorobenzene)	92	%	N		Surr. 2 (Toluene d8)	92	%	N	
Unidentified Peaks	0		U						

CLIENT: WaiteHeindel Environmental Mgt
PROJECT: NEWSVT LF Ground Water
REPORT DATE: 11/6/2014

WORK ORDER: **1410-21187**
DATE RECEIVED: 10/09/2014

TEST METHOD: EPA 8260C

020 Site: 801BR-R Sampled: 10/6/14 11:17 Test Date: 10/16/14 W MHM

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Dichlorodifluoromethane	< 5.0	ug/L	A		Chloromethane	< 3.0	ug/L	N	
Vinyl chloride	< 2.0	ug/L	A		Bromomethane	< 5.0	ug/L	A	
Chloroethane	< 5.0	ug/L	A		Trichlorofluoromethane	< 2.0	ug/L	A	
Diethyl ether	< 5.0	ug/L	N		1,1-Dichloroethene	< 1.0	ug/L	A	
Acetone	< 10.0	ug/L	A		Carbon disulfide	< 5.0	ug/L	A	
Methylene chloride	< 5.0	ug/L	A		t-Butanol	< 20.0	ug/L	N	
Methyl-t-butyl ether (MTBE)	< 2.0	ug/L	A		trans-1,2-Dichloroethene	< 1.0	ug/L	A	
Di-isopropyl ether (DIPE)	< 2.0	ug/L	N		1,1-Dichloroethane	< 1.0	ug/L	A	
Ethyl-t-butyl ether (ETBE)	< 2.0	ug/L	N		2-Butanone	< 10.0	ug/L	A	
2,2-Dichloropropane	< 2.0	ug/L	N		cis-1,2-Dichloroethene	< 1.0	ug/L	N	
Bromochloromethane	< 2.0	ug/L	N		Chloroform	< 1.0	ug/L	A	
Tetrahydrofuran	< 10.0	ug/L	U		1,1,1-Trichloroethane	< 1.0	ug/L	A	
Carbon tetrachloride	< 1.0	ug/L	A		1,1-Dichloropropene	< 1.0	ug/L	N	
Benzene	< 1.0	ug/L	A		t-Amylmethyl ether (TAME)	< 2.0	ug/L	N	
1,2-Dichloroethane	< 1.0	ug/L	A		Trichloroethene	< 1.0	ug/L	A	
1,2-Dichloropropane	< 2.0	ug/L	A		Dibromomethane	< 2.0	ug/L	N	
Bromodichloromethane	< 0.5	ug/L	A		cis-1,3-Dichloropropene	< 1.0	ug/L	A	
4-Methyl-2-pentanone (MIBK)	< 10.0	ug/L	N		Toluene	< 1.0	ug/L	A	
trans-1,3-Dichloropropene	< 1.0	ug/L	A		1,1,2-Trichloroethane	< 1.0	ug/L	A	
Tetrachloroethene	< 1.0	ug/L	A		1,3-Dichloropropane	< 1.0	ug/L	N	
2-Hexanone	< 10.0	ug/L	N		Dibromochloromethane	< 2.0	ug/L	A	
1,2-Dibromoethane	< 1.0	ug/L	A		Chlorobenzene	< 1.0	ug/L	A	
Ethylbenzene	< 1.0	ug/L	A		1,1,1,2-Tetrachloroethane	< 2.0	ug/L	A	
Xylenes, Total	< 2.0	ug/L	A		Styrene	< 1.0	ug/L	N	
Bromoform	< 2.0	ug/L	A		Isopropylbenzene	< 1.0	ug/L	A	
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	A		Bromobenzene	< 1.0	ug/L	N	
n-Propylbenzene	< 1.0	ug/L	A		1,2,3-Trichloropropane	< 2.0	ug/L	N	
2-Chlorotoluene	< 1.0	ug/L	N		1,3,5-Trimethylbenzene	< 1.0	ug/L	A	
4-Chlorotoluene	< 1.0	ug/L	N		t-Butylbenzene	< 1.0	ug/L	A	
1,2,4-Trimethylbenzene	< 1.0	ug/L	A		s-Butylbenzene	< 1.0	ug/L	N	
4-Isopropyltoluene	< 1.0	ug/L	A		1,3-Dichlorobenzene	< 1.0	ug/L	A	
1,4-Dichlorobenzene	< 1.0	ug/L	A		n-Butylbenzene	< 1.0	ug/L	A	
1,2-Dichlorobenzene	< 1.0	ug/L	A		1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	A		1,3,5-Trichlorobenzene	< 2.0	ug/L	N	
Hexachlorobutadiene	< 0.5	ug/L	N		Naphthalene	< 2.0	ug/L	A	
1,2,3-Trichlorobenzene	< 2.0	ug/L	N		Surr. 1 (Dibromofluoromethane)	106	%	N	
Surr. 2 (Toluene d8)	107	%	N		Surr. 3 (4-Bromofluorobenzene)	104	%	N	
Unidentified Peaks	0		U						

CLIENT: WaiteHeindel Environmental Mgt
PROJECT: NEWSVT LF Ground Water
REPORT DATE: 11/6/2014

WORK ORDER: **1410-21187**
DATE RECEIVED: 10/09/2014

TEST METHOD: EPA 8260C

021 Site: 801D-R Sampled: 10/6/14 12:53 Test Date: 10/16/14 W MHM

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Dichlorodifluoromethane	< 5.0	ug/L	A		Chloromethane	< 3.0	ug/L	N	
Vinyl chloride	< 2.0	ug/L	A		Bromomethane	< 5.0	ug/L	A	
Chloroethane	< 5.0	ug/L	A		Trichlorofluoromethane	< 2.0	ug/L	A	
Diethyl ether	< 5.0	ug/L	N		1,1-Dichloroethene	< 1.0	ug/L	A	
Acetone	< 10.0	ug/L	A		Carbon disulfide	< 5.0	ug/L	A	
Methylene chloride	< 5.0	ug/L	A		t-Butanol	< 20.0	ug/L	N	
Methyl-t-butyl ether (MTBE)	< 2.0	ug/L	A		trans-1,2-Dichloroethene	< 1.0	ug/L	A	
Di-isopropyl ether (DIPE)	< 2.0	ug/L	N		1,1-Dichloroethane	< 1.0	ug/L	A	
Ethyl-t-butyl ether (ETBE)	< 2.0	ug/L	N		2-Butanone	< 10.0	ug/L	A	
2,2-Dichloropropane	< 2.0	ug/L	N		cis-1,2-Dichloroethene	< 1.0	ug/L	N	
Bromochloromethane	< 2.0	ug/L	N		Chloroform	< 1.0	ug/L	A	
Tetrahydrofuran	< 10.0	ug/L	U		1,1,1-Trichloroethane	< 1.0	ug/L	A	
Carbon tetrachloride	< 1.0	ug/L	A		1,1-Dichloropropene	< 1.0	ug/L	N	
Benzene	< 1.0	ug/L	A		t-Amylmethyl ether (TAME)	< 2.0	ug/L	N	
1,2-Dichloroethane	< 1.0	ug/L	A		Trichloroethene	< 1.0	ug/L	A	
1,2-Dichloropropane	< 2.0	ug/L	A		Dibromomethane	< 2.0	ug/L	N	
Bromodichloromethane	< 0.5	ug/L	A		cis-1,3-Dichloropropene	< 1.0	ug/L	A	
4-Methyl-2-pentanone (MIBK)	< 10.0	ug/L	N		Toluene	< 1.0	ug/L	A	
trans-1,3-Dichloropropene	< 1.0	ug/L	A		1,1,2-Trichloroethane	< 1.0	ug/L	A	
Tetrachloroethene	< 1.0	ug/L	A		1,3-Dichloropropane	< 1.0	ug/L	N	
2-Hexanone	< 10.0	ug/L	N		Dibromochloromethane	< 2.0	ug/L	A	
1,2-Dibromoethane	< 1.0	ug/L	A		Chlorobenzene	< 1.0	ug/L	A	
Ethylbenzene	< 1.0	ug/L	A		1,1,1,2-Tetrachloroethane	< 2.0	ug/L	A	
Xylenes, Total	< 2.0	ug/L	A		Styrene	< 1.0	ug/L	N	
Bromoform	< 2.0	ug/L	A		Isopropylbenzene	< 1.0	ug/L	A	
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	A		Bromobenzene	< 1.0	ug/L	N	
n-Propylbenzene	< 1.0	ug/L	A		1,2,3-Trichloropropane	< 2.0	ug/L	N	
2-Chlorotoluene	< 1.0	ug/L	N		1,3,5-Trimethylbenzene	< 1.0	ug/L	A	
4-Chlorotoluene	< 1.0	ug/L	N		t-Butylbenzene	< 1.0	ug/L	A	
1,2,4-Trimethylbenzene	< 1.0	ug/L	A		s-Butylbenzene	< 1.0	ug/L	N	
4-Isopropyltoluene	< 1.0	ug/L	A		1,3-Dichlorobenzene	< 1.0	ug/L	A	
1,4-Dichlorobenzene	< 1.0	ug/L	A		n-Butylbenzene	< 1.0	ug/L	A	
1,2-Dichlorobenzene	< 1.0	ug/L	A		1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	A		1,3,5-Trichlorobenzene	< 2.0	ug/L	N	
Hexachlorobutadiene	< 0.5	ug/L	N		Naphthalene	< 2.0	ug/L	A	
1,2,3-Trichlorobenzene	< 2.0	ug/L	N		Surr. 1 (Dibromofluoromethane)	106	%	N	
Surr. 2 (Toluene d8)	103	%	N		Surr. 3 (4-Bromofluorobenzene)	104	%	N	
Unidentified Peaks	2		U						

CLIENT: WaiteHeindel Environmental Mgt
PROJECT: NEWSVT LF Ground Water
REPORT DATE: 11/6/2014

WORK ORDER: **1410-21187**
DATE RECEIVED: 10/09/2014

TEST METHOD: EPA 8260C

022 Site: P8 Sampled: 10/7/14 10:27 Test Date: 10/21/14 W SJM

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Dichlorodifluoromethane	< 5.0	ug/L	A		Chloromethane	< 3.0	ug/L	N	
Vinyl chloride	< 2.0	ug/L	A		Bromomethane	< 5.0	ug/L	A	
Chloroethane	< 5.0	ug/L	A		Trichlorofluoromethane	< 2.0	ug/L	A	
Diethyl ether	< 5.0	ug/L	N		1,1-Dichloroethene	< 1.0	ug/L	A	QA-
Acetone	< 10.0	ug/L	A	QA-	Carbon disulfide	< 5.0	ug/L	A	
Methylene chloride	< 5.0	ug/L	A		t-Butanol	32.7	ug/L	N	
Methyl-t-butyl ether (MTBE)	< 2.0	ug/L	A		trans-1,2-Dichloroethene	< 1.0	ug/L	A	
Di-isopropyl ether (DIPE)	< 2.0	ug/L	N		1,1-Dichloroethane	< 1.0	ug/L	A	
Ethyl-t-butyl ether (ETBE)	< 2.0	ug/L	N		2-Butanone	< 10.0	ug/L	A	
2,2-Dichloropropane	< 2.0	ug/L	N		cis-1,2-Dichloroethene	< 1.0	ug/L	N	
Bromochloromethane	< 2.0	ug/L	N		Chloroform	< 1.0	ug/L	A	
Tetrahydrofuran	< 10.0	ug/L	U		1,1,1-Trichloroethane	< 1.0	ug/L	A	
Carbon tetrachloride	< 1.0	ug/L	A		1,1-Dichloropropene	< 1.0	ug/L	N	
Benzene	< 1.0	ug/L	A		t-Amylmethyl ether (TAME)	< 2.0	ug/L	N	
1,2-Dichloroethane	< 1.0	ug/L	A		Trichloroethene	< 1.0	ug/L	A	
1,2-Dichloropropane	< 2.0	ug/L	A		Dibromomethane	< 2.0	ug/L	N	
Bromodichloromethane	< 0.5	ug/L	A		cis-1,3-Dichloropropene	< 2.0	ug/L	A	
4-Methyl-2-pentanone (MIBK)	< 10.0	ug/L	N		Toluene	< 1.0	ug/L	A	
trans-1,3-Dichloropropene	< 2.0	ug/L	A		1,1,2-Trichloroethane	< 1.0	ug/L	A	
Tetrachloroethene	< 1.0	ug/L	A		1,3-Dichloropropane	< 1.0	ug/L	N	
2-Hexanone	< 10.0	ug/L	N		Dibromochloromethane	< 2.0	ug/L	A	
1,2-Dibromoethane	< 1.0	ug/L	A		Chlorobenzene	< 1.0	ug/L	A	
Ethylbenzene	< 1.0	ug/L	A		1,1,1,2-Tetrachloroethane	< 2.0	ug/L	A	
Xylenes, Total	< 2.0	ug/L	A		Styrene	< 1.0	ug/L	N	
Bromoform	< 2.0	ug/L	A		Isopropylbenzene	< 1.0	ug/L	A	
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	A		Bromobenzene	< 1.0	ug/L	N	
n-Propylbenzene	< 1.0	ug/L	A		1,2,3-Trichloropropane	< 2.0	ug/L	N	
2-Chlorotoluene	< 1.0	ug/L	N		1,3,5-Trimethylbenzene	< 1.0	ug/L	A	
4-Chlorotoluene	< 1.0	ug/L	N		t-Butylbenzene	< 1.0	ug/L	A	
1,2,4-Trimethylbenzene	< 1.0	ug/L	A		s-Butylbenzene	< 1.0	ug/L	N	
4-Isopropyltoluene	< 1.0	ug/L	A		1,3-Dichlorobenzene	< 1.0	ug/L	A	
1,4-Dichlorobenzene	< 1.0	ug/L	A		n-Butylbenzene	< 2.0	ug/L	A	
1,2-Dichlorobenzene	< 1.0	ug/L	A		1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	A		1,3,5-Trichlorobenzene	< 2.0	ug/L	N	
Hexachlorobutadiene	< 0.5	ug/L	N		Naphthalene	< 2.0	ug/L	A	
1,2,3-Trichlorobenzene	< 2.0	ug/L	N		Surr. 1 (Dibromofluoromethane)	107	%	N	
Surr. 3 (4-Bromofluorobenzene)	88	%	N		Surr. 2 (Toluene d8)	91	%	N	
Unidentified Peaks	2		U						

CLIENT: WaiteHeindel Environmental Mgt
PROJECT: NEWSVT LF Ground Water
REPORT DATE: 11/6/2014

WORK ORDER: **1410-21187**
DATE RECEIVED: 10/09/2014

TEST METHOD: EPA 8260C

023 Site: 804SR Sampled: 10/7/14 14:11 Test Date: 10/21/14 W SJM

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Dichlorodifluoromethane	< 5.0	ug/L	A		Chloromethane	< 3.0	ug/L	N	
Vinyl chloride	< 2.0	ug/L	A		Bromomethane	< 5.0	ug/L	A	
Chloroethane	< 5.0	ug/L	A		Trichlorofluoromethane	< 2.0	ug/L	A	
Diethyl ether	< 5.0	ug/L	N		1,1-Dichloroethene	< 1.0	ug/L	A	QA-
Acetone	< 10.0	ug/L	A	QA-	Carbon disulfide	< 5.0	ug/L	A	
Methylene chloride	< 5.0	ug/L	A		t-Butanol	< 20.0	ug/L	N	
Methyl-t-butyl ether (MTBE)	< 2.0	ug/L	A		trans-1,2-Dichloroethene	< 1.0	ug/L	A	
Di-isopropyl ether (DIPE)	< 2.0	ug/L	N		1,1-Dichloroethane	< 1.0	ug/L	A	
Ethyl-t-butyl ether (ETBE)	< 2.0	ug/L	N		2-Butanone	< 10.0	ug/L	A	
2,2-Dichloropropane	< 2.0	ug/L	N		cis-1,2-Dichloroethene	< 1.0	ug/L	N	
Bromochloromethane	< 2.0	ug/L	N		Chloroform	< 1.0	ug/L	A	
Tetrahydrofuran	< 10.0	ug/L	U		1,1,1-Trichloroethane	< 1.0	ug/L	A	
Carbon tetrachloride	< 1.0	ug/L	A		1,1-Dichloropropene	< 1.0	ug/L	N	
Benzene	< 1.0	ug/L	A		t-Amylmethyl ether (TAME)	< 2.0	ug/L	N	
1,2-Dichloroethane	< 1.0	ug/L	A		Trichloroethene	< 1.0	ug/L	A	
1,2-Dichloropropane	< 2.0	ug/L	A		Dibromomethane	< 2.0	ug/L	N	
Bromodichloromethane	< 0.5	ug/L	A		cis-1,3-Dichloropropene	< 2.0	ug/L	A	
4-Methyl-2-pentanone (MIBK)	< 10.0	ug/L	N		Toluene	< 1.0	ug/L	A	
trans-1,3-Dichloropropene	< 2.0	ug/L	A		1,1,2-Trichloroethane	< 1.0	ug/L	A	
Tetrachloroethene	< 1.0	ug/L	A		1,3-Dichloropropane	< 1.0	ug/L	N	
2-Hexanone	< 10.0	ug/L	N		Dibromochloromethane	< 2.0	ug/L	A	
1,2-Dibromoethane	< 1.0	ug/L	A		Chlorobenzene	< 1.0	ug/L	A	
Ethylbenzene	< 1.0	ug/L	A		1,1,1,2-Tetrachloroethane	< 2.0	ug/L	A	
Xylenes, Total	< 2.0	ug/L	A		Styrene	< 1.0	ug/L	N	
Bromoform	< 2.0	ug/L	A		Isopropylbenzene	< 1.0	ug/L	A	
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	A		Bromobenzene	< 1.0	ug/L	N	
n-Propylbenzene	< 1.0	ug/L	A		1,2,3-Trichloropropane	< 2.0	ug/L	N	
2-Chlorotoluene	< 1.0	ug/L	N		1,3,5-Trimethylbenzene	< 1.0	ug/L	A	
4-Chlorotoluene	< 1.0	ug/L	N		t-Butylbenzene	< 1.0	ug/L	A	
1,2,4-Trimethylbenzene	< 1.0	ug/L	A		s-Butylbenzene	< 1.0	ug/L	N	
4-Isopropyltoluene	< 1.0	ug/L	A		1,3-Dichlorobenzene	< 1.0	ug/L	A	
1,4-Dichlorobenzene	< 1.0	ug/L	A		n-Butylbenzene	< 2.0	ug/L	A	
1,2-Dichlorobenzene	< 1.0	ug/L	A		1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	A		1,3,5-Trichlorobenzene	< 2.0	ug/L	N	
Hexachlorobutadiene	< 0.5	ug/L	N		Naphthalene	< 2.0	ug/L	A	
1,2,3-Trichlorobenzene	< 2.0	ug/L	N		Surr. 1 (Dibromofluoromethane)	106	%	N	
Surr. 3 (4-Bromofluorobenzene)	89	%	N		Surr. 2 (Toluene d8)	92	%	N	
Unidentified Peaks	0		U						

CLIENT: WaiteHeindel Environmental Mgt
PROJECT: NEWSVT LF Ground Water
REPORT DATE: 11/6/2014

WORK ORDER: **1410-21187**
DATE RECEIVED: 10/09/2014

TEST METHOD: EPA 8260C

028 Site: DUP 1@DIR Sampled: 10/6/14 Test Date: 10/16/14 W MHM

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Dichlorodifluoromethane	< 5.0	ug/L	A		Chloromethane	< 3.0	ug/L	N	
Vinyl chloride	< 2.0	ug/L	A		Bromomethane	< 5.0	ug/L	A	
Chloroethane	< 5.0	ug/L	A		Trichlorofluoromethane	< 2.0	ug/L	A	
Diethyl ether	< 5.0	ug/L	N		1,1-Dichloroethene	< 1.0	ug/L	A	
Acetone	< 10.0	ug/L	A		Carbon disulfide	< 5.0	ug/L	A	
Methylene chloride	< 5.0	ug/L	A		t-Butanol	< 20.0	ug/L	N	
Methyl-t-butyl ether (MTBE)	< 2.0	ug/L	A		trans-1,2-Dichloroethene	< 1.0	ug/L	A	
Di-isopropyl ether (DIPE)	< 2.0	ug/L	N		1,1-Dichloroethane	< 1.0	ug/L	A	
Ethyl-t-butyl ether (ETBE)	< 2.0	ug/L	N		2-Butanone	< 10.0	ug/L	A	
2,2-Dichloropropane	< 2.0	ug/L	N		cis-1,2-Dichloroethene	< 1.0	ug/L	N	
Bromochloromethane	< 2.0	ug/L	N		Chloroform	< 1.0	ug/L	A	
Tetrahydrofuran	< 10.0	ug/L	U		1,1,1-Trichloroethane	< 1.0	ug/L	A	
Carbon tetrachloride	< 1.0	ug/L	A		1,1-Dichloropropene	< 1.0	ug/L	N	
Benzene	< 1.0	ug/L	A		t-Amylmethyl ether (TAME)	< 2.0	ug/L	N	
1,2-Dichloroethane	< 1.0	ug/L	A		Trichloroethene	< 1.0	ug/L	A	
1,2-Dichloropropane	< 2.0	ug/L	A		Dibromomethane	< 2.0	ug/L	N	
Bromodichloromethane	< 0.5	ug/L	A		cis-1,3-Dichloropropene	< 1.0	ug/L	A	
4-Methyl-2-pentanone (MIBK)	< 10.0	ug/L	N		Toluene	< 1.0	ug/L	A	
trans-1,3-Dichloropropene	< 1.0	ug/L	A		1,1,2-Trichloroethane	< 1.0	ug/L	A	
Tetrachloroethene	< 1.0	ug/L	A		1,3-Dichloropropane	< 1.0	ug/L	N	
2-Hexanone	< 10.0	ug/L	N		Dibromochloromethane	< 2.0	ug/L	A	
1,2-Dibromoethane	< 1.0	ug/L	A		Chlorobenzene	< 1.0	ug/L	A	
Ethylbenzene	< 1.0	ug/L	A		1,1,1,2-Tetrachloroethane	< 2.0	ug/L	A	
Xylenes, Total	< 2.0	ug/L	A		Styrene	< 1.0	ug/L	N	
Bromoform	< 2.0	ug/L	A		Isopropylbenzene	< 1.0	ug/L	A	
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	A		Bromobenzene	< 1.0	ug/L	N	
n-Propylbenzene	< 1.0	ug/L	A		1,2,3-Trichloropropane	< 2.0	ug/L	N	
2-Chlorotoluene	< 1.0	ug/L	N		1,3,5-Trimethylbenzene	< 1.0	ug/L	A	
4-Chlorotoluene	< 1.0	ug/L	N		t-Butylbenzene	< 1.0	ug/L	A	
1,2,4-Trimethylbenzene	< 1.0	ug/L	A		s-Butylbenzene	< 1.0	ug/L	N	
4-Isopropyltoluene	< 1.0	ug/L	A		1,3-Dichlorobenzene	< 1.0	ug/L	A	
1,4-Dichlorobenzene	< 1.0	ug/L	A		n-Butylbenzene	< 1.0	ug/L	A	
1,2-Dichlorobenzene	< 1.0	ug/L	A		1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	A		1,3,5-Trichlorobenzene	< 2.0	ug/L	N	
Hexachlorobutadiene	< 0.5	ug/L	N		Naphthalene	< 2.0	ug/L	A	
1,2,3-Trichlorobenzene	< 2.0	ug/L	N		Surr. 1 (Dibromofluoromethane)	102	%	N	
Surr. 3 (4-Bromofluorobenzene)	104	%	N		Surr. 2 (Toluene d8)	100	%	N	
Unidentified Peaks	0		U						

CLIENT: WaiteHeindel Environmental Mgt
PROJECT: NEWSVT LF Ground Water
REPORT DATE: 11/6/2014

WORK ORDER: **1410-21187**
DATE RECEIVED: 10/09/2014

TEST METHOD: EPA 8260C

029 Site: DUP 2@P2R Sampled: 10/6/14 Test Date: 10/16/14 W MHM

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Dichlorodifluoromethane	< 5.0	ug/L	A		Chloromethane	< 3.0	ug/L	N	
Vinyl chloride	< 2.0	ug/L	A		Bromomethane	< 5.0	ug/L	A	
Chloroethane	22.7	ug/L	A		Trichlorofluoromethane	< 2.0	ug/L	A	
Diethyl ether	301	ug/L	N		1,1-Dichloroethene	< 1.0	ug/L	A	
Acetone	< 10.0	ug/L	A		Carbon disulfide	< 5.0	ug/L	A	
Methylene chloride	< 5.0	ug/L	A		t-Butanol	90.1	ug/L	N	
Methyl-t-butyl ether (MTBE)	< 2.0	ug/L	A		trans-1,2-Dichloroethene	< 1.0	ug/L	A	
Di-isopropyl ether (DIPE)	< 2.0	ug/L	N		1,1-Dichloroethane	5.8	ug/L	A	
Ethyl-t-butyl ether (ETBE)	< 2.0	ug/L	N		2-Butanone	< 10.0	ug/L	A	
2,2-Dichloropropane	< 2.0	ug/L	N		cis-1,2-Dichloroethene	< 1.0	ug/L	N	
Bromochloromethane	< 2.0	ug/L	N		Chloroform	< 1.0	ug/L	A	
Tetrahydrofuran	115	ug/L	U		1,1,1-Trichloroethane	< 1.0	ug/L	A	
Carbon tetrachloride	< 1.0	ug/L	A		1,1-Dichloropropene	< 1.0	ug/L	N	
Benzene	5.7	ug/L	A		t-Amylmethyl ether (TAME)	< 2.0	ug/L	N	
1,2-Dichloroethane	1.2	ug/L	A		Trichloroethene	< 1.0	ug/L	A	
1,2-Dichloropropane	< 2.0	ug/L	A		Dibromomethane	< 2.0	ug/L	N	
Bromodichloromethane	< 0.5	ug/L	A		cis-1,3-Dichloropropene	< 1.0	ug/L	A	
4-Methyl-2-pentanone (MIBK)	< 10.0	ug/L	N		Toluene	4.3	ug/L	A	
trans-1,3-Dichloropropene	< 1.0	ug/L	A		1,1,2-Trichloroethane	< 1.0	ug/L	A	
Tetrachloroethene	< 1.0	ug/L	A		1,3-Dichloropropane	< 1.0	ug/L	N	
2-Hexanone	< 10.0	ug/L	N		Dibromochloromethane	< 2.0	ug/L	A	
1,2-Dibromoethane	< 1.0	ug/L	A		Chlorobenzene	< 1.0	ug/L	A	
Ethylbenzene	23.7	ug/L	A		1,1,1,2-Tetrachloroethane	< 2.0	ug/L	A	
Xylenes, Total	12.0	ug/L	A		Styrene	< 1.0	ug/L	N	
Bromoform	< 2.0	ug/L	A		Isopropylbenzene	6.5	ug/L	A	
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	A		Bromobenzene	< 1.0	ug/L	N	
n-Propylbenzene	< 1.0	ug/L	A		1,2,3-Trichloropropane	< 2.0	ug/L	N	
2-Chlorotoluene	< 1.0	ug/L	N		1,3,5-Trimethylbenzene	< 1.0	ug/L	A	
4-Chlorotoluene	< 1.0	ug/L	N		t-Butylbenzene	< 1.0	ug/L	A	
1,2,4-Trimethylbenzene	1.2	ug/L	A		s-Butylbenzene	< 1.0	ug/L	N	
4-Isopropyltoluene	< 1.0	ug/L	A		1,3-Dichlorobenzene	< 1.0	ug/L	A	
1,4-Dichlorobenzene	< 1.0	ug/L	A		n-Butylbenzene	< 1.0	ug/L	A	
1,2-Dichlorobenzene	< 1.0	ug/L	A		1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	A		1,3,5-Trichlorobenzene	< 2.0	ug/L	N	
Hexachlorobutadiene	< 0.5	ug/L	N		Naphthalene	< 2.0	ug/L	A	
1,2,3-Trichlorobenzene	< 2.0	ug/L	N		Surr. 1 (Dibromofluoromethane)	107	%	N	
Surr. 3 (4-Bromofluorobenzene)	107	%	N		Surr. 2 (Toluene d8)	107	%	N	
Unidentified Peaks	2		U						

CLIENT: WaiteHeindel Environmental Mgt
PROJECT: NEWSVT LF Ground Water
REPORT DATE: 11/6/2014

WORK ORDER: **1410-21187**
DATE RECEIVED: 10/09/2014

TEST METHOD: EPA 8260C

030 Site: DUP 3@412R Sampled: 10/7/14 Test Date: 10/21/14 W SJM

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Dichlorodifluoromethane	< 5.0	ug/L	A		Chloromethane	< 3.0	ug/L	N	
Vinyl chloride	< 2.0	ug/L	A		Bromomethane	< 5.0	ug/L	A	
Chloroethane	< 5.0	ug/L	A		Trichlorofluoromethane	< 2.0	ug/L	A	
Diethyl ether	< 5.0	ug/L	N		1,1-Dichloroethene	< 1.0	ug/L	A	QA-
Acetone	< 10.0	ug/L	A	QA-	Carbon disulfide	< 5.0	ug/L	A	
Methylene chloride	< 5.0	ug/L	A		t-Butanol	< 20.0	ug/L	N	
Methyl-t-butyl ether (MTBE)	< 2.0	ug/L	A		trans-1,2-Dichloroethene	< 1.0	ug/L	A	
Di-isopropyl ether (DIPE)	< 2.0	ug/L	N		1,1-Dichloroethane	< 1.0	ug/L	A	
Ethyl-t-butyl ether (ETBE)	< 2.0	ug/L	N		2-Butanone	< 10.0	ug/L	A	
2,2-Dichloropropane	< 2.0	ug/L	N		cis-1,2-Dichloroethene	< 1.0	ug/L	N	
Bromochloromethane	< 2.0	ug/L	N		Chloroform	< 1.0	ug/L	A	
Tetrahydrofuran	< 10.0	ug/L	U		1,1,1-Trichloroethane	< 1.0	ug/L	A	
Carbon tetrachloride	< 1.0	ug/L	A		1,1-Dichloropropene	< 1.0	ug/L	N	
Benzene	< 1.0	ug/L	A		t-Amylmethyl ether (TAME)	< 2.0	ug/L	N	
1,2-Dichloroethane	< 1.0	ug/L	A		Trichloroethene	< 1.0	ug/L	A	
1,2-Dichloropropane	< 2.0	ug/L	A		Dibromomethane	< 2.0	ug/L	N	
Bromodichloromethane	< 0.5	ug/L	A		cis-1,3-Dichloropropene	< 2.0	ug/L	A	
4-Methyl-2-pentanone (MIBK)	< 10.0	ug/L	N		Toluene	< 1.0	ug/L	A	
trans-1,3-Dichloropropene	< 2.0	ug/L	A		1,1,2-Trichloroethane	< 1.0	ug/L	A	
Tetrachloroethene	< 1.0	ug/L	A		1,3-Dichloropropane	< 1.0	ug/L	N	
2-Hexanone	< 10.0	ug/L	N		Dibromochloromethane	< 2.0	ug/L	A	
1,2-Dibromoethane	< 1.0	ug/L	A		Chlorobenzene	< 1.0	ug/L	A	
Ethylbenzene	< 1.0	ug/L	A		1,1,1,2-Tetrachloroethane	< 2.0	ug/L	A	
Xylenes, Total	< 2.0	ug/L	A		Styrene	< 1.0	ug/L	N	
Bromoform	< 2.0	ug/L	A		Isopropylbenzene	< 1.0	ug/L	A	
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	A		Bromobenzene	< 1.0	ug/L	N	
n-Propylbenzene	< 1.0	ug/L	A		1,2,3-Trichloropropane	< 2.0	ug/L	N	
2-Chlorotoluene	< 1.0	ug/L	N		1,3,5-Trimethylbenzene	< 1.0	ug/L	A	
4-Chlorotoluene	< 1.0	ug/L	N		t-Butylbenzene	< 1.0	ug/L	A	
1,2,4-Trimethylbenzene	< 1.0	ug/L	A		s-Butylbenzene	< 1.0	ug/L	N	
4-Isopropyltoluene	< 1.0	ug/L	A		1,3-Dichlorobenzene	< 1.0	ug/L	A	
1,4-Dichlorobenzene	< 1.0	ug/L	A		n-Butylbenzene	< 2.0	ug/L	A	
1,2-Dichlorobenzene	< 1.0	ug/L	A		1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	A		1,3,5-Trichlorobenzene	< 2.0	ug/L	N	
Hexachlorobutadiene	< 0.5	ug/L	N		Naphthalene	< 2.0	ug/L	A	
1,2,3-Trichlorobenzene	< 2.0	ug/L	N		Surr. 1 (Dibromofluoromethane)	108	%	N	
Surr. 3 (4-Bromofluorobenzene)	88	%	N		Surr. 2 (Toluene d8)	91	%	N	
Unidentified Peaks	0		U						

CLIENT: WaiteHeindel Environmental Mgt
PROJECT: NEWSVT LF Ground Water
REPORT DATE: 11/6/2014

WORK ORDER: **1410-21187**
DATE RECEIVED: 10/09/2014

TEST METHOD: EPA 8260C

031 Site: EQUIPMENT BLANK Sampled: 10/6/14 17:45 Test Date: 10/21/14 W MHM

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Dichlorodifluoromethane	< 5.0	ug/L	A		Chloromethane	< 3.0	ug/L	N	
Vinyl chloride	< 2.0	ug/L	A		Bromomethane	< 5.0	ug/L	A	
Chloroethane	< 5.0	ug/L	A		Trichlorofluoromethane	< 2.0	ug/L	A	
Diethyl ether	< 5.0	ug/L	N		1,1-Dichloroethene	< 1.0	ug/L	A	
Acetone	< 10.0	ug/L	A		Carbon disulfide	< 5.0	ug/L	A	
Methylene chloride	< 5.0	ug/L	A		t-Butanol	< 20.0	ug/L	N	QA-
Methyl-t-butyl ether (MTBE)	< 2.0	ug/L	A		trans-1,2-Dichloroethene	< 1.0	ug/L	A	
Di-isopropyl ether (DIPE)	< 2.0	ug/L	N		1,1-Dichloroethane	< 1.0	ug/L	A	
Ethyl-t-butyl ether (ETBE)	< 2.0	ug/L	N		2-Butanone	< 10.0	ug/L	A	
2,2-Dichloropropane	< 2.0	ug/L	N		cis-1,2-Dichloroethene	< 1.0	ug/L	N	
Bromochloromethane	< 2.0	ug/L	N		Chloroform	< 1.0	ug/L	A	
Tetrahydrofuran	< 10.0	ug/L	U		1,1,1-Trichloroethane	< 1.0	ug/L	A	
Carbon tetrachloride	< 1.0	ug/L	A		1,1-Dichloropropene	< 1.0	ug/L	N	
Benzene	< 1.0	ug/L	A		t-Amylmethyl ether (TAME)	< 2.0	ug/L	N	
1,2-Dichloroethane	< 1.0	ug/L	A		Trichloroethene	< 1.0	ug/L	A	
1,2-Dichloropropane	< 2.0	ug/L	A		Dibromomethane	< 2.0	ug/L	N	
Bromodichloromethane	< 0.5	ug/L	A		cis-1,3-Dichloropropene	< 1.0	ug/L	A	
4-Methyl-2-pentanone (MIBK)	< 10.0	ug/L	N		Toluene	< 1.0	ug/L	A	
trans-1,3-Dichloropropene	< 1.0	ug/L	A		1,1,2-Trichloroethane	< 1.0	ug/L	A	
Tetrachloroethene	< 1.0	ug/L	A		1,3-Dichloropropane	< 1.0	ug/L	N	
2-Hexanone	< 10.0	ug/L	N		Dibromochloromethane	< 2.0	ug/L	A	
1,2-Dibromoethane	< 1.0	ug/L	A		Chlorobenzene	< 1.0	ug/L	A	
Ethylbenzene	< 1.0	ug/L	A		1,1,1,2-Tetrachloroethane	< 2.0	ug/L	A	
Xylenes, Total	< 2.0	ug/L	A		Styrene	< 1.0	ug/L	N	
Bromoform	< 2.0	ug/L	A		Isopropylbenzene	< 1.0	ug/L	A	
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	A		Bromobenzene	< 1.0	ug/L	N	
n-Propylbenzene	< 1.0	ug/L	A		1,2,3-Trichloropropane	< 2.0	ug/L	N	
2-Chlorotoluene	< 1.0	ug/L	N		1,3,5-Trimethylbenzene	< 1.0	ug/L	A	
4-Chlorotoluene	< 1.0	ug/L	N		t-Butylbenzene	< 1.0	ug/L	A	
1,2,4-Trimethylbenzene	< 1.0	ug/L	A		s-Butylbenzene	< 1.0	ug/L	N	
4-Isopropyltoluene	< 1.0	ug/L	A		1,3-Dichlorobenzene	< 1.0	ug/L	A	
1,4-Dichlorobenzene	< 1.0	ug/L	A		n-Butylbenzene	< 1.0	ug/L	A	
1,2-Dichlorobenzene	< 1.0	ug/L	A		1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	A		1,3,5-Trichlorobenzene	< 2.0	ug/L	N	
Hexachlorobutadiene	< 0.5	ug/L	N		Naphthalene	< 2.0	ug/L	A	
1,2,3-Trichlorobenzene	< 2.0	ug/L	N		Surr. 1 (Dibromofluoromethane)	98	%	N	
Surr. 3 (4-Bromofluorobenzene)	98	%	N		Surr. 2 (Toluene d8)	90	%	N	
Unidentified Peaks	0		U						

CLIENT: WaiteHeindel Environmental Mgt
PROJECT: NEWSVT LF Ground Water
REPORT DATE: 11/6/2014

WORK ORDER: **1410-21187**
DATE RECEIVED: 10/09/2014

TEST METHOD: EPA 8260C

032 Site: TRIP BLANK 1 Sampled: 10/2/14 Test Date: 10/21/14 W MHM

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Dichlorodifluoromethane	< 5.0	ug/L	A		Chloromethane	< 3.0	ug/L	N	
Vinyl chloride	< 2.0	ug/L	A		Bromomethane	< 5.0	ug/L	A	
Chloroethane	< 5.0	ug/L	A		Trichlorofluoromethane	< 2.0	ug/L	A	
Diethyl ether	< 5.0	ug/L	N		1,1-Dichloroethene	< 1.0	ug/L	A	
Acetone	< 10.0	ug/L	A		Carbon disulfide	< 5.0	ug/L	A	
Methylene chloride	< 5.0	ug/L	A		t-Butanol	< 20.0	ug/L	N	QA-
Methyl-t-butyl ether (MTBE)	< 2.0	ug/L	A		trans-1,2-Dichloroethene	< 1.0	ug/L	A	
Di-isopropyl ether (DIPE)	< 2.0	ug/L	N		1,1-Dichloroethane	< 1.0	ug/L	A	
Ethyl-t-butyl ether (ETBE)	< 2.0	ug/L	N		2-Butanone	< 10.0	ug/L	A	
2,2-Dichloropropane	< 2.0	ug/L	N		cis-1,2-Dichloroethene	< 1.0	ug/L	N	
Bromochloromethane	< 2.0	ug/L	N		Chloroform	< 1.0	ug/L	A	
Tetrahydrofuran	< 10.0	ug/L	U		1,1,1-Trichloroethane	< 1.0	ug/L	A	
Carbon tetrachloride	< 1.0	ug/L	A		1,1-Dichloropropene	< 1.0	ug/L	N	
Benzene	< 1.0	ug/L	A		t-Amylmethyl ether (TAME)	< 2.0	ug/L	N	
1,2-Dichloroethane	< 1.0	ug/L	A		Trichloroethene	< 1.0	ug/L	A	
1,2-Dichloropropane	< 2.0	ug/L	A		Dibromomethane	< 2.0	ug/L	N	
Bromodichloromethane	< 0.5	ug/L	A		cis-1,3-Dichloropropene	< 1.0	ug/L	A	
4-Methyl-2-pentanone (MIBK)	< 10.0	ug/L	N		Toluene	< 1.0	ug/L	A	
trans-1,3-Dichloropropene	< 1.0	ug/L	A		1,1,2-Trichloroethane	< 1.0	ug/L	A	
Tetrachloroethene	< 1.0	ug/L	A		1,3-Dichloropropane	< 1.0	ug/L	N	
2-Hexanone	< 10.0	ug/L	N		Dibromochloromethane	< 2.0	ug/L	A	
1,2-Dibromoethane	< 1.0	ug/L	A		Chlorobenzene	< 1.0	ug/L	A	
Ethylbenzene	< 1.0	ug/L	A		1,1,1,2-Tetrachloroethane	< 2.0	ug/L	A	
Xylenes, Total	< 2.0	ug/L	A		Styrene	< 1.0	ug/L	N	
Bromoform	< 2.0	ug/L	A		Isopropylbenzene	< 1.0	ug/L	A	
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	A		Bromobenzene	< 1.0	ug/L	N	
n-Propylbenzene	< 1.0	ug/L	A		1,2,3-Trichloropropane	< 2.0	ug/L	N	
2-Chlorotoluene	< 1.0	ug/L	N		1,3,5-Trimethylbenzene	< 1.0	ug/L	A	
4-Chlorotoluene	< 1.0	ug/L	N		t-Butylbenzene	< 1.0	ug/L	A	
1,2,4-Trimethylbenzene	< 1.0	ug/L	A		s-Butylbenzene	< 1.0	ug/L	N	
4-Isopropyltoluene	< 1.0	ug/L	A		1,3-Dichlorobenzene	< 1.0	ug/L	A	
1,4-Dichlorobenzene	< 1.0	ug/L	A		n-Butylbenzene	< 1.0	ug/L	A	
1,2-Dichlorobenzene	< 1.0	ug/L	A		1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	A		1,3,5-Trichlorobenzene	< 2.0	ug/L	N	
Hexachlorobutadiene	< 0.5	ug/L	N		Naphthalene	< 2.0	ug/L	A	
1,2,3-Trichlorobenzene	< 2.0	ug/L	N		Surr. 1 (Dibromofluoromethane)	96	%	N	
Surr. 2 (Toluene d8)	95	%	N		Surr. 3 (4-Bromofluorobenzene)	95	%	N	
Unidentified Peaks	0		U						

CLIENT: WaiteHeindel Environmental Mgt
PROJECT: NEWSVT LF Ground Water
REPORT DATE: 11/6/2014

WORK ORDER: **1410-21187**
DATE RECEIVED: 10/09/2014

TEST METHOD: EPA 8260C

033 Site: TRIP BLANK 2 Sampled: 10/2/14 Test Date: 10/17/14 W SJM

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Dichlorodifluoromethane	< 5.0	ug/L	A		Chloromethane	< 3.0	ug/L	N	
Vinyl chloride	< 2.0	ug/L	A		Bromomethane	< 5.0	ug/L	A	
Chloroethane	< 5.0	ug/L	A		Trichlorofluoromethane	< 2.0	ug/L	A	
Diethyl ether	< 5.0	ug/L	N		1,1-Dichloroethene	< 1.0	ug/L	A	
Acetone	< 10.0	ug/L	A		Carbon disulfide	< 5.0	ug/L	A	
Methylene chloride	< 5.0	ug/L	A		t-Butanol	< 20.0	ug/L	N	
Methyl-t-butyl ether (MTBE)	< 2.0	ug/L	A		trans-1,2-Dichloroethene	< 1.0	ug/L	A	
Di-isopropyl ether (DIPE)	< 2.0	ug/L	N		1,1-Dichloroethane	< 1.0	ug/L	A	
Ethyl-t-butyl ether (ETBE)	< 2.0	ug/L	N		2-Butanone	< 10.0	ug/L	A	
2,2-Dichloropropane	< 2.0	ug/L	N		cis-1,2-Dichloroethene	< 1.0	ug/L	N	
Bromochloromethane	< 2.0	ug/L	N		Chloroform	< 1.0	ug/L	A	
Tetrahydrofuran	< 10.0	ug/L	U		1,1,1-Trichloroethane	< 1.0	ug/L	A	
Carbon tetrachloride	< 1.0	ug/L	A		1,1-Dichloropropene	< 1.0	ug/L	N	
Benzene	< 1.0	ug/L	A		t-Amylmethyl ether (TAME)	< 2.0	ug/L	N	
1,2-Dichloroethane	< 1.0	ug/L	A		Trichloroethene	< 1.0	ug/L	A	
1,2-Dichloropropane	< 2.0	ug/L	A		Dibromomethane	< 2.0	ug/L	N	
Bromodichloromethane	< 0.5	ug/L	A		cis-1,3-Dichloropropene	< 2.0	ug/L	A	
4-Methyl-2-pentanone (MIBK)	< 10.0	ug/L	N		Toluene	< 1.0	ug/L	A	
trans-1,3-Dichloropropene	< 2.0	ug/L	A		1,1,2-Trichloroethane	< 1.0	ug/L	A	
Tetrachloroethene	< 1.0	ug/L	A		1,3-Dichloropropane	< 1.0	ug/L	N	
2-Hexanone	< 10.0	ug/L	N		Dibromochloromethane	< 2.0	ug/L	A	
1,2-Dibromoethane	< 1.0	ug/L	A		Chlorobenzene	< 1.0	ug/L	A	
Ethylbenzene	< 1.0	ug/L	A		1,1,1,2-Tetrachloroethane	< 2.0	ug/L	A	
Xylenes, Total	< 2.0	ug/L	A		Styrene	< 1.0	ug/L	N	
Bromoform	< 2.0	ug/L	A		Isopropylbenzene	< 1.0	ug/L	A	
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	A		Bromobenzene	< 1.0	ug/L	N	
n-Propylbenzene	< 1.0	ug/L	A		1,2,3-Trichloropropane	< 2.0	ug/L	N	
2-Chlorotoluene	< 1.0	ug/L	N		1,3,5-Trimethylbenzene	< 1.0	ug/L	A	
4-Chlorotoluene	< 1.0	ug/L	N		t-Butylbenzene	< 1.0	ug/L	A	
1,2,4-Trimethylbenzene	< 1.0	ug/L	A		s-Butylbenzene	< 1.0	ug/L	N	
4-Isopropyltoluene	< 1.0	ug/L	A		1,3-Dichlorobenzene	< 1.0	ug/L	A	
1,4-Dichlorobenzene	< 1.0	ug/L	A		n-Butylbenzene	< 2.0	ug/L	A	
1,2-Dichlorobenzene	< 1.0	ug/L	A		1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	A		1,3,5-Trichlorobenzene	< 2.0	ug/L	N	
Hexachlorobutadiene	< 0.5	ug/L	N		Naphthalene	< 2.0	ug/L	A	
1,2,3-Trichlorobenzene	< 2.0	ug/L	N		Surr. 1 (Dibromofluoromethane)	112	%	N	
Surr. 3 (4-Bromofluorobenzene)	88	%	N		Surr. 2 (Toluene d8)	92	%	N	
Unidentified Peaks	0		U						

Report Summary of Qualifiers and Notes

RPD: The Relative Percent Difference of the Matrix Spike Duplicate was above method acceptance limits.

AN1: The analytical batch initial Calibration Verification Standard was 89% of the expected target.

QA-: QA/QC associated with this analysis did not meet laboratory acceptance limits indicating the results may be biased low.

M-: The laboratory fortified matrix (LFM) analysis indicates a potential negative bias in the reported value.

NEWSVT LF Ground Water

Endyne Inc. COC

Prepared: 2/24/12

Lab Use WO#
1410-2187

Bill to:
Sherry Bradley
Casella Waste Management, Inc.
3 Pitkin Court
Montpelier VT 05602
Ph: (802)223-7221

Report to:
Craig Heindel
Heindel & Noyes
PO Box 4503
Burlington VT 05406
CasellaNEWSVThn

Customer # 070338

NEWSVTLFGWSW

W-70338NGW

A-1 Sampled Date/Time: 10/6/14 @ 1701 Sampler: WLC/SC

Chloride	1 - 2 oz --	Plastic	<6C
COD	1 - 2 oz --	Plastic or Glass	<6C, H2SO4 ✓
Iron, Dissolved Manganese, Dissolved	1 - 8 oz --	Plastic Filtered Metals	Filter ✓ HNO3
Metals Furnace Digestion Antimony, Total Arsenic, Total Barium, Total Beryllium, Total Cadmium, Total Chromium, Total Cobalt, Total Copper, Total Iron, Total Lead, Total Manganese, Total Mercury, Total Nickel, Total Selenium, Total Silver, Total Sodium, Total Thallium, Total Vanadium, Total Zinc, Total	1 - 16 oz --	Plastic Total Metals	HNO3
VOC w/ Oxygenates, Water	2 --	40ml vials	<6C, HCl

B-1 Sampled Date/Time: 10/6/14 @ 1455 Sampler: WKLSC

Chloride	1 - 2 oz --	Plastic	<6C
COD	1 - 2 oz --	Plastic or Glass	<6C, H2SO4 ✓
Iron, Dissolved	1 - 8 oz --	Plastic Filtered Metals	Filter ✓ HNO3_____
Manganese, Dissolved			
Metals Furnace Digestion	1 - 16 oz --	Plastic Total Metals	HNO3_____
Antimony, Total			
Arsenic, Total			
Barium, Total			
Beryllium, Total			
Cadmium, Total			
Chromium, Total			
Cobalt, Total			
Copper, Total			
Iron, Total			
Lead, Total			
Manganese, Total			
Mercury, Total			
Nickel, Total			
Selenium, Total			
Silver, Total			
Sodium, Total			
Thallium, Total			
Vanadium, Total			
Zinc, Total			
VOC w/ Oxygenates, Water	2 --	40ml vials	<6C, HCl

D1R Sampled Date/Time: 10/6/14 @ 1103 Sampler: WKLSC

Chloride	1 - 2 oz --	Plastic	<6C
COD	1 - 2 oz --	Plastic or Glass	<6C, H2SO4 ✓
Iron, Dissolved	1 - 8 oz --	Plastic Filtered Metals	Filter ✓ HNO3_____
Manganese, Dissolved			
Metals Furnace Digestion	1 - 16 oz --	Plastic Total Metals	HNO3_____
Antimony, Total			
Arsenic, Total			
Barium, Total			
Beryllium, Total			
Cadmium, Total			
Chromium, Total			
Cobalt, Total			
Copper, Total			
Iron, Total			
Lead, Total			
Manganese, Total			
Mercury, Total			
Nickel, Total			
Selenium, Total			
Silver, Total			
Sodium, Total			
Thallium, Total			
Vanadium, Total			
Zinc, Total			
VOC w/ Oxygenates, Water	2 --	40ml vials	<6C, HCl

D2 Sampled Date/Time: 10/6/14 @ 1147 Sampler: WKISC

Chloride	1 - 2 oz --	Plastic	<6C
COD	1 - 2 oz --	Plastic or Glass	<6C, H2SO4 ✓
Iron, Dissolved	1 - 8 oz --	Plastic Filtered Metals	Filter ✓ HNO3
Manganese, Dissolved			
Metals Furnace Digestion	1 - 16 oz --	Plastic Total Metals	HNO3
Antimony, Total			
Arsenic, Total			
Barium, Total			
Beryllium, Total			
Cadmium, Total			
Chromium, Total			
Cobalt, Total			
Copper, Total			
Iron, Total			
Lead, Total			
Manganese, Total			
Mercury, Total			
Nickel, Total			
Selenium, Total			
Silver, Total			
Sodium, Total			
Thallium, Total			
Vanadium, Total			
Zinc, Total			
VOC w/ Oxygenates, Water	2 --	40ml vials	<6C, HCl

P2R Sampled Date/Time: 10/6/14 @ 1530 Sampler: WKISC

Chloride	1 - 2 oz --	Plastic	<6C
COD	1 - 2 oz --	Plastic or Glass	<6C, H2SO4 ✓
Iron, Dissolved	1 - 8 oz --	Plastic Filtered Metals	Filter ✓ HNO3
Manganese, Dissolved			
Metals Furnace Digestion	1 - 16 oz --	Plastic Total Metals	HNO3
Antimony, Total			
Arsenic, Total			
Barium, Total			
Beryllium, Total			
Cadmium, Total			
Chromium, Total			
Cobalt, Total			
Copper, Total			
Iron, Total			
Lead, Total			
Manganese, Total			
Mercury, Total			
Nickel, Total			
Selenium, Total			
Silver, Total			
Sodium, Total			
Thallium, Total			
Vanadium, Total			
Zinc, Total			
VOC w/ Oxygenates, Water	2 --	40ml vials	<6C, HCl

P5 Sampled Date/Time: 10/6/14 @ 1620 Sampler: WHSC

Chloride	**1 - 2 oz --**	Plastic	<6C
COD	**1 - 2 oz --**	Plastic or Glass	<6C, H2SO4 ✓
Iron, Dissolved Manganese, Dissolved	**1 - 8 oz --**	Plastic Filtered Metals	Filter ✓ HNO3
Metals Furnace Digestion Antimony, Total Arsenic, Total Barium, Total Beryllium, Total Cadmium, Total Chromium, Total Cobalt, Total Copper, Total Iron, Total Lead, Total Manganese, Total Mercury, Total Nickel, Total Selenium, Total Silver, Total Sodium, Total Thallium, Total Vanadium, Total Zinc, Total	**1 - 16 oz --**	Plastic Total Metals	HNO3
VOC w/ Oxygenates, Water	**2 --**	40ml vials	<6C, HCl

P6 Sampled Date/Time: 10/7/14 @ 1523 Sampler: WHSC

Chloride	**1 - 2 oz --**	Plastic	<6C
COD	**1 - 2 oz --**	Plastic or Glass	<6C, H2SO4 ✓
Iron, Dissolved Manganese, Dissolved	**1 - 8 oz --**	Plastic Filtered Metals	Filter ✓ HNO3
Metals Furnace Digestion Antimony, Total Arsenic, Total Barium, Total Beryllium, Total Cadmium, Total Chromium, Total Cobalt, Total Copper, Total Iron, Total Lead, Total Manganese, Total Mercury, Total Nickel, Total Selenium, Total Silver, Total Sodium, Total Thallium, Total Vanadium, Total Zinc, Total	**1 - 16 oz --**	Plastic Total Metals	HNO3
VOC w/ Oxygenates, Water	**2 --**	40ml vials	<6C, HCl

* BRW-3S (MS)

Sampled Date/Time: 10/7/14 @ 1003 Sampler: CPISC

Chloride	1 - 2 oz --	Plastic	<6C
COD	1 - 2 oz --	Plastic or Glass	<6C, H2SO4 ✓
Iron, Dissolved Manganese, Dissolved	1 - 8 oz --	Plastic Filtered Metals	Filter ✓ HNO3
Metals Furnace Digestion Antimony, Total Arsenic, Total Barium, Total Beryllium, Total Cadmium, Total Chromium, Total Cobalt, Total Copper, Total Iron, Total Lead, Total Manganese, Total Mercury, Total Nickel, Total Selenium, Total Silver, Total Sodium, Total Thallium, Total Vanadium, Total Zinc, Total	1 - 16 oz --	Plastic Total Metals	HNO3
VOC w/ Oxygenates, Water	2 --	40ml vials	<6C, HCl

409

Sampled Date/Time: 10/7/14 @ 1626 Sampler: WH ISC

Chloride	1 - 2 oz --	Plastic	<6C
COD	1 - 2 oz --	Plastic or Glass	<6C, H2SO4 ✓
Iron, Dissolved Manganese, Dissolved	1 - 8 oz --	Plastic Filtered Metals	Filter ✓ HNO3
Metals Furnace Digestion Antimony, Total Arsenic, Total Barium, Total Beryllium, Total Cadmium, Total Chromium, Total Cobalt, Total Copper, Total Iron, Total Lead, Total Manganese, Total Mercury, Total Nickel, Total Selenium, Total Silver, Total Sodium, Total Thallium, Total Vanadium, Total Zinc, Total	1 - 16 oz --	Plastic Total Metals	HNO3
VOC w/ Oxygenates, Water	2 --	40ml vials	<6C, HCl

703 Sampled Date/Time: 10/6/14 @ 1717 Sampler: CP

Chloride	**1 - 2 oz --**	Plastic	<6C
COD	**1 - 2 oz --**	Plastic or Glass	<6C, H2SO4 ✓
Iron, Dissolved Manganese, Dissolved	**1 - 8 oz --**	Plastic Filtered Metals	Filter ✓ HNO3
Metals Furnace Digestion Antimony, Total Arsenic, Total Barium, Total Beryllium, Total Cadmium, Total Chromium, Total Cobalt, Total Copper, Total Iron, Total Lead, Total Manganese, Total Mercury, Total Nickel, Total Selenium, Total Silver, Total Sodium, Total Thallium, Total Vanadium, Total Zinc, Total	**1 - 16 oz --**	Plastic Total Metals	HNO3
VOC w/ Oxygenates, Water	**2 --**	40ml vials	<6C, HCl

412R Sampled Date/Time: 10/7/14 @ 1131 Sampler: WMSC

Chloride	**1 - 2 oz --**	Plastic	<6C
COD	**1 - 2 oz --**	Plastic or Glass	<6C, H2SO4 ✓
Iron, Dissolved Manganese, Dissolved	**1 - 8 oz --**	Plastic Filtered Metals	Filter ✓ HNO3
Metals Furnace Digestion Antimony, Total Arsenic, Total Barium, Total Beryllium, Total Cadmium, Total Chromium, Total Cobalt, Total Copper, Total Iron, Total Lead, Total Manganese, Total Mercury, Total Nickel, Total Selenium, Total Silver, Total Sodium, Total Thallium, Total Vanadium, Total Zinc, Total	**1 - 16 oz --**	Plastic Total Metals	HNO3
VOC w/ Oxygenates, Water	**2 --**	40ml vials	<6C, HCl

705 Sampled Date/Time: 10/7/14 @ 1637 Sampler: CP

Chloride	**1 - 2 oz --**	Plastic	<6C
COD	**1 - 2 oz --**	Plastic or Glass	<6C, H2SO4 ✓
Iron, Dissolved Manganese, Dissolved	**1 - 8 oz --**	Plastic Filtered Metals	Filter ✓ HNO3
Metals Furnace Digestion Antimony, Total Arsenic, Total Barium, Total Beryllium, Total Cadmium, Total Chromium, Total Cobalt, Total Copper, Total Iron, Total Lead, Total Manganese, Total Mercury, Total Nickel, Total Selenium, Total Silver, Total Sodium, Total Thallium, Total Vanadium, Total Zinc, Total	**1 - 16 oz --**	Plastic Total Metals	HNO3
VOC w/ Oxygenates, Water	**2 --**	40ml vials	<6C, HCl

706 Sampled Date/Time: 10/7/14 @ 1457 Sampler: CP

Chloride	**1 - 2 oz --**	Plastic	<6C
COD	**1 - 2 oz --**	Plastic or Glass	<6C, H2SO4 ✓
Iron, Dissolved Manganese, Dissolved	**1 - 8 oz --**	Plastic Filtered Metals	Filter ✓ HNO3
Metals Furnace Digestion Antimony, Total Arsenic, Total Barium, Total Beryllium, Total Cadmium, Total Chromium, Total Cobalt, Total Copper, Total Iron, Total Lead, Total Manganese, Total Mercury, Total Nickel, Total Selenium, Total Silver, Total Sodium, Total Thallium, Total Vanadium, Total Zinc, Total	**1 - 16 oz --**	Plastic Total Metals	HNO3
VOC w/ Oxygenates, Water	**2 --**	40ml vials	<6C, HCl

DW-21 Sampled Date/Time: 10/8/14 @ 0845 Sampler: CR

Chloride	**1 - 2 oz --**	Plastic	<6C
COD	**1 - 2 oz --**	Plastic or Glass	<6C, H2SO4 ✓
Iron, Dissolved Manganese, Dissolved	**1 - 8 oz --**	Plastic Filtered Metals	Filter ✓ HNO3
Metals Furnace Digestion Antimony, Total Arsenic, Total Barium, Total Beryllium, Total Cadmium, Total Chromium, Total Cobalt, Total Copper, Total Iron, Total Lead, Total Manganese, Total Mercury, Total Nickel, Total Selenium, Total Silver, Total Sodium, Total Thallium, Total Vanadium, Total Zinc, Total	**1 - 16 oz --**	Plastic Total Metals	HNO3
VOC w/ Oxygenates, Water	**2 --**	40ml vials	<6C, HCl

805S Sampled Date/Time: 10/7/14 @ 1125 Sampler: CR

Chloride	**1 - 2 oz --**	Plastic	<6C
COD	**1 - 2 oz --**	Plastic or Glass	<6C, H2SO4 ✓
Iron, Dissolved Manganese, Dissolved	**1 - 8 oz --**	Plastic Filtered Metals	Filter ✓ HNO3
Metals Furnace Digestion Antimony, Total Arsenic, Total Barium, Total Beryllium, Total Cadmium, Total Chromium, Total Cobalt, Total Copper, Total Iron, Total Lead, Total Manganese, Total Mercury, Total Nickel, Total Selenium, Total Silver, Total Sodium, Total Thallium, Total Vanadium, Total Zinc, Total	**1 - 16 oz --**	Plastic Total Metals	HNO3
VOC w/ Oxygenates, Water	**2 --**	40ml vials	<6C, HCl

103

Sampled Date/Time: 10/6/14 @1513 Sampler: CP

Chloride	**1 - 2 oz --**	Plastic	<6C
COD	**1 - 2 oz --**	Plastic or Glass	<6C, H2SO4 ✓
Iron, Dissolved Manganese, Dissolved	**1 - 8 oz --**	Plastic Filtered Metals	Filter ✓ HNO3
Metals Furnace Digestion Antimony, Total Arsenic, Total Barium, Total Beryllium, Total Cadmium, Total Chromium, Total Cobalt, Total Copper, Total Iron, Total Lead, Total Manganese, Total Mercury, Total Nickel, Total Selenium, Total Silver, Total Sodium, Total Thallium, Total Vanadium, Total Zinc, Total	**1 - 16 oz --**	Plastic Total Metals	HNO3
VOC w/ Oxygenates, Water	**2 --**	40ml vials	<6C, HCl

~~WTR~~ WL [RW-30]

Sampled Date/Time: 10/7/14 @0914 Sampler: CP/SL

Chloride	**1 - 2 oz --**	Plastic	<6C
COD	**1 - 2 oz --**	Plastic or Glass	<6C, H2SO4 ✓
Iron, Dissolved Manganese, Dissolved	**1 - 8 oz --**	Plastic Filtered Metals	Filter ✓ HNO3
Metals Furnace Digestion Antimony, Total Arsenic, Total Barium, Total Beryllium, Total Cadmium, Total Chromium, Total Cobalt, Total Copper, Total Iron, Total Lead, Total Manganese, Total Mercury, Total Nickel, Total Selenium, Total Silver, Total Sodium, Total Thallium, Total Vanadium, Total Zinc, Total	**1 - 16 oz --**	Plastic Total Metals	HNO3
VOC w/ Oxygenates, Water	**2 --**	40ml vials	<6C, HCl

E1 Sampled Date/Time: 10/7/14 @ 1135 Sampler: CP

Chloride	**1 - 2 oz --**	Plastic	<6C
COD	**1 - 2 oz --**	Plastic or Glass	<6C, H2SO4 ✓
Iron, Dissolved Manganese, Dissolved	**1 - 8 oz --**	Plastic Filtered Metals	Filter ✓ HNO3_____
Metals Furnace Digestion Antimony, Total Arsenic, Total Barium, Total Beryllium, Total Cadmium, Total Chromium, Total Cobalt, Total Copper, Total Iron, Total Lead, Total Manganese, Total Mercury, Total Nickel, Total Selenium, Total Silver, Total Sodium, Total Thallium, Total Vanadium, Total Zinc, Total	**1 - 16 oz --**	Plastic Total Metals	HNO3_____
VOC w/ Oxygenates, Water	**2 --**	40ml vials	<6C, HCl

ST ONGE Sampled Date/Time: 10/8/14 @ 1700 Sampler: CP

Chloride	**1 - 2 oz --**	Plastic	<6C
COD	**1 - 2 oz --**	Plastic or Glass	<6C, H2SO4 ✓
Iron, Dissolved Manganese, Dissolved	**1 - 8 oz --**	Plastic Filtered Metals	Filter ✓ HNO3_____
Metals Furnace Digestion Antimony, Total Arsenic, Total Barium, Total Beryllium, Total Cadmium, Total Chromium, Total Cobalt, Total Copper, Total Iron, Total Lead, Total Manganese, Total Mercury, Total Nickel, Total Selenium, Total Silver, Total Sodium, Total Thallium, Total Vanadium, Total Zinc, Total	**1 - 16 oz --**	Plastic Total Metals	HNO3_____
VOC w/ Oxygenates, Water	**2 --**	40ml vials	<6C, HCl

801BR-R Sampled Date/Time: 10/6/14 @1117 Sampler: CP

Chloride	**1 - 2 oz --**	Plastic	<6C
COD	**1 - 2 oz --**	Plastic or Glass	<6C, H2SO4 ✓
Iron, Dissolved Manganese, Dissolved	**1 - 8 oz --**	Plastic Filtered Metals	Filter ✓ HNO3
Metals Furnace Digestion Antimony, Total Arsenic, Total Barium, Total Beryllium, Total Cadmium, Total Chromium, Total Cobalt, Total Copper, Total Iron, Total Lead, Total Manganese, Total Mercury, Total Nickel, Total Selenium, Total Silver, Total Sodium, Total Thallium, Total Vanadium, Total Zinc, Total	**1 - 16 oz --**	Plastic Total Metals	HNO3
VOC w/ Oxygenates, Water	**2 --**	40ml vials	<6C, HCl

801D-R Sampled Date/Time: 10/6/14 @ 1253 Sampler: CP

Chloride	**1 - 2 oz --**	Plastic	<6C
COD	**1 - 2 oz --**	Plastic or Glass	<6C, H2SO4 ✓
Iron, Dissolved Manganese, Dissolved	**1 - 8 oz --**	Plastic Filtered Metals	Filter ✓ HNO3
Metals Furnace Digestion Antimony, Total Arsenic, Total Barium, Total Beryllium, Total Cadmium, Total Chromium, Total Cobalt, Total Copper, Total Iron, Total Lead, Total Manganese, Total Mercury, Total Nickel, Total Selenium, Total Silver, Total Sodium, Total Thallium, Total Vanadium, Total Zinc, Total	**1 - 16 oz --**	Plastic Total Metals	HNO3
VOC w/ Oxygenates, Water	**2 --**	40ml vials	<6C, HCl

P8 Sampled Date/Time: 10/7/14 @ 1027 Sampler: WL

Chloride	1 - 2 oz --	Plastic	<6C
COD	1 - 2 oz --	Plastic or Glass	<6C, H2SO4 ✓
Iron, Dissolved Manganese, Dissolved	1 - 8 oz --	Plastic Filtered Metals	Filter ✓ HNO3
Metals Furnace Digestion Antimony, Total Arsenic, Total Barium, Total Beryllium, Total Cadmium, Total Chromium, Total Cobalt, Total Copper, Total Iron, Total Lead, Total Manganese, Total Mercury, Total Nickel, Total Selenium, Total Silver, Total Sodium, Total Thallium, Total Vanadium, Total Zinc, Total	1 - 16 oz --	Plastic Total Metals	HNO3
VOC w/ Oxygenates, Water	2 --	40ml vials	<6C, HCl

804SR Sampled Date/Time: 10/7/14 @ 1411 Sampler: WLSC

Chloride	1 - 2 oz --	Plastic	<6C
COD	1 - 2 oz --	Plastic or Glass	<6C, H2SO4 ✓
Iron, Dissolved Manganese, Dissolved	1 - 8 oz --	Plastic Filtered Metals	Filter ✓ HNO3
Metals Furnace Digestion Antimony, Total Arsenic, Total Barium, Total Beryllium, Total Cadmium, Total Chromium, Total Cobalt, Total Copper, Total Iron, Total Lead, Total Manganese, Total Mercury, Total Nickel, Total Selenium, Total Silver, Total Sodium, Total Thallium, Total Vanadium, Total Zinc, Total	1 - 16 oz --	Plastic Total Metals	HNO3
VOC w/ Oxygenates, Water	2 --	40ml vials	<6C, HCl

DUP 1 e DIR Sampled Date/Time: 10/6/14 @ — Sampler: WKISC

Chloride	**1 - 2 oz --**	Plastic	<6C
COD	**1 - 2 oz --**	Plastic or Glass	<6C, H2SO4_____
Iron, Dissolved Manganese, Dissolved	**1 - 8 oz --**	Plastic Filtered Metals	Filter ✓ HNO3_____
Metals Furnace Digestion Antimony, Total Arsenic, Total Barium, Total Beryllium, Total Cadmium, Total Chromium, Total Cobalt, Total Copper, Total Iron, Total Lead, Total Manganese, Total Mercury, Total Nickel, Total Selenium, Total Silver, Total Sodium, Total Thallium, Total Vanadium, Total Zinc, Total	**1 - 16 oz --**	Plastic Total Metals	HNO3_____
VOC w/ Oxygenates, Water	**2 --**	40ml vials	<6C, HCl

DUP 2 e P2R Sampled Date/Time: 10/6/14 @ — Sampler: WKISC

Chloride	**1 - 2 oz --**	Plastic	<6C
COD	**1 - 2 oz --**	Plastic or Glass	<6C, H2SO4_____
Iron, Dissolved Manganese, Dissolved	**1 - 8 oz --**	Plastic Filtered Metals	Filter ✓ HNO3_____
Metals Furnace Digestion Antimony, Total Arsenic, Total Barium, Total Beryllium, Total Cadmium, Total Chromium, Total Cobalt, Total Copper, Total Iron, Total Lead, Total Manganese, Total Mercury, Total Nickel, Total Selenium, Total Silver, Total Sodium, Total Thallium, Total Vanadium, Total Zinc, Total	**1 - 16 oz --**	Plastic Total Metals	HNO3_____
VOC w/ Oxygenates, Water	**2 --**	40ml vials	<6C, HCl

DUP 3 E412A Sampled Date/Time: 10/7/14 @ — Sampler: WM/SC

Chloride	**1 - 2 oz --**	Plastic	<6C
COD	**1 - 2 oz --**	Plastic or Glass	<6C, H2SO4 ✓
Iron, Dissolved	**1 - 8 oz --**	Plastic Filtered Metals	Filter ✓ HNO3
Manganese, Dissolved			
Metals Furnace Digestion	**1 - 16 oz --**	Plastic Total Metals	HNO3
Antimony, Total			
Arsenic, Total			
Barium, Total			
Beryllium, Total			
Cadmium, Total			
Chromium, Total			
Cobalt, Total			
Copper, Total			
Iron, Total			
Lead, Total			
Manganese, Total			
Mercury, Total			
Nickel, Total			
Selenium, Total			
Silver, Total			
Sodium, Total			
Thallium, Total			
Vanadium, Total			
Zinc, Total			
VOC w/ Oxygenates, Water	**2 --**	40ml vials	<6C, HCl

TRIP BLANK 1 Sampled Date/Time: 10/2/14 @ Sampler: endyne

VOC w/ Oxygenates, Water	**1 --**	40ml vials	<6C, HCl

TRIP BLANK 2 Sampled Date/Time: 10/2/14 @ Sampler: endyne

VOC w/ Oxygenates, Water	**1 --**	40ml vials	<6C, HCl

EQUIPMENT BLANK Sample date/time 10/6/14 @ 1745 Sampler WM/CP/SC

WM

2 40mL VIALS HCL

Relinquished by: Stacy Chase 10/9/14 1105 Accepted by: Eileen Cooney 10/9 @ 11:05
Date Time Date Time

Relinquished by: _____ Received by: _____
Date Time Date Time

Sites/Parameters correct as listed. Client Initials _____

Client Authorization to use Subcontract lab Client Initials _____

Sample origin: VT ☐ NH ☐ NY ☐ Other ☐

Special reporting instructions: (PO#) _____

Requested Turnaround Time: Routine: Rush Due Date _____

Delv: Client Tmpl Ck Lab use Only
Temp C: -4.7 Log by
Comment:

ENDYNE Inc.
www.endynelabs.com

160 James Brown Dr.
Williston, VT 05495
Ph 802-879-4333
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56 Etna Road
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Plattsburgh, NY 12903
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ENDYNE Inc.
Environmental Laboratories

Laboratory Report

WaiteHeindel Environmental Mgt 070338
7 Kilburn Street
Suite 301
Burlington, VT 05406
Atten: Miles Waite

PROJECT: NEWSVT LF Surface Water
WORK ORDER: **1410-21183**
DATE RECEIVED: October 09, 2014
DATE REPORTED: October 24, 2014
SAMPLER: Wendy/Stefon

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. All required method quality control elements including instrument calibration were performed in accordance with method requirements and determined to be acceptable unless otherwise noted.

The column labeled Lab/Tech in the accompanying report denotes the laboratory facility where the testing was performed and the technician who conducted the assay. A "W" designates the Williston, VT lab under NELAC certification ELAP 11263; "R" designates the Lebanon, NH facility under certification NH 2037 and "N" the Plattsburgh, NY lab under certification ELAP 11892. "Sub" indicates the testing was performed by a subcontracted laboratory. The accreditation status of the subcontracted lab is referenced in the corresponding NELAC and Qual fields.

The NELAC column also denotes the accreditation status of each laboratory for each reported parameter. "A" indicates the referenced laboratory is NELAC accredited for the parameter reported. "N" indicates the laboratory is not accredited. "U" indicates that NELAC does not offer accreditation for that parameter in that specific matrix. Test results denoted with an "A" meet all National Environmental Laboratory Accreditation Program requirements except where denoted by pertinent data qualifiers. Test results are representative of the samples as they were received at the laboratory

Endyne, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose.

Reviewed by:

Harry B. Locker, Ph.D.
Laboratory Director

CLIENT: WaiteHeindel Environmental Mgt
PROJECT: NEWSVT LF Surface Water
REPORT DATE: 10/24/2014

WORK ORDER: **1410-21183**
DATE RECEIVED: 10/09/2014

001 Site: SW-1 Date Sampled: 10/9/14 Time: 8:15

Parameter	Result	Units	Method	Analysis Date		Lab/Tech	NELAC	Qual.
BOD-5day	< 2.5	mg/L	SM 5210B(01)	10/9/14	15:58	W JSS	A	
Chloride	12	mg/L	SM 4500-Cl-E	10/14/14		N JGM	A	
COD	22	mg/L	Hach8000/EPA410.4	10/14/14		N JGM	A	
Hardness, Total as CaCO3	116	mg/L	EPA 200.7	10/16/14		W RGT	A	
Antimony, Total	< 0.002	mg/L	SM 3113B-04	10/14/14		W CM	A	
Arsenic, Total	0.002	mg/L	SM 3113B-04	10/14/14		W CM	A	
Barium, Total	< 0.020	mg/L	EPA 200.7	10/14/14		W RGT	A	
Beryllium, Total	< 0.001	mg/L	EPA 200.7	10/14/14		W RGT	A	
Cadmium, Total	< 0.002	mg/L	EPA 200.7	10/14/14		W RGT	A	
Calcium, Total	36	mg/L	EPA 200.7	10/14/14		W RGT	A	
Chromium, Total	< 0.005	mg/L	EPA 200.7	10/14/14		W RGT	A	
Cobalt, Total	< 0.020	mg/L	EPA 200.7	10/14/14		W RGT	A	
Copper, Total	< 0.020	mg/L	EPA 200.7	10/14/14		W RGT	A	
Iron, Total	0.48	mg/L	EPA 200.7	10/14/14		W RGT	A	
Lead, Total	< 0.001	mg/L	SM 3113B-04	10/17/14		W CM	A	
Magnesium, Total	6.3	mg/L	EPA 200.7	10/16/14		W RGT	A	
Manganese, Total	0.096	mg/L	EPA 200.7	10/14/14		W RGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	10/14/14		W EER	A	
Molybdenum, Total	< 0.020	mg/L	EPA 200.7	10/14/14		W RGT	A	
Nickel, Total	< 0.005	mg/L	EPA 200.7	10/14/14		W RGT	A	
Selenium, Total	< 0.002	mg/L	SM20 3113B	10/14/14		W CM	A	
Sodium, Total	6.9	mg/L	EPA 200.7	10/16/14		W RGT	A	
Thallium, Total	< 0.001	mg/L	SM 3113B-04	10/23/14		W CM	A	
Vanadium, Total	< 0.020	mg/L	EPA 200.7	10/14/14		W RGT	A	
Zinc, Total	< 0.020	mg/L	EPA 200.7	10/14/14		W RGT	A	

002 Site: SW-2 Date Sampled: 10/9/14 Time: 9:15

Parameter	Result	Units	Method	Analysis Date		Lab/Tech	NELAC	Qual.
BOD-5day	< 2.5	mg/L	SM 5210B(01)	10/9/14	16:16	W JSS	A	
Chloride	10	mg/L	SM 4500-Cl-E	10/14/14		N JGM	A	
COD	23	mg/L	Hach8000/EPA410.4	10/14/14		N JGM	A	
Hardness, Total as CaCO3	102	mg/L	EPA 200.7	10/16/14		W RGT	A	
Antimony, Total	< 0.002	mg/L	SM 3113B-04	10/14/14		W CM	A	
Arsenic, Total	0.001	mg/L	SM 3113B-04	10/14/14		W CM	A	
Barium, Total	< 0.020	mg/L	EPA 200.7	10/14/14		W RGT	A	
Beryllium, Total	< 0.001	mg/L	EPA 200.7	10/14/14		W RGT	A	
Cadmium, Total	< 0.002	mg/L	EPA 200.7	10/14/14		W RGT	A	
Calcium, Total	31	mg/L	EPA 200.7	10/14/14		W RGT	A	
Chromium, Total	< 0.005	mg/L	EPA 200.7	10/14/14		W RGT	A	
Cobalt, Total	< 0.020	mg/L	EPA 200.7	10/14/14		W RGT	A	
Copper, Total	< 0.020	mg/L	EPA 200.7	10/14/14		W RGT	A	
Iron, Total	0.69	mg/L	EPA 200.7	10/14/14		W RGT	A	
Lead, Total	< 0.001	mg/L	SM 3113B-04	10/17/14		W CM	A	

CLIENT: WaiteHeindel Environmental Mgt
PROJECT: NEWSVT LF Surface Water
REPORT DATE: 10/24/2014

WORK ORDER: **1410-21183**
DATE RECEIVED: 10/09/2014

002 Site: SW-2 Date Sampled: 10/9/14 Time: 9:15

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Magnesium, Total	6.0	mg/L	EPA 200.7	10/16/14	W RGT	A	
Manganese, Total	0.11	mg/L	EPA 200.7	10/14/14	W RGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	10/14/14	W EER	A	
Molybdenum, Total	< 0.020	mg/L	EPA 200.7	10/14/14	W RGT	A	
Nickel, Total	< 0.005	mg/L	EPA 200.7	10/14/14	W RGT	A	
Selenium, Total	< 0.002	mg/L	SM20 3113B	10/14/14	W CM	A	
Sodium, Total	5.9	mg/L	EPA 200.7	10/16/14	W RGT	A	
Thallium, Total	< 0.001	mg/L	SM 3113B-04	10/23/14	W CM	A	
Vanadium, Total	< 0.020	mg/L	EPA 200.7	10/14/14	W RGT	A	
Zinc, Total	< 0.020	mg/L	EPA 200.7	10/14/14	W RGT	A	

003 Site: SW-3 Date Sampled: 10/9/14 Time: 16:45

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
BOD-5day	< 2.5	mg/L	SM 5210B(01)	10/9/14 16:18	W JSS	A	
Chloride	27	mg/L	SM 4500-Cl-E	10/14/14	N JGM	A	
COD	19	mg/L	Hach8000/EPA410.4	10/14/14	N JGM	A	
Hardness, Total as CaCO3	228	mg/L	EPA 200.7	10/16/14	W RGT	A	
Antimony, Total	< 0.002	mg/L	SM 3113B-04	10/14/14	W CM	A	
Arsenic, Total	0.001	mg/L	SM 3113B-04	10/14/14	W CM	A	
Barium, Total	0.026	mg/L	EPA 200.7	10/14/14	W RGT	A	
Beryllium, Total	< 0.001	mg/L	EPA 200.7	10/14/14	W RGT	A	
Cadmium, Total	< 0.002	mg/L	EPA 200.7	10/14/14	W RGT	A	
Calcium, Total	65	mg/L	EPA 200.7	10/14/14	W RGT	A	
Chromium, Total	< 0.005	mg/L	EPA 200.7	10/14/14	W RGT	A	
Cobalt, Total	< 0.020	mg/L	EPA 200.7	10/14/14	W RGT	A	
Copper, Total	< 0.020	mg/L	EPA 200.7	10/14/14	W RGT	A	
Iron, Total	0.47	mg/L	EPA 200.7	10/14/14	W RGT	A	
Lead, Total	< 0.001	mg/L	SM 3113B-04	10/17/14	W CM	A	
Magnesium, Total	16	mg/L	EPA 200.7	10/16/14	W RGT	A	
Manganese, Total	0.045	mg/L	EPA 200.7	10/14/14	W RGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	10/14/14	W EER	A	
Molybdenum, Total	< 0.020	mg/L	EPA 200.7	10/14/14	W RGT	A	
Nickel, Total	< 0.005	mg/L	EPA 200.7	10/14/14	W RGT	A	
Selenium, Total	< 0.002	mg/L	SM20 3113B	10/14/14	W CM	A	
Sodium, Total	13	mg/L	EPA 200.7	10/16/14	W RGT	A	
Thallium, Total	< 0.001	mg/L	SM 3113B-04	10/23/14	W CM	A	
Vanadium, Total	< 0.020	mg/L	EPA 200.7	10/14/14	W RGT	A	
Zinc, Total	< 0.020	mg/L	EPA 200.7	10/14/14	W RGT	A	

004 Site: SW-4 Date Sampled: 10/9/14 Time: 16:30

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
BOD-5day	< 2.5	mg/L	SM 5210B(01)	10/9/14 16:20	W JSS	A	
Chloride	60	mg/L	SM 4500-Cl-E	10/14/14	N JGM	A	

CLIENT: WaiteHeindel Environmental Mgt
PROJECT: NEWSVT LF Surface Water
REPORT DATE: 10/24/2014

WORK ORDER: **1410-21183**
DATE RECEIVED: 10/09/2014

004 Site: SW-4 Date Sampled: 10/9/14 Time: 16:30

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
COD	29	mg/L	Hach8000/EPA410.4	10/14/14	N JGM	A	
Hardness, Total as CaCO3	256	mg/L	EPA 200.7	10/16/14	W RGT	A	
Antimony, Total	< 0.002	mg/L	SM 3113B-04	10/21/14	W CM	A	LFB-
Arsenic, Total	< 0.001	mg/L	SM 3113B-04	10/14/14	W CM	A	
Barium, Total	< 0.020	mg/L	EPA 200.7	10/14/14	W RGT	A	
Beryllium, Total	< 0.001	mg/L	EPA 200.7	10/14/14	W RGT	A	
Cadmium, Total	< 0.002	mg/L	EPA 200.7	10/14/14	W RGT	A	
Calcium, Total	73	mg/L	EPA 200.7	10/14/14	W RGT	A	
Chromium, Total	< 0.005	mg/L	EPA 200.7	10/14/14	W RGT	A	
Cobalt, Total	< 0.020	mg/L	EPA 200.7	10/14/14	W RGT	A	
Copper, Total	< 0.020	mg/L	EPA 200.7	10/14/14	W RGT	A	
Iron, Total	0.67	mg/L	EPA 200.7	10/14/14	W RGT	A	
Lead, Total	< 0.001	mg/L	SM 3113B-04	10/17/14	W CM	A	
Magnesium, Total	18	mg/L	EPA 200.7	10/16/14	W RGT	A	
Manganese, Total	0.19	mg/L	EPA 200.7	10/14/14	W RGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	10/14/14	W EER	A	
Molybdenum, Total	< 0.020	mg/L	EPA 200.7	10/14/14	W RGT	A	
Nickel, Total	< 0.005	mg/L	EPA 200.7	10/14/14	W RGT	A	
Selenium, Total	< 0.002	mg/L	SM20 3113B	10/14/14	W CM	A	
Sodium, Total	28	mg/L	EPA 200.7	10/16/14	W RGT	A	
Thallium, Total	< 0.001	mg/L	SM 3113B-04	10/23/14	W CM	A	M-
Vanadium, Total	< 0.020	mg/L	EPA 200.7	10/14/14	W RGT	A	
Zinc, Total	< 0.020	mg/L	EPA 200.7	10/14/14	W RGT	A	

005 Site: SW-5 Date Sampled: 10/9/14 Time: 14:20

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
BOD-5day	3.2	mg/L	SM 5210B(01)	10/9/14 16:23	W JSS	A	
Chloride	84	mg/L	SM 4500-Cl-E	10/14/14	N JGM	A	
COD	38	mg/L	Hach8000/EPA410.4	10/14/14	N JGM	A	
Hardness, Total as CaCO3	261	mg/L	EPA 200.7	10/15/14	W RGT	A	
Antimony, Total	< 0.002	mg/L	SM 3113B-04	10/21/14	W CM	A	AN1
Arsenic, Total	0.002	mg/L	SM 3113B-04	10/16/14	W CM	A	
Barium, Total	< 0.020	mg/L	EPA 200.7	10/15/14	W RGT	A	
Beryllium, Total	< 0.001	mg/L	EPA 200.7	10/15/14	W RGT	A	
Cadmium, Total	< 0.002	mg/L	EPA 200.7	10/15/14	W RGT	A	
Calcium, Total	78	mg/L	EPA 200.7	10/15/14	W RGT	A	
Chromium, Total	< 0.005	mg/L	EPA 200.7	10/15/14	W RGT	A	
Cobalt, Total	< 0.020	mg/L	EPA 200.7	10/15/14	W RGT	A	
Copper, Total	< 0.020	mg/L	EPA 200.7	10/15/14	W RGT	A	
Iron, Total	0.76	mg/L	EPA 200.7	10/15/14	W RGT	A	
Lead, Total	< 0.001	mg/L	SM 3113B-04	10/17/14	W CM	A	
Magnesium, Total	16	mg/L	EPA 200.7	10/15/14	W RGT	A	
Manganese, Total	0.96	mg/L	EPA 200.7	10/15/14	W RGT	A	

CLIENT: WaiteHeindel Environmental Mgt
PROJECT: NEWSVT LF Surface Water
REPORT DATE: 10/24/2014

WORK ORDER: **1410-21183**
DATE RECEIVED: 10/09/2014

005 Site: SW-5 Date Sampled: 10/9/14 Time: 14:20

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Mercury, Total	< 0.0002	mg/L	EPA 245.1	10/14/14	W EER	A	
Molybdenum, Total	< 0.020	mg/L	EPA 200.7	10/15/14	W RGT	A	
Nickel, Total	< 0.005	mg/L	EPA 200.7	10/15/14	W RGT	A	
Selenium, Total	< 0.002	mg/L	SM20 3113B	10/15/14	W CM	A	
Sodium, Total	76	mg/L	EPA 200.7	10/15/14	W RGT	A	
Thallium, Total	< 0.001	mg/L	SM 3113B-04	10/23/14	W CM	A	
Vanadium, Total	< 0.020	mg/L	EPA 200.7	10/15/14	W RGT	A	
Zinc, Total	< 0.020	mg/L	EPA 200.7	10/15/14	W RGT	A	

006 Site: SW-6 NO SAMPLE Date Sampled: 10/9/14 Time:

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
No analysis							

007 Site: SW-7 Date Sampled: 10/9/14 Time: 16:11

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
BOD-5day	< 2.5	mg/L	SM 5210B(01)	10/9/14 16:28	W JSS	A	
Chloride	9.8	mg/L	SM 4500-Cl-E	10/14/14	N JGM	A	
COD	13	mg/L	Hach8000/EPA410.4	10/14/14	N JGM	A	
Hardness, Total as CaCO3	235	mg/L	EPA 200.7	10/15/14	W RGT	A	
Antimony, Total	< 0.002	mg/L	SM 3113B-04	10/21/14	W CM	A	LFB-
Arsenic, Total	0.007	mg/L	SM 3113B-04	10/16/14	W CM	A	
Barium, Total	0.038	mg/L	EPA 200.7	10/15/14	W RGT	A	
Beryllium, Total	< 0.001	mg/L	EPA 200.7	10/15/14	W RGT	A	
Cadmium, Total	< 0.002	mg/L	EPA 200.7	10/15/14	W RGT	A	
Calcium, Total	66	mg/L	EPA 200.7	10/15/14	W RGT	A	
Chromium, Total	< 0.005	mg/L	EPA 200.7	10/15/14	W RGT	A	
Cobalt, Total	< 0.020	mg/L	EPA 200.7	10/15/14	W RGT	A	
Copper, Total	< 0.020	mg/L	EPA 200.7	10/15/14	W RGT	A	
Iron, Total	0.46	mg/L	EPA 200.7	10/15/14	W RGT	A	
Lead, Total	< 0.001	mg/L	SM 3113B-04	10/17/14	W CM	A	
Magnesium, Total	17	mg/L	EPA 200.7	10/15/14	W RGT	A	
Manganese, Total	0.11	mg/L	EPA 200.7	10/15/14	W RGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	10/14/14	W EER	A	
Molybdenum, Total	< 0.020	mg/L	EPA 200.7	10/15/14	W RGT	A	
Nickel, Total	< 0.005	mg/L	EPA 200.7	10/15/14	W RGT	A	
Selenium, Total	< 0.002	mg/L	SM20 3113B	10/15/14	W CM	A	
Sodium, Total	5.4	mg/L	EPA 200.7	10/15/14	W RGT	A	
Thallium, Total	< 0.001	mg/L	SM 3113B-04	10/23/14	W CM	A	
Vanadium, Total	< 0.020	mg/L	EPA 200.7	10/15/14	W RGT	A	
Zinc, Total	< 0.020	mg/L	EPA 200.7	10/15/14	W RGT	A	

008 Site: SW-8 Date Sampled: 10/9/14 Time: 15:20

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
BOD-5day	7.0	mg/L	SM 5210B(01)	10/9/14 16:33	W JSS	A	

CLIENT: WaiteHeindel Environmental Mgt
PROJECT: NEWSVT LF Surface Water
REPORT DATE: 10/24/2014

WORK ORDER: **1410-21183**
DATE RECEIVED: 10/09/2014

008 Site: SW-8 Date Sampled: 10/9/14 Time: 15:20

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Chloride	18	mg/L	SM 4500-Cl-E	10/14/14	N JGM	A	M-
COD	48	mg/L	Hach8000/EPA410.4	10/14/14	N JGM	A	
Hardness, Total as CaCO3	311	mg/L	EPA 200.7	10/15/14	W RGT	A	
Antimony, Total	< 0.002	mg/L	SM 3113B-04	10/21/14	W CM	A	LFB-
Arsenic, Total	0.002	mg/L	SM 3113B-04	10/16/14	W CM	A	
Barium, Total	0.026	mg/L	EPA 200.7	10/15/14	W RGT	A	
Beryllium, Total	< 0.001	mg/L	EPA 200.7	10/15/14	W RGT	A	
Cadmium, Total	< 0.002	mg/L	EPA 200.7	10/15/14	W RGT	A	
Calcium, Total	90	mg/L	EPA 200.7	10/15/14	W RGT	A	
Chromium, Total	< 0.005	mg/L	EPA 200.7	10/15/14	W RGT	A	
Cobalt, Total	< 0.020	mg/L	EPA 200.7	10/15/14	W RGT	A	
Copper, Total	< 0.020	mg/L	EPA 200.7	10/15/14	W RGT	A	
Iron, Total	1.5	mg/L	EPA 200.7	10/15/14	W RGT	A	
Lead, Total	< 0.001	mg/L	SM 3113B-04	10/17/14	W CM	A	
Magnesium, Total	21	mg/L	EPA 200.7	10/15/14	W RGT	A	
Manganese, Total	2.0	mg/L	EPA 200.7	10/15/14	W RGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	10/14/14	W EER	A	
Molybdenum, Total	< 0.020	mg/L	EPA 200.7	10/15/14	W RGT	A	
Nickel, Total	0.005	mg/L	EPA 200.7	10/15/14	W RGT	A	
Selenium, Total	< 0.002	mg/L	SM20 3113B	10/15/14	W CM	A	
Sodium, Total	12	mg/L	EPA 200.7	10/15/14	W RGT	A	
Thallium, Total	< 0.001	mg/L	SM 3113B-04	10/23/14	W CM	A	
Vanadium, Total	< 0.020	mg/L	EPA 200.7	10/15/14	W RGT	A	
Zinc, Total	< 0.020	mg/L	EPA 200.7	10/15/14	W RGT	A	

CLIENT: WaiteHeindel Environmental Mgt
PROJECT: NEWSVT LF Surface Water
REPORT DATE: 10/24/2014

WORK ORDER: **1410-21183**
DATE RECEIVED: 10/09/2014

TEST METHOD: EPA 8270D

001 Site: SW-1 Sampled: 10/9/14 8:15 Test Date: 10/14/14 W FAA

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Extraction EPA 3510C	Extracted		A		N-Nitrosodimethylamine	< 10.0	ug/L	A	
Pyridine	< 10.0	ug/L	A		Aniline	< 10.0	ug/L	N	
Bis(2-chloroethyl)ether	< 5.0	ug/L	A		1,2-Dichlorobenzene	< 2.0	ug/L	A	
1,3-Dichlorobenzene	< 2.0	ug/L	A		1,4-Dichlorobenzene	< 2.0	ug/L	A	
Benzyl alcohol	< 20.0	ug/L	N		Bis(2-chloroisopropyl)ether	< 10.0	ug/L	A	
N-Nitrosodi-n-propylamine	< 10.0	ug/L	A		Hexachloroethane	< 5.0	ug/L	A	
Nitrobenzene	< 5.0	ug/L	A		N-Nitrosopiperidine	< 10.0	ug/L	N	
Isophorone	< 2.0	ug/L	A		Bis(2-chloroethoxy)methane	< 5.0	ug/L	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	A		Naphthalene	< 1.0	ug/L	A	
4-Chloroaniline	< 5.0	ug/L	N		Hexachlorobutadiene	< 5.0	ug/L	A	
N-Nitrosodi-n-butylamine	< 5.0	ug/L	N		2-Methylnaphthalene	< 1.0	ug/L	A	
1-Methylnaphthalene	< 1.0	ug/L	U		Hexachlorocyclopentadiene	< 20.0	ug/L	A	
2-Chloronaphthalene	< 2.0	ug/L	A		1-Chloronaphthalene	< 2.0	ug/L	N	
2-Nitroaniline	< 20.0	ug/L	N		Dimethyl phthalate	< 5.0	ug/L	A	
2,6-Dinitrotoluene	< 5.0	ug/L	A		Acenaphthylene	< 1.0	ug/L	A	
3-Nitroaniline	< 5.0	ug/L	N		Acenaphthene	< 1.0	ug/L	A	
Dibenzofuran	< 2.0	ug/L	N		2,4-Dinitrotoluene	< 5.0	ug/L	A	
1-Naphthylamine	< 10.0	ug/L	N		2-Naphthylamine	< 10.0	ug/L	N	
Fluorene	< 1.0	ug/L	A		Diethyl phthalate	< 5.0	ug/L	A	
4-Chlorophenyl phenyl ether	< 2.0	ug/L	A		4-Nitroaniline	< 20.0	ug/L	N	
N-Nitrosodiphenylamine	< 5.0	ug/L	A		Azobenzene	< 5.0	ug/L	U	
4-Bromophenyl phenyl ether	< 2.0	ug/L	A		Hexachlorobenzene	< 5.0	ug/L	A	
Phenanthrene	< 1.0	ug/L	A		Anthracene	< 1.0	ug/L	A	
Carbazole	< 5.0	ug/L	N		Di-n-butylphthalate	< 10.0	ug/L	A	
Fluoranthene	< 1.0	ug/L	A		Benzidine	< 10.0	ug/L	A	
Pyrene	< 1.0	ug/L	A		Butyl benzyl phthalate	< 5.0	ug/L	A	
Benzo(a)anthracene	< 1.0	ug/L	A		Chrysene	< 1.0	ug/L	A	
3,3'-Dichlorobenzidine	< 5.0	ug/L	A		Bis(2-ethylhexyl)phthalate	< 5.0	ug/L	A	
Di-n-octylphthalate	< 5.0	ug/L	N		Benzo(b)fluoranthene	< 1.0	ug/L	A	
Benzo(k)fluoranthene	< 1.0	ug/L	A		Benzo(a)pyrene	< 1.0	ug/L	A	
Indeno(1,2,3-cd)pyrene	< 1.0	ug/L	A		Dibenzo(a,h)anthracene	< 1.0	ug/L	A	
Benzo(g,h,i)perylene	< 1.0	ug/L	A		Phenol	< 5.0	ug/L	A	
2-Chlorophenol	< 5.0	ug/L	A		2-Methylphenol (o-cresol)	< 5.0	ug/L	A	
3&4-Methylphenol (m&p-cresol)	< 5.0	ug/L	A		Cresols, Total	< 10.0	ug/L	A	
2-Nitrophenol	< 10.0	ug/L	A		2,4-Dimethylphenol	< 5.0	ug/L	A	
2,4-Dichlorophenol	< 5.0	ug/L	A		2,6-Dichlorophenol	< 5.0	ug/L	N	
4-Chloro-3-methylphenol	< 10.0	ug/L	A		2,4,5-Trichlorophenol	< 10.0	ug/L	A	
2,4,6-Trichlorophenol	< 10.0	ug/L	A		2,4-Dinitrophenol	< 20.0	ug/L	A	
4-Nitrophenol	< 10.0	ug/L	A		4,6-Dinitro-2-methylphenol	< 20.0	ug/L	A	
Pentachlorophenol	< 10.0	ug/L	A		BaP Toxic Equiv. Quotient	< 2.3	ug/L	U	
B/N Surr.1 Nitrobenzene-d5	60	%	N		B/N Surr.2 2-Fluorobiphenyl	74	%	N	
B/N Surr.3 Terphenyl-d14	92	%	N		Acid Surr.1 2-Fluorophenol	24	%	N	
Acid Surr.2 Phenol-d8	21	%	N		Acid Surr.3 Tribromophenol	83	%	N	
Unidentified Peaks	0		U						

CLIENT: WaiteHeindel Environmental Mgt
PROJECT: NEWSVT LF Surface Water
REPORT DATE: 10/24/2014

WORK ORDER: **1410-21183**
DATE RECEIVED: 10/09/2014

TEST METHOD: EPA 8260C

001 Site: SW-1 Sampled: 10/9/14 8:15 Test Date: 10/13/14 W MHM

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Dichlorodifluoromethane	< 5.0	ug/L	A		Chloromethane	< 3.0	ug/L	N	
Vinyl chloride	< 2.0	ug/L	A		Bromomethane	< 5.0	ug/L	A	
Chloroethane	< 5.0	ug/L	A		Trichlorofluoromethane	< 2.0	ug/L	A	
Diethyl ether	< 5.0	ug/L	N		1,1-Dichloroethene	< 1.0	ug/L	A	
Acetone	< 10.0	ug/L	A		Carbon disulfide	< 5.0	ug/L	A	
Methylene chloride	< 5.0	ug/L	A		t-Butanol	< 20.0	ug/L	N	
Methyl-t-butyl ether (MTBE)	< 2.0	ug/L	A		trans-1,2-Dichloroethene	< 1.0	ug/L	A	
Di-isopropyl ether (DIPE)	< 2.0	ug/L	N		1,1-Dichloroethane	< 1.0	ug/L	A	
Ethyl-t-butyl ether (ETBE)	< 2.0	ug/L	N		2-Butanone	< 10.0	ug/L	A	
2,2-Dichloropropane	< 2.0	ug/L	N		cis-1,2-Dichloroethene	< 1.0	ug/L	N	
Bromochloromethane	< 2.0	ug/L	N		Chloroform	< 1.0	ug/L	A	
Tetrahydrofuran	< 10.0	ug/L	U		1,1,1-Trichloroethane	< 1.0	ug/L	A	
Carbon tetrachloride	< 1.0	ug/L	A		1,1-Dichloropropene	< 1.0	ug/L	N	
Benzene	< 1.0	ug/L	A		t-Amylmethyl ether (TAME)	< 2.0	ug/L	N	
1,2-Dichloroethane	< 1.0	ug/L	A		Trichloroethene	< 1.0	ug/L	A	
1,2-Dichloropropane	< 2.0	ug/L	A		Dibromomethane	< 2.0	ug/L	N	
Bromodichloromethane	< 0.5	ug/L	A		cis-1,3-Dichloropropene	< 1.0	ug/L	A	
4-Methyl-2-pentanone (MIBK)	< 10.0	ug/L	N		Toluene	< 1.0	ug/L	A	
trans-1,3-Dichloropropene	< 1.0	ug/L	A		1,1,2-Trichloroethane	< 1.0	ug/L	A	
Tetrachloroethene	< 1.0	ug/L	A		1,3-Dichloropropane	< 1.0	ug/L	N	
2-Hexanone	< 10.0	ug/L	N		Dibromochloromethane	< 2.0	ug/L	A	
1,2-Dibromoethane	< 1.0	ug/L	A		Chlorobenzene	< 1.0	ug/L	A	
Ethylbenzene	< 1.0	ug/L	A		1,1,1,2-Tetrachloroethane	< 2.0	ug/L	A	
Xylenes, Total	< 2.0	ug/L	A		Styrene	< 1.0	ug/L	N	
Bromoform	< 2.0	ug/L	A		Isopropylbenzene	< 1.0	ug/L	A	
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	A		Bromobenzene	< 1.0	ug/L	N	
n-Propylbenzene	< 1.0	ug/L	A		1,2,3-Trichloropropane	< 2.0	ug/L	N	
2-Chlorotoluene	< 1.0	ug/L	N		1,3,5-Trimethylbenzene	< 1.0	ug/L	A	
4-Chlorotoluene	< 1.0	ug/L	N		t-Butylbenzene	< 1.0	ug/L	A	
1,2,4-Trimethylbenzene	< 1.0	ug/L	A		s-Butylbenzene	< 1.0	ug/L	N	
4-Isopropyltoluene	< 1.0	ug/L	A		1,3-Dichlorobenzene	< 1.0	ug/L	A	
1,4-Dichlorobenzene	< 1.0	ug/L	A		n-Butylbenzene	< 1.0	ug/L	A	
1,2-Dichlorobenzene	< 1.0	ug/L	A		1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	A		1,3,5-Trichlorobenzene	< 2.0	ug/L	N	
Hexachlorobutadiene	< 0.5	ug/L	N		Naphthalene	< 2.0	ug/L	A	
1,2,3-Trichlorobenzene	< 2.0	ug/L	N		Surr. 1 (Dibromofluoromethane)	106	%	N	
Surr. 3 (4-Bromofluorobenzene)	104	%	N		Surr. 2 (Toluene d8)	106	%	N	
Unidentified Peaks	0		U						

CLIENT: WaiteHeindel Environmental Mgt
PROJECT: NEWSVT LF Surface Water
REPORT DATE: 10/24/2014

WORK ORDER: **1410-21183**
DATE RECEIVED: 10/09/2014

TEST METHOD: EPA 8270D

002 Site: SW-2 Sampled: 10/9/14 9:15 Test Date: 10/14/14 W FAA

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Extraction EPA 3510C	Extracted		A		N-Nitrosodimethylamine	< 10.0	ug/L	A	
Pyridine	< 10.0	ug/L	A		Aniline	< 10.0	ug/L	N	
Bis(2-chloroethyl)ether	< 5.0	ug/L	A		1,2-Dichlorobenzene	< 2.0	ug/L	A	
1,3-Dichlorobenzene	< 2.0	ug/L	A		1,4-Dichlorobenzene	< 2.0	ug/L	A	
Benzyl alcohol	< 20.0	ug/L	N		Bis(2-chloroisopropyl)ether	< 10.0	ug/L	A	
N-Nitrosodi-n-propylamine	< 10.0	ug/L	A		Hexachloroethane	< 5.0	ug/L	A	
Nitrobenzene	< 5.0	ug/L	A		N-Nitrosopiperidine	< 10.0	ug/L	N	
Isophorone	< 2.0	ug/L	A		Bis(2-chloroethoxy)methane	< 5.0	ug/L	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	A		Naphthalene	< 1.0	ug/L	A	
4-Chloroaniline	< 5.0	ug/L	N		Hexachlorobutadiene	< 5.0	ug/L	A	
N-Nitrosodi-n-butylamine	< 5.0	ug/L	N		2-Methylnaphthalene	< 1.0	ug/L	A	
1-Methylnaphthalene	< 1.0	ug/L	U		Hexachlorocyclopentadiene	< 20.0	ug/L	A	
2-Chloronaphthalene	< 2.0	ug/L	A		1-Chloronaphthalene	< 2.0	ug/L	N	
2-Nitroaniline	< 20.0	ug/L	N		Dimethyl phthalate	< 5.0	ug/L	A	
2,6-Dinitrotoluene	< 5.0	ug/L	A		Acenaphthylene	< 1.0	ug/L	A	
3-Nitroaniline	< 5.0	ug/L	N		Acenaphthene	< 1.0	ug/L	A	
Dibenzofuran	< 2.0	ug/L	N		2,4-Dinitrotoluene	< 5.0	ug/L	A	
1-Naphthylamine	< 10.0	ug/L	N		2-Naphthylamine	< 10.0	ug/L	N	
Fluorene	< 1.0	ug/L	A		Diethyl phthalate	< 5.0	ug/L	A	
4-Chlorophenyl phenyl ether	< 2.0	ug/L	A		4-Nitroaniline	< 20.0	ug/L	N	
N-Nitrosodiphenylamine	< 5.0	ug/L	A		Azobenzene	< 5.0	ug/L	U	
4-Bromophenyl phenyl ether	< 2.0	ug/L	A		Hexachlorobenzene	< 5.0	ug/L	A	
Phenanthrene	< 1.0	ug/L	A		Anthracene	< 1.0	ug/L	A	
Carbazole	< 5.0	ug/L	N		Di-n-butylphthalate	< 10.0	ug/L	A	
Fluoranthene	< 1.0	ug/L	A		Benzidine	< 10.0	ug/L	A	
Pyrene	< 1.0	ug/L	A		Butyl benzyl phthalate	< 5.0	ug/L	A	
Benzo(a)anthracene	< 1.0	ug/L	A		Chrysene	< 1.0	ug/L	A	
3,3'-Dichlorobenzidine	< 5.0	ug/L	A		Bis(2-ethylhexyl)phthalate	< 5.0	ug/L	A	
Di-n-octylphthalate	< 5.0	ug/L	N		Benzo(b)fluoranthene	< 1.0	ug/L	A	
Benzo(k)fluoranthene	< 1.0	ug/L	A		Benzo(a)pyrene	< 1.0	ug/L	A	
Indeno(1,2,3-cd)pyrene	< 1.0	ug/L	A		Dibenzo(a,h)anthracene	< 1.0	ug/L	A	
Benzo(g,h,i)perylene	< 1.0	ug/L	A		Phenol	< 5.0	ug/L	A	
2-Chlorophenol	< 5.0	ug/L	A		2-Methylphenol (o-cresol)	< 5.0	ug/L	A	
3&4-Methylphenol (m&p-cresol)	< 5.0	ug/L	A		Cresols, Total	< 10.0	ug/L	A	
2-Nitrophenol	< 10.0	ug/L	A		2,4-Dimethylphenol	< 5.0	ug/L	A	
2,4-Dichlorophenol	< 5.0	ug/L	A		2,6-Dichlorophenol	< 5.0	ug/L	N	
4-Chloro-3-methylphenol	< 10.0	ug/L	A		2,4,5-Trichlorophenol	< 10.0	ug/L	A	
2,4,6-Trichlorophenol	< 10.0	ug/L	A		2,4-Dinitrophenol	< 20.0	ug/L	A	
4-Nitrophenol	< 10.0	ug/L	A		4,6-Dinitro-2-methylphenol	< 20.0	ug/L	A	
Pentachlorophenol	< 10.0	ug/L	A		BaP Toxic Equiv. Quotient	< 2.3	ug/L	U	
B/N Surr.1 Nitrobenzene-d5	68	%	N		B/N Surr.2 2-Fluorobiphenyl	71	%	N	
B/N Surr.3 Terphenyl-d14	91	%	N		Acid Surr.1 2-Fluorophenol	28	%	N	
Acid Surr.2 Phenol-d8	22	%	N		Acid Surr.3 Tribromophenol	84	%	N	
Unidentified Peaks	0		U						

CLIENT: WaiteHeindel Environmental Mgt
PROJECT: NEWSVT LF Surface Water
REPORT DATE: 10/24/2014

WORK ORDER: **1410-21183**
DATE RECEIVED: 10/09/2014

TEST METHOD: EPA 8260C

002 Site: SW-2 Sampled: 10/9/14 9:15 Test Date: 10/13/14 W MHM

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Dichlorodifluoromethane	< 5.0	ug/L	A		Chloromethane	< 3.0	ug/L	N	
Vinyl chloride	< 2.0	ug/L	A		Bromomethane	< 5.0	ug/L	A	
Chloroethane	< 5.0	ug/L	A		Trichlorofluoromethane	< 2.0	ug/L	A	
Diethyl ether	< 5.0	ug/L	N		1,1-Dichloroethene	< 1.0	ug/L	A	
Acetone	< 10.0	ug/L	A		Carbon disulfide	< 5.0	ug/L	A	
Methylene chloride	< 5.0	ug/L	A		t-Butanol	< 20.0	ug/L	N	
Methyl-t-butyl ether (MTBE)	< 2.0	ug/L	A		trans-1,2-Dichloroethene	< 1.0	ug/L	A	
Di-isopropyl ether (DIPE)	< 2.0	ug/L	N		1,1-Dichloroethane	< 1.0	ug/L	A	
Ethyl-t-butyl ether (ETBE)	< 2.0	ug/L	N		2-Butanone	< 10.0	ug/L	A	
2,2-Dichloropropane	< 2.0	ug/L	N		cis-1,2-Dichloroethene	< 1.0	ug/L	N	
Bromochloromethane	< 2.0	ug/L	N		Chloroform	< 1.0	ug/L	A	
Tetrahydrofuran	< 10.0	ug/L	U		1,1,1-Trichloroethane	< 1.0	ug/L	A	
Carbon tetrachloride	< 1.0	ug/L	A		1,1-Dichloropropene	< 1.0	ug/L	N	
Benzene	< 1.0	ug/L	A		t-Amylmethyl ether (TAME)	< 2.0	ug/L	N	
1,2-Dichloroethane	< 1.0	ug/L	A		Trichloroethene	< 1.0	ug/L	A	
1,2-Dichloropropane	< 2.0	ug/L	A		Dibromomethane	< 2.0	ug/L	N	
Bromodichloromethane	< 0.5	ug/L	A		cis-1,3-Dichloropropene	< 1.0	ug/L	A	
4-Methyl-2-pentanone (MIBK)	< 10.0	ug/L	N		Toluene	< 1.0	ug/L	A	
trans-1,3-Dichloropropene	< 1.0	ug/L	A		1,1,2-Trichloroethane	< 1.0	ug/L	A	
Tetrachloroethene	< 1.0	ug/L	A		1,3-Dichloropropane	< 1.0	ug/L	N	
2-Hexanone	< 10.0	ug/L	N		Dibromochloromethane	< 2.0	ug/L	A	
1,2-Dibromoethane	< 1.0	ug/L	A		Chlorobenzene	< 1.0	ug/L	A	
Ethylbenzene	< 1.0	ug/L	A		1,1,1,2-Tetrachloroethane	< 2.0	ug/L	A	
Xylenes, Total	< 2.0	ug/L	A		Styrene	< 1.0	ug/L	N	
Bromoform	< 2.0	ug/L	A		Isopropylbenzene	< 1.0	ug/L	A	
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	A		Bromobenzene	< 1.0	ug/L	N	
n-Propylbenzene	< 1.0	ug/L	A		1,2,3-Trichloropropane	< 2.0	ug/L	N	
2-Chlorotoluene	< 1.0	ug/L	N		1,3,5-Trimethylbenzene	< 1.0	ug/L	A	
4-Chlorotoluene	< 1.0	ug/L	N		t-Butylbenzene	< 1.0	ug/L	A	
1,2,4-Trimethylbenzene	< 1.0	ug/L	A		s-Butylbenzene	< 1.0	ug/L	N	
4-Isopropyltoluene	< 1.0	ug/L	A		1,3-Dichlorobenzene	< 1.0	ug/L	A	
1,4-Dichlorobenzene	< 1.0	ug/L	A		n-Butylbenzene	< 1.0	ug/L	A	
1,2-Dichlorobenzene	< 1.0	ug/L	A		1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	A		1,3,5-Trichlorobenzene	< 2.0	ug/L	N	
Hexachlorobutadiene	< 0.5	ug/L	N		Naphthalene	< 2.0	ug/L	A	
1,2,3-Trichlorobenzene	< 2.0	ug/L	N		Surr. 1 (Dibromofluoromethane)	106	%	N	
Surr. 2 (Toluene d8)	106	%	N		Surr. 3 (4-Bromofluorobenzene)	102	%	N	
Unidentified Peaks	0		U						

CLIENT: WaiteHeindel Environmental Mgt
PROJECT: NEWSVT LF Surface Water
REPORT DATE: 10/24/2014

WORK ORDER: **1410-21183**
DATE RECEIVED: 10/09/2014

TEST METHOD: EPA 8270D

003 Site: SW-3 Sampled: 10/9/14 16:45 Test Date: 10/14/14 W FAA

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Extraction EPA 3510C	Extracted		A		N-Nitrosodimethylamine	< 10.0	ug/L	A	
Pyridine	< 10.0	ug/L	A		Aniline	< 10.0	ug/L	N	
Bis(2-chloroethyl)ether	< 5.0	ug/L	A		1,2-Dichlorobenzene	< 2.0	ug/L	A	
1,3-Dichlorobenzene	< 2.0	ug/L	A		1,4-Dichlorobenzene	< 2.0	ug/L	A	
Benzyl alcohol	< 20.0	ug/L	N		Bis(2-chloroisopropyl)ether	< 10.0	ug/L	A	
N-Nitrosodi-n-propylamine	< 10.0	ug/L	A		Hexachloroethane	< 5.0	ug/L	A	
Nitrobenzene	< 5.0	ug/L	A		N-Nitrosopiperidine	< 10.0	ug/L	N	
Isophorone	< 2.0	ug/L	A		Bis(2-chloroethoxy)methane	< 5.0	ug/L	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	A		Naphthalene	< 1.0	ug/L	A	
4-Chloroaniline	< 5.0	ug/L	N		Hexachlorobutadiene	< 5.0	ug/L	A	
N-Nitrosodi-n-butylamine	< 5.0	ug/L	N		2-Methylnaphthalene	< 1.0	ug/L	A	
1-Methylnaphthalene	< 1.0	ug/L	U		Hexachlorocyclopentadiene	< 20.0	ug/L	A	
2-Chloronaphthalene	< 2.0	ug/L	A		1-Chloronaphthalene	< 2.0	ug/L	N	
2-Nitroaniline	< 20.0	ug/L	N		Dimethyl phthalate	< 5.0	ug/L	A	
2,6-Dinitrotoluene	< 5.0	ug/L	A		Acenaphthylene	< 1.0	ug/L	A	
3-Nitroaniline	< 5.0	ug/L	N		Acenaphthene	< 1.0	ug/L	A	
Dibenzofuran	< 2.0	ug/L	N		2,4-Dinitrotoluene	< 5.0	ug/L	A	
1-Naphthylamine	< 10.0	ug/L	N		2-Naphthylamine	< 10.0	ug/L	N	
Fluorene	< 1.0	ug/L	A		Diethyl phthalate	< 5.0	ug/L	A	
4-Chlorophenyl phenyl ether	< 2.0	ug/L	A		4-Nitroaniline	< 20.0	ug/L	N	
N-Nitrosodiphenylamine	< 5.0	ug/L	A		Azobenzene	< 5.0	ug/L	U	
4-Bromophenyl phenyl ether	< 2.0	ug/L	A		Hexachlorobenzene	< 5.0	ug/L	A	
Phenanthrene	< 1.0	ug/L	A		Anthracene	< 1.0	ug/L	A	
Carbazole	< 5.0	ug/L	N		Di-n-butylphthalate	< 10.0	ug/L	A	
Fluoranthene	< 1.0	ug/L	A		Benzidine	< 10.0	ug/L	A	
Pyrene	< 1.0	ug/L	A		Butyl benzyl phthalate	< 5.0	ug/L	A	
Benzo(a)anthracene	< 1.0	ug/L	A		Chrysene	< 1.0	ug/L	A	
3,3'-Dichlorobenzidine	< 5.0	ug/L	A		Bis(2-ethylhexyl)phthalate	< 5.0	ug/L	A	
Di-n-octylphthalate	< 5.0	ug/L	N		Benzo(b)fluoranthene	< 1.0	ug/L	A	
Benzo(k)fluoranthene	< 1.0	ug/L	A		Benzo(a)pyrene	< 1.0	ug/L	A	
Indeno(1,2,3-cd)pyrene	< 1.0	ug/L	A		Dibenzo(a,h)anthracene	< 1.0	ug/L	A	
Benzo(g,h,i)perylene	< 1.0	ug/L	A		Phenol	< 5.0	ug/L	A	
2-Chlorophenol	< 5.0	ug/L	A		2-Methylphenol (o-cresol)	< 5.0	ug/L	A	
3&4-Methylphenol (m&p-cresol)	< 5.0	ug/L	A		Cresols, Total	< 10.0	ug/L	A	
2-Nitrophenol	< 10.0	ug/L	A		2,4-Dimethylphenol	< 5.0	ug/L	A	
2,4-Dichlorophenol	< 5.0	ug/L	A		2,6-Dichlorophenol	< 5.0	ug/L	N	
4-Chloro-3-methylphenol	< 10.0	ug/L	A		2,4,5-Trichlorophenol	< 10.0	ug/L	A	
2,4,6-Trichlorophenol	< 10.0	ug/L	A		2,4-Dinitrophenol	< 20.0	ug/L	A	
4-Nitrophenol	< 10.0	ug/L	A		4,6-Dinitro-2-methylphenol	< 20.0	ug/L	A	
Pentachlorophenol	< 10.0	ug/L	A		BaP Toxic Equiv. Quotient	< 2.3	ug/L	U	
B/N Surr.1 Nitrobenzene-d5	67	%	N		B/N Surr.2 2-Fluorobiphenyl	68	%	N	
B/N Surr.3 Terphenyl-d14	90	%	N		Acid Surr.1 2-Fluorophenol	33	%	N	
Acid Surr.2 Phenol-d8	23	%	N		Acid Surr.3 Tribromophenol	81	%	N	
Unidentified Peaks	0		U						

CLIENT: WaiteHeindel Environmental Mgt
PROJECT: NEWSVT LF Surface Water
REPORT DATE: 10/24/2014

WORK ORDER: **1410-21183**
DATE RECEIVED: 10/09/2014

TEST METHOD: EPA 8260C

003 Site: SW-3 Sampled: 10/9/14 16:45 Test Date: 10/13/14 W MHM

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Dichlorodifluoromethane	< 5.0	ug/L	A		Chloromethane	< 3.0	ug/L	N	
Vinyl chloride	< 2.0	ug/L	A		Bromomethane	< 5.0	ug/L	A	
Chloroethane	< 5.0	ug/L	A		Trichlorofluoromethane	< 2.0	ug/L	A	
Diethyl ether	< 5.0	ug/L	N		1,1-Dichloroethene	< 1.0	ug/L	A	
Acetone	< 10.0	ug/L	A		Carbon disulfide	< 5.0	ug/L	A	
Methylene chloride	< 5.0	ug/L	A		t-Butanol	< 20.0	ug/L	N	
Methyl-t-butyl ether (MTBE)	< 2.0	ug/L	A		trans-1,2-Dichloroethene	< 1.0	ug/L	A	
Di-isopropyl ether (DIPE)	< 2.0	ug/L	N		1,1-Dichloroethane	< 1.0	ug/L	A	
Ethyl-t-butyl ether (ETBE)	< 2.0	ug/L	N		2-Butanone	< 10.0	ug/L	A	
2,2-Dichloropropane	< 2.0	ug/L	N		cis-1,2-Dichloroethene	< 1.0	ug/L	N	
Bromochloromethane	< 2.0	ug/L	N		Chloroform	< 1.0	ug/L	A	
Tetrahydrofuran	< 10.0	ug/L	U		1,1,1-Trichloroethane	< 1.0	ug/L	A	
Carbon tetrachloride	< 1.0	ug/L	A		1,1-Dichloropropene	< 1.0	ug/L	N	
Benzene	< 1.0	ug/L	A		t-Amylmethyl ether (TAME)	< 2.0	ug/L	N	
1,2-Dichloroethane	< 1.0	ug/L	A		Trichloroethene	< 1.0	ug/L	A	
1,2-Dichloropropane	< 2.0	ug/L	A		Dibromomethane	< 2.0	ug/L	N	
Bromodichloromethane	< 0.5	ug/L	A		cis-1,3-Dichloropropene	< 1.0	ug/L	A	
4-Methyl-2-pentanone (MIBK)	< 10.0	ug/L	N		Toluene	< 1.0	ug/L	A	
trans-1,3-Dichloropropene	< 1.0	ug/L	A		1,1,2-Trichloroethane	< 1.0	ug/L	A	
Tetrachloroethene	< 1.0	ug/L	A		1,3-Dichloropropane	< 1.0	ug/L	N	
2-Hexanone	< 10.0	ug/L	N		Dibromochloromethane	< 2.0	ug/L	A	
1,2-Dibromoethane	< 1.0	ug/L	A		Chlorobenzene	< 1.0	ug/L	A	
Ethylbenzene	< 1.0	ug/L	A		1,1,1,2-Tetrachloroethane	< 2.0	ug/L	A	
Xylenes, Total	< 2.0	ug/L	A		Styrene	< 1.0	ug/L	N	
Bromoform	< 2.0	ug/L	A		Isopropylbenzene	< 1.0	ug/L	A	
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	A		Bromobenzene	< 1.0	ug/L	N	
n-Propylbenzene	< 1.0	ug/L	A		1,2,3-Trichloropropane	< 2.0	ug/L	N	
2-Chlorotoluene	< 1.0	ug/L	N		1,3,5-Trimethylbenzene	< 1.0	ug/L	A	
4-Chlorotoluene	< 1.0	ug/L	N		t-Butylbenzene	< 1.0	ug/L	A	
1,2,4-Trimethylbenzene	< 1.0	ug/L	A		s-Butylbenzene	< 1.0	ug/L	N	
4-Isopropyltoluene	< 1.0	ug/L	A		1,3-Dichlorobenzene	< 1.0	ug/L	A	
1,4-Dichlorobenzene	< 1.0	ug/L	A		n-Butylbenzene	< 1.0	ug/L	A	
1,2-Dichlorobenzene	< 1.0	ug/L	A		1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	A		1,3,5-Trichlorobenzene	< 2.0	ug/L	N	
Hexachlorobutadiene	< 0.5	ug/L	N		Naphthalene	< 2.0	ug/L	A	
1,2,3-Trichlorobenzene	< 2.0	ug/L	N		Surr. 1 (Dibromofluoromethane)	111	%	N	
Surr. 2 (Toluene d8)	103	%	N		Surr. 3 (4-Bromofluorobenzene)	101	%	N	
Unidentified Peaks	0		U						

CLIENT: WaiteHeindel Environmental Mgt
PROJECT: NEWSVT LF Surface Water
REPORT DATE: 10/24/2014

WORK ORDER: **1410-21183**
DATE RECEIVED: 10/09/2014

TEST METHOD: EPA 8270D

004 Site: SW-4 Sampled: 10/9/14 16:30 Test Date: 10/14/14 W FAA

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Extraction EPA 3510C	Extracted		A		N-Nitrosodimethylamine	< 10.0	ug/L	A	
Pyridine	< 10.0	ug/L	A		Aniline	< 10.0	ug/L	N	
Bis(2-chloroethyl)ether	< 5.0	ug/L	A		1,2-Dichlorobenzene	< 2.0	ug/L	A	
1,3-Dichlorobenzene	< 2.0	ug/L	A		1,4-Dichlorobenzene	< 2.0	ug/L	A	
Benzyl alcohol	< 20.0	ug/L	N		Bis(2-chloroisopropyl)ether	< 10.0	ug/L	A	
N-Nitrosodi-n-propylamine	< 10.0	ug/L	A		Hexachloroethane	< 5.0	ug/L	A	
Nitrobenzene	< 5.0	ug/L	A		N-Nitrosopiperidine	< 10.0	ug/L	N	
Isophorone	< 2.0	ug/L	A		Bis(2-chloroethoxy)methane	< 5.0	ug/L	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	A		Naphthalene	< 1.0	ug/L	A	
4-Chloroaniline	< 5.0	ug/L	N		Hexachlorobutadiene	< 5.0	ug/L	A	
N-Nitrosodi-n-butylamine	< 5.0	ug/L	N		2-Methylnaphthalene	< 1.0	ug/L	A	
1-Methylnaphthalene	< 1.0	ug/L	U		Hexachlorocyclopentadiene	< 20.0	ug/L	A	
2-Chloronaphthalene	< 2.0	ug/L	A		1-Chloronaphthalene	< 2.0	ug/L	N	
2-Nitroaniline	< 20.0	ug/L	N		Dimethyl phthalate	< 5.0	ug/L	A	
2,6-Dinitrotoluene	< 5.0	ug/L	A		Acenaphthylene	< 1.0	ug/L	A	
3-Nitroaniline	< 5.0	ug/L	N		Acenaphthene	< 1.0	ug/L	A	
Dibenzofuran	< 2.0	ug/L	N		2,4-Dinitrotoluene	< 5.0	ug/L	A	
1-Naphthylamine	< 10.0	ug/L	N		2-Naphthylamine	< 10.0	ug/L	N	
Fluorene	< 1.0	ug/L	A		Diethyl phthalate	< 5.0	ug/L	A	
4-Chlorophenyl phenyl ether	< 2.0	ug/L	A		4-Nitroaniline	< 20.0	ug/L	N	
N-Nitrosodiphenylamine	< 5.0	ug/L	A		Azobenzene	< 5.0	ug/L	U	
4-Bromophenyl phenyl ether	< 2.0	ug/L	A		Hexachlorobenzene	< 5.0	ug/L	A	
Phenanthrene	< 1.0	ug/L	A		Anthracene	< 1.0	ug/L	A	
Carbazole	< 5.0	ug/L	N		Di-n-butylphthalate	< 10.0	ug/L	A	
Fluoranthene	< 1.0	ug/L	A		Benzidine	< 10.0	ug/L	A	
Pyrene	< 1.0	ug/L	A		Butyl benzyl phthalate	< 5.0	ug/L	A	
Benzo(a)anthracene	< 1.0	ug/L	A		Chrysene	< 1.0	ug/L	A	
3,3'-Dichlorobenzidine	< 5.0	ug/L	A		Bis(2-ethylhexyl)phthalate	< 5.0	ug/L	A	
Di-n-octylphthalate	< 5.0	ug/L	N		Benzo(b)fluoranthene	< 1.0	ug/L	A	
Benzo(k)fluoranthene	< 1.0	ug/L	A		Benzo(a)pyrene	< 1.0	ug/L	A	
Indeno(1,2,3-cd)pyrene	< 1.0	ug/L	A		Dibenzo(a,h)anthracene	< 1.0	ug/L	A	
Benzo(g,h,i)perylene	< 1.0	ug/L	A		Phenol	< 5.0	ug/L	A	
2-Chlorophenol	< 5.0	ug/L	A		2-Methylphenol (o-cresol)	< 5.0	ug/L	A	
3&4-Methylphenol (m&p-cresol)	< 5.0	ug/L	A		Cresols, Total	< 10.0	ug/L	A	
2-Nitrophenol	< 10.0	ug/L	A		2,4-Dimethylphenol	< 5.0	ug/L	A	
2,4-Dichlorophenol	< 5.0	ug/L	A		2,6-Dichlorophenol	< 5.0	ug/L	N	
4-Chloro-3-methylphenol	< 10.0	ug/L	A		2,4,5-Trichlorophenol	< 10.0	ug/L	A	
2,4,6-Trichlorophenol	< 10.0	ug/L	A		2,4-Dinitrophenol	< 20.0	ug/L	A	
4-Nitrophenol	< 10.0	ug/L	A		4,6-Dinitro-2-methylphenol	< 20.0	ug/L	A	
Pentachlorophenol	< 10.0	ug/L	A		BaP Toxic Equiv. Quotient	< 2.3	ug/L	U	
B/N Surr.1 Nitrobenzene-d5	66	%	N		B/N Surr.2 2-Fluorobiphenyl	73	%	N	
B/N Surr.3 Terphenyl-d14	90	%	N		Acid Surr.1 2-Fluorophenol	32	%	N	
Acid Surr.2 Phenol-d8	23	%	N		Acid Surr.3 Tribromophenol	81	%	N	
Unidentified Peaks	0		U						

CLIENT: WaiteHeindel Environmental Mgt
PROJECT: NEWSVT LF Surface Water
REPORT DATE: 10/24/2014

WORK ORDER: **1410-21183**
DATE RECEIVED: 10/09/2014

TEST METHOD: EPA 8260C

004 Site: SW-4 Sampled: 10/9/14 16:30 Test Date: 10/13/14 W MHM

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Dichlorodifluoromethane	< 5.0	ug/L	A		Chloromethane	< 3.0	ug/L	N	
Vinyl chloride	< 2.0	ug/L	A		Bromomethane	< 5.0	ug/L	A	
Chloroethane	< 5.0	ug/L	A		Trichlorofluoromethane	< 2.0	ug/L	A	
Diethyl ether	< 5.0	ug/L	N		1,1-Dichloroethene	< 1.0	ug/L	A	
Acetone	< 10.0	ug/L	A		Carbon disulfide	< 5.0	ug/L	A	
Methylene chloride	< 5.0	ug/L	A		t-Butanol	< 20.0	ug/L	N	
Methyl-t-butyl ether (MTBE)	< 2.0	ug/L	A		trans-1,2-Dichloroethene	< 1.0	ug/L	A	
Di-isopropyl ether (DIPE)	< 2.0	ug/L	N		1,1-Dichloroethane	< 1.0	ug/L	A	
Ethyl-t-butyl ether (ETBE)	< 2.0	ug/L	N		2-Butanone	< 10.0	ug/L	A	
2,2-Dichloropropane	< 2.0	ug/L	N		cis-1,2-Dichloroethene	< 1.0	ug/L	N	
Bromochloromethane	< 2.0	ug/L	N		Chloroform	< 1.0	ug/L	A	
Tetrahydrofuran	< 10.0	ug/L	U		1,1,1-Trichloroethane	< 1.0	ug/L	A	
Carbon tetrachloride	< 1.0	ug/L	A		1,1-Dichloropropene	< 1.0	ug/L	N	
Benzene	< 1.0	ug/L	A		t-Amylmethyl ether (TAME)	< 2.0	ug/L	N	
1,2-Dichloroethane	< 1.0	ug/L	A		Trichloroethene	< 1.0	ug/L	A	
1,2-Dichloropropane	< 2.0	ug/L	A		Dibromomethane	< 2.0	ug/L	N	
Bromodichloromethane	< 0.5	ug/L	A		cis-1,3-Dichloropropene	< 1.0	ug/L	A	
4-Methyl-2-pentanone (MIBK)	< 10.0	ug/L	N		Toluene	< 1.0	ug/L	A	
trans-1,3-Dichloropropene	< 1.0	ug/L	A		1,1,2-Trichloroethane	< 1.0	ug/L	A	
Tetrachloroethene	< 1.0	ug/L	A		1,3-Dichloropropane	< 1.0	ug/L	N	
2-Hexanone	< 10.0	ug/L	N		Dibromochloromethane	< 2.0	ug/L	A	
1,2-Dibromoethane	< 1.0	ug/L	A		Chlorobenzene	< 1.0	ug/L	A	
Ethylbenzene	< 1.0	ug/L	A		1,1,1,2-Tetrachloroethane	< 2.0	ug/L	A	
Xylenes, Total	< 2.0	ug/L	A		Styrene	< 1.0	ug/L	N	
Bromoform	< 2.0	ug/L	A		Isopropylbenzene	< 1.0	ug/L	A	
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	A		Bromobenzene	< 1.0	ug/L	N	
n-Propylbenzene	< 1.0	ug/L	A		1,2,3-Trichloropropane	< 2.0	ug/L	N	
2-Chlorotoluene	< 1.0	ug/L	N		1,3,5-Trimethylbenzene	< 1.0	ug/L	A	
4-Chlorotoluene	< 1.0	ug/L	N		t-Butylbenzene	< 1.0	ug/L	A	
1,2,4-Trimethylbenzene	< 1.0	ug/L	A		s-Butylbenzene	< 1.0	ug/L	N	
4-Isopropyltoluene	< 1.0	ug/L	A		1,3-Dichlorobenzene	< 1.0	ug/L	A	
1,4-Dichlorobenzene	< 1.0	ug/L	A		n-Butylbenzene	< 1.0	ug/L	A	
1,2-Dichlorobenzene	< 1.0	ug/L	A		1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	A		1,3,5-Trichlorobenzene	< 2.0	ug/L	N	
Hexachlorobutadiene	< 0.5	ug/L	N		Naphthalene	< 2.0	ug/L	A	
1,2,3-Trichlorobenzene	< 2.0	ug/L	N		Surr. 1 (Dibromofluoromethane)	112	%	N	
Surr. 2 (Toluene d8)	107	%	N		Surr. 3 (4-Bromofluorobenzene)	105	%	N	
Unidentified Peaks	0		U						

CLIENT: WaiteHeindel Environmental Mgt
PROJECT: NEWSVT LF Surface Water
REPORT DATE: 10/24/2014

WORK ORDER: **1410-21183**
DATE RECEIVED: 10/09/2014

TEST METHOD: EPA 8270D

005 Site: SW-5 Sampled: 10/9/14 14:20 Test Date: 10/14/14 W FAA

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Extraction EPA 3510C	Extracted		A		N-Nitrosodimethylamine	< 10.0	ug/L	A	
Pyridine	< 10.0	ug/L	A		Aniline	< 10.0	ug/L	N	
Bis(2-chloroethyl)ether	< 5.0	ug/L	A		1,2-Dichlorobenzene	< 2.0	ug/L	A	
1,3-Dichlorobenzene	< 2.0	ug/L	A		1,4-Dichlorobenzene	< 2.0	ug/L	A	
Benzyl alcohol	< 20.0	ug/L	N		Bis(2-chloroisopropyl)ether	< 10.0	ug/L	A	
N-Nitrosodi-n-propylamine	< 10.0	ug/L	A		Hexachloroethane	< 5.0	ug/L	A	
Nitrobenzene	< 5.0	ug/L	A		N-Nitrosopiperidine	< 10.0	ug/L	N	
Isophorone	< 2.0	ug/L	A		Bis(2-chloroethoxy)methane	< 5.0	ug/L	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	A		Naphthalene	< 1.0	ug/L	A	
4-Chloroaniline	< 5.0	ug/L	N		Hexachlorobutadiene	< 5.0	ug/L	A	
N-Nitrosodi-n-butylamine	< 5.0	ug/L	N		2-Methylnaphthalene	< 1.0	ug/L	A	
1-Methylnaphthalene	< 1.0	ug/L	U		Hexachlorocyclopentadiene	< 20.0	ug/L	A	
2-Chloronaphthalene	< 2.0	ug/L	A		1-Chloronaphthalene	< 2.0	ug/L	N	
2-Nitroaniline	< 20.0	ug/L	N		Dimethyl phthalate	< 5.0	ug/L	A	
2,6-Dinitrotoluene	< 5.0	ug/L	A		Acenaphthylene	< 1.0	ug/L	A	
3-Nitroaniline	< 5.0	ug/L	N		Acenaphthene	< 1.0	ug/L	A	
Dibenzofuran	< 2.0	ug/L	N		2,4-Dinitrotoluene	< 5.0	ug/L	A	
1-Naphthylamine	< 10.0	ug/L	N		2-Naphthylamine	< 10.0	ug/L	N	
Fluorene	< 1.0	ug/L	A		Diethyl phthalate	< 5.0	ug/L	A	
4-Chlorophenyl phenyl ether	< 2.0	ug/L	A		4-Nitroaniline	< 20.0	ug/L	N	
N-Nitrosodiphenylamine	< 5.0	ug/L	A		Azobenzene	< 5.0	ug/L	U	
4-Bromophenyl phenyl ether	< 2.0	ug/L	A		Hexachlorobenzene	< 5.0	ug/L	A	
Phenanthrene	< 1.0	ug/L	A		Anthracene	< 1.0	ug/L	A	
Carbazole	< 5.0	ug/L	N		Di-n-butylphthalate	< 10.0	ug/L	A	
Fluoranthene	< 1.0	ug/L	A		Benzidine	< 10.0	ug/L	A	
Pyrene	< 1.0	ug/L	A		Butyl benzyl phthalate	< 5.0	ug/L	A	
Benzo(a)anthracene	< 1.0	ug/L	A		Chrysene	< 1.0	ug/L	A	
3,3'-Dichlorobenzidine	< 5.0	ug/L	A		Bis(2-ethylhexyl)phthalate	< 5.0	ug/L	A	
Di-n-octylphthalate	< 5.0	ug/L	N		Benzo(b)fluoranthene	< 1.0	ug/L	A	
Benzo(k)fluoranthene	< 1.0	ug/L	A		Benzo(a)pyrene	< 1.0	ug/L	A	
Indeno(1,2,3-cd)pyrene	< 1.0	ug/L	A		Dibenzo(a,h)anthracene	< 1.0	ug/L	A	
Benzo(g,h,i)perylene	< 1.0	ug/L	A		Phenol	< 5.0	ug/L	A	
2-Chlorophenol	< 5.0	ug/L	A		2-Methylphenol (o-cresol)	< 5.0	ug/L	A	
3&4-Methylphenol (m&p-cresol)	< 5.0	ug/L	A		Cresols, Total	< 10.0	ug/L	A	
2-Nitrophenol	< 10.0	ug/L	A		2,4-Dimethylphenol	< 5.0	ug/L	A	
2,4-Dichlorophenol	< 5.0	ug/L	A		2,6-Dichlorophenol	< 5.0	ug/L	N	
4-Chloro-3-methylphenol	< 10.0	ug/L	A		2,4,5-Trichlorophenol	< 10.0	ug/L	A	
2,4,6-Trichlorophenol	< 10.0	ug/L	A		2,4-Dinitrophenol	< 20.0	ug/L	A	
4-Nitrophenol	< 10.0	ug/L	A		4,6-Dinitro-2-methylphenol	< 20.0	ug/L	A	
Pentachlorophenol	< 10.0	ug/L	A		BaP Toxic Equiv. Quotient	< 2.3	ug/L	U	
B/N Surr.1 Nitrobenzene-d5	56	%	N		B/N Surr.2 2-Fluorobiphenyl	57	%	N	
B/N Surr.3 Terphenyl-d14	84	%	N		Acid Surr.1 2-Fluorophenol	25	%	N	
Acid Surr.2 Phenol-d8	19	%	N	QS-	Acid Surr.3 Tribromophenol	71	%	N	
Unidentified Peaks	2		U						

CLIENT: WaiteHeindel Environmental Mgt
PROJECT: NEWSVT LF Surface Water
REPORT DATE: 10/24/2014

WORK ORDER: **1410-21183**
DATE RECEIVED: 10/09/2014

TEST METHOD: EPA 8260C

005 Site: SW-5 Sampled: 10/9/14 14:20 Test Date: 10/17/14 W SJM

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Dichlorodifluoromethane	< 5.0	ug/L	A		Chloromethane	< 3.0	ug/L	N	
Vinyl chloride	< 2.0	ug/L	A		Bromomethane	< 5.0	ug/L	A	
Chloroethane	< 5.0	ug/L	A		Trichlorofluoromethane	< 2.0	ug/L	A	
Diethyl ether	< 5.0	ug/L	N		1,1-Dichloroethene	< 1.0	ug/L	A	
Acetone	< 10.0	ug/L	A		Carbon disulfide	< 5.0	ug/L	A	
Methylene chloride	< 5.0	ug/L	A		t-Butanol	< 20.0	ug/L	N	
Methyl-t-butyl ether (MTBE)	< 2.0	ug/L	A		trans-1,2-Dichloroethene	< 1.0	ug/L	A	
Di-isopropyl ether (DIPE)	< 2.0	ug/L	N		1,1-Dichloroethane	< 1.0	ug/L	A	
Ethyl-t-butyl ether (ETBE)	< 2.0	ug/L	N		2-Butanone	< 10.0	ug/L	A	
2,2-Dichloropropane	< 2.0	ug/L	N		cis-1,2-Dichloroethene	< 1.0	ug/L	N	
Bromochloromethane	< 2.0	ug/L	N		Chloroform	< 1.0	ug/L	A	
Tetrahydrofuran	< 10.0	ug/L	U		1,1,1-Trichloroethane	< 1.0	ug/L	A	
Carbon tetrachloride	< 1.0	ug/L	A		1,1-Dichloropropene	< 1.0	ug/L	N	
Benzene	< 1.0	ug/L	A		t-Amylmethyl ether (TAME)	< 2.0	ug/L	N	
1,2-Dichloroethane	< 1.0	ug/L	A		Trichloroethene	< 1.0	ug/L	A	
1,2-Dichloropropane	< 2.0	ug/L	A		Dibromomethane	< 2.0	ug/L	N	
Bromodichloromethane	< 0.5	ug/L	A		cis-1,3-Dichloropropene	< 2.0	ug/L	A	
4-Methyl-2-pentanone (MIBK)	< 10.0	ug/L	N		Toluene	< 1.0	ug/L	A	
trans-1,3-Dichloropropene	< 2.0	ug/L	A		1,1,2-Trichloroethane	< 1.0	ug/L	A	
Tetrachloroethene	< 1.0	ug/L	A		1,3-Dichloropropane	< 1.0	ug/L	N	
2-Hexanone	< 10.0	ug/L	N		Dibromochloromethane	< 2.0	ug/L	A	
1,2-Dibromoethane	< 1.0	ug/L	A		Chlorobenzene	< 1.0	ug/L	A	
Ethylbenzene	< 1.0	ug/L	A		1,1,1,2-Tetrachloroethane	< 2.0	ug/L	A	
Xylenes, Total	< 2.0	ug/L	A		Styrene	< 1.0	ug/L	N	
Bromoform	< 2.0	ug/L	A		Isopropylbenzene	< 1.0	ug/L	A	
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	A		Bromobenzene	< 1.0	ug/L	N	
n-Propylbenzene	< 1.0	ug/L	A		1,2,3-Trichloropropane	< 2.0	ug/L	N	
2-Chlorotoluene	< 1.0	ug/L	N		1,3,5-Trimethylbenzene	< 1.0	ug/L	A	
4-Chlorotoluene	< 1.0	ug/L	N		t-Butylbenzene	< 1.0	ug/L	A	
1,2,4-Trimethylbenzene	< 1.0	ug/L	A		s-Butylbenzene	< 1.0	ug/L	N	
4-Isopropyltoluene	< 1.0	ug/L	A		1,3-Dichlorobenzene	< 1.0	ug/L	A	
1,4-Dichlorobenzene	< 1.0	ug/L	A		n-Butylbenzene	< 2.0	ug/L	A	
1,2-Dichlorobenzene	< 1.0	ug/L	A		1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	A		1,3,5-Trichlorobenzene	< 2.0	ug/L	N	
Hexachlorobutadiene	< 0.5	ug/L	N		Naphthalene	< 2.0	ug/L	A	
1,2,3-Trichlorobenzene	< 2.0	ug/L	N		Surr. 1 (Dibromofluoromethane)	108	%	N	
Surr. 2 (Toluene d8)	94	%	N		Surr. 3 (4-Bromofluorobenzene)	91	%	N	
Unidentified Peaks	0		U						

CLIENT: WaiteHeindel Environmental Mgt
PROJECT: NEWSVT LF Surface Water
REPORT DATE: 10/24/2014

WORK ORDER: **1410-21183**
DATE RECEIVED: 10/09/2014

TEST METHOD: EPA 8270D

007 Site: SW-7 Sampled: 10/9/14 16:11 Test Date: 10/14/14 W FAA

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Extraction EPA 3510C	Extracted		A		N-Nitrosodimethylamine	< 10.0	ug/L	A	
Pyridine	< 10.0	ug/L	A		Aniline	< 10.0	ug/L	N	
Bis(2-chloroethyl)ether	< 5.0	ug/L	A		1,2-Dichlorobenzene	< 2.0	ug/L	A	
1,3-Dichlorobenzene	< 2.0	ug/L	A		1,4-Dichlorobenzene	< 2.0	ug/L	A	
Benzyl alcohol	< 20.0	ug/L	N		Bis(2-chloroisopropyl)ether	< 10.0	ug/L	A	
N-Nitrosodi-n-propylamine	< 10.0	ug/L	A		Hexachloroethane	< 5.0	ug/L	A	
Nitrobenzene	< 5.0	ug/L	A		N-Nitrosopiperidine	< 10.0	ug/L	N	
Isophorone	< 2.0	ug/L	A		Bis(2-chloroethoxy)methane	< 5.0	ug/L	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	A		Naphthalene	< 1.0	ug/L	A	
4-Chloroaniline	< 5.0	ug/L	N		Hexachlorobutadiene	< 5.0	ug/L	A	
N-Nitrosodi-n-butylamine	< 5.0	ug/L	N		2-Methylnaphthalene	< 1.0	ug/L	A	
1-Methylnaphthalene	< 1.0	ug/L	U		Hexachlorocyclopentadiene	< 20.0	ug/L	A	
2-Chloronaphthalene	< 2.0	ug/L	A		1-Chloronaphthalene	< 2.0	ug/L	N	
2-Nitroaniline	< 20.0	ug/L	N		Dimethyl phthalate	< 5.0	ug/L	A	
2,6-Dinitrotoluene	< 5.0	ug/L	A		Acenaphthylene	< 1.0	ug/L	A	
3-Nitroaniline	< 5.0	ug/L	N		Acenaphthene	< 1.0	ug/L	A	
Dibenzofuran	< 2.0	ug/L	N		2,4-Dinitrotoluene	< 5.0	ug/L	A	
1-Naphthylamine	< 10.0	ug/L	N		2-Naphthylamine	< 10.0	ug/L	N	
Fluorene	< 1.0	ug/L	A		Diethyl phthalate	< 5.0	ug/L	A	
4-Chlorophenyl phenyl ether	< 2.0	ug/L	A		4-Nitroaniline	< 20.0	ug/L	N	
N-Nitrosodiphenylamine	< 5.0	ug/L	A		Azobenzene	< 5.0	ug/L	U	
4-Bromophenyl phenyl ether	< 2.0	ug/L	A		Hexachlorobenzene	< 5.0	ug/L	A	
Phenanthrene	< 1.0	ug/L	A		Anthracene	< 1.0	ug/L	A	
Carbazole	< 5.0	ug/L	N		Di-n-butylphthalate	< 10.0	ug/L	A	
Fluoranthene	< 1.0	ug/L	A		Benzidine	< 10.0	ug/L	A	
Pyrene	< 1.0	ug/L	A		Butyl benzyl phthalate	< 5.0	ug/L	A	
Benzo(a)anthracene	< 1.0	ug/L	A		Chrysene	< 1.0	ug/L	A	
3,3'-Dichlorobenzidine	< 5.0	ug/L	A		Bis(2-ethylhexyl)phthalate	< 5.0	ug/L	A	
Di-n-octylphthalate	< 5.0	ug/L	N		Benzo(b)fluoranthene	< 1.0	ug/L	A	
Benzo(k)fluoranthene	< 1.0	ug/L	A		Benzo(a)pyrene	< 1.0	ug/L	A	
Indeno(1,2,3-cd)pyrene	< 1.0	ug/L	A		Dibenzo(a,h)anthracene	< 1.0	ug/L	A	
Benzo(g,h,i)perylene	< 1.0	ug/L	A		Phenol	< 5.0	ug/L	A	
2-Chlorophenol	< 5.0	ug/L	A		2-Methylphenol (o-cresol)	< 5.0	ug/L	A	
3&4-Methylphenol (m&p-cresol)	< 5.0	ug/L	A		Cresols, Total	< 10.0	ug/L	A	
2-Nitrophenol	< 10.0	ug/L	A		2,4-Dimethylphenol	< 5.0	ug/L	A	
2,4-Dichlorophenol	< 5.0	ug/L	A		2,6-Dichlorophenol	< 5.0	ug/L	N	
4-Chloro-3-methylphenol	< 10.0	ug/L	A		2,4,5-Trichlorophenol	< 10.0	ug/L	A	
2,4,6-Trichlorophenol	< 10.0	ug/L	A		2,4-Dinitrophenol	< 20.0	ug/L	A	
4-Nitrophenol	< 10.0	ug/L	A		4,6-Dinitro-2-methylphenol	< 20.0	ug/L	A	
Pentachlorophenol	< 10.0	ug/L	A		BaP Toxic Equiv. Quotient	< 2.3	ug/L	U	
B/N Surr.1 Nitrobenzene-d5	62	%	N		B/N Surr.2 2-Fluorobiphenyl	67	%	N	
B/N Surr.3 Terphenyl-d14	88	%	N		Acid Surr.1 2-Fluorophenol	30	%	N	
Acid Surr.2 Phenol-d8	24	%	N		Acid Surr.3 Tribromophenol	76	%	N	
Unidentified Peaks	0		U						

CLIENT: WaiteHeindel Environmental Mgt
PROJECT: NEWSVT LF Surface Water
REPORT DATE: 10/24/2014

WORK ORDER: **1410-21183**
DATE RECEIVED: 10/09/2014

TEST METHOD: EPA 8260C

007 Site: SW-7 Sampled: 10/9/14 16:11 Test Date: 10/17/14 W SJM

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Dichlorodifluoromethane	< 5.0	ug/L	A		Chloromethane	< 3.0	ug/L	N	
Vinyl chloride	< 2.0	ug/L	A		Bromomethane	< 5.0	ug/L	A	
Chloroethane	< 5.0	ug/L	A		Trichlorofluoromethane	< 2.0	ug/L	A	
Diethyl ether	< 5.0	ug/L	N		1,1-Dichloroethene	< 1.0	ug/L	A	
Acetone	< 10.0	ug/L	A		Carbon disulfide	< 5.0	ug/L	A	
Methylene chloride	< 5.0	ug/L	A		t-Butanol	< 20.0	ug/L	N	
Methyl-t-butyl ether (MTBE)	< 2.0	ug/L	A		trans-1,2-Dichloroethene	< 1.0	ug/L	A	
Di-isopropyl ether (DIPE)	< 2.0	ug/L	N		1,1-Dichloroethane	< 1.0	ug/L	A	
Ethyl-t-butyl ether (ETBE)	< 2.0	ug/L	N		2-Butanone	< 10.0	ug/L	A	
2,2-Dichloropropane	< 2.0	ug/L	N		cis-1,2-Dichloroethene	< 1.0	ug/L	N	
Bromochloromethane	< 2.0	ug/L	N		Chloroform	< 1.0	ug/L	A	
Tetrahydrofuran	< 10.0	ug/L	U		1,1,1-Trichloroethane	< 1.0	ug/L	A	
Carbon tetrachloride	< 1.0	ug/L	A		1,1-Dichloropropene	< 1.0	ug/L	N	
Benzene	< 1.0	ug/L	A		t-Amylmethyl ether (TAME)	< 2.0	ug/L	N	
1,2-Dichloroethane	< 1.0	ug/L	A		Trichloroethene	< 1.0	ug/L	A	
1,2-Dichloropropane	< 2.0	ug/L	A		Dibromomethane	< 2.0	ug/L	N	
Bromodichloromethane	< 0.5	ug/L	A		cis-1,3-Dichloropropene	< 2.0	ug/L	A	
4-Methyl-2-pentanone (MIBK)	< 10.0	ug/L	N		Toluene	< 1.0	ug/L	A	
trans-1,3-Dichloropropene	< 2.0	ug/L	A		1,1,2-Trichloroethane	< 1.0	ug/L	A	
Tetrachloroethene	< 1.0	ug/L	A		1,3-Dichloropropane	< 1.0	ug/L	N	
2-Hexanone	< 10.0	ug/L	N		Dibromochloromethane	< 2.0	ug/L	A	
1,2-Dibromoethane	< 1.0	ug/L	A		Chlorobenzene	< 1.0	ug/L	A	
Ethylbenzene	< 1.0	ug/L	A		1,1,1,2-Tetrachloroethane	< 2.0	ug/L	A	
Xylenes, Total	< 2.0	ug/L	A		Styrene	< 1.0	ug/L	N	
Bromoform	< 2.0	ug/L	A		Isopropylbenzene	< 1.0	ug/L	A	
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	A		Bromobenzene	< 1.0	ug/L	N	
n-Propylbenzene	< 1.0	ug/L	A		1,2,3-Trichloropropane	< 2.0	ug/L	N	
2-Chlorotoluene	< 1.0	ug/L	N		1,3,5-Trimethylbenzene	< 1.0	ug/L	A	
4-Chlorotoluene	< 1.0	ug/L	N		t-Butylbenzene	< 1.0	ug/L	A	
1,2,4-Trimethylbenzene	< 1.0	ug/L	A		s-Butylbenzene	< 1.0	ug/L	N	
4-Isopropyltoluene	< 1.0	ug/L	A		1,3-Dichlorobenzene	< 1.0	ug/L	A	
1,4-Dichlorobenzene	< 1.0	ug/L	A		n-Butylbenzene	< 2.0	ug/L	A	
1,2-Dichlorobenzene	< 1.0	ug/L	A		1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	A		1,3,5-Trichlorobenzene	< 2.0	ug/L	N	
Hexachlorobutadiene	< 0.5	ug/L	N		Naphthalene	< 2.0	ug/L	A	
1,2,3-Trichlorobenzene	< 2.0	ug/L	N		Surr. 1 (Dibromofluoromethane)	113	%	N	
Surr. 2 (Toluene d8)	96	%	N		Surr. 3 (4-Bromofluorobenzene)	94	%	N	
Unidentified Peaks	0		U						

CLIENT: WaiteHeindel Environmental Mgt
PROJECT: NEWSVT LF Surface Water
REPORT DATE: 10/24/2014

WORK ORDER: **1410-21183**
DATE RECEIVED: 10/09/2014

TEST METHOD: EPA 8270D

008 Site: SW-8 Sampled: 10/9/14 15:20 Test Date: 10/14/14 W FAA

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Extraction EPA 3510C	Extracted		A		N-Nitrosodimethylamine	< 10.0	ug/L	A	
Pyridine	< 10.0	ug/L	A		Aniline	< 10.0	ug/L	N	
Bis(2-chloroethyl)ether	< 5.0	ug/L	A		1,2-Dichlorobenzene	< 2.0	ug/L	A	
1,3-Dichlorobenzene	< 2.0	ug/L	A		1,4-Dichlorobenzene	< 2.0	ug/L	A	
Benzyl alcohol	< 20.0	ug/L	N		Bis(2-chloroisopropyl)ether	< 10.0	ug/L	A	
N-Nitrosodi-n-propylamine	< 10.0	ug/L	A		Hexachloroethane	< 5.0	ug/L	A	
Nitrobenzene	< 5.0	ug/L	A		N-Nitrosopiperidine	< 10.0	ug/L	N	
Isophorone	< 2.0	ug/L	A		Bis(2-chloroethoxy)methane	< 5.0	ug/L	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	A		Naphthalene	< 1.0	ug/L	A	
4-Chloroaniline	< 5.0	ug/L	N		Hexachlorobutadiene	< 5.0	ug/L	A	
N-Nitrosodi-n-butylamine	< 5.0	ug/L	N		2-Methylnaphthalene	< 1.0	ug/L	A	
1-Methylnaphthalene	< 1.0	ug/L	U		Hexachlorocyclopentadiene	< 20.0	ug/L	A	
2-Chloronaphthalene	< 2.0	ug/L	A		1-Chloronaphthalene	< 2.0	ug/L	N	
2-Nitroaniline	< 20.0	ug/L	N		Dimethyl phthalate	< 5.0	ug/L	A	
2,6-Dinitrotoluene	< 5.0	ug/L	A		Acenaphthylene	< 1.0	ug/L	A	
3-Nitroaniline	< 5.0	ug/L	N		Acenaphthene	< 1.0	ug/L	A	
Dibenzofuran	< 2.0	ug/L	N		2,4-Dinitrotoluene	< 5.0	ug/L	A	
1-Naphthylamine	< 10.0	ug/L	N		2-Naphthylamine	< 10.0	ug/L	N	
Fluorene	< 1.0	ug/L	A		Diethyl phthalate	< 5.0	ug/L	A	
4-Chlorophenyl phenyl ether	< 2.0	ug/L	A		4-Nitroaniline	< 20.0	ug/L	N	
N-Nitrosodiphenylamine	< 5.0	ug/L	A		Azobenzene	< 5.0	ug/L	U	
4-Bromophenyl phenyl ether	< 2.0	ug/L	A		Hexachlorobenzene	< 5.0	ug/L	A	
Phenanthrene	< 1.0	ug/L	A		Anthracene	< 1.0	ug/L	A	
Carbazole	< 5.0	ug/L	N		Di-n-butylphthalate	< 10.0	ug/L	A	
Fluoranthene	< 1.0	ug/L	A		Benzidine	< 10.0	ug/L	A	
Pyrene	< 1.0	ug/L	A		Butyl benzyl phthalate	< 5.0	ug/L	A	
Benzo(a)anthracene	< 1.0	ug/L	A		Chrysene	< 1.0	ug/L	A	
3,3'-Dichlorobenzidine	< 5.0	ug/L	A		Bis(2-ethylhexyl)phthalate	< 5.0	ug/L	A	
Di-n-octylphthalate	< 5.0	ug/L	N		Benzo(b)fluoranthene	< 1.0	ug/L	A	
Benzo(k)fluoranthene	< 1.0	ug/L	A		Benzo(a)pyrene	< 1.0	ug/L	A	
Indeno(1,2,3-cd)pyrene	< 1.0	ug/L	A		Dibenzo(a,h)anthracene	< 1.0	ug/L	A	
Benzo(g,h,i)perylene	< 1.0	ug/L	A		Phenol	< 5.0	ug/L	A	
2-Chlorophenol	< 5.0	ug/L	A		2-Methylphenol (o-cresol)	< 5.0	ug/L	A	
3&4-Methylphenol (m&p-cresol)	< 5.0	ug/L	A		Cresols, Total	< 10.0	ug/L	A	
2-Nitrophenol	< 10.0	ug/L	A		2,4-Dimethylphenol	< 5.0	ug/L	A	
2,4-Dichlorophenol	< 5.0	ug/L	A		2,6-Dichlorophenol	< 5.0	ug/L	N	
4-Chloro-3-methylphenol	< 10.0	ug/L	A		2,4,5-Trichlorophenol	< 10.0	ug/L	A	
2,4,6-Trichlorophenol	< 10.0	ug/L	A		2,4-Dinitrophenol	< 20.0	ug/L	A	
4-Nitrophenol	< 10.0	ug/L	A		4,6-Dinitro-2-methylphenol	< 20.0	ug/L	A	
Pentachlorophenol	< 10.0	ug/L	A		BaP Toxic Equiv. Quotient	< 2.3	ug/L	U	
B/N Surr.1 Nitrobenzene-d5	67	%	N		B/N Surr.2 2-Fluorobiphenyl	70	%	N	
B/N Surr.3 Terphenyl-d14	95	%	N		Acid Surr.1 2-Fluorophenol	31	%	N	
Acid Surr.2 Phenol-d8	21	%	N		Acid Surr.3 Tribromophenol	79	%	N	
Unidentified Peaks	4		U						

CLIENT: WaiteHeindel Environmental Mgt
PROJECT: NEWSVT LF Surface Water
REPORT DATE: 10/24/2014

WORK ORDER: **1410-21183**
DATE RECEIVED: 10/09/2014

TEST METHOD: EPA 8260C

008 Site: SW-8 Sampled: 10/9/14 15:20 Test Date: 10/17/14 W SJM

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Dichlorodifluoromethane	< 5.0	ug/L	A		Chloromethane	< 3.0	ug/L	N	
Vinyl chloride	< 2.0	ug/L	A		Bromomethane	< 5.0	ug/L	A	
Chloroethane	< 5.0	ug/L	A		Trichlorofluoromethane	< 2.0	ug/L	A	
Diethyl ether	< 5.0	ug/L	N		1,1-Dichloroethene	< 1.0	ug/L	A	
Acetone	< 10.0	ug/L	A		Carbon disulfide	< 5.0	ug/L	A	
Methylene chloride	< 5.0	ug/L	A		t-Butanol	< 20.0	ug/L	N	
Methyl-t-butyl ether (MTBE)	< 2.0	ug/L	A		trans-1,2-Dichloroethene	< 1.0	ug/L	A	
Di-isopropyl ether (DIPE)	< 2.0	ug/L	N		1,1-Dichloroethane	< 1.0	ug/L	A	
Ethyl-t-butyl ether (ETBE)	< 2.0	ug/L	N		2-Butanone	< 10.0	ug/L	A	
2,2-Dichloropropane	< 2.0	ug/L	N		cis-1,2-Dichloroethene	< 1.0	ug/L	N	
Bromochloromethane	< 2.0	ug/L	N		Chloroform	< 1.0	ug/L	A	
Tetrahydrofuran	< 10.0	ug/L	U		1,1,1-Trichloroethane	< 1.0	ug/L	A	
Carbon tetrachloride	< 1.0	ug/L	A		1,1-Dichloropropene	< 1.0	ug/L	N	
Benzene	< 1.0	ug/L	A		t-Amylmethyl ether (TAME)	< 2.0	ug/L	N	
1,2-Dichloroethane	< 1.0	ug/L	A		Trichloroethene	< 1.0	ug/L	A	
1,2-Dichloropropane	< 2.0	ug/L	A		Dibromomethane	< 2.0	ug/L	N	
Bromodichloromethane	< 0.5	ug/L	A		cis-1,3-Dichloropropene	< 2.0	ug/L	A	
4-Methyl-2-pentanone (MIBK)	< 10.0	ug/L	N		Toluene	< 1.0	ug/L	A	
trans-1,3-Dichloropropene	< 2.0	ug/L	A		1,1,2-Trichloroethane	< 1.0	ug/L	A	
Tetrachloroethene	< 1.0	ug/L	A		1,3-Dichloropropane	< 1.0	ug/L	N	
2-Hexanone	< 10.0	ug/L	N		Dibromochloromethane	< 2.0	ug/L	A	
1,2-Dibromoethane	< 1.0	ug/L	A		Chlorobenzene	< 1.0	ug/L	A	
Ethylbenzene	< 1.0	ug/L	A		1,1,1,2-Tetrachloroethane	< 2.0	ug/L	A	
Xylenes, Total	< 2.0	ug/L	A		Styrene	< 1.0	ug/L	N	
Bromoform	< 2.0	ug/L	A		Isopropylbenzene	< 1.0	ug/L	A	
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	A		Bromobenzene	< 1.0	ug/L	N	
n-Propylbenzene	< 1.0	ug/L	A		1,2,3-Trichloropropane	< 2.0	ug/L	N	
2-Chlorotoluene	< 1.0	ug/L	N		1,3,5-Trimethylbenzene	< 1.0	ug/L	A	
4-Chlorotoluene	< 1.0	ug/L	N		t-Butylbenzene	< 1.0	ug/L	A	
1,2,4-Trimethylbenzene	< 1.0	ug/L	A		s-Butylbenzene	< 1.0	ug/L	N	
4-Isopropyltoluene	< 1.0	ug/L	A		1,3-Dichlorobenzene	< 1.0	ug/L	A	
1,4-Dichlorobenzene	< 1.0	ug/L	A		n-Butylbenzene	< 2.0	ug/L	A	
1,2-Dichlorobenzene	< 1.0	ug/L	A		1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	A		1,3,5-Trichlorobenzene	< 2.0	ug/L	N	
Hexachlorobutadiene	< 0.5	ug/L	N		Naphthalene	< 2.0	ug/L	A	
1,2,3-Trichlorobenzene	< 2.0	ug/L	N		Surr. 1 (Dibromofluoromethane)	111	%	N	
Surr. 2 (Toluene d8)	91	%	N		Surr. 3 (4-Bromofluorobenzene)	86	%	N	
Unidentified Peaks	0		U						

CLIENT: WaiteHeindel Environmental Mgt
PROJECT: NEWSVT LF Surface Water
REPORT DATE: 10/24/2014

WORK ORDER: **1410-21183**
DATE RECEIVED: 10/09/2014

TEST METHOD: EPA 8260C

009 Site: Trip Blank — Sampled: 10/2/14 12:40 — Test Date: 10/17/14 W SJM

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Dichlorodifluoromethane	< 5.0	ug/L	A		Chloromethane	< 3.0	ug/L	N	
Vinyl chloride	< 2.0	ug/L	A		Bromomethane	< 5.0	ug/L	A	
Chloroethane	< 5.0	ug/L	A		Trichlorofluoromethane	< 2.0	ug/L	A	
Diethyl ether	< 5.0	ug/L	N		1,1-Dichloroethene	< 1.0	ug/L	A	
Acetone	< 10.0	ug/L	A		Carbon disulfide	< 5.0	ug/L	A	
Methylene chloride	< 5.0	ug/L	A		t-Butanol	< 20.0	ug/L	N	
Methyl-t-butyl ether (MTBE)	< 2.0	ug/L	A		trans-1,2-Dichloroethene	< 1.0	ug/L	A	
Di-isopropyl ether (DIPE)	< 2.0	ug/L	N		1,1-Dichloroethane	< 1.0	ug/L	A	
Ethyl-t-butyl ether (ETBE)	< 2.0	ug/L	N		2-Butanone	< 10.0	ug/L	A	
2,2-Dichloropropane	< 2.0	ug/L	N		cis-1,2-Dichloroethene	< 1.0	ug/L	N	
Bromochloromethane	< 2.0	ug/L	N		Chloroform	< 1.0	ug/L	A	
Tetrahydrofuran	< 10.0	ug/L	U		1,1,1-Trichloroethane	< 1.0	ug/L	A	
Carbon tetrachloride	< 1.0	ug/L	A		1,1-Dichloropropene	< 1.0	ug/L	N	
Benzene	< 1.0	ug/L	A		t-Amylmethyl ether (TAME)	< 2.0	ug/L	N	
1,2-Dichloroethane	< 1.0	ug/L	A		Trichloroethene	< 1.0	ug/L	A	
1,2-Dichloropropane	< 2.0	ug/L	A		Dibromomethane	< 2.0	ug/L	N	
Bromodichloromethane	< 0.5	ug/L	A		cis-1,3-Dichloropropene	< 2.0	ug/L	A	
4-Methyl-2-pentanone (MIBK)	< 10.0	ug/L	N		Toluene	< 1.0	ug/L	A	
trans-1,3-Dichloropropene	< 2.0	ug/L	A		1,1,2-Trichloroethane	< 1.0	ug/L	A	
Tetrachloroethene	< 1.0	ug/L	A		1,3-Dichloropropane	< 1.0	ug/L	N	
2-Hexanone	< 10.0	ug/L	N		Dibromochloromethane	< 2.0	ug/L	A	
1,2-Dibromoethane	< 1.0	ug/L	A		Chlorobenzene	< 1.0	ug/L	A	
Ethylbenzene	< 1.0	ug/L	A		1,1,1,2-Tetrachloroethane	< 2.0	ug/L	A	
Xylenes, Total	< 2.0	ug/L	A		Styrene	< 1.0	ug/L	N	
Bromoform	< 2.0	ug/L	A		Isopropylbenzene	< 1.0	ug/L	A	
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	A		Bromobenzene	< 1.0	ug/L	N	
n-Propylbenzene	< 1.0	ug/L	A		1,2,3-Trichloropropane	< 2.0	ug/L	N	
2-Chlorotoluene	< 1.0	ug/L	N		1,3,5-Trimethylbenzene	< 1.0	ug/L	A	
4-Chlorotoluene	< 1.0	ug/L	N		t-Butylbenzene	< 1.0	ug/L	A	
1,2,4-Trimethylbenzene	< 1.0	ug/L	A		s-Butylbenzene	< 1.0	ug/L	N	
4-Isopropyltoluene	< 1.0	ug/L	A		1,3-Dichlorobenzene	< 1.0	ug/L	A	
1,4-Dichlorobenzene	< 1.0	ug/L	A		n-Butylbenzene	< 2.0	ug/L	A	
1,2-Dichlorobenzene	< 1.0	ug/L	A		1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	A		1,3,5-Trichlorobenzene	< 2.0	ug/L	N	
Hexachlorobutadiene	< 0.5	ug/L	N		Naphthalene	< 2.0	ug/L	A	
1,2,3-Trichlorobenzene	< 2.0	ug/L	N		Surr. 1 (Dibromofluoromethane)	112	%	N	
Surr. 2 (Toluene d8)	95	%	N		Surr. 3 (4-Bromofluorobenzene)	88	%	N	
Unidentified Peaks	0		U						

Report Summary of Qualifiers and Notes

M-: The laboratory fortified matrix (LFM) analysis indicates a potential negative bias in the reported value.

QS-: The sample surrogate recovery was below laboratory control limits.

LFB-: The digested Laboratory Fortified Blank recovery for this element was 85% of the expected target.

AN1: The laboratory fortified matrix (LFM) analysis indicates a potential negative bias in the reported value.
The digested Laboratory Fortified Blank recovery for this element was 85% of the expected target.

NEWSVT LF Surface Water

Endyne Inc. COC

Prepared: 4/29/13

Lab Use WO# 1410-21183

Bill to:
Sherry Bradley
Casella Waste Management, Inc.
3 Pitkin Court
Montpelier VT 05602
Ph: (802)223-7221

Report to:
Miles Waite
WaiteHeindel Environmental Mgt
7 Kilburn Street
Burlington VT 05406
CasellaNEWSVThn

Customer # 070338

NEWSVTLFGWSW

W-70338NSW

SW-1 Sampled Date/Time: 10/9/14 @ 0825 Sampler: WR

SVOC BNAs	**2 --** 1L Amber Glass	<6C, pH 5-9
BOD-5day Chloride	**1 - Liter --** Plastic	<6C
COD	**1 - 2 oz --** Plastic or Glass	<6C, H2SO4
Hardness, Total Metals Furnace Digestion Antimony, Total Arsenic, Total Barium, Total Beryllium, Total Cadmium, Total Chromium, Total Cobalt, Total Copper, Total Iron, Total Lead, Total Manganese, Total Mercury, Total Molybdenum, Total Nickel, Total Selenium, Total Sodium, Total Thallium, Total Vanadium, Total Zinc, Total	**1 - 16 oz --** Plastic Total Metals	HNO3
VOC w/ Oxygenates, Water	**2 --** 40ml vials	<6C, HCl

SW-2 Sampled Date/Time: 10/9/14 @ 0915 Sampler: WWSC

SVOC BNAs	2 --	1L Amber Glass	<6C, pH 5-9
BOD-5day	1 - Liter --	Plastic	<6C
Chloride			
COD	1 - 2 oz --	Plastic or Glass	<6C, H2SO4
Hardness, Total	1 - 16 oz --	Plastic Total Metals	HNO3
Metals Furnace Digestion			
Antimony, Total			
Arsenic, Total			
Barium, Total			
Beryllium, Total			
Cadmium, Total			
Chromium, Total			
Cobalt, Total			
Copper, Total			
Iron, Total			
Lead, Total			
Manganese, Total			
Mercury, Total			
Molybdenum, Total			
Nickel, Total			
Selenium, Total			
Sodium, Total			
Thallium, Total			
Vanadium, Total			
Zinc, Total			
VOC w/ Oxygenates, Water	2 --	40ml vials	<6C, HCl

SW-3 Sampled Date/Time: 10/8/14 @ 1645 Sampler: WWSC

SVOC BNAs	2 --	1L Amber Glass	<6C, pH 5-9
BOD-5day	1 - Liter --	Plastic	<6C
Chloride			
COD	1 - 2 oz --	Plastic or Glass	<6C, H2SO4
Hardness, Total	1 - 16 oz --	Plastic Total Metals	HNO3
Metals Furnace Digestion			
Antimony, Total			
Arsenic, Total			
Barium, Total			
Beryllium, Total			
Cadmium, Total			
Chromium, Total			
Cobalt, Total			
Copper, Total			
Iron, Total			
Lead, Total			
Manganese, Total			
Mercury, Total			
Molybdenum, Total			
Nickel, Total			
Selenium, Total			
Sodium, Total			
Thallium, Total			
Vanadium, Total			
Zinc, Total			
VOC w/ Oxygenates, Water	2 --	40ml vials	<6C, HCl

SW-4 Sampled Date/Time: 10/8/14 @ 1630 Sampler: WNSC

SVOC BNAs	2 --	1L Amber Glass	<6C, pH 5-9_____
BOD-5day	1 - Liter --	Plastic	<6C
Chloride			
COD	1 - 2 oz --	Plastic or Glass	<6C, H2SO4_____
Hardness, Total	1 - 16 oz --	Plastic Total Metals	HNO3_____
Metals Furnace Digestion			
Antimony, Total			
Arsenic, Total			
Barium, Total			
Beryllium, Total			
Cadmium, Total			
Chromium, Total			
Cobalt, Total			
Copper, Total			
Iron, Total			
Lead, Total			
Manganese, Total			
Mercury, Total			
Molybdenum, Total			
Nickel, Total			
Selenium, Total			
Sodium, Total			
Thallium, Total			
Vanadium, Total			
Zinc, Total			
VOC w/ Oxygenates, Water	2 --	40ml vials	<6C, HCl

SW-5 Sampled Date/Time: 10/8/14 @ 1420 Sampler: SCWK

SVOC BNAs	2 --	1L Amber Glass	<6C, pH 5-9_____
BOD-5day	1 - Liter --	Plastic	<6C
Chloride			
COD	1 - 2 oz --	Plastic or Glass	<6C, H2SO4_____
Hardness, Total	1 - 16 oz --	Plastic Total Metals	HNO3_____
Metals Furnace Digestion			
Antimony, Total			
Arsenic, Total			
Barium, Total			
Beryllium, Total			
Cadmium, Total			
Chromium, Total			
Cobalt, Total			
Copper, Total			
Iron, Total			
Lead, Total			
Manganese, Total			
Mercury, Total			
Molybdenum, Total			
Nickel, Total			
Selenium, Total			
Sodium, Total			
Thallium, Total			
Vanadium, Total			
Zinc, Total			
VOC w/ Oxygenates, Water	2 --	40ml vials	<6C, HCl

SW-6 Sampled Date/Time: 10/8/14 @ 1100 Sampler: _____

SVOC BNAs	**2 --**	1L Amber Glass	<6C, pH 5-9
BOD-5day	**1 - Liter --**	Plastic	<6C
Chloride			
COD	**1 - 2 oz --**	Plastic or Glass	<6C, H2SO4
Hardness, Total	**1 - 16 oz --**	Plastic Total Metals	HNO3
Metals Furnace Digestion			
Antimony, Total			
Arsenic, Total			
Barium, Total			
Beryllium, Total			
Cadmium, Total			
Chromium, Total			
Cobalt, Total			
Copper, Total			
Iron, Total			
Lead, Total			
Manganese, Total			
Mercury, Total			
Molybdenum, Total			
Nickel, Total			
Selenium, Total			
Sodium, Total			
Thallium, Total			
Vanadium, Total			
Zinc, Total			
VOC w/ Oxygenates, Water	**2 --**	40ml vials	<6C, HCl

No Sample

SW-7 Sampled Date/Time: 10/8/14 @ 1611 Sampler: WILKE

SVOC BNAs	**2 --**	1L Amber Glass	<6C, pH 5-9
BOD-5day	**1 - Liter --**	Plastic	<6C
Chloride			
COD	**1 - 2 oz --**	Plastic or Glass	<6C, H2SO4
Hardness, Total	**1 - 16 oz --**	Plastic Total Metals	HNO3
Metals Furnace Digestion			
Antimony, Total			
Arsenic, Total			
Barium, Total			
Beryllium, Total			
Cadmium, Total			
Chromium, Total			
Cobalt, Total			
Copper, Total			
Iron, Total			
Lead, Total			
Manganese, Total			
Mercury, Total			
Molybdenum, Total			
Nickel, Total			
Selenium, Total			
Sodium, Total			
Thallium, Total			
Vanadium, Total			
Zinc, Total			
VOC w/ Oxygenates, Water	**2 --**	40ml vials	<6C, HCl

SW-8 Sampled Date/Time: 10/8/14 @ 1520 Sampler: WWSC

SVOC BNAs	2 --	1L Amber Glass	<6C, pH 5-9
BOD-5day	1 - Liter --	Plastic	<6C
Chloride			
COD	1 - 2 oz --	Plastic or Glass	<6C, H2SO4
Hardness, Total	1 - 16 oz --	Plastic Total Metals	HNO3
Metals Furnace Digestion			
Antimony, Total			
Arsenic, Total			
Barium, Total			
Beryllium, Total			
Cadmium, Total			
Chromium, Total			
Cobalt, Total			
Copper, Total			
Iron, Total			
Lead, Total			
Manganese, Total			
Mercury, Total			
Molybdenum, Total			
Nickel, Total			
Selenium, Total			
Sodium, Total			
Thallium, Total			
Vanadium, Total			
Zinc, Total			
VOC w/ Oxygenates, Water	2 --	40ml vials	<6C, HCl

Trip Blank Sampled Date/Time: 10/2/14 @ 1240 Sampler: JH

VOC w/ Oxygenates, Water	2 --	40ml vials	<6C, HCl

Relinquished by: [signature] 10/9/14 1105 Date Time Accepted by: [signature] 10/9 @ 11:08 Date Time

Relinquished by: _____ Date Time Received by: _____ Date Time

Sites/Parameters correct as listed. Client Initials WW

Client Authorization to use Subcontract lab Client Initials WW

Sample origin: VT [X] NH [ ] NY [ ] Other [ ]

Special reporting instructions: (PO#) _____

Requested Turnaround Time: Routine: Rush Due Date _____

Delv: Client Tmpl Ck Lab use Only
Temp C: -4.7 Log by
Comment:

ENDYNE Inc. www.endynelabs.com

160 James Brown Dr.
Williston, VT 05495
Ph 802-879-4333
Fax 802-879-7103

56 Etna Road
Lebanon, NH 03766
Ph 603-678-4891
Fax 603-678-4893

315 New York Rd.
Plattsburgh, NY 12903
Ph 518-563-1720
Fax 518-563-0052

ENDYNE Inc.
Environmental Laboratories

Laboratory Report

WaiteHeindel Environmental Mgt 070338
7 Kilburn Street
Suite 301
Burlington, VT 05406
Atten: Miles Waite

PROJECT: NEWSVT LF UnderDrains
WORK ORDER: **1410-21182**
DATE RECEIVED: October 09, 2014
DATE REPORTED: October 17, 2014
SAMPLER: Wendy/SC

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. All required method quality control elements including instrument calibration were performed in accordance with method requirements and determined to be acceptable unless otherwise noted.

The column labeled Lab/Tech in the accompanying report denotes the laboratory facility where the testing was performed and the technician who conducted the assay. A "W" designates the Williston, VT lab under NELAC certification ELAP 11263; "R" designates the Lebanon, NH facility under certification NH 2037 and "N" the Plattsburgh, NY lab under certification ELAP 11892. "Sub" indicates the testing was performed by a subcontracted laboratory. The accreditation status of the subcontracted lab is referenced in the corresponding NELAC and Qual fields.

The NELAC column also denotes the accreditation status of each laboratory for each reported parameter. "A" indicates the referenced laboratory is NELAC accredited for the parameter reported. "N" indicates the laboratory is not accredited. "U" indicates that NELAC does not offer accreditation for that parameter in that specific matrix. Test results denoted with an "A" meet all National Environmental Laboratory Accreditation Program requirements except where denoted by pertinent data qualifiers. Test results are representative of the samples as they were received at the laboratory

Endyne, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose.

Reviewed by:

Harry B. Locker, Ph.D.
Laboratory Director

Laboratory Report

CLIENT: WaiteHeindel Environmental Mgt
PROJECT: NEWSVT LF UnderDrains
REPORT DATE: 10/17/2014

WORK ORDER: **1410-21182**
DATE RECEIVED: 10/09/2014

001 Site: Phase I Underdrain — Date Sampled: 10/8/14 — Time: 14:59

Parameter	Result	Units	Method	Analysis Date		Lab/Tech	NELAC	Qual.
BOD-5day	< 2.5	mg/L	SM 5210B(01)	10/9/14	15:04 W	JSS	A	
Chloride	42	mg/L	SM 4500-Cl-E	10/14/14		N JGM	A	
COD	23	mg/L	Hach8000/EPA410.4	10/14/14		N JGM	A	
Hardness, Total as CaCO3	729	mg/L	EPA 200.7	10/15/14		W RGT	A	
Antimony, Total	< 0.002	mg/L	SM 3113B-04	10/16/14		W CM	A	
Arsenic, Total	< 0.001	mg/L	SM 3113B-04	10/14/14		W CM	A	
Barium, Total	0.021	mg/L	EPA 200.7	10/14/14		W RGT	A	
Beryllium, Total	< 0.001	mg/L	EPA 200.7	10/14/14		W RGT	A	
Cadmium, Total	< 0.002	mg/L	EPA 200.7	10/14/14		W RGT	A	
Calcium, Total	160	mg/L	EPA 200.7	10/15/14		W RGT	A	
Chromium, Total	< 0.005	mg/L	EPA 200.7	10/14/14		W RGT	A	
Cobalt, Total	< 0.020	mg/L	EPA 200.7	10/14/14		W RGT	A	
Copper, Total	< 0.020	mg/L	EPA 200.7	10/14/14		W RGT	A	
Iron, Total	< 0.020	mg/L	EPA 200.7	10/14/14		W RGT	A	
Lead, Total	< 0.001	mg/L	SM 3113B-04	10/17/14		W CM	A	
Magnesium, Total	80	mg/L	EPA 200.7	10/15/14		W RGT	A	
Manganese, Total	< 0.020	mg/L	EPA 200.7	10/14/14		W RGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	10/14/14		W EER	A	
Molybdenum, Total	< 0.020	mg/L	EPA 200.7	10/14/14		W RGT	A	
Nickel, Total	0.006	mg/L	EPA 200.7	10/14/14		W RGT	A	
Selenium, Total	< 0.002	mg/L	SM20 3113B	10/14/14		W CM	A	
Sodium, Total	20	mg/L	EPA 200.7	10/14/14		W RGT	A	
Thallium, Total	< 0.001	mg/L	SM 3113B-04	10/15/14		W CM	A	
Vanadium, Total	< 0.020	mg/L	EPA 200.7	10/14/14		W RGT	A	
Zinc, Total	< 0.020	mg/L	EPA 200.7	10/14/14		W RGT	A	

002 Site: Phase II Underdrain — Date Sampled: 10/8/14 — Time: 15:10

Parameter	Result	Units	Method	Analysis Date		Lab/Tech	NELAC	Qual.
BOD-5day	< 2.5	mg/L	SM 5210B(01)	10/9/14	15:07 W	JSS	A	
Chloride	21	mg/L	SM 4500-Cl-E	10/14/14		N JGM	A	
COD	12	mg/L	Hach8000/EPA410.4	10/14/14		N JGM	A	
Hardness, Total as CaCO3	328	mg/L	EPA 200.7	10/15/14		W RGT	A	
Antimony, Total	< 0.002	mg/L	SM 3113B-04	10/16/14		W CM	A	
Arsenic, Total	0.004	mg/L	SM 3113B-04	10/14/14		W CM	A	
Barium, Total	0.036	mg/L	EPA 200.7	10/14/14		W RGT	A	
Beryllium, Total	< 0.001	mg/L	EPA 200.7	10/14/14		W RGT	A	
Cadmium, Total	< 0.002	mg/L	EPA 200.7	10/14/14		W RGT	A	
Calcium, Total	87	mg/L	EPA 200.7	10/14/14		W RGT	A	
Chromium, Total	< 0.005	mg/L	EPA 200.7	10/14/14		W RGT	A	
Cobalt, Total	< 0.020	mg/L	EPA 200.7	10/14/14		W RGT	A	
Copper, Total	< 0.020	mg/L	EPA 200.7	10/14/14		W RGT	A	
Iron, Total	0.84	mg/L	EPA 200.7	10/14/14		W RGT	A	
Lead, Total	< 0.001	mg/L	SM 3113B-04	10/17/14		W CM	A	

CLIENT: WaiteHeindel Environmental Mgt
PROJECT: NEWSVT LF UnderDrains
REPORT DATE: 10/17/2014

WORK ORDER: **1410-21182**
DATE RECEIVED: 10/09/2014

002 Site: Phase II Underdrain — Date Sampled: 10/8/14 — Time: 15:10

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Magnesium, Total	27	mg/L	EPA 200.7	10/15/14	W RGT	A	
Manganese, Total	0.98	mg/L	EPA 200.7	10/14/14	W RGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	10/14/14	W EER	A	
Molybdenum, Total	< 0.020	mg/L	EPA 200.7	10/14/14	W RGT	A	
Nickel, Total	0.014	mg/L	EPA 200.7	10/14/14	W RGT	A	
Selenium, Total	< 0.002	mg/L	SM20 3113B	10/14/14	W CM	A	
Sodium, Total	16	mg/L	EPA 200.7	10/14/14	W RGT	A	
Thallium, Total	< 0.001	mg/L	SM 3113B-04	10/15/14	W CM	A	
Vanadium, Total	< 0.020	mg/L	EPA 200.7	10/14/14	W RGT	A	
Zinc, Total	< 0.020	mg/L	EPA 200.7	10/14/14	W RGT	A	

003 Site: Phase III Underdrain — Date Sampled: 10/8/14 — Time: 16:03

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
BOD-5day	< 2.5	mg/L	SM 5210B(01)	10/9/14 15:10	W JSS	A	
Chloride	15	mg/L	SM 4500-Cl-E	10/14/14	N JGM	A	
COD	< 10	mg/L	Hach8000/EPA410.4	10/14/14	N JGM	A	
Hardness, Total as CaCO3	238	mg/L	EPA 200.7	10/15/14	W RGT	A	
Antimony, Total	< 0.002	mg/L	SM 3113B-04	10/16/14	W CM	A	
Arsenic, Total	0.003	mg/L	SM 3113B-04	10/14/14	W CM	A	
Barium, Total	0.042	mg/L	EPA 200.7	10/14/14	W RGT	A	
Beryllium, Total	< 0.001	mg/L	EPA 200.7	10/14/14	W RGT	A	
Cadmium, Total	< 0.002	mg/L	EPA 200.7	10/14/14	W RGT	A	
Calcium, Total	69	mg/L	EPA 200.7	10/14/14	W RGT	A	
Chromium, Total	< 0.005	mg/L	EPA 200.7	10/14/14	W RGT	A	
Cobalt, Total	< 0.020	mg/L	EPA 200.7	10/14/14	W RGT	A	
Copper, Total	< 0.020	mg/L	EPA 200.7	10/14/14	W RGT	A	
Iron, Total	< 0.020	mg/L	EPA 200.7	10/14/14	W RGT	A	
Lead, Total	< 0.001	mg/L	SM 3113B-04	10/17/14	W CM	A	
Magnesium, Total	16	mg/L	EPA 200.7	10/15/14	W RGT	A	
Manganese, Total	< 0.020	mg/L	EPA 200.7	10/14/14	W RGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	10/14/14	W EER	A	
Molybdenum, Total	< 0.020	mg/L	EPA 200.7	10/14/14	W RGT	A	
Nickel, Total	< 0.005	mg/L	EPA 200.7	10/14/14	W RGT	A	
Selenium, Total	< 0.002	mg/L	SM20 3113B	10/14/14	W CM	A	
Sodium, Total	7.4	mg/L	EPA 200.7	10/15/14	W RGT	A	
Thallium, Total	< 0.001	mg/L	SM 3113B-04	10/15/14	W CM	A	
Vanadium, Total	< 0.020	mg/L	EPA 200.7	10/14/14	W RGT	A	
Zinc, Total	< 0.020	mg/L	EPA 200.7	10/14/14	W RGT	A	

004 Site: Phase IV Underdrain — Date Sampled: 10/8/14 — Time: 15:55

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
BOD-5day	< 2.5	mg/L	SM 5210B(01)	10/9/14 15:56	W JSS	A	
Chloride	10	mg/L	SM 4500-Cl-E	10/14/14	N JGM	A	

CLIENT: WaiteHeindel Environmental Mgt
PROJECT: NEWSVT LF UnderDrains
REPORT DATE: 10/17/2014

WORK ORDER: **1410-21182**
DATE RECEIVED: 10/09/2014

004 Site: Phase IV Underdrain — Date Sampled: 10/8/14 — Time: 15:55

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
COD	19	mg/L	Hach8000/EPA410.4	10/14/14	N JGM	A	
Hardness, Total as CaCO3	267	mg/L	EPA 200.7	10/15/14	W RGT	A	
Antimony, Total	< 0.002	mg/L	SM 3113B-04	10/16/14	W CM	A	
Arsenic, Total	0.002	mg/L	SM 3113B-04	10/14/14	W CM	A	
Barium, Total	0.050	mg/L	EPA 200.7	10/14/14	W RGT	A	
Beryllium, Total	< 0.001	mg/L	EPA 200.7	10/14/14	W RGT	A	
Cadmium, Total	< 0.002	mg/L	EPA 200.7	10/14/14	W RGT	A	
Calcium, Total	74	mg/L	EPA 200.7	10/14/14	W RGT	A	
Chromium, Total	< 0.005	mg/L	EPA 200.7	10/14/14	W RGT	A	
Cobalt, Total	< 0.020	mg/L	EPA 200.7	10/14/14	W RGT	A	
Copper, Total	< 0.020	mg/L	EPA 200.7	10/14/14	W RGT	A	
Iron, Total	0.078	mg/L	EPA 200.7	10/14/14	W RGT	A	
Lead, Total	< 0.001	mg/L	SM 3113B-04	10/17/14	W CM	A	
Magnesium, Total	20	mg/L	EPA 200.7	10/15/14	W RGT	A	
Manganese, Total	0.088	mg/L	EPA 200.7	10/14/14	W RGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	10/14/14	W EER	A	
Molybdenum, Total	< 0.020	mg/L	EPA 200.7	10/14/14	W RGT	A	
Nickel, Total	< 0.005	mg/L	EPA 200.7	10/14/14	W RGT	A	
Selenium, Total	< 0.002	mg/L	SM20 3113B	10/14/14	W CM	A	
Sodium, Total	6.2	mg/L	EPA 200.7	10/15/14	W RGT	A	
Thallium, Total	< 0.001	mg/L	SM 3113B-04	10/15/14	W CM	A	
Vanadium, Total	< 0.020	mg/L	EPA 200.7	10/14/14	W RGT	A	
Zinc, Total	< 0.020	mg/L	EPA 200.7	10/14/14	W RGT	A	

CLIENT: WaiteHeindel Environmental Mgt
PROJECT: NEWSVT LF UnderDrains
REPORT DATE: 10/17/2014

WORK ORDER: **1410-21182**
DATE RECEIVED: 10/09/2014

TEST METHOD: EPA 8270D

001 Site: Phase I Underdrain — Sampled: 10/8/14 14:59 — Test Date: 10/13/14 W FAA

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Extraction EPA 3510C	Extracted		A		N-Nitrosodimethylamine	< 10.0	ug/L	A	
Pyridine	< 10.0	ug/L	A		Aniline	< 10.0	ug/L	N	
Bis(2-chloroethyl)ether	< 5.0	ug/L	A		1,2-Dichlorobenzene	< 2.0	ug/L	A	
1,3-Dichlorobenzene	< 2.0	ug/L	A		1,4-Dichlorobenzene	< 2.0	ug/L	A	
Benzyl alcohol	< 20.0	ug/L	N		Bis(2-chloroisopropyl)ether	< 10.0	ug/L	N	
N-Nitrosodi-n-propylamine	< 10.0	ug/L	A		Hexachloroethane	< 5.0	ug/L	A	
Nitrobenzene	< 5.0	ug/L	A		N-Nitrosopiperidine	< 10.0	ug/L	N	
Isophorone	< 2.0	ug/L	A		Bis(2-chloroethoxy)methane	< 5.0	ug/L	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	A		Naphthalene	< 1.0	ug/L	A	
4-Chloroaniline	< 5.0	ug/L	N		Hexachlorobutadiene	< 5.0	ug/L	A	
N-Nitrosodi-n-butylamine	< 5.0	ug/L	N		2-Methylnaphthalene	< 1.0	ug/L	A	
1-Methylnaphthalene	< 1.0	ug/L	U		Hexachlorocyclopentadiene	< 20.0	ug/L	A	
2-Chloronaphthalene	< 2.0	ug/L	A		1-Chloronaphthalene	< 2.0	ug/L	N	
2-Nitroaniline	< 20.0	ug/L	N		Dimethyl phthalate	< 5.0	ug/L	A	
2,6-Dinitrotoluene	< 5.0	ug/L	A		Acenaphthylene	< 1.0	ug/L	A	
3-Nitroaniline	< 5.0	ug/L	N		Acenaphthene	< 1.0	ug/L	A	
Dibenzofuran	< 2.0	ug/L	N		2,4-Dinitrotoluene	< 5.0	ug/L	A	
1-Naphthylamine	< 10.0	ug/L	N		2-Naphthylamine	< 10.0	ug/L	N	
Fluorene	< 1.0	ug/L	A		Diethyl phthalate	< 5.0	ug/L	A	
4-Chlorophenyl phenyl ether	< 2.0	ug/L	A		4-Nitroaniline	< 20.0	ug/L	N	
N-Nitrosodiphenylamine	< 5.0	ug/L	A		Azobenzene	< 5.0	ug/L	U	
4-Bromophenyl phenyl ether	< 2.0	ug/L	A		Hexachlorobenzene	< 5.0	ug/L	A	
Phenanthrene	< 1.0	ug/L	A		Anthracene	< 1.0	ug/L	A	
Carbazole	< 5.0	ug/L	N		Di-n-butylphthalate	< 10.0	ug/L	A	
Fluoranthene	< 1.0	ug/L	A		Benzidine	< 10.0	ug/L	A	
Pyrene	< 1.0	ug/L	A		Butyl benzyl phthalate	< 5.0	ug/L	A	
Benzo(a)anthracene	< 1.0	ug/L	A		Chrysene	< 1.0	ug/L	A	
3,3'-Dichlorobenzidine	< 5.0	ug/L	A		Bis(2-ethylhexyl)phthalate	< 5.0	ug/L	A	
Di-n-octylphthalate	< 5.0	ug/L	N		Benzo(b)fluoranthene	< 1.0	ug/L	A	
Benzo(k)fluoranthene	< 1.0	ug/L	A		Benzo(a)pyrene	< 1.0	ug/L	A	
Indeno(1,2,3-cd)pyrene	< 1.0	ug/L	A		Dibenzo(a,h)anthracene	< 1.0	ug/L	A	
Benzo(g,h,i)perylene	< 1.0	ug/L	A		Phenol	< 5.0	ug/L	A	
2-Chlorophenol	< 5.0	ug/L	A		2-Methylphenol (o-cresol)	< 5.0	ug/L	A	
3&4-Methylphenol (m&p-cresol)	< 5.0	ug/L	A		Cresols, Total	< 10.0	ug/L	A	
2-Nitrophenol	< 10.0	ug/L	A		2,4-Dimethylphenol	< 5.0	ug/L	A	
2,4-Dichlorophenol	< 5.0	ug/L	A		2,6-Dichlorophenol	< 5.0	ug/L	N	
4-Chloro-3-methylphenol	< 10.0	ug/L	A		2,4,5-Trichlorophenol	< 10.0	ug/L	A	
2,4,6-Trichlorophenol	< 10.0	ug/L	A		2,4-Dinitrophenol	< 20.0	ug/L	A	
4-Nitrophenol	< 10.0	ug/L	A		4,6-Dinitro-2-methylphenol	< 20.0	ug/L	A	
Pentachlorophenol	< 10.0	ug/L	A		BaP Toxic Equiv. Quotient	< 2.3	ug/L	U	
B/N Surr.1 Nitrobenzene-d5	72	%	N		B/N Surr.2 2-Fluorobiphenyl	77	%	N	
B/N Surr.3 Terphenyl-d14	99	%	N		Acid Surr.1 2-Fluorophenol	35	%	N	
Acid Surr.2 Phenol-d8	26	%	N		Acid Surr.3 Tribromophenol	83	%	N	
Unidentified Peaks	0		U						

CLIENT: WaiteHeindel Environmental Mgt
PROJECT: NEWSVT LF UnderDrains
REPORT DATE: 10/17/2014

WORK ORDER: **1410-21182**
DATE RECEIVED: 10/09/2014

TEST METHOD: EPA 8260C

001 Site: Phase I Underdrain — Sampled: 10/8/14 14:59 — Test Date: 10/13/14 W MHM

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Dichlorodifluoromethane	< 5.0	ug/L	A		Chloromethane	< 3.0	ug/L	N	
Vinyl chloride	< 2.0	ug/L	A		Bromomethane	< 5.0	ug/L	A	
Chloroethane	< 5.0	ug/L	A		Trichlorofluoromethane	< 2.0	ug/L	A	
Diethyl ether	< 5.0	ug/L	N		1,1-Dichloroethene	< 1.0	ug/L	A	
Acetone	< 10.0	ug/L	A		Carbon disulfide	< 5.0	ug/L	A	
Methylene chloride	< 5.0	ug/L	A		t-Butanol	< 20.0	ug/L	N	
Methyl-t-butyl ether (MTBE)	< 2.0	ug/L	A		trans-1,2-Dichloroethene	< 1.0	ug/L	A	
Di-isopropyl ether (DIPE)	< 2.0	ug/L	N		1,1-Dichloroethane	< 1.0	ug/L	A	
Ethyl-t-butyl ether (ETBE)	< 2.0	ug/L	N		2-Butanone	< 10.0	ug/L	A	
2,2-Dichloropropane	< 2.0	ug/L	N		cis-1,2-Dichloroethene	< 1.0	ug/L	N	
Bromochloromethane	< 2.0	ug/L	N		Chloroform	< 1.0	ug/L	A	
Tetrahydrofuran	< 10.0	ug/L	U		1,1,1-Trichloroethane	< 1.0	ug/L	A	
Carbon tetrachloride	< 1.0	ug/L	A		1,1-Dichloropropene	< 1.0	ug/L	N	
Benzene	< 1.0	ug/L	A		t-Amylmethyl ether (TAME)	< 2.0	ug/L	N	
1,2-Dichloroethane	< 1.0	ug/L	A		Trichloroethene	< 1.0	ug/L	A	
1,2-Dichloropropane	< 2.0	ug/L	A		Dibromomethane	< 2.0	ug/L	N	
Bromodichloromethane	< 0.5	ug/L	A		cis-1,3-Dichloropropene	< 1.0	ug/L	A	
4-Methyl-2-pentanone (MIBK)	< 10.0	ug/L	N		Toluene	< 1.0	ug/L	A	
trans-1,3-Dichloropropene	< 1.0	ug/L	A		1,1,2-Trichloroethane	< 1.0	ug/L	A	
Tetrachloroethene	< 1.0	ug/L	A		1,3-Dichloropropane	< 1.0	ug/L	N	
2-Hexanone	< 10.0	ug/L	N		Dibromochloromethane	< 2.0	ug/L	A	
1,2-Dibromoethane	< 1.0	ug/L	A		Chlorobenzene	< 1.0	ug/L	A	
Ethylbenzene	< 1.0	ug/L	A		1,1,1,2-Tetrachloroethane	< 2.0	ug/L	A	
Xylenes, Total	< 2.0	ug/L	A		Styrene	< 1.0	ug/L	N	
Bromoform	< 2.0	ug/L	A		Isopropylbenzene	< 1.0	ug/L	A	
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	A		Bromobenzene	< 1.0	ug/L	N	
n-Propylbenzene	< 1.0	ug/L	A		1,2,3-Trichloropropane	< 2.0	ug/L	N	
2-Chlorotoluene	< 1.0	ug/L	N		1,3,5-Trimethylbenzene	< 1.0	ug/L	A	
4-Chlorotoluene	< 1.0	ug/L	N		t-Butylbenzene	< 1.0	ug/L	A	
1,2,4-Trimethylbenzene	< 1.0	ug/L	A		s-Butylbenzene	< 1.0	ug/L	N	
4-Isopropyltoluene	< 1.0	ug/L	A		1,3-Dichlorobenzene	< 1.0	ug/L	A	
1,4-Dichlorobenzene	< 1.0	ug/L	A		n-Butylbenzene	< 1.0	ug/L	A	
1,2-Dichlorobenzene	< 1.0	ug/L	A		1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	A		1,3,5-Trichlorobenzene	< 2.0	ug/L	N	
Hexachlorobutadiene	< 0.5	ug/L	N		Naphthalene	< 2.0	ug/L	A	
1,2,3-Trichlorobenzene	< 2.0	ug/L	N		Surr. 1 (Dibromofluoromethane)	106	%	N	
Surr. 3 (4-Bromofluorobenzene)	103	%	N		Surr. 2 (Toluene d8)	106	%	N	
Unidentified Peaks	0		U						

CLIENT: WaiteHeindel Environmental Mgt
PROJECT: NEWSVT LF UnderDrains
REPORT DATE: 10/17/2014

WORK ORDER: **1410-21182**
DATE RECEIVED: 10/09/2014

TEST METHOD: EPA 8270D

002 Site: Phase II Underdrain — Sampled: 10/8/14 15:10 — Test Date: 10/13/14 W FAA

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Extraction EPA 3510C	Extracted		A		N-Nitrosodimethylamine	< 10.0	ug/L	A	
Pyridine	< 10.0	ug/L	A		Aniline	< 10.0	ug/L	N	
Bis(2-chloroethyl)ether	< 5.0	ug/L	A		1,2-Dichlorobenzene	< 2.0	ug/L	A	
1,3-Dichlorobenzene	< 2.0	ug/L	A		1,4-Dichlorobenzene	< 2.0	ug/L	A	
Benzyl alcohol	< 20.0	ug/L	N		Bis(2-chloroisopropyl)ether	< 10.0	ug/L	N	
N-Nitrosodi-n-propylamine	< 10.0	ug/L	A		Hexachloroethane	< 5.0	ug/L	A	
Nitrobenzene	< 5.0	ug/L	A		N-Nitrosopiperidine	< 10.0	ug/L	N	
Isophorone	< 2.0	ug/L	A		Bis(2-chloroethoxy)methane	< 5.0	ug/L	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	A		Naphthalene	< 1.0	ug/L	A	
4-Chloroaniline	< 5.0	ug/L	N		Hexachlorobutadiene	< 5.0	ug/L	A	
N-Nitrosodi-n-butylamine	< 5.0	ug/L	N		2-Methylnaphthalene	< 1.0	ug/L	A	
1-Methylnaphthalene	< 1.0	ug/L	U		Hexachlorocyclopentadiene	< 20.0	ug/L	A	
2-Chloronaphthalene	< 2.0	ug/L	A		1-Chloronaphthalene	< 2.0	ug/L	N	
2-Nitroaniline	< 20.0	ug/L	N		Dimethyl phthalate	< 5.0	ug/L	A	
2,6-Dinitrotoluene	< 5.0	ug/L	A		Acenaphthylene	< 1.0	ug/L	A	
3-Nitroaniline	< 5.0	ug/L	N		Acenaphthene	< 1.0	ug/L	A	
Dibenzofuran	< 2.0	ug/L	N		2,4-Dinitrotoluene	< 5.0	ug/L	A	
1-Naphthylamine	< 10.0	ug/L	N		2-Naphthylamine	< 10.0	ug/L	N	
Fluorene	< 1.0	ug/L	A		Diethyl phthalate	< 5.0	ug/L	A	
4-Chlorophenyl phenyl ether	< 2.0	ug/L	A		4-Nitroaniline	< 20.0	ug/L	N	
N-Nitrosodiphenylamine	< 5.0	ug/L	A		Azobenzene	< 5.0	ug/L	U	
4-Bromophenyl phenyl ether	< 2.0	ug/L	A		Hexachlorobenzene	< 5.0	ug/L	A	
Phenanthrene	< 1.0	ug/L	A		Anthracene	< 1.0	ug/L	A	
Carbazole	< 5.0	ug/L	N		Di-n-butylphthalate	< 10.0	ug/L	A	
Fluoranthene	< 1.0	ug/L	A		Benzidine	< 10.0	ug/L	A	
Pyrene	< 1.0	ug/L	A		Butyl benzyl phthalate	< 5.0	ug/L	A	
Benzo(a)anthracene	< 1.0	ug/L	A		Chrysene	< 1.0	ug/L	A	
3,3'-Dichlorobenzidine	< 5.0	ug/L	A		Bis(2-ethylhexyl)phthalate	< 5.0	ug/L	A	
Di-n-octylphthalate	< 5.0	ug/L	N		Benzo(b)fluoranthene	< 1.0	ug/L	A	
Benzo(k)fluoranthene	< 1.0	ug/L	A		Benzo(a)pyrene	< 1.0	ug/L	A	
Indeno(1,2,3-cd)pyrene	< 1.0	ug/L	A		Dibenzo(a,h)anthracene	< 1.0	ug/L	A	
Benzo(g,h,i)perylene	< 1.0	ug/L	A		Phenol	< 5.0	ug/L	A	
2-Chlorophenol	< 5.0	ug/L	A		2-Methylphenol (o-cresol)	< 5.0	ug/L	A	
3&4-Methylphenol (m&p-cresol)	< 5.0	ug/L	A		Cresols, Total	< 10.0	ug/L	A	
2-Nitrophenol	< 10.0	ug/L	A		2,4-Dimethylphenol	< 5.0	ug/L	A	
2,4-Dichlorophenol	< 5.0	ug/L	A		2,6-Dichlorophenol	< 5.0	ug/L	N	
4-Chloro-3-methylphenol	< 10.0	ug/L	A		2,4,5-Trichlorophenol	< 10.0	ug/L	A	
2,4,6-Trichlorophenol	< 10.0	ug/L	A		2,4-Dinitrophenol	< 20.0	ug/L	A	
4-Nitrophenol	< 10.0	ug/L	A		4,6-Dinitro-2-methylphenol	< 20.0	ug/L	A	
Pentachlorophenol	< 10.0	ug/L	A		BaP Toxic Equiv. Quotient	< 2.3	ug/L	U	
B/N Surr.1 Nitrobenzene-d5	72	%	N		B/N Surr.2 2-Fluorobiphenyl	78	%	N	
B/N Surr.3 Terphenyl-d14	93	%	N		Acid Surr.1 2-Fluorophenol	36	%	N	
Acid Surr.2 Phenol-d8	25	%	N		Acid Surr.3 Tribromophenol	89	%	N	
Unidentified Peaks	0		U						

CLIENT: WaiteHeindel Environmental Mgt
PROJECT: NEWSVT LF UnderDrains
REPORT DATE: 10/17/2014

WORK ORDER: **1410-21182**
DATE RECEIVED: 10/09/2014

TEST METHOD: EPA 8260C

002 Site: Phase II Underdrain Sampled: 10/8/14 15:10 Test Date: 10/13/14 W MHM

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Dichlorodifluoromethane	< 5.0	ug/L	A		Chloromethane	< 3.0	ug/L	N	
Vinyl chloride	< 2.0	ug/L	A		Bromomethane	< 5.0	ug/L	A	
Chloroethane	< 5.0	ug/L	A		Trichlorofluoromethane	< 2.0	ug/L	A	
Diethyl ether	5.3	ug/L	N		1,1-Dichloroethene	< 1.0	ug/L	A	
Acetone	< 10.0	ug/L	A		Carbon disulfide	< 5.0	ug/L	A	
Methylene chloride	< 5.0	ug/L	A		t-Butanol	< 20.0	ug/L	N	
Methyl-t-butyl ether (MTBE)	< 2.0	ug/L	A		trans-1,2-Dichloroethene	< 1.0	ug/L	A	
Di-isopropyl ether (DIPE)	< 2.0	ug/L	N		1,1-Dichloroethane	< 1.0	ug/L	A	
Ethyl-t-butyl ether (ETBE)	< 2.0	ug/L	N		2-Butanone	< 10.0	ug/L	A	
2,2-Dichloropropane	< 2.0	ug/L	N		cis-1,2-Dichloroethene	< 1.0	ug/L	N	
Bromochloromethane	< 2.0	ug/L	N		Chloroform	< 1.0	ug/L	A	
Tetrahydrofuran	< 10.0	ug/L	U		1,1,1-Trichloroethane	< 1.0	ug/L	A	
Carbon tetrachloride	< 1.0	ug/L	A		1,1-Dichloropropene	< 1.0	ug/L	N	
Benzene	< 1.0	ug/L	A		t-Amylmethyl ether (TAME)	< 2.0	ug/L	N	
1,2-Dichloroethane	< 1.0	ug/L	A		Trichloroethene	< 1.0	ug/L	A	
1,2-Dichloropropane	< 2.0	ug/L	A		Dibromomethane	< 2.0	ug/L	N	
Bromodichloromethane	< 0.5	ug/L	A		cis-1,3-Dichloropropene	< 1.0	ug/L	A	
4-Methyl-2-pentanone (MIBK)	< 10.0	ug/L	N		Toluene	< 1.0	ug/L	A	
trans-1,3-Dichloropropene	< 1.0	ug/L	A		1,1,2-Trichloroethane	< 1.0	ug/L	A	
Tetrachloroethene	< 1.0	ug/L	A		1,3-Dichloropropane	< 1.0	ug/L	N	
2-Hexanone	< 10.0	ug/L	N		Dibromochloromethane	< 2.0	ug/L	A	
1,2-Dibromoethane	< 1.0	ug/L	A		Chlorobenzene	< 1.0	ug/L	A	
Ethylbenzene	< 1.0	ug/L	A		1,1,1,2-Tetrachloroethane	< 2.0	ug/L	A	
Xylenes, Total	< 2.0	ug/L	A		Styrene	< 1.0	ug/L	N	
Bromoform	< 2.0	ug/L	A		Isopropylbenzene	< 1.0	ug/L	A	
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	A		Bromobenzene	< 1.0	ug/L	N	
n-Propylbenzene	< 1.0	ug/L	A		1,2,3-Trichloropropane	< 2.0	ug/L	N	
2-Chlorotoluene	< 1.0	ug/L	N		1,3,5-Trimethylbenzene	< 1.0	ug/L	A	
4-Chlorotoluene	< 1.0	ug/L	N		t-Butylbenzene	< 1.0	ug/L	A	
1,2,4-Trimethylbenzene	< 1.0	ug/L	A		s-Butylbenzene	< 1.0	ug/L	N	
4-Isopropyltoluene	< 1.0	ug/L	A		1,3-Dichlorobenzene	< 1.0	ug/L	A	
1,4-Dichlorobenzene	< 1.0	ug/L	A		n-Butylbenzene	< 1.0	ug/L	A	
1,2-Dichlorobenzene	< 1.0	ug/L	A		1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	A		1,3,5-Trichlorobenzene	< 2.0	ug/L	N	
Hexachlorobutadiene	< 0.5	ug/L	N		Naphthalene	< 2.0	ug/L	A	
1,2,3-Trichlorobenzene	< 2.0	ug/L	N		Surr. 1 (Dibromofluoromethane)	107	%	N	
Surr. 2 (Toluene d8)	109	%	N		Surr. 3 (4-Bromofluorobenzene)	104	%	N	
Unidentified Peaks	0		U						

CLIENT: WaiteHeindel Environmental Mgt
PROJECT: NEWSVT LF UnderDrains
REPORT DATE: 10/17/2014

WORK ORDER: **1410-21182**
DATE RECEIVED: 10/09/2014

TEST METHOD: EPA 8270D

003 Site: Phase III Underdrain — Sampled: 10/8/14 16:03 — Test Date: 10/14/14 W FAA

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Extraction EPA 3510C	Extracted		A		N-Nitrosodimethylamine	< 10.0	ug/L	A	
Pyridine	< 10.0	ug/L	A		Aniline	< 10.0	ug/L	N	
Bis(2-chloroethyl)ether	< 5.0	ug/L	A		1,2-Dichlorobenzene	< 2.0	ug/L	A	
1,3-Dichlorobenzene	< 2.0	ug/L	A		1,4-Dichlorobenzene	< 2.0	ug/L	A	
Benzyl alcohol	< 20.0	ug/L	N		Bis(2-chloroisopropyl)ether	< 10.0	ug/L	N	
N-Nitrosodi-n-propylamine	< 10.0	ug/L	A		Hexachloroethane	< 5.0	ug/L	A	
Nitrobenzene	< 5.0	ug/L	A		N-Nitrosopiperidine	< 10.0	ug/L	N	
Isophorone	< 2.0	ug/L	A		Bis(2-chloroethoxy)methane	< 5.0	ug/L	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	A		Naphthalene	< 1.0	ug/L	A	
4-Chloroaniline	< 5.0	ug/L	N		Hexachlorobutadiene	< 5.0	ug/L	A	
N-Nitrosodi-n-butylamine	< 5.0	ug/L	N		2-Methylnaphthalene	< 1.0	ug/L	A	
1-Methylnaphthalene	< 1.0	ug/L	U		Hexachlorocyclopentadiene	< 20.0	ug/L	A	
2-Chloronaphthalene	< 2.0	ug/L	A		1-Chloronaphthalene	< 2.0	ug/L	N	
2-Nitroaniline	< 20.0	ug/L	N		Dimethyl phthalate	< 5.0	ug/L	A	
2,6-Dinitrotoluene	< 5.0	ug/L	A		Acenaphthylene	< 1.0	ug/L	A	
3-Nitroaniline	< 5.0	ug/L	N		Acenaphthene	< 1.0	ug/L	A	
Dibenzofuran	< 2.0	ug/L	N		2,4-Dinitrotoluene	< 5.0	ug/L	A	
1-Naphthylamine	< 10.0	ug/L	N		2-Naphthylamine	< 10.0	ug/L	N	
Fluorene	< 1.0	ug/L	A		Diethyl phthalate	< 5.0	ug/L	A	
4-Chlorophenyl phenyl ether	< 2.0	ug/L	A		4-Nitroaniline	< 20.0	ug/L	N	
N-Nitrosodiphenylamine	< 5.0	ug/L	A		Azobenzene	< 5.0	ug/L	U	
4-Bromophenyl phenyl ether	< 2.0	ug/L	A		Hexachlorobenzene	< 5.0	ug/L	A	
Phenanthrene	< 1.0	ug/L	A		Anthracene	< 1.0	ug/L	A	
Carbazole	< 5.0	ug/L	N		Di-n-butylphthalate	< 10.0	ug/L	A	
Fluoranthene	< 1.0	ug/L	A		Benzidine	< 10.0	ug/L	A	
Pyrene	< 1.0	ug/L	A		Butyl benzyl phthalate	< 5.0	ug/L	A	
Benzo(a)anthracene	< 1.0	ug/L	A		Chrysene	< 1.0	ug/L	A	
3,3'-Dichlorobenzidine	< 5.0	ug/L	A		Bis(2-ethylhexyl)phthalate	< 5.0	ug/L	A	
Di-n-octylphthalate	< 5.0	ug/L	N		Benzo(b)fluoranthene	< 1.0	ug/L	A	
Benzo(k)fluoranthene	< 1.0	ug/L	A		Benzo(a)pyrene	< 1.0	ug/L	A	
Indeno(1,2,3-cd)pyrene	< 1.0	ug/L	A		Dibenzo(a,h)anthracene	< 1.0	ug/L	A	
Benzo(g,h,i)perylene	< 1.0	ug/L	A		Phenol	< 5.0	ug/L	A	
2-Chlorophenol	< 5.0	ug/L	A		2-Methylphenol (o-cresol)	< 5.0	ug/L	A	
3&4-Methylphenol (m&p-cresol)	< 5.0	ug/L	A		Cresols, Total	< 10.0	ug/L	A	
2-Nitrophenol	< 10.0	ug/L	A		2,4-Dimethylphenol	< 5.0	ug/L	A	
2,4-Dichlorophenol	< 5.0	ug/L	A		2,6-Dichlorophenol	< 5.0	ug/L	N	
4-Chloro-3-methylphenol	< 10.0	ug/L	A		2,4,5-Trichlorophenol	< 10.0	ug/L	A	
2,4,6-Trichlorophenol	< 10.0	ug/L	A		2,4-Dinitrophenol	< 20.0	ug/L	A	
4-Nitrophenol	< 10.0	ug/L	A		4,6-Dinitro-2-methylphenol	< 20.0	ug/L	A	
Pentachlorophenol	< 10.0	ug/L	A		BaP Toxic Equiv. Quotient	< 2.3	ug/L	U	
B/N Surr.1 Nitrobenzene-d5	65	%	N		B/N Surr.2 2-Fluorobiphenyl	74	%	N	
B/N Surr.3 Terphenyl-d14	91	%	N		Acid Surr.1 2-Fluorophenol	29	%	N	
Acid Surr.2 Phenol-d8	24	%	N		Acid Surr.3 Tribromophenol	84	%	N	
Unidentified Peaks	0		U						

CLIENT: WaiteHeindel Environmental Mgt
PROJECT: NEWSVT LF UnderDrains
REPORT DATE: 10/17/2014

WORK ORDER: **1410-21182**
DATE RECEIVED: 10/09/2014

TEST METHOD: EPA 8260C

003 Site: Phase III Underdrain Sampled: 10/8/14 16:03 Test Date: 10/13/14 W MHM

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Dichlorodifluoromethane	< 5.0	ug/L	A		Chloromethane	< 3.0	ug/L	N	
Vinyl chloride	< 2.0	ug/L	A		Bromomethane	< 5.0	ug/L	A	
Chloroethane	< 5.0	ug/L	A		Trichlorofluoromethane	< 2.0	ug/L	A	
Diethyl ether	< 5.0	ug/L	N		1,1-Dichloroethene	< 1.0	ug/L	A	
Acetone	< 10.0	ug/L	A		Carbon disulfide	< 5.0	ug/L	A	
Methylene chloride	< 5.0	ug/L	A		t-Butanol	< 20.0	ug/L	N	
Methyl-t-butyl ether (MTBE)	< 2.0	ug/L	A		trans-1,2-Dichloroethene	< 1.0	ug/L	A	
Di-isopropyl ether (DIPE)	< 2.0	ug/L	N		1,1-Dichloroethane	< 1.0	ug/L	A	
Ethyl-t-butyl ether (ETBE)	< 2.0	ug/L	N		2-Butanone	< 10.0	ug/L	A	
2,2-Dichloropropane	< 2.0	ug/L	N		cis-1,2-Dichloroethene	< 1.0	ug/L	N	
Bromochloromethane	< 2.0	ug/L	N		Chloroform	< 1.0	ug/L	A	
Tetrahydrofuran	< 10.0	ug/L	U		1,1,1-Trichloroethane	< 1.0	ug/L	A	
Carbon tetrachloride	< 1.0	ug/L	A		1,1-Dichloropropene	< 1.0	ug/L	N	
Benzene	< 1.0	ug/L	A		t-Amylmethyl ether (TAME)	< 2.0	ug/L	N	
1,2-Dichloroethane	< 1.0	ug/L	A		Trichloroethene	< 1.0	ug/L	A	
1,2-Dichloropropane	< 2.0	ug/L	A		Dibromomethane	< 2.0	ug/L	N	
Bromodichloromethane	< 0.5	ug/L	A		cis-1,3-Dichloropropene	< 1.0	ug/L	A	
4-Methyl-2-pentanone (MIBK)	< 10.0	ug/L	N		Toluene	< 1.0	ug/L	A	
trans-1,3-Dichloropropene	< 1.0	ug/L	A		1,1,2-Trichloroethane	< 1.0	ug/L	A	
Tetrachloroethene	< 1.0	ug/L	A		1,3-Dichloropropane	< 1.0	ug/L	N	
2-Hexanone	< 10.0	ug/L	N		Dibromochloromethane	< 2.0	ug/L	A	
1,2-Dibromoethane	< 1.0	ug/L	A		Chlorobenzene	< 1.0	ug/L	A	
Ethylbenzene	< 1.0	ug/L	A		1,1,1,2-Tetrachloroethane	< 2.0	ug/L	A	
Xylenes, Total	< 2.0	ug/L	A		Styrene	< 1.0	ug/L	N	
Bromoform	< 2.0	ug/L	A		Isopropylbenzene	< 1.0	ug/L	A	
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	A		Bromobenzene	< 1.0	ug/L	N	
n-Propylbenzene	< 1.0	ug/L	A		1,2,3-Trichloropropane	< 2.0	ug/L	N	
2-Chlorotoluene	< 1.0	ug/L	N		1,3,5-Trimethylbenzene	< 1.0	ug/L	A	
4-Chlorotoluene	< 1.0	ug/L	N		t-Butylbenzene	< 1.0	ug/L	A	
1,2,4-Trimethylbenzene	< 1.0	ug/L	A		s-Butylbenzene	< 1.0	ug/L	N	
4-Isopropyltoluene	< 1.0	ug/L	A		1,3-Dichlorobenzene	< 1.0	ug/L	A	
1,4-Dichlorobenzene	< 1.0	ug/L	A		n-Butylbenzene	< 1.0	ug/L	A	
1,2-Dichlorobenzene	< 1.0	ug/L	A		1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	A		1,3,5-Trichlorobenzene	< 2.0	ug/L	N	
Hexachlorobutadiene	< 0.5	ug/L	N		Naphthalene	< 2.0	ug/L	A	
1,2,3-Trichlorobenzene	< 2.0	ug/L	N		Surr. 1 (Dibromofluoromethane)	108	%	N	
Surr. 2 (Toluene d8)	104	%	N		Surr. 3 (4-Bromofluorobenzene)	102	%	N	
Unidentified Peaks	0		U						

CLIENT: WaiteHeindel Environmental Mgt
PROJECT: NEWSVT LF UnderDrains
REPORT DATE: 10/17/2014

WORK ORDER: **1410-21182**
DATE RECEIVED: 10/09/2014

TEST METHOD: EPA 8270D

004 Site: Phase IV Underdrain — Sampled: 10/8/14 15:55 — Test Date: 10/14/14 W FAA

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Extraction EPA 3510C	Extracted		A		N-Nitrosodimethylamine	< 10.0	ug/L	A	
Pyridine	< 10.0	ug/L	A		Aniline	< 10.0	ug/L	N	
Bis(2-chloroethyl)ether	< 5.0	ug/L	A		1,2-Dichlorobenzene	< 2.0	ug/L	A	
1,3-Dichlorobenzene	< 2.0	ug/L	A		1,4-Dichlorobenzene	< 2.0	ug/L	A	
Benzyl alcohol	< 20.0	ug/L	N		Bis(2-chloroisopropyl)ether	< 10.0	ug/L	N	
N-Nitrosodi-n-propylamine	< 10.0	ug/L	A		Hexachloroethane	< 5.0	ug/L	A	
Nitrobenzene	< 5.0	ug/L	A		N-Nitrosopiperidine	< 10.0	ug/L	N	
Isophorone	< 2.0	ug/L	A		Bis(2-chloroethoxy)methane	< 5.0	ug/L	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	A		Naphthalene	< 1.0	ug/L	A	
4-Chloroaniline	< 5.0	ug/L	N		Hexachlorobutadiene	< 5.0	ug/L	A	
N-Nitrosodi-n-butylamine	< 5.0	ug/L	N		2-Methylnaphthalene	< 1.0	ug/L	A	
1-Methylnaphthalene	< 1.0	ug/L	U		Hexachlorocyclopentadiene	< 20.0	ug/L	A	
2-Chloronaphthalene	< 2.0	ug/L	A		1-Chloronaphthalene	< 2.0	ug/L	N	
2-Nitroaniline	< 20.0	ug/L	N		Dimethyl phthalate	< 5.0	ug/L	A	
2,6-Dinitrotoluene	< 5.0	ug/L	A		Acenaphthylene	< 1.0	ug/L	A	
3-Nitroaniline	< 5.0	ug/L	N		Acenaphthene	< 1.0	ug/L	A	
Dibenzofuran	< 2.0	ug/L	N		2,4-Dinitrotoluene	< 5.0	ug/L	A	
1-Naphthylamine	< 10.0	ug/L	N		2-Naphthylamine	< 10.0	ug/L	N	
Fluorene	< 1.0	ug/L	A		Diethyl phthalate	< 5.0	ug/L	A	
4-Chlorophenyl phenyl ether	< 2.0	ug/L	A		4-Nitroaniline	< 20.0	ug/L	N	
N-Nitrosodiphenylamine	< 5.0	ug/L	A		Azobenzene	< 5.0	ug/L	U	
4-Bromophenyl phenyl ether	< 2.0	ug/L	A		Hexachlorobenzene	< 5.0	ug/L	A	
Phenanthrene	< 1.0	ug/L	A		Anthracene	< 1.0	ug/L	A	
Carbazole	< 5.0	ug/L	N		Di-n-butylphthalate	< 10.0	ug/L	A	
Fluoranthene	< 1.0	ug/L	A		Benzidine	< 10.0	ug/L	A	
Pyrene	< 1.0	ug/L	A		Butyl benzyl phthalate	< 5.0	ug/L	A	
Benzo(a)anthracene	< 1.0	ug/L	A		Chrysene	< 1.0	ug/L	A	
3,3'-Dichlorobenzidine	< 5.0	ug/L	A		Bis(2-ethylhexyl)phthalate	< 5.0	ug/L	A	
Di-n-octylphthalate	< 5.0	ug/L	N		Benzo(b)fluoranthene	< 1.0	ug/L	A	
Benzo(k)fluoranthene	< 1.0	ug/L	A		Benzo(a)pyrene	< 1.0	ug/L	A	
Indeno(1,2,3-cd)pyrene	< 1.0	ug/L	A		Dibenzo(a,h)anthracene	< 1.0	ug/L	A	
Benzo(g,h,i)perylene	< 1.0	ug/L	A		Phenol	< 5.0	ug/L	A	
2-Chlorophenol	< 5.0	ug/L	A		2-Methylphenol (o-cresol)	< 5.0	ug/L	A	
3&4-Methylphenol (m&p-cresol)	< 5.0	ug/L	A		Cresols, Total	< 10.0	ug/L	A	
2-Nitrophenol	< 10.0	ug/L	A		2,4-Dimethylphenol	< 5.0	ug/L	A	
2,4-Dichlorophenol	< 5.0	ug/L	A		2,6-Dichlorophenol	< 5.0	ug/L	N	
4-Chloro-3-methylphenol	< 10.0	ug/L	A		2,4,5-Trichlorophenol	< 10.0	ug/L	A	
2,4,6-Trichlorophenol	< 10.0	ug/L	A		2,4-Dinitrophenol	< 20.0	ug/L	A	
4-Nitrophenol	< 10.0	ug/L	A		4,6-Dinitro-2-methylphenol	< 20.0	ug/L	A	
Pentachlorophenol	< 10.0	ug/L	A		BaP Toxic Equiv. Quotient	< 2.3	ug/L	U	
B/N Surr.1 Nitrobenzene-d5	64	%	N		B/N Surr.2 2-Fluorobiphenyl	74	%	N	
B/N Surr.3 Terphenyl-d14	91	%	N		Acid Surr.1 2-Fluorophenol	28	%	N	
Acid Surr.2 Phenol-d8	22	%	N		Acid Surr.3 Tribromophenol	83	%	N	
Unidentified Peaks	0		U						

CLIENT: WaiteHeindel Environmental Mgt
PROJECT: NEWSVT LF UnderDrains
REPORT DATE: 10/17/2014

WORK ORDER: **1410-21182**
DATE RECEIVED: 10/09/2014

TEST METHOD: EPA 8260C

004 Site: Phase IV Underdrain Sampled: 10/8/14 15:55 Test Date: 10/13/14 W MHM

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Dichlorodifluoromethane	< 5.0	ug/L	A		Chloromethane	< 3.0	ug/L	N	
Vinyl chloride	< 2.0	ug/L	A		Bromomethane	< 5.0	ug/L	A	
Chloroethane	< 5.0	ug/L	A		Trichlorofluoromethane	< 2.0	ug/L	A	
Diethyl ether	< 5.0	ug/L	N		1,1-Dichloroethene	< 1.0	ug/L	A	
Acetone	< 10.0	ug/L	A		Carbon disulfide	< 5.0	ug/L	A	
Methylene chloride	< 5.0	ug/L	A		t-Butanol	< 20.0	ug/L	N	
Methyl-t-butyl ether (MTBE)	< 2.0	ug/L	A		trans-1,2-Dichloroethene	< 1.0	ug/L	A	
Di-isopropyl ether (DIPE)	< 2.0	ug/L	N		1,1-Dichloroethane	< 1.0	ug/L	A	
Ethyl-t-butyl ether (ETBE)	< 2.0	ug/L	N		2-Butanone	< 10.0	ug/L	A	
2,2-Dichloropropane	< 2.0	ug/L	N		cis-1,2-Dichloroethene	< 1.0	ug/L	N	
Bromochloromethane	< 2.0	ug/L	N		Chloroform	< 1.0	ug/L	A	
Tetrahydrofuran	< 10.0	ug/L	U		1,1,1-Trichloroethane	< 1.0	ug/L	A	
Carbon tetrachloride	< 1.0	ug/L	A		1,1-Dichloropropene	< 1.0	ug/L	N	
Benzene	< 1.0	ug/L	A		t-Amylmethyl ether (TAME)	< 2.0	ug/L	N	
1,2-Dichloroethane	< 1.0	ug/L	A		Trichloroethene	< 1.0	ug/L	A	
1,2-Dichloropropane	< 2.0	ug/L	A		Dibromomethane	< 2.0	ug/L	N	
Bromodichloromethane	< 0.5	ug/L	A		cis-1,3-Dichloropropene	< 1.0	ug/L	A	
4-Methyl-2-pentanone (MIBK)	< 10.0	ug/L	N		Toluene	< 1.0	ug/L	A	
trans-1,3-Dichloropropene	< 1.0	ug/L	A		1,1,2-Trichloroethane	< 1.0	ug/L	A	
Tetrachloroethene	< 1.0	ug/L	A		1,3-Dichloropropane	< 1.0	ug/L	N	
2-Hexanone	< 10.0	ug/L	N		Dibromochloromethane	< 2.0	ug/L	A	
1,2-Dibromoethane	< 1.0	ug/L	A		Chlorobenzene	< 1.0	ug/L	A	
Ethylbenzene	< 1.0	ug/L	A		1,1,1,2-Tetrachloroethane	< 2.0	ug/L	A	
Xylenes, Total	< 2.0	ug/L	A		Styrene	< 1.0	ug/L	N	
Bromoform	< 2.0	ug/L	A		Isopropylbenzene	< 1.0	ug/L	A	
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	A		Bromobenzene	< 1.0	ug/L	N	
n-Propylbenzene	< 1.0	ug/L	A		1,2,3-Trichloropropane	< 2.0	ug/L	N	
2-Chlorotoluene	< 1.0	ug/L	N		1,3,5-Trimethylbenzene	< 1.0	ug/L	A	
4-Chlorotoluene	< 1.0	ug/L	N		t-Butylbenzene	< 1.0	ug/L	A	
1,2,4-Trimethylbenzene	< 1.0	ug/L	A		s-Butylbenzene	< 1.0	ug/L	N	
4-Isopropyltoluene	< 1.0	ug/L	A		1,3-Dichlorobenzene	< 1.0	ug/L	A	
1,4-Dichlorobenzene	< 1.0	ug/L	A		n-Butylbenzene	< 1.0	ug/L	A	
1,2-Dichlorobenzene	< 1.0	ug/L	A		1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	A		1,3,5-Trichlorobenzene	< 2.0	ug/L	N	
Hexachlorobutadiene	< 0.5	ug/L	N		Naphthalene	< 2.0	ug/L	A	
1,2,3-Trichlorobenzene	< 2.0	ug/L	N		Surr. 1 (Dibromofluoromethane)	107	%	N	
Surr. 3 (4-Bromofluorobenzene)	103	%	N		Surr. 2 (Toluene d8)	104	%	N	
Unidentified Peaks	0		U						

CLIENT: WaiteHeindel Environmental Mgt
PROJECT: NEWSVT LF UnderDrains
REPORT DATE: 10/17/2014

WORK ORDER: **1410-21182**
DATE RECEIVED: 10/09/2014

TEST METHOD: EPA 8260C

005 Site: Trip Blank Sampled: 10/2/14 13:25 Test Date: 10/13/14 W MHM

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Dichlorodifluoromethane	< 5.0	ug/L	A		Chloromethane	< 3.0	ug/L	N	
Vinyl chloride	< 2.0	ug/L	A		Bromomethane	< 5.0	ug/L	A	
Chloroethane	< 5.0	ug/L	A		Trichlorofluoromethane	< 2.0	ug/L	A	
Diethyl ether	< 5.0	ug/L	N		1,1-Dichloroethene	< 1.0	ug/L	A	
Acetone	< 10.0	ug/L	A		Carbon disulfide	< 5.0	ug/L	A	
Methylene chloride	< 5.0	ug/L	A		t-Butanol	< 20.0	ug/L	N	
Methyl-t-butyl ether (MTBE)	< 2.0	ug/L	A		trans-1,2-Dichloroethene	< 1.0	ug/L	A	
Di-isopropyl ether (DIPE)	< 2.0	ug/L	N		1,1-Dichloroethane	< 1.0	ug/L	A	
Ethyl-t-butyl ether (ETBE)	< 2.0	ug/L	N		2-Butanone	< 10.0	ug/L	A	
2,2-Dichloropropane	< 2.0	ug/L	N		cis-1,2-Dichloroethene	< 1.0	ug/L	N	
Bromochloromethane	< 2.0	ug/L	N		Chloroform	< 1.0	ug/L	A	
Tetrahydrofuran	< 10.0	ug/L	U		1,1,1-Trichloroethane	< 1.0	ug/L	A	
Carbon tetrachloride	< 1.0	ug/L	A		1,1-Dichloropropene	< 1.0	ug/L	N	
Benzene	< 1.0	ug/L	A		t-Amylmethyl ether (TAME)	< 2.0	ug/L	N	
1,2-Dichloroethane	< 1.0	ug/L	A		Trichloroethene	< 1.0	ug/L	A	
1,2-Dichloropropane	< 2.0	ug/L	A		Dibromomethane	< 2.0	ug/L	N	
Bromodichloromethane	< 0.5	ug/L	A		cis-1,3-Dichloropropene	< 1.0	ug/L	A	
4-Methyl-2-pentanone (MIBK)	< 10.0	ug/L	N		Toluene	< 1.0	ug/L	A	
trans-1,3-Dichloropropene	< 1.0	ug/L	A		1,1,2-Trichloroethane	< 1.0	ug/L	A	
Tetrachloroethene	< 1.0	ug/L	A		1,3-Dichloropropane	< 1.0	ug/L	N	
2-Hexanone	< 10.0	ug/L	N		Dibromochloromethane	< 2.0	ug/L	A	
1,2-Dibromoethane	< 1.0	ug/L	A		Chlorobenzene	< 1.0	ug/L	A	
Ethylbenzene	< 1.0	ug/L	A		1,1,1,2-Tetrachloroethane	< 2.0	ug/L	A	
Xylenes, Total	< 2.0	ug/L	A		Styrene	< 1.0	ug/L	N	
Bromoform	< 2.0	ug/L	A		Isopropylbenzene	< 1.0	ug/L	A	
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	A		Bromobenzene	< 1.0	ug/L	N	
n-Propylbenzene	< 1.0	ug/L	A		1,2,3-Trichloropropane	< 2.0	ug/L	N	
2-Chlorotoluene	< 1.0	ug/L	N		1,3,5-Trimethylbenzene	< 1.0	ug/L	A	
4-Chlorotoluene	< 1.0	ug/L	N		t-Butylbenzene	< 1.0	ug/L	A	
1,2,4-Trimethylbenzene	< 1.0	ug/L	A		s-Butylbenzene	< 1.0	ug/L	N	
4-Isopropyltoluene	< 1.0	ug/L	A		1,3-Dichlorobenzene	< 1.0	ug/L	A	
1,4-Dichlorobenzene	< 1.0	ug/L	A		n-Butylbenzene	< 1.0	ug/L	A	
1,2-Dichlorobenzene	< 1.0	ug/L	A		1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	A		1,3,5-Trichlorobenzene	< 2.0	ug/L	N	
Hexachlorobutadiene	< 0.5	ug/L	N		Naphthalene	< 2.0	ug/L	A	
1,2,3-Trichlorobenzene	< 2.0	ug/L	N		Surr. 1 (Dibromofluoromethane)	109	%	N	
Surr. 2 (Toluene d8)	106	%	N		Surr. 3 (4-Bromofluorobenzene)	101	%	N	
Unidentified Peaks	0		U						

NEWSVT LF UnderDrains

Endyne Inc. COC

Prepared: 4/29/13

Lab Use WO# 100

1410-21182

Bill to:	Report to:
Sherry Bradley	Miles Waite
Casella Waste Management, Inc.	WaiteHeindel Environmental Mgt
3 Pitkin Court	7 Kilburn Street
Montpelier VT 05602	Burlington VT 05406
Ph: (802)223-7221	CasellaNEWSVThn

Customer # 070338

NEWSVTLFGWSW

W-70338NUD

Phase I Underdrain

Sampled Date/Time: 10/8/14 @ 1459

Sampler: WWSC

SVOC BNAs	**2 --** 1L Amber Glass	<6C, pH 5-9
BOD-5day	**1 - Liter --** Plastic	<6C
Chloride		
COD	**1 - 2 oz --** Plastic or Glass	<6C, H2SO4
Hardness, Total	**1 - 16 oz --** Plastic Total Metals	HNO3
Metals Furnace Digestion		
Antimony, Total		
Arsenic, Total		
Barium, Total		
Beryllium, Total		
Cadmium, Total		
Chromium, Total		
Cobalt, Total		
Copper, Total		
Iron, Total		
Lead, Total		
Manganese, Total		
Mercury, Total		
Molybdenum, Total		
Nickel, Total		
Selenium, Total		
Sodium, Total		
Thallium, Total		
Vanadium, Total		
Zinc, Total		
VOC w/ Oxygenates, Water	**2 --** 40ml vials	<6C, HCl

Phase II Underdrain Sampled Date/Time: 10/8/14 @1510 Sampler: WHSC

SVOC BNAs	**2 --** 1L Amber Glass	<6C, pH 5-9
BOD-5day	**1 - Liter --** Plastic	<6C
Chloride		
COD	**1 - 2 oz --** Plastic or Glass	<6C, H2SO4
Hardness, Total	**1 - 16 oz --** Plastic Total Metals	HNO3
Metals Furnace Digestion		
Antimony, Total		
Arsenic, Total		
Barium, Total		
Beryllium, Total		
Cadmium, Total		
Chromium, Total		
Cobalt, Total		
Copper, Total		
Iron, Total		
Lead, Total		
Manganese, Total		
Mercury, Total		
Molybdenum, Total		
Nickel, Total		
Selenium, Total		
Sodium, Total		
Thallium, Total		
Vanadium, Total		
Zinc, Total		
VOC w/ Oxygenates, Water	**2 --** 40ml vials	<6C, HCl

Phase III Underdrain Sampled Date/Time: 10/8/14 @1603 Sampler: WHSC

SVOC BNAs	**2 --** 1L Amber Glass	<6C, pH 5-9
BOD-5day	**1 - Liter --** Plastic	<6C
Chloride		
COD	**1 - 2 oz --** Plastic or Glass	<6C, H2SO4
Hardness, Total	**1 - 16 oz --** Plastic Total Metals	HNO3
Metals Furnace Digestion		
Antimony, Total		
Arsenic, Total		
Barium, Total		
Beryllium, Total		
Cadmium, Total		
Chromium, Total		
Cobalt, Total		
Copper, Total		
Iron, Total		
Lead, Total		
Manganese, Total		
Mercury, Total		
Molybdenum, Total		
Nickel, Total		
Selenium, Total		
Sodium, Total		
Thallium, Total		
Vanadium, Total		
Zinc, Total		
VOC w/ Oxygenates, Water	**2 --** 40ml vials	<6C, HCl

Phase IV Underdrain — Sampled Date/Time: 10/8/14 @ 1555 — Sampler: WMSC

SVOC BNAs	**2 --** 1L Amber Glass	<6C, pH 5-9
BOD-5day	**1 - Liter --** Plastic	<6C
Chloride		
COD	**1 - 2 oz --** Plastic or Glass	<6C, H2SO4
Hardness, Total	**1 - 16 oz --** Plastic Total Metals	HNO3
Metals Furnace Digestion		
Antimony, Total		
Arsenic, Total		
Barium, Total		
Beryllium, Total		
Cadmium, Total		
Chromium, Total		
Cobalt, Total		
Copper, Total		
Iron, Total		
Lead, Total		
Manganese, Total		
Mercury, Total		
Molybdenum, Total		
Nickel, Total		
Selenium, Total		
Sodium, Total		
Thallium, Total		
Vanadium, Total		
Zinc, Total		
VOC w/ Oxygenates, Water	**2 --** 40ml vials	<6C, HCl

Trip Blank — Sampled Date/Time: 10/2/14 @ 1325 — Sampler: MH

VOC w/ Oxygenates, Water	**2 --** 40ml vials	<6C, HCl

Relinquished by: [signature] 10/9/14 1105 (Date Time) — Accepted by: Eileen Cooney 10/9 @ 11:00 (Date Time)

Relinquished by: _____ (Date Time) — Received by: _____ (Date Time)

Sites/Parameters correct as listed. Client Initials: WMSC

Client Authorization to use Subcontract lab Client Initials: WMSC

Sample origin: VT [X] NH [ ] NY [ ] Other [ ]

Special reporting instructions: (PO#) _____

Requested Turnaround Time: Routine: Rush Due Date _____

Delv: Client — Tmpl Ck — Lab use Only

Temp C: -0.7 — Log by

Comment:

ENDYNE Inc.
www.endynelabs.com

160 James Brown Dr.
Williston, VT 05495
Ph 802-879-4333
Fax 802-879-7103

56 Etna Road
Lebanon, NH 03766
Ph 603-678-4891
Fax 603-678-4893

315 New York Rd.
Plattsburgh, NY 12903
Ph 518-563-1720
Fax 518-563-0052

ENDYNE Inc.
Environmental Laboratories

Laboratory Report

Casella Waste Management, Inc. 070338
220 Avenue B
Williston, VT 05495

Atten: Joe Gay

PROJECT: NEWSVT LF May-Oct Leachate
WORK ORDER: **1410-21185**
DATE RECEIVED: October 09, 2014
DATE REPORTED: October 28, 2014
SAMPLER: Chris Page

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. All required method quality control elements including instrument calibration were performed in accordance with method requirements and determined to be acceptable unless otherwise noted.

The column labeled Lab/Tech in the accompanying report denotes the laboratory facility where the testing was performed and the technician who conducted the assay. A "W" designates the Williston, VT lab under NELAC certification ELAP 11263; "R" designates the Lebanon, NH facility under certification NH 2037 and "N" the Plattsburgh, NY lab under certification ELAP 11892. "Sub" indicates the testing was performed by a subcontracted laboratory. The accreditation status of the subcontracted lab is referenced in the corresponding NELAC and Qual fields.

The NELAC column also denotes the accreditation status of each laboratory for each reported parameter. "A" indicates the referenced laboratory is NELAC accredited for the parameter reported. "N" indicates the laboratory is not accredited. "U" indicates that NELAC does not offer accreditation for that parameter in that specific matrix. Test results denoted with an "A" meet all National Environmental Laboratory Accreditation Program requirements except where denoted by pertinent data qualifiers. Test results are representative of the samples as they were received at the laboratory

Endyne, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose.

Reviewed by:

Harry B. Locker, Ph.D.
Laboratory Director

CLIENT: Casella Waste Management, Inc.
PROJECT: NEWSVT LF May-Oct Leachate
REPORT DATE: 10/28/2014

WORK ORDER: **1410-21185**
DATE RECEIVED: 10/09/2014

001 Site: Phase I — Date Sampled: 10/8/14 — Time: 13:30

Parameter	Result	Units	Method	Analysis Date		Lab/Tech	NELAC	Qual.
BOD-5day	1,100	mg/L	SM 5210B(01)	10/9/14	16:40 W	JSS	A	
Chloride	1000	mg/L	SM 4500-Cl-E	10/14/14		N JGM	A	
COD	3100	mg/L	Hach8000/EPA410.4	10/14/14		N JGM	A	
TKN	950	mg/L	EPA 351.2, R.2	10/21/14		N JGM	A	
Antimony, Total	0.075	mg/L	SM 3113B-04	10/21/14		W CM	A	LFB-
Arsenic, Total	0.77	mg/L	EPA 200.7	10/15/14		W RGT	N	
Barium, Total	< 0.20	mg/L	EPA 200.7	10/15/14		W RGT	A	
Beryllium, Total	< 0.01	mg/L	EPA 200.7	10/15/14		W RGT	A	
Cadmium, Total	< 0.02	mg/L	EPA 200.7	10/15/14		W RGT	A	
Chromium, Total	0.13	mg/L	EPA 200.7	10/15/14		W RGT	A	
Cobalt, Total	< 0.20	mg/L	EPA 200.7	10/15/14		W RGT	A	
Copper, Total	< 0.20	mg/L	EPA 200.7	10/15/14		W RGT	A	
Iron, Total	46	mg/L	EPA 200.7	10/15/14		W RGT	A	
Lead, Total	< 0.001	mg/L	SM 3113B-04	10/17/14		W CM	A	
Manganese, Total	1.5	mg/L	EPA 200.7	10/15/14		W RGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	10/14/14		W EER	A	
Molybdenum, Total	< 0.20	mg/L	EPA 200.7	10/15/14		W RGT	A	
Nickel, Total	0.43	mg/L	EPA 200.7	10/15/14		W RGT	A	
Selenium, Total	< 0.002	mg/L	SM20 3113B	10/15/14		W CM	A	
Silver, Total	< 0.20	mg/L	EPA 200.7	10/15/14		W RGT	A	
Sodium, Total	1,200	mg/L	EPA 200.7	10/15/14		W RGT	A	
Thallium, Total	< 0.001	mg/L	SM 3113B-04	10/23/14		W CM	A	
Vanadium, Total	< 0.20	mg/L	EPA 200.7	10/15/14		W RGT	A	
Zinc, Total	0.21	mg/L	EPA 200.7	10/15/14		W RGT	A	

002 Site: Phase II — Date Sampled: 10/8/14 — Time: 14:15

Parameter	Result	Units	Method	Analysis Date		Lab/Tech	NELAC	Qual.
BOD-5day	2,800	mg/L	SM 5210B(01)	10/9/14	16:42 W	JSS	A	
Chloride	1700	mg/L	SM 4500-Cl-E	10/14/14		N JGM	A	
COD	11000	mg/L	Hach8000/EPA410.4	10/14/14		N JGM	A	
TKN	1800	mg/L	EPA 351.2, R.2	10/21/14		N JGM	A	
Antimony, Total	0.012	mg/L	SM 3113B-04	10/21/14		W CM	A	LFB-
Arsenic, Total	0.56	mg/L	EPA 200.7	10/15/14		W RGT	N	
Barium, Total	< 0.20	mg/L	EPA 200.7	10/15/14		W RGT	A	
Beryllium, Total	< 0.01	mg/L	EPA 200.7	10/15/14		W RGT	A	
Cadmium, Total	< 0.02	mg/L	EPA 200.7	10/15/14		W RGT	A	
Chromium, Total	0.18	mg/L	EPA 200.7	10/15/14		W RGT	A	
Cobalt, Total	< 0.20	mg/L	EPA 200.7	10/15/14		W RGT	A	
Copper, Total	< 0.20	mg/L	EPA 200.7	10/15/14		W RGT	A	
Iron, Total	4.4	mg/L	EPA 200.7	10/15/14		W RGT	A	
Lead, Total	< 0.001	mg/L	SM 3113B-04	10/17/14		W CM	A	
Manganese, Total	0.59	mg/L	EPA 200.7	10/15/14		W RGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	10/20/14		W EER	A	

CLIENT: Casella Waste Management, Inc.
PROJECT: NEWSVT LF May-Oct Leachate
REPORT DATE: 10/28/2014

WORK ORDER: **1410-21185**
DATE RECEIVED: 10/09/2014

002 Site: Phase II — Date Sampled: 10/8/14 — Time: 14:15

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Molybdenum, Total	< 0.20	mg/L	EPA 200.7	10/15/14	W RGT	A	
Nickel, Total	0.33	mg/L	EPA 200.7	10/15/14	W RGT	A	
Selenium, Total	< 0.002	mg/L	SM20 3113B	10/15/14	W CM	A	
Silver, Total	< 0.20	mg/L	EPA 200.7	10/15/14	W RGT	A	
Sodium, Total	2,100	mg/L	EPA 200.7	10/20/14	W RGT	A	
Thallium, Total	< 0.001	mg/L	SM 3113B-04	10/23/14	W CM	A	
Vanadium, Total	< 0.20	mg/L	EPA 200.7	10/15/14	W RGT	A	
Zinc, Total	< 0.20	mg/L	EPA 200.7	10/15/14	W RGT	A	

003 Site: Phase III Cell 1 — Date Sampled: 10/8/14 — Time: 14:30

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
BOD-5day	130	mg/L	SM 5210B(01)	10/9/14 16:45	W JSS	A	
Chloride	1800	mg/L	SM 4500-Cl-E	10/14/14	N JGM	A	
COD	2600	mg/L	Hach8000/EPA410.4	10/14/14	N JGM	A	
TKN	1900	mg/L	EPA 351.2, R.2	10/21/14	N JGM	A	
Antimony, Total	0.005	mg/L	SM 3113B-04	10/21/14	W CM	A	LFB-
Arsenic, Total	1.5	mg/L	EPA 200.7	10/15/14	W RGT	N	
Barium, Total	< 0.20	mg/L	EPA 200.7	10/15/14	W RGT	A	
Beryllium, Total	< 0.01	mg/L	EPA 200.7	10/15/14	W RGT	A	
Cadmium, Total	< 0.02	mg/L	EPA 200.7	10/15/14	W RGT	A	
Chromium, Total	0.48	mg/L	EPA 200.7	10/15/14	W RGT	A	
Cobalt, Total	< 0.20	mg/L	EPA 200.7	10/15/14	W RGT	A	
Copper, Total	< 0.20	mg/L	EPA 200.7	10/15/14	W RGT	A	
Iron, Total	3.1	mg/L	EPA 200.7	10/15/14	W RGT	A	
Lead, Total	< 0.001	mg/L	SM 3113B-04	10/17/14	W CM	A	
Manganese, Total	< 0.20	mg/L	EPA 200.7	10/15/14	W RGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	10/20/14	W EER	A	
Molybdenum, Total	< 0.20	mg/L	EPA 200.7	10/15/14	W RGT	A	
Nickel, Total	0.93	mg/L	EPA 200.7	10/15/14	W RGT	A	
Selenium, Total	< 0.002	mg/L	SM20 3113B	10/15/14	W CM	A	
Silver, Total	< 0.20	mg/L	EPA 200.7	10/15/14	W RGT	A	
Sodium, Total	2,500	mg/L	EPA 200.7	10/20/14	W RGT	A	
Thallium, Total	< 0.001	mg/L	SM 3113B-04	10/23/14	W CM	A	
Vanadium, Total	< 0.20	mg/L	EPA 200.7	10/15/14	W RGT	A	
Zinc, Total	< 0.20	mg/L	EPA 200.7	10/15/14	W RGT	A	

004 Site: Phase III Cell 2 — Date Sampled: 10/8/14 — Time: 14:50

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
BOD-5day	140	mg/L	SM 5210B(01)	10/9/14 17:01	W JSS	A	
Chloride	2200	mg/L	SM 4500-Cl-E	10/14/14	N JGM	A	
COD	2800	mg/L	Hach8000/EPA410.4	10/14/14	N JGM	A	
TKN	1800	mg/L	EPA 351.2, R.2	10/21/14	N JGM	A	
Antimony, Total	< 0.002	mg/L	SM 3113B-04	10/21/14	W CM	A	LFB-

CLIENT: Casella Waste Management, Inc.
PROJECT: NEWSVT LF May-Oct Leachate
REPORT DATE: 10/28/2014

WORK ORDER: **1410-21185**
DATE RECEIVED: 10/09/2014

004 Site: Phase III Cell 2 Date Sampled: 10/8/14 Time: 14:50

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Arsenic, Total	1.0	mg/L	EPA 200.7	10/15/14	W RGT	N	
Barium, Total	< 0.20	mg/L	EPA 200.7	10/15/14	W RGT	A	
Beryllium, Total	< 0.01	mg/L	EPA 200.7	10/15/14	W RGT	A	
Cadmium, Total	< 0.02	mg/L	EPA 200.7	10/15/14	W RGT	A	
Chromium, Total	0.29	mg/L	EPA 200.7	10/15/14	W RGT	A	
Cobalt, Total	< 0.20	mg/L	EPA 200.7	10/15/14	W RGT	A	
Copper, Total	< 0.20	mg/L	EPA 200.7	10/15/14	W RGT	A	
Iron, Total	3.2	mg/L	EPA 200.7	10/15/14	W RGT	A	
Lead, Total	< 0.001	mg/L	SM 3113B-04	10/27/14	W CM	A	
Manganese, Total	< 0.20	mg/L	EPA 200.7	10/15/14	W RGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	10/20/14	W EER	A	
Molybdenum, Total	< 0.20	mg/L	EPA 200.7	10/15/14	W RGT	A	
Nickel, Total	0.59	mg/L	EPA 200.7	10/15/14	W RGT	A	
Selenium, Total	< 0.002	mg/L	SM20 3113B	10/15/14	W CM	A	
Silver, Total	< 0.20	mg/L	EPA 200.7	10/15/14	W RGT	A	
Sodium, Total	2,200	mg/L	EPA 200.7	10/20/14	W RGT	A	
Thallium, Total	< 0.001	mg/L	SM 3113B-04	10/23/14	W CM	A	
Vanadium, Total	< 0.20	mg/L	EPA 200.7	10/15/14	W RGT	A	
Zinc, Total	< 0.20	mg/L	EPA 200.7	10/15/14	W RGT	A	

005 Site: Phase IV Cell 1 Date Sampled: 10/8/14 Time: 15:10

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
BOD-5day	1,400	mg/L	SM 5210B(01)	10/9/14 17:07	W JSS	A	
Chloride	1800	mg/L	SM 4500-Cl-E	10/14/14	N JGM	A	
COD	4000	mg/L	Hach8000/EPA410.4	10/14/14	N JGM	A	P2
TKN	1900	mg/L	EPA 351.2, R.2	10/21/14	N JGM	A	
Antimony, Total	0.015	mg/L	SM 3113B-04	10/21/14	W CM	A	LFB-
Arsenic, Total	0.52	mg/L	EPA 200.7	10/15/14	W RGT	N	
Barium, Total	< 0.20	mg/L	EPA 200.7	10/15/14	W RGT	A	
Beryllium, Total	< 0.01	mg/L	EPA 200.7	10/15/14	W RGT	A	
Cadmium, Total	< 0.02	mg/L	EPA 200.7	10/15/14	W RGT	A	
Chromium, Total	0.34	mg/L	EPA 200.7	10/15/14	W RGT	A	
Cobalt, Total	< 0.20	mg/L	EPA 200.7	10/15/14	W RGT	A	
Copper, Total	< 0.20	mg/L	EPA 200.7	10/15/14	W RGT	A	
Iron, Total	13	mg/L	EPA 200.7	10/15/14	W RGT	A	
Lead, Total	< 0.001	mg/L	SM 3113B-04	10/27/14	W CM	A	
Manganese, Total	0.65	mg/L	EPA 200.7	10/15/14	W RGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	10/20/14	W EER	A	
Molybdenum, Total	< 0.20	mg/L	EPA 200.7	10/15/14	W RGT	A	
Nickel, Total	0.47	mg/L	EPA 200.7	10/15/14	W RGT	A	
Selenium, Total	< 0.002	mg/L	SM20 3113B	10/15/14	W CM	A	
Silver, Total	< 0.20	mg/L	EPA 200.7	10/15/14	W RGT	A	
Sodium, Total	2,100	mg/L	EPA 200.7	10/20/14	W RGT	A	

CLIENT: Casella Waste Management, Inc.
PROJECT: NEWSVT LF May-Oct Leachate
REPORT DATE: 10/28/2014

WORK ORDER: **1410-21185**
DATE RECEIVED: 10/09/2014

005 Site: Phase IV Cell 1 — Date Sampled: 10/8/14 — Time: 15:10

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Thallium, Total	< 0.001	mg/L	SM 3113B-04	10/23/14	W CM	A	
Vanadium, Total	< 0.20	mg/L	EPA 200.7	10/15/14	W RGT	A	
Zinc, Total	0.47	mg/L	EPA 200.7	10/15/14	W RGT	A	

006 Site: Phase IV Cell 2 — Date Sampled: 10/8/14 — Time: 15:25

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
BOD-5day	3,900	mg/L	SM 5210B(01)	10/9/14 17:11	W JSS	A	
Chloride	1900	mg/L	SM 4500-Cl-E	10/14/14	N JGM	A	
COD	9300	mg/L	Hach8000/EPA410.4	10/14/14	N JGM	A	
TKN	2000	mg/L	EPA 351.2, R.2	10/21/14	N JGM	A	
Antimony, Total	0.004	mg/L	SM 3113B-04	10/21/14	W CM	A	LFB-
Arsenic, Total	0.26	mg/L	EPA 200.7	10/15/14	W RGT	N	
Barium, Total	< 0.20	mg/L	EPA 200.7	10/15/14	W RGT	A	
Beryllium, Total	< 0.01	mg/L	EPA 200.7	10/15/14	W RGT	A	
Cadmium, Total	< 0.02	mg/L	EPA 200.7	10/15/14	W RGT	A	
Chromium, Total	0.29	mg/L	EPA 200.7	10/15/14	W RGT	A	
Cobalt, Total	< 0.20	mg/L	EPA 200.7	10/15/14	W RGT	A	
Copper, Total	< 0.20	mg/L	EPA 200.7	10/15/14	W RGT	A	
Iron, Total	18	mg/L	EPA 200.7	10/15/14	W RGT	A	
Lead, Total	< 0.001	mg/L	SM 3113B-04	10/27/14	W CM	A	
Manganese, Total	0.57	mg/L	EPA 200.7	10/15/14	W RGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	10/20/14	W EER	A	
Molybdenum, Total	< 0.20	mg/L	EPA 200.7	10/15/14	W RGT	A	
Nickel, Total	0.70	mg/L	EPA 200.7	10/15/14	W RGT	A	
Selenium, Total	< 0.002	mg/L	SM20 3113B	10/15/14	W CM	A	
Silver, Total	< 0.20	mg/L	EPA 200.7	10/15/14	W RGT	A	
Sodium, Total	2,700	mg/L	EPA 200.7	10/20/14	W RGT	A	
Thallium, Total	< 0.001	mg/L	SM 3113B-04	10/23/14	W CM	A	
Vanadium, Total	< 0.20	mg/L	EPA 200.7	10/15/14	W RGT	A	
Zinc, Total	1.2	mg/L	EPA 200.7	10/15/14	W RGT	A	

007 Site: Phase IV Cell 3 — Date Sampled: 10/8/14 — Time: 15:45

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
BOD-5day	420	mg/L	SM 5210B(01)	10/9/14 17:19	W JSS	A	
Chloride	630	mg/L	SM 4500-Cl-E	10/14/14	N JGM	A	
COD	1900	mg/L	Hach8000/EPA410.4	10/14/14	N JGM	A	
TKN	620	mg/L	EPA 351.2, R.2	10/21/14	N JGM	A	
Antimony, Total	< 0.002	mg/L	SM 3113B-04	10/23/14	W CM	A	
Arsenic, Total	0.24	mg/L	EPA 200.7	10/15/14	W RGT	N	
Barium, Total	< 0.20	mg/L	EPA 200.7	10/15/14	W RGT	A	
Beryllium, Total	< 0.01	mg/L	EPA 200.7	10/15/14	W RGT	A	
Cadmium, Total	< 0.02	mg/L	EPA 200.7	10/15/14	W RGT	A	
Chromium, Total	0.14	mg/L	EPA 200.7	10/15/14	W RGT	A	

CLIENT: Casella Waste Management, Inc.
PROJECT: NEWSVT LF May-Oct Leachate
REPORT DATE: 10/28/2014

WORK ORDER: **1410-21185**
DATE RECEIVED: 10/09/2014

007 Site: Phase IV Cell 3 — Date Sampled: 10/8/14 — Time: 15:45

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
Cobalt, Total	< 0.20	mg/L	EPA 200.7	10/15/14	W RGT	A	
Copper, Total	< 0.20	mg/L	EPA 200.7	10/15/14	W RGT	A	
Iron, Total	28	mg/L	EPA 200.7	10/15/14	W RGT	A	
Lead, Total	0.006	mg/L	SM 3113B-04	10/27/14	W CM	A	
Manganese, Total	1.6	mg/L	EPA 200.7	10/15/14	W RGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	10/20/14	W EER	A	
Molybdenum, Total	< 0.20	mg/L	EPA 200.7	10/15/14	W RGT	A	
Nickel, Total	0.19	mg/L	EPA 200.7	10/15/14	W RGT	A	
Selenium, Total	< 0.002	mg/L	SM20 3113B	10/15/14	W CM	A	
Silver, Total	< 0.20	mg/L	EPA 200.7	10/15/14	W RGT	A	
Sodium, Total	510	mg/L	EPA 200.7	10/15/14	W RGT	A	
Thallium, Total	< 0.001	mg/L	SM 3113B-04	10/23/14	W CM	A	
Vanadium, Total	< 0.20	mg/L	EPA 200.7	10/15/14	W RGT	A	
Zinc, Total	< 0.20	mg/L	EPA 200.7	10/15/14	W RGT	A	

008 Site: Combined AST — Date Sampled: 10/8/14 — Time: 16:05

Parameter	Result	Units	Method	Analysis Date	Lab/Tech	NELAC	Qual.
BOD-5day	1,300	mg/L	SM 5210B(01)	10/9/14 17:24	W JSS	A	
Chloride	1700	mg/L	SM 4500-Cl-E	10/14/14	N JGM	A	
COD	4300	mg/L	Hach8000/EPA410.4	10/14/14	N JGM	A	
TKN	1400	mg/L	EPA 351.2, R.2	10/21/14	N JGM	A	
Antimony, Total	0.015	mg/L	SM 3113B-04	10/23/14	W CM	A	
Arsenic, Total	0.44	mg/L	EPA 200.7	10/15/14	W RGT	N	
Barium, Total	< 0.20	mg/L	EPA 200.7	10/15/14	W RGT	A	
Beryllium, Total	< 0.01	mg/L	EPA 200.7	10/15/14	W RGT	A	
Cadmium, Total	< 0.02	mg/L	EPA 200.7	10/15/14	W RGT	A	
Chromium, Total	0.27	mg/L	EPA 200.7	10/15/14	W RGT	A	
Cobalt, Total	< 0.20	mg/L	EPA 200.7	10/15/14	W RGT	A	
Copper, Total	< 0.20	mg/L	EPA 200.7	10/15/14	W RGT	A	
Iron, Total	15	mg/L	EPA 200.7	10/20/14	W RGT	A	
Lead, Total	< 0.001	mg/L	SM 3113B-04	10/27/14	W CM	A	
Manganese, Total	0.59	mg/L	EPA 200.7	10/15/14	W RGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	10/20/14	W EER	A	
Molybdenum, Total	< 0.20	mg/L	EPA 200.7	10/15/14	W RGT	A	
Nickel, Total	0.40	mg/L	EPA 200.7	10/15/14	W RGT	A	
Selenium, Total	< 0.002	mg/L	SM20 3113B	10/15/14	W CM	A	
Silver, Total	< 0.20	mg/L	EPA 200.7	10/15/14	W RGT	A	
Sodium, Total	1,700	mg/L	EPA 200.7	10/20/14	W RGT	A	
Thallium, Total	< 0.001	mg/L	SM 3113B-04	10/23/14	W CM	A	
Vanadium, Total	< 0.20	mg/L	EPA 200.7	10/15/14	W RGT	A	
Zinc, Total	0.34	mg/L	EPA 200.7	10/15/14	W RGT	A	

CLIENT: Casella Waste Management, Inc.
PROJECT: NEWSVT LF May-Oct Leachate
REPORT DATE: 10/28/2014

WORK ORDER: **1410-21185**
DATE RECEIVED: 10/09/2014

TEST METHOD: EPA 8270D

001 Site: Phase I — Sampled: 10/8/14 13:30 — Test Date: 10/14/14 W FAA

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Extraction EPA 3510C	Extracted		A		N-Nitrosodimethylamine	< 200	ug/L	A	
Pyridine	< 200	ug/L	A		Aniline	< 200	ug/L	N	
Bis(2-chloroethyl)ether	< 100	ug/L	A		1,2-Dichlorobenzene	< 40.0	ug/L	A	
1,3-Dichlorobenzene	< 40.0	ug/L	A		1,4-Dichlorobenzene	< 40.0	ug/L	A	
Benzyl alcohol	< 400	ug/L	N		Bis(2-chloroisopropyl)ether	< 200	ug/L	A	
N-Nitrosodi-n-propylamine	< 200	ug/L	A		Hexachloroethane	< 100	ug/L	A	
Nitrobenzene	< 100	ug/L	A		N-Nitrosopiperidine	< 200	ug/L	N	
Isophorone	< 40.0	ug/L	A		Bis(2-chloroethoxy)methane	< 100	ug/L	A	
1,2,4-Trichlorobenzene	< 40.0	ug/L	A		Naphthalene	< 20.0	ug/L	A	
4-Chloroaniline	< 100	ug/L	N		Hexachlorobutadiene	< 100	ug/L	A	
N-Nitrosodi-n-butylamine	< 100	ug/L	N		2-Methylnaphthalene	< 20.0	ug/L	A	
1-Methylnaphthalene	< 20.0	ug/L	U		Hexachlorocyclopentadiene	< 400	ug/L	A	
2-Chloronaphthalene	< 40.0	ug/L	A		1-Chloronaphthalene	< 40.0	ug/L	N	
2-Nitroaniline	< 400	ug/L	N		Dimethyl phthalate	< 100	ug/L	A	
2,6-Dinitrotoluene	< 100	ug/L	A		Acenaphthylene	< 20.0	ug/L	A	
3-Nitroaniline	< 100	ug/L	N		Acenaphthene	< 20.0	ug/L	A	
Dibenzofuran	< 40.0	ug/L	N		2,4-Dinitrotoluene	< 100	ug/L	A	
1-Naphthylamine	< 200	ug/L	N		2-Naphthylamine	< 200	ug/L	N	
Fluorene	< 20.0	ug/L	A		Diethyl phthalate	< 100	ug/L	A	
4-Chlorophenyl phenyl ether	< 40.0	ug/L	A		4-Nitroaniline	< 400	ug/L	N	
N-Nitrosodiphenylamine	< 100	ug/L	A		Azobenzene	< 100	ug/L	U	
4-Bromophenyl phenyl ether	< 40.0	ug/L	A		Hexachlorobenzene	< 100	ug/L	A	
Phenanthrene	< 20.0	ug/L	A		Anthracene	< 20.0	ug/L	A	
Carbazole	< 100	ug/L	N		Di-n-butylphthalate	< 200	ug/L	A	
Fluoranthene	< 20.0	ug/L	A		Benzidine	< 200	ug/L	A	
Pyrene	< 20.0	ug/L	A		Butyl benzyl phthalate	< 100	ug/L	A	
Benzo(a)anthracene	< 20.0	ug/L	A		Chrysene	< 20.0	ug/L	A	
3,3'-Dichlorobenzidine	< 100	ug/L	A		Bis(2-ethylhexyl)phthalate	< 100	ug/L	A	
Di-n-octylphthalate	< 100	ug/L	N		Benzo(b)fluoranthene	< 20.0	ug/L	A	
Benzo(k)fluoranthene	< 20.0	ug/L	A		Benzo(a)pyrene	< 20.0	ug/L	A	
Indeno(1,2,3-cd)pyrene	< 20.0	ug/L	A		Dibenzo(a,h)anthracene	< 20.0	ug/L	A	
Benzo(g,h,i)perylene	< 20.0	ug/L	A		Phenol	91.8	ug/L	A	
2-Chlorophenol	< 100	ug/L	A		2-Methylphenol (o-cresol)	< 100	ug/L	A	
3&4-Methylphenol (m&p-cresol)	1,290	ug/L	A		Cresols, Total	1,290	ug/L	A	
2-Nitrophenol	< 200	ug/L	A		2,4-Dimethylphenol	< 100	ug/L	A	
2,4-Dichlorophenol	< 100	ug/L	A		2,6-Dichlorophenol	< 100	ug/L	N	
4-Chloro-3-methylphenol	< 200	ug/L	A		2,4,5-Trichlorophenol	< 200	ug/L	A	
2,4,6-Trichlorophenol	< 200	ug/L	A		2,4-Dinitrophenol	< 400	ug/L	A	
4-Nitrophenol	< 200	ug/L	A		4,6-Dinitro-2-methylphenol	< 400	ug/L	A	
Pentachlorophenol	< 200	ug/L	A		BaP Toxic Equiv. Quotient	< 46.2	ug/L	U	
B/N Surr.1 Nitrobenzene-d5	67	%	N		B/N Surr.2 2-Fluorobiphenyl	65	%	N	
B/N Surr.3 Terphenyl-d14	93	%	N		Acid Surr.1 2-Fluorophenol	42	%	N	
Acid Surr.2 Phenol-d8	34	%	N		Acid Surr.3 Tribromophenol	95	%	N	
Unidentified Peaks	>10		U						

CLIENT: Casella Waste Management, Inc.
PROJECT: NEWSVT LF May-Oct Leachate
REPORT DATE: 10/28/2014

WORK ORDER: **1410-21185**
DATE RECEIVED: 10/09/2014

TEST METHOD: EPA 8260C

001 Site: Phase I — Sampled: 10/8/14 13:30 — Test Date: 10/10/14 W SJM

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Dichlorodifluoromethane	< 25.0	ug/L	A		Chloromethane	< 15.0	ug/L	N	
Vinyl chloride	< 10.0	ug/L	A		Bromomethane	< 25.0	ug/L	A	
Chloroethane	< 25.0	ug/L	A		Trichlorofluoromethane	< 10.0	ug/L	A	
Diethyl ether	81.7	ug/L	N		1,1-Dichloroethene	< 5.0	ug/L	A	
Acetone	709	ug/L	A		Carbon disulfide	< 25.0	ug/L	A	
Methylene chloride	< 25.0	ug/L	A		t-Butanol	958	ug/L	N	
Methyl-t-butyl ether (MTBE)	17.1	ug/L	A		trans-1,2-Dichloroethene	< 5.0	ug/L	A	
Di-isopropyl ether (DIPE)	< 10.0	ug/L	N		1,1-Dichloroethane	< 5.0	ug/L	A	
Ethyl-t-butyl ether (ETBE)	< 10.0	ug/L	N		2-Butanone	1,810	ug/L	A	
2,2-Dichloropropane	< 10.0	ug/L	N		cis-1,2-Dichloroethene	< 5.0	ug/L	N	
Bromochloromethane	< 10.0	ug/L	N		Chloroform	< 5.0	ug/L	A	
Tetrahydrofuran	1,460	ug/L	U		1,1,1-Trichloroethane	< 5.0	ug/L	A	
Carbon tetrachloride	< 5.0	ug/L	A		1,1-Dichloropropene	< 5.0	ug/L	N	
Benzene	6.6	ug/L	A		t-Amylmethyl ether (TAME)	< 10.0	ug/L	N	
1,2-Dichloroethane	< 5.0	ug/L	A		Trichloroethene	< 5.0	ug/L	A	
1,2-Dichloropropane	< 10.0	ug/L	A		Dibromomethane	< 10.0	ug/L	N	
Bromodichloromethane	< 2.5	ug/L	A		cis-1,3-Dichloropropene	< 10.0	ug/L	A	
4-Methyl-2-pentanone (MIBK)	54.9	ug/L	N		Toluene	36.6	ug/L	A	
trans-1,3-Dichloropropene	< 10.0	ug/L	A		1,1,2-Trichloroethane	< 5.0	ug/L	A	
Tetrachloroethene	< 5.0	ug/L	A		1,3-Dichloropropane	< 5.0	ug/L	N	
2-Hexanone	< 50.0	ug/L	N		Dibromochloromethane	< 10.0	ug/L	A	
1,2-Dibromoethane	< 5.0	ug/L	A		Chlorobenzene	5.6	ug/L	A	
Ethylbenzene	15.9	ug/L	A		1,1,1,2-Tetrachloroethane	< 10.0	ug/L	A	
Xylenes, Total	85.0	ug/L	A		Styrene	< 5.0	ug/L	N	
Bromoform	< 10.0	ug/L	A		Isopropylbenzene	< 5.0	ug/L	A	
1,1,2,2-Tetrachloroethane	< 10.0	ug/L	A		Bromobenzene	< 5.0	ug/L	N	
n-Propylbenzene	< 5.0	ug/L	A		1,2,3-Trichloropropane	< 10.0	ug/L	N	
2-Chlorotoluene	< 5.0	ug/L	N		1,3,5-Trimethylbenzene	< 5.0	ug/L	A	
4-Chlorotoluene	< 5.0	ug/L	N		t-Butylbenzene	< 5.0	ug/L	A	
1,2,4-Trimethylbenzene	13.3	ug/L	A		s-Butylbenzene	< 5.0	ug/L	N	
4-Isopropyltoluene	5.8	ug/L	A		1,3-Dichlorobenzene	< 5.0	ug/L	A	
1,4-Dichlorobenzene	6.1	ug/L	A		n-Butylbenzene	< 10.0	ug/L	A	
1,2-Dichlorobenzene	< 5.0	ug/L	A		1,2-Dibromo-3-Chloropropane	< 10.0	ug/L	A	
1,2,4-Trichlorobenzene	< 10.0	ug/L	A		1,3,5-Trichlorobenzene	< 10.0	ug/L	N	
Hexachlorobutadiene	< 2.5	ug/L	N		Naphthalene	16.5	ug/L	A	
1,2,3-Trichlorobenzene	< 10.0	ug/L	N		Surr. 1 (Dibromofluoromethane)	102	%	N	
Surr. 3 (4-Bromofluorobenzene)	106	%	N		Surr. 2 (Toluene d8)	88	%	N	
Unidentified Peaks	3		U						

CLIENT: Casella Waste Management, Inc.
PROJECT: NEWSVT LF May-Oct Leachate
REPORT DATE: 10/28/2014

WORK ORDER: **1410-21185**
DATE RECEIVED: 10/09/2014

TEST METHOD: EPA 8270D

002 Site: Phase II — Sampled: 10/8/14 14:15 — Test Date: 10/14/14 W FAA

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Extraction EPA 3510C	Extracted		A		N-Nitrosodimethylamine	< 200	ug/L	A	
Pyridine	< 200	ug/L	A		Aniline	< 200	ug/L	N	
Bis(2-chloroethyl)ether	< 100	ug/L	A		1,2-Dichlorobenzene	< 40.0	ug/L	A	
1,3-Dichlorobenzene	< 40.0	ug/L	A		1,4-Dichlorobenzene	< 40.0	ug/L	A	
Benzyl alcohol	< 400	ug/L	N		Bis(2-chloroisopropyl)ether	< 200	ug/L	A	
N-Nitrosodi-n-propylamine	< 200	ug/L	A		Hexachloroethane	< 100	ug/L	A	
Nitrobenzene	< 100	ug/L	A		N-Nitrosopiperidine	< 200	ug/L	N	
Isophorone	< 40.0	ug/L	A		Bis(2-chloroethoxy)methane	< 100	ug/L	A	
1,2,4-Trichlorobenzene	< 40.0	ug/L	A		Naphthalene	< 20.0	ug/L	A	
4-Chloroaniline	< 100	ug/L	N		Hexachlorobutadiene	< 100	ug/L	A	
N-Nitrosodi-n-butylamine	< 100	ug/L	N		2-Methylnaphthalene	< 20.0	ug/L	A	
1-Methylnaphthalene	< 20.0	ug/L	U		Hexachlorocyclopentadiene	< 400	ug/L	A	
2-Chloronaphthalene	< 40.0	ug/L	A		1-Chloronaphthalene	< 40.0	ug/L	N	
2-Nitroaniline	< 400	ug/L	N		Dimethyl phthalate	< 100	ug/L	A	
2,6-Dinitrotoluene	< 100	ug/L	A		Acenaphthylene	< 20.0	ug/L	A	
3-Nitroaniline	< 100	ug/L	N		Acenaphthene	< 20.0	ug/L	A	
Dibenzofuran	< 40.0	ug/L	N		2,4-Dinitrotoluene	< 100	ug/L	A	
1-Naphthylamine	< 200	ug/L	N		2-Naphthylamine	< 200	ug/L	N	
Fluorene	< 20.0	ug/L	A		Diethyl phthalate	< 100	ug/L	A	
4-Chlorophenyl phenyl ether	< 40.0	ug/L	A		4-Nitroaniline	< 400	ug/L	N	
N-Nitrosodiphenylamine	< 100	ug/L	A		Azobenzene	< 100	ug/L	U	
4-Bromophenyl phenyl ether	< 40.0	ug/L	A		Hexachlorobenzene	< 100	ug/L	A	
Phenanthrene	< 20.0	ug/L	A		Anthracene	< 20.0	ug/L	A	
Carbazole	< 100	ug/L	N		Di-n-butylphthalate	< 200	ug/L	A	
Fluoranthene	< 20.0	ug/L	A		Benzidine	< 200	ug/L	A	
Pyrene	< 20.0	ug/L	A		Butyl benzyl phthalate	< 100	ug/L	A	
Benzo(a)anthracene	< 20.0	ug/L	A		Chrysene	< 20.0	ug/L	A	
3,3'-Dichlorobenzidine	< 100	ug/L	A		Bis(2-ethylhexyl)phthalate	< 100	ug/L	A	
Di-n-octylphthalate	< 100	ug/L	N		Benzo(b)fluoranthene	< 20.0	ug/L	A	
Benzo(k)fluoranthene	< 20.0	ug/L	A		Benzo(a)pyrene	< 20.0	ug/L	A	
Indeno(1,2,3-cd)pyrene	< 20.0	ug/L	A		Dibenzo(a,h)anthracene	< 20.0	ug/L	A	
Benzo(g,h,i)perylene	< 20.0	ug/L	A		Phenol	3,970	ug/L	A	
2-Chlorophenol	< 100	ug/L	A		2-Methylphenol (o-cresol)	< 100	ug/L	A	
3&4-Methylphenol (m&p-cresol)	5,930	ug/L	A		Cresols, Total	5,930	ug/L	A	
2-Nitrophenol	< 200	ug/L	A		2,4-Dimethylphenol	< 100	ug/L	A	
2,4-Dichlorophenol	< 100	ug/L	A		2,6-Dichlorophenol	< 100	ug/L	N	
4-Chloro-3-methylphenol	< 200	ug/L	A		2,4,5-Trichlorophenol	< 200	ug/L	A	
2,4,6-Trichlorophenol	< 200	ug/L	A		2,4-Dinitrophenol	< 400	ug/L	A	
4-Nitrophenol	< 200	ug/L	A		4,6-Dinitro-2-methylphenol	< 400	ug/L	A	
Pentachlorophenol	< 200	ug/L	A		BaP Toxic Equiv. Quotient	< 46.2	ug/L	U	
B/N Surr.1 Nitrobenzene-d5	59	%	N		B/N Surr.2 2-Fluorobiphenyl	37	%	N	
B/N Surr.3 Terphenyl-d14	88	%	N		Acid Surr.1 2-Fluorophenol	40	%	N	
Acid Surr.2 Phenol-d8	35	%	N		Acid Surr.3 Tribromophenol	86	%	N	
Unidentified Peaks	>10		U						

CLIENT: Casella Waste Management, Inc.
PROJECT: NEWSVT LF May-Oct Leachate
REPORT DATE: 10/28/2014

WORK ORDER: **1410-21185**
DATE RECEIVED: 10/09/2014

TEST METHOD: EPA 8260C

002 Site: Phase II — Sampled: 10/8/14 14:15 — Test Date: 10/10/14 W SJM

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Dichlorodifluoromethane	< 25.0	ug/L	A		Chloromethane	< 15.0	ug/L	N	
Vinyl chloride	< 10.0	ug/L	A		Bromomethane	< 25.0	ug/L	A	
Chloroethane	< 25.0	ug/L	A		Trichlorofluoromethane	< 10.0	ug/L	A	
Diethyl ether	< 25.0	ug/L	N		1,1-Dichloroethene	< 5.0	ug/L	A	
Acetone	551	ug/L	A		Carbon disulfide	< 25.0	ug/L	A	
Methylene chloride	< 25.0	ug/L	A		t-Butanol	958	ug/L	N	
Methyl-t-butyl ether (MTBE)	< 10.0	ug/L	A		trans-1,2-Dichloroethene	< 5.0	ug/L	A	
Di-isopropyl ether (DIPE)	< 10.0	ug/L	N		1,1-Dichloroethane	< 5.0	ug/L	A	
Ethyl-t-butyl ether (ETBE)	< 10.0	ug/L	N		2-Butanone	223	ug/L	A	
2,2-Dichloropropane	< 10.0	ug/L	N		cis-1,2-Dichloroethene	< 5.0	ug/L	N	
Bromochloromethane	< 10.0	ug/L	N		Chloroform	< 5.0	ug/L	A	
Tetrahydrofuran	1,240	ug/L	U		1,1,1-Trichloroethane	< 5.0	ug/L	A	
Carbon tetrachloride	< 5.0	ug/L	A		1,1-Dichloropropene	< 5.0	ug/L	N	
Benzene	< 5.0	ug/L	A		t-Amylmethyl ether (TAME)	< 10.0	ug/L	N	
1,2-Dichloroethane	< 5.0	ug/L	A		Trichloroethene	< 5.0	ug/L	A	
1,2-Dichloropropane	< 10.0	ug/L	A		Dibromomethane	< 10.0	ug/L	N	
Bromodichloromethane	< 2.5	ug/L	A		cis-1,3-Dichloropropene	< 10.0	ug/L	A	
4-Methyl-2-pentanone (MIBK)	< 50.0	ug/L	N		Toluene	17.2	ug/L	A	
trans-1,3-Dichloropropene	< 10.0	ug/L	A		1,1,2-Trichloroethane	< 5.0	ug/L	A	
Tetrachloroethene	< 5.0	ug/L	A		1,3-Dichloropropane	< 5.0	ug/L	N	
2-Hexanone	< 50.0	ug/L	N		Dibromochloromethane	< 10.0	ug/L	A	
1,2-Dibromoethane	< 5.0	ug/L	A		Chlorobenzene	< 5.0	ug/L	A	
Ethylbenzene	21.6	ug/L	A		1,1,1,2-Tetrachloroethane	< 10.0	ug/L	A	
Xylenes, Total	56.8	ug/L	A		Styrene	< 5.0	ug/L	N	
Bromoform	< 10.0	ug/L	A		Isopropylbenzene	< 5.0	ug/L	A	
1,1,2,2-Tetrachloroethane	< 10.0	ug/L	A		Bromobenzene	< 5.0	ug/L	N	
n-Propylbenzene	< 5.0	ug/L	A		1,2,3-Trichloropropane	< 10.0	ug/L	N	
2-Chlorotoluene	< 5.0	ug/L	N		1,3,5-Trimethylbenzene	< 5.0	ug/L	A	
4-Chlorotoluene	< 5.0	ug/L	N		t-Butylbenzene	< 5.0	ug/L	A	
1,2,4-Trimethylbenzene	8.6	ug/L	A		s-Butylbenzene	< 5.0	ug/L	N	
4-Isopropyltoluene	< 5.0	ug/L	A		1,3-Dichlorobenzene	< 5.0	ug/L	A	
1,4-Dichlorobenzene	5.3	ug/L	A		n-Butylbenzene	< 10.0	ug/L	A	
1,2-Dichlorobenzene	< 5.0	ug/L	A		1,2-Dibromo-3-Chloropropane	< 10.0	ug/L	A	
1,2,4-Trichlorobenzene	< 10.0	ug/L	A		1,3,5-Trichlorobenzene	< 10.0	ug/L	N	
Hexachlorobutadiene	< 2.5	ug/L	N		Naphthalene	< 10.0	ug/L	A	
1,2,3-Trichlorobenzene	< 10.0	ug/L	N		Surr. 1 (Dibromofluoromethane)	101	%	N	
Surr. 3 (4-Bromofluorobenzene)	94	%	N		Surr. 2 (Toluene d8)	95	%	N	
Unidentified Peaks	3		U						

CLIENT: Casella Waste Management, Inc.
PROJECT: NEWSVT LF May-Oct Leachate
REPORT DATE: 10/28/2014

WORK ORDER: **1410-21185**
DATE RECEIVED: 10/09/2014

TEST METHOD: EPA 8270D

003 Site: Phase III Cell 1 Sampled: 10/8/14 14:30 Test Date: 10/14/14 W FAA

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Extraction EPA 3510C	Extracted		A		N-Nitrosodimethylamine	< 200	ug/L	A	
Pyridine	< 200	ug/L	A		Aniline	< 200	ug/L	N	
Bis(2-chloroethyl)ether	< 100	ug/L	A		1,2-Dichlorobenzene	< 40.0	ug/L	A	
1,3-Dichlorobenzene	< 40.0	ug/L	A		1,4-Dichlorobenzene	< 40.0	ug/L	A	
Benzyl alcohol	< 400	ug/L	N		Bis(2-chloroisopropyl)ether	< 200	ug/L	A	
N-Nitrosodi-n-propylamine	< 200	ug/L	A		Hexachloroethane	< 100	ug/L	A	
Nitrobenzene	< 100	ug/L	A		N-Nitrosopiperidine	< 200	ug/L	N	
Isophorone	< 40.0	ug/L	A		Bis(2-chloroethoxy)methane	< 100	ug/L	A	
1,2,4-Trichlorobenzene	< 40.0	ug/L	A		Naphthalene	< 20.0	ug/L	A	
4-Chloroaniline	< 100	ug/L	N		Hexachlorobutadiene	< 100	ug/L	A	
N-Nitrosodi-n-butylamine	< 100	ug/L	N		2-Methylnaphthalene	< 20.0	ug/L	A	
1-Methylnaphthalene	< 20.0	ug/L	U		Hexachlorocyclopentadiene	< 400	ug/L	A	
2-Chloronaphthalene	< 40.0	ug/L	A		1-Chloronaphthalene	< 40.0	ug/L	N	
2-Nitroaniline	< 400	ug/L	N		Dimethyl phthalate	< 100	ug/L	A	
2,6-Dinitrotoluene	< 100	ug/L	A		Acenaphthylene	< 20.0	ug/L	A	
3-Nitroaniline	< 100	ug/L	N		Acenaphthene	< 20.0	ug/L	A	
Dibenzofuran	< 40.0	ug/L	N		2,4-Dinitrotoluene	< 100	ug/L	A	
1-Naphthylamine	< 200	ug/L	N		2-Naphthylamine	< 200	ug/L	N	
Fluorene	< 20.0	ug/L	A		Diethyl phthalate	< 100	ug/L	A	
4-Chlorophenyl phenyl ether	< 40.0	ug/L	A		4-Nitroaniline	< 400	ug/L	N	
N-Nitrosodiphenylamine	< 100	ug/L	A		Azobenzene	< 100	ug/L	U	
4-Bromophenyl phenyl ether	< 40.0	ug/L	A		Hexachlorobenzene	< 100	ug/L	A	
Phenanthrene	< 20.0	ug/L	A		Anthracene	< 20.0	ug/L	A	
Carbazole	< 100	ug/L	N		Di-n-butylphthalate	< 200	ug/L	A	
Fluoranthene	< 20.0	ug/L	A		Benzidine	< 200	ug/L	A	
Pyrene	< 20.0	ug/L	A		Butyl benzyl phthalate	< 100	ug/L	A	
Benzo(a)anthracene	< 20.0	ug/L	A		Chrysene	< 20.0	ug/L	A	
3,3'-Dichlorobenzidine	< 100	ug/L	A		Bis(2-ethylhexyl)phthalate	< 100	ug/L	A	
Di-n-octylphthalate	< 100	ug/L	N		Benzo(b)fluoranthene	< 20.0	ug/L	A	
Benzo(k)fluoranthene	< 20.0	ug/L	A		Benzo(a)pyrene	< 20.0	ug/L	A	
Indeno(1,2,3-cd)pyrene	< 20.0	ug/L	A		Dibenzo(a,h)anthracene	< 20.0	ug/L	A	
Benzo(g,h,i)perylene	< 20.0	ug/L	A		Phenol	80.2	ug/L	A	
2-Chlorophenol	< 100	ug/L	A		2-Methylphenol (o-cresol)	< 100	ug/L	A	
3&4-Methylphenol (m&p-cresol)	118	ug/L	A		Cresols, Total	118	ug/L	A	
2-Nitrophenol	< 200	ug/L	A		2,4-Dimethylphenol	< 100	ug/L	A	
2,4-Dichlorophenol	< 100	ug/L	A		2,6-Dichlorophenol	< 100	ug/L	N	
4-Chloro-3-methylphenol	< 200	ug/L	A		2,4,5-Trichlorophenol	< 200	ug/L	A	
2,4,6-Trichlorophenol	< 200	ug/L	A		2,4-Dinitrophenol	< 400	ug/L	A	
4-Nitrophenol	< 200	ug/L	A		4,6-Dinitro-2-methylphenol	< 400	ug/L	A	
Pentachlorophenol	< 200	ug/L	A		BaP Toxic Equiv. Quotient	< 46.2	ug/L	U	
B/N Surr.1 Nitrobenzene-d5	57	%	N		B/N Surr.2 2-Fluorobiphenyl	55	%	N	
B/N Surr.3 Terphenyl-d14	80	%	N		Acid Surr.1 2-Fluorophenol	35	%	N	
Acid Surr.2 Phenol-d8	26	%	N		Acid Surr.3 Tribromophenol	82	%	N	
Unidentified Peaks	>10		U						

CLIENT: Casella Waste Management, Inc.
PROJECT: NEWSVT LF May-Oct Leachate
REPORT DATE: 10/28/2014

WORK ORDER: **1410-21185**
DATE RECEIVED: 10/09/2014

TEST METHOD: EPA 8260C

003 Site: Phase III Cell 1 Sampled: 10/8/14 14:30 Test Date: 10/10/14 W SJM

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Dichlorodifluoromethane	< 25.0	ug/L	A		Chloromethane	< 15.0	ug/L	N	
Vinyl chloride	< 10.0	ug/L	A		Bromomethane	< 25.0	ug/L	A	
Chloroethane	< 25.0	ug/L	A		Trichlorofluoromethane	< 10.0	ug/L	A	
Diethyl ether	< 25.0	ug/L	N		1,1-Dichloroethene	< 5.0	ug/L	A	
Acetone	75.3	ug/L	A		Carbon disulfide	< 25.0	ug/L	A	
Methylene chloride	< 25.0	ug/L	A		t-Butanol	1,860	ug/L	N	
Methyl-t-butyl ether (MTBE)	< 10.0	ug/L	A		trans-1,2-Dichloroethene	< 5.0	ug/L	A	
Di-isopropyl ether (DIPE)	< 10.0	ug/L	N		1,1-Dichloroethane	< 5.0	ug/L	A	
Ethyl-t-butyl ether (ETBE)	< 10.0	ug/L	N		2-Butanone	< 50.0	ug/L	A	
2,2-Dichloropropane	< 10.0	ug/L	N		cis-1,2-Dichloroethene	< 5.0	ug/L	N	
Bromochloromethane	< 10.0	ug/L	N		Chloroform	< 5.0	ug/L	A	
Tetrahydrofuran	1,180	ug/L	U		1,1,1-Trichloroethane	< 5.0	ug/L	A	
Carbon tetrachloride	< 5.0	ug/L	A		1,1-Dichloropropene	< 5.0	ug/L	N	
Benzene	< 5.0	ug/L	A		t-Amylmethyl ether (TAME)	< 10.0	ug/L	N	
1,2-Dichloroethane	< 5.0	ug/L	A		Trichloroethene	< 5.0	ug/L	A	
1,2-Dichloropropane	< 10.0	ug/L	A		Dibromomethane	< 10.0	ug/L	N	
Bromodichloromethane	< 2.5	ug/L	A		cis-1,3-Dichloropropene	< 10.0	ug/L	A	
4-Methyl-2-pentanone (MIBK)	< 50.0	ug/L	N		Toluene	17.1	ug/L	A	
trans-1,3-Dichloropropene	< 10.0	ug/L	A		1,1,2-Trichloroethane	< 5.0	ug/L	A	
Tetrachloroethene	< 5.0	ug/L	A		1,3-Dichloropropane	< 5.0	ug/L	N	
2-Hexanone	< 50.0	ug/L	N		Dibromochloromethane	< 10.0	ug/L	A	
1,2-Dibromoethane	< 5.0	ug/L	A		Chlorobenzene	< 5.0	ug/L	A	
Ethylbenzene	< 5.0	ug/L	A		1,1,1,2-Tetrachloroethane	< 10.0	ug/L	A	
Xylenes, Total	37.0	ug/L	A		Styrene	< 5.0	ug/L	N	
Bromoform	< 10.0	ug/L	A		Isopropylbenzene	< 5.0	ug/L	A	
1,1,2,2-Tetrachloroethane	< 10.0	ug/L	A		Bromobenzene	< 5.0	ug/L	N	
n-Propylbenzene	< 5.0	ug/L	A		1,2,3-Trichloropropane	< 10.0	ug/L	N	
2-Chlorotoluene	< 5.0	ug/L	N		1,3,5-Trimethylbenzene	< 5.0	ug/L	A	
4-Chlorotoluene	< 5.0	ug/L	N		t-Butylbenzene	< 5.0	ug/L	A	
1,2,4-Trimethylbenzene	< 5.0	ug/L	A		s-Butylbenzene	< 5.0	ug/L	N	
4-Isopropyltoluene	< 5.0	ug/L	A		1,3-Dichlorobenzene	< 5.0	ug/L	A	
1,4-Dichlorobenzene	< 5.0	ug/L	A		n-Butylbenzene	< 10.0	ug/L	A	
1,2-Dichlorobenzene	< 5.0	ug/L	A		1,2-Dibromo-3-Chloropropane	< 10.0	ug/L	A	
1,2,4-Trichlorobenzene	< 10.0	ug/L	A		1,3,5-Trichlorobenzene	< 10.0	ug/L	N	
Hexachlorobutadiene	< 2.5	ug/L	N		Naphthalene	< 10.0	ug/L	A	
1,2,3-Trichlorobenzene	< 10.0	ug/L	N		Surr. 1 (Dibromofluoromethane)	101	%	N	
Surr. 2 (Toluene d8)	91	%	N		Surr. 3 (4-Bromofluorobenzene)	101	%	N	
Unidentified Peaks	3		U						

CLIENT: Casella Waste Management, Inc.
PROJECT: NEWSVT LF May-Oct Leachate
REPORT DATE: 10/28/2014

WORK ORDER: **1410-21185**
DATE RECEIVED: 10/09/2014

TEST METHOD: EPA 8270D

004 Site: Phase III Cell 2 Sampled: 10/8/14 14:50 Test Date: 10/15/14 W FAA

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Extraction EPA 3510C	Extracted		A		N-Nitrosodimethylamine	< 200	ug/L	A	
Pyridine	< 200	ug/L	A		Aniline	< 200	ug/L	N	
Bis(2-chloroethyl)ether	< 100	ug/L	A		1,2-Dichlorobenzene	< 40.0	ug/L	A	
1,3-Dichlorobenzene	< 40.0	ug/L	A		1,4-Dichlorobenzene	< 40.0	ug/L	A	
Benzyl alcohol	< 400	ug/L	N		Bis(2-chloroisopropyl)ether	< 200	ug/L	A	
N-Nitrosodi-n-propylamine	< 200	ug/L	A		Hexachloroethane	< 100	ug/L	A	
Nitrobenzene	< 100	ug/L	A		N-Nitrosopiperidine	< 200	ug/L	N	
Isophorone	< 40.0	ug/L	A		Bis(2-chloroethoxy)methane	< 100	ug/L	A	
1,2,4-Trichlorobenzene	< 40.0	ug/L	A		Naphthalene	< 20.0	ug/L	A	
4-Chloroaniline	< 100	ug/L	N		Hexachlorobutadiene	< 100	ug/L	A	
N-Nitrosodi-n-butylamine	< 100	ug/L	N		2-Methylnaphthalene	< 20.0	ug/L	A	
1-Methylnaphthalene	< 20.0	ug/L	U		Hexachlorocyclopentadiene	< 400	ug/L	A	
2-Chloronaphthalene	< 40.0	ug/L	A		1-Chloronaphthalene	< 40.0	ug/L	N	
2-Nitroaniline	< 400	ug/L	N		Dimethyl phthalate	< 100	ug/L	A	
2,6-Dinitrotoluene	< 100	ug/L	A		Acenaphthylene	< 20.0	ug/L	A	
3-Nitroaniline	< 100	ug/L	N		Acenaphthene	< 20.0	ug/L	A	
Dibenzofuran	< 40.0	ug/L	N		2,4-Dinitrotoluene	< 100	ug/L	A	
1-Naphthylamine	< 200	ug/L	N		2-Naphthylamine	< 200	ug/L	N	
Fluorene	< 20.0	ug/L	A		Diethyl phthalate	< 100	ug/L	A	
4-Chlorophenyl phenyl ether	< 40.0	ug/L	A		4-Nitroaniline	< 400	ug/L	N	
N-Nitrosodiphenylamine	< 100	ug/L	A		Azobenzene	< 100	ug/L	U	
4-Bromophenyl phenyl ether	< 40.0	ug/L	A		Hexachlorobenzene	< 100	ug/L	A	
Phenanthrene	< 20.0	ug/L	A		Anthracene	< 20.0	ug/L	A	
Carbazole	< 100	ug/L	N		Di-n-butylphthalate	< 200	ug/L	A	
Fluoranthene	< 20.0	ug/L	A		Benzidine	< 200	ug/L	A	
Pyrene	< 20.0	ug/L	A		Butyl benzyl phthalate	< 100	ug/L	A	
Benzo(a)anthracene	< 20.0	ug/L	A		Chrysene	< 20.0	ug/L	A	
3,3'-Dichlorobenzidine	< 100	ug/L	A		Bis(2-ethylhexyl)phthalate	< 100	ug/L	A	
Di-n-octylphthalate	< 100	ug/L	N		Benzo(b)fluoranthene	< 20.0	ug/L	A	
Benzo(k)fluoranthene	< 20.0	ug/L	A		Benzo(a)pyrene	< 20.0	ug/L	A	
Indeno(1,2,3-cd)pyrene	< 20.0	ug/L	A		Dibenzo(a,h)anthracene	< 20.0	ug/L	A	
Benzo(g,h,i)perylene	< 20.0	ug/L	A		Phenol	< 100	ug/L	A	
2-Chlorophenol	< 100	ug/L	A		2-Methylphenol (o-cresol)	< 100	ug/L	A	
3&4-Methylphenol (m&p-cresol)	< 100	ug/L	A		Cresols, Total	< 200	ug/L	A	
2-Nitrophenol	< 200	ug/L	A		2,4-Dimethylphenol	< 100	ug/L	A	
2,4-Dichlorophenol	< 100	ug/L	A		2,6-Dichlorophenol	< 100	ug/L	N	
4-Chloro-3-methylphenol	< 200	ug/L	A		2,4,5-Trichlorophenol	< 200	ug/L	A	
2,4,6-Trichlorophenol	< 200	ug/L	A		2,4-Dinitrophenol	< 400	ug/L	A	
4-Nitrophenol	< 200	ug/L	A		4,6-Dinitro-2-methylphenol	< 400	ug/L	A	
Pentachlorophenol	< 200	ug/L	A		BaP Toxic Equiv. Quotient	< 46.2	ug/L	U	
B/N Surr.1 Nitrobenzene-d5	75	%	N		B/N Surr.2 2-Fluorobiphenyl	80	%	N	
B/N Surr.3 Terphenyl-d14	98	%	N		Acid Surr.1 2-Fluorophenol	34	%	N	
Acid Surr.2 Phenol-d8	32	%	N		Acid Surr.3 Tribromophenol	105	%	N	
Unidentified Peaks	>10		U						

CLIENT: Casella Waste Management, Inc.
PROJECT: NEWSVT LF May-Oct Leachate
REPORT DATE: 10/28/2014

WORK ORDER: **1410-21185**
DATE RECEIVED: 10/09/2014

TEST METHOD: EPA 8260C

004 Site: Phase III Cell 2 Sampled: 10/8/14 14:50 Test Date: 10/10/14 W SJM

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Dichlorodifluoromethane	< 25.0	ug/L	A		Chloromethane	< 15.0	ug/L	N	
Vinyl chloride	< 10.0	ug/L	A		Bromomethane	< 25.0	ug/L	A	
Chloroethane	< 25.0	ug/L	A		Trichlorofluoromethane	< 10.0	ug/L	A	
Diethyl ether	< 25.0	ug/L	N		1,1-Dichloroethene	< 5.0	ug/L	A	
Acetone	< 50.0	ug/L	A		Carbon disulfide	< 25.0	ug/L	A	
Methylene chloride	< 25.0	ug/L	A		t-Butanol	2,200	ug/L	N	
Methyl-t-butyl ether (MTBE)	14.5	ug/L	A		trans-1,2-Dichloroethene	< 5.0	ug/L	A	
Di-isopropyl ether (DIPE)	< 10.0	ug/L	N		1,1-Dichloroethane	< 5.0	ug/L	A	
Ethyl-t-butyl ether (ETBE)	< 10.0	ug/L	N		2-Butanone	< 50.0	ug/L	A	
2,2-Dichloropropane	< 10.0	ug/L	N		cis-1,2-Dichloroethene	13.2	ug/L	N	
Bromochloromethane	< 10.0	ug/L	N		Chloroform	< 5.0	ug/L	A	
Tetrahydrofuran	2,550	ug/L	U		1,1,1-Trichloroethane	< 5.0	ug/L	A	
Carbon tetrachloride	< 5.0	ug/L	A		1,1-Dichloropropene	< 5.0	ug/L	N	
Benzene	10.9	ug/L	A		t-Amylmethyl ether (TAME)	< 10.0	ug/L	N	
1,2-Dichloroethane	< 5.0	ug/L	A		Trichloroethene	< 5.0	ug/L	A	
1,2-Dichloropropane	< 10.0	ug/L	A		Dibromomethane	< 10.0	ug/L	N	
Bromodichloromethane	< 2.5	ug/L	A		cis-1,3-Dichloropropene	< 10.0	ug/L	A	
4-Methyl-2-pentanone (MIBK)	< 50.0	ug/L	N		Toluene	151	ug/L	A	
trans-1,3-Dichloropropene	< 10.0	ug/L	A		1,1,2-Trichloroethane	< 5.0	ug/L	A	
Tetrachloroethene	< 5.0	ug/L	A		1,3-Dichloropropane	< 5.0	ug/L	N	
2-Hexanone	< 50.0	ug/L	N		Dibromochloromethane	< 10.0	ug/L	A	
1,2-Dibromoethane	< 5.0	ug/L	A		Chlorobenzene	< 5.0	ug/L	A	
Ethylbenzene	67.5	ug/L	A		1,1,1,2-Tetrachloroethane	< 10.0	ug/L	A	
Xylenes, Total	153	ug/L	A		Styrene	26.0	ug/L	N	
Bromoform	< 10.0	ug/L	A		Isopropylbenzene	< 5.0	ug/L	A	
1,1,2,2-Tetrachloroethane	< 10.0	ug/L	A		Bromobenzene	< 5.0	ug/L	N	
n-Propylbenzene	< 5.0	ug/L	A		1,2,3-Trichloropropane	< 10.0	ug/L	N	
2-Chlorotoluene	< 5.0	ug/L	N		1,3,5-Trimethylbenzene	< 5.0	ug/L	A	
4-Chlorotoluene	< 5.0	ug/L	N		t-Butylbenzene	< 5.0	ug/L	A	
1,2,4-Trimethylbenzene	16.6	ug/L	A		s-Butylbenzene	< 5.0	ug/L	N	
4-Isopropyltoluene	21.2	ug/L	A		1,3-Dichlorobenzene	< 5.0	ug/L	A	
1,4-Dichlorobenzene	10.8	ug/L	A		n-Butylbenzene	< 10.0	ug/L	A	
1,2-Dichlorobenzene	< 5.0	ug/L	A		1,2-Dibromo-3-Chloropropane	< 10.0	ug/L	A	
1,2,4-Trichlorobenzene	< 10.0	ug/L	A		1,3,5-Trichlorobenzene	< 10.0	ug/L	N	
Hexachlorobutadiene	< 2.5	ug/L	N		Naphthalene	< 10.0	ug/L	A	
1,2,3-Trichlorobenzene	< 10.0	ug/L	N		Surr. 1 (Dibromofluoromethane)	99	%	N	
Surr. 2 (Toluene d8)	92	%	N		Surr. 3 (4-Bromofluorobenzene)	100	%	N	
Unidentified Peaks	3		U						

CLIENT: Casella Waste Management, Inc.
PROJECT: NEWSVT LF May-Oct Leachate
REPORT DATE: 10/28/2014

WORK ORDER: **1410-21185**
DATE RECEIVED: 10/09/2014

TEST METHOD: EPA 8270D

005 Site: Phase IV Cell 1 Sampled: 10/8/14 15:10 Test Date: 10/15/14 W FAA

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Extraction EPA 3510C	Extracted		A		N-Nitrosodimethylamine	< 200	ug/L	A	
Pyridine	< 200	ug/L	A		Aniline	< 200	ug/L	N	
Bis(2-chloroethyl)ether	< 100	ug/L	A		1,2-Dichlorobenzene	< 40.0	ug/L	A	
1,3-Dichlorobenzene	< 40.0	ug/L	A		1,4-Dichlorobenzene	< 40.0	ug/L	A	
Benzyl alcohol	< 400	ug/L	N		Bis(2-chloroisopropyl)ether	< 200	ug/L	A	
N-Nitrosodi-n-propylamine	< 200	ug/L	A		Hexachloroethane	< 100	ug/L	A	
Nitrobenzene	< 100	ug/L	A		N-Nitrosopiperidine	< 200	ug/L	N	
Isophorone	< 40.0	ug/L	A		Bis(2-chloroethoxy)methane	< 100	ug/L	A	
1,2,4-Trichlorobenzene	< 40.0	ug/L	A		Naphthalene	26.2	ug/L	A	
4-Chloroaniline	< 100	ug/L	N		Hexachlorobutadiene	< 100	ug/L	A	
N-Nitrosodi-n-butylamine	< 100	ug/L	N		2-Methylnaphthalene	< 20.0	ug/L	A	
1-Methylnaphthalene	< 20.0	ug/L	U		Hexachlorocyclopentadiene	< 400	ug/L	A	
2-Chloronaphthalene	< 40.0	ug/L	A		1-Chloronaphthalene	< 40.0	ug/L	N	
2-Nitroaniline	< 400	ug/L	N		Dimethyl phthalate	< 100	ug/L	A	
2,6-Dinitrotoluene	< 100	ug/L	A		Acenaphthylene	< 20.0	ug/L	A	
3-Nitroaniline	< 100	ug/L	N		Acenaphthene	< 20.0	ug/L	A	
Dibenzofuran	< 40.0	ug/L	N		2,4-Dinitrotoluene	< 100	ug/L	A	
1-Naphthylamine	< 200	ug/L	N		2-Naphthylamine	< 200	ug/L	N	
Fluorene	< 20.0	ug/L	A		Diethyl phthalate	< 100	ug/L	A	
4-Chlorophenyl phenyl ether	< 40.0	ug/L	A		4-Nitroaniline	< 400	ug/L	N	
N-Nitrosodiphenylamine	< 100	ug/L	A		Azobenzene	< 100	ug/L	U	
4-Bromophenyl phenyl ether	< 40.0	ug/L	A		Hexachlorobenzene	< 100	ug/L	A	
Phenanthrene	< 20.0	ug/L	A		Anthracene	< 20.0	ug/L	A	
Carbazole	< 100	ug/L	N		Di-n-butylphthalate	< 200	ug/L	A	
Fluoranthene	< 20.0	ug/L	A		Benzidine	< 200	ug/L	A	
Pyrene	< 20.0	ug/L	A		Butyl benzyl phthalate	< 100	ug/L	A	
Benzo(a)anthracene	< 20.0	ug/L	A		Chrysene	< 20.0	ug/L	A	
3,3'-Dichlorobenzidine	< 100	ug/L	A		Bis(2-ethylhexyl)phthalate	123	ug/L	A	
Di-n-octylphthalate	< 100	ug/L	N		Benzo(b)fluoranthene	< 20.0	ug/L	A	
Benzo(k)fluoranthene	< 20.0	ug/L	A		Benzo(a)pyrene	< 20.0	ug/L	A	
Indeno(1,2,3-cd)pyrene	< 20.0	ug/L	A		Dibenzo(a,h)anthracene	< 20.0	ug/L	A	
Benzo(g,h,i)perylene	< 20.0	ug/L	A		Phenol	243	ug/L	A	
2-Chlorophenol	< 100	ug/L	A		2-Methylphenol (o-cresol)	< 100	ug/L	A	
3&4-Methylphenol (m&p-cresol)	1,540	ug/L	A		Cresols, Total	1,540	ug/L	A	
2-Nitrophenol	< 200	ug/L	A		2,4-Dimethylphenol	< 100	ug/L	A	
2,4-Dichlorophenol	< 100	ug/L	A		2,6-Dichlorophenol	< 100	ug/L	N	
4-Chloro-3-methylphenol	< 200	ug/L	A		2,4,5-Trichlorophenol	< 200	ug/L	A	
2,4,6-Trichlorophenol	< 200	ug/L	A		2,4-Dinitrophenol	< 400	ug/L	A	
4-Nitrophenol	< 200	ug/L	A		4,6-Dinitro-2-methylphenol	< 400	ug/L	A	
Pentachlorophenol	< 200	ug/L	A		BaP Toxic Equiv. Quotient	< 46.2	ug/L	U	
B/N Surr.1 Nitrobenzene-d5	73	%	N		B/N Surr.2 2-Fluorobiphenyl	69	%	N	
B/N Surr.3 Terphenyl-d14	97	%	N		Acid Surr.1 2-Fluorophenol	35	%	N	
Acid Surr.2 Phenol-d8	28	%	N		Acid Surr.3 Tribromophenol	102	%	N	
Unidentified Peaks	>10		U						

CLIENT: Casella Waste Management, Inc.
PROJECT: NEWSVT LF May-Oct Leachate
REPORT DATE: 10/28/2014

WORK ORDER: **1410-21185**
DATE RECEIVED: 10/09/2014

TEST METHOD: EPA 8260C

005 Site: Phase IV Cell 1 Sampled: 10/8/14 15:10 Test Date: 10/10/14 W SJM

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Dichlorodifluoromethane	< 25.0	ug/L	A		Chloromethane	< 15.0	ug/L	N	
Vinyl chloride	< 10.0	ug/L	A		Bromomethane	< 25.0	ug/L	A	
Chloroethane	< 25.0	ug/L	A		Trichlorofluoromethane	< 10.0	ug/L	A	
Diethyl ether	29.4	ug/L	N		1,1-Dichloroethene	< 5.0	ug/L	A	
Acetone	1,640	ug/L	A		Carbon disulfide	< 25.0	ug/L	A	
Methylene chloride	< 25.0	ug/L	A		t-Butanol	2,020	ug/L	N	
Methyl-t-butyl ether (MTBE)	< 10.0	ug/L	A		trans-1,2-Dichloroethene	< 5.0	ug/L	A	
Di-isopropyl ether (DIPE)	< 10.0	ug/L	N		1,1-Dichloroethane	< 5.0	ug/L	A	
Ethyl-t-butyl ether (ETBE)	< 10.0	ug/L	N		2-Butanone	3,000	ug/L	A	
2,2-Dichloropropane	< 10.0	ug/L	N		cis-1,2-Dichloroethene	< 5.0	ug/L	N	
Bromochloromethane	< 10.0	ug/L	N		Chloroform	< 5.0	ug/L	A	
Tetrahydrofuran	3,130	ug/L	U		1,1,1-Trichloroethane	< 5.0	ug/L	A	
Carbon tetrachloride	< 5.0	ug/L	A		1,1-Dichloropropene	< 5.0	ug/L	N	
Benzene	< 5.0	ug/L	A		t-Amylmethyl ether (TAME)	< 10.0	ug/L	N	
1,2-Dichloroethane	< 5.0	ug/L	A		Trichloroethene	< 5.0	ug/L	A	
1,2-Dichloropropane	< 10.0	ug/L	A		Dibromomethane	< 10.0	ug/L	N	
Bromodichloromethane	< 2.5	ug/L	A		cis-1,3-Dichloropropene	< 10.0	ug/L	A	
4-Methyl-2-pentanone (MIBK)	118	ug/L	N		Toluene	64.2	ug/L	A	
trans-1,3-Dichloropropene	< 10.0	ug/L	A		1,1,2-Trichloroethane	< 5.0	ug/L	A	
Tetrachloroethene	< 5.0	ug/L	A		1,3-Dichloropropane	< 5.0	ug/L	N	
2-Hexanone	< 50.0	ug/L	N		Dibromochloromethane	< 10.0	ug/L	A	
1,2-Dibromoethane	< 5.0	ug/L	A		Chlorobenzene	< 5.0	ug/L	A	
Ethylbenzene	15.3	ug/L	A		1,1,1,2-Tetrachloroethane	< 10.0	ug/L	A	
Xylenes, Total	30.7	ug/L	A		Styrene	< 5.0	ug/L	N	
Bromoform	< 10.0	ug/L	A		Isopropylbenzene	< 5.0	ug/L	A	
1,1,2,2-Tetrachloroethane	< 10.0	ug/L	A		Bromobenzene	< 5.0	ug/L	N	
n-Propylbenzene	< 5.0	ug/L	A		1,2,3-Trichloropropane	< 10.0	ug/L	N	
2-Chlorotoluene	< 5.0	ug/L	N		1,3,5-Trimethylbenzene	< 5.0	ug/L	A	
4-Chlorotoluene	< 5.0	ug/L	N		t-Butylbenzene	< 5.0	ug/L	A	
1,2,4-Trimethylbenzene	5.8	ug/L	A		s-Butylbenzene	< 5.0	ug/L	N	
4-Isopropyltoluene	9.4	ug/L	A		1,3-Dichlorobenzene	< 5.0	ug/L	A	
1,4-Dichlorobenzene	< 5.0	ug/L	A		n-Butylbenzene	< 10.0	ug/L	A	
1,2-Dichlorobenzene	< 5.0	ug/L	A		1,2-Dibromo-3-Chloropropane	< 10.0	ug/L	A	
1,2,4-Trichlorobenzene	< 10.0	ug/L	A		1,3,5-Trichlorobenzene	< 10.0	ug/L	N	
Hexachlorobutadiene	< 2.5	ug/L	N		Naphthalene	33.4	ug/L	A	
1,2,3-Trichlorobenzene	< 10.0	ug/L	N		Surr. 1 (Dibromofluoromethane)	96	%	N	
Surr. 2 (Toluene d8)	94	%	N		Surr. 3 (4-Bromofluorobenzene)	93	%	N	
Unidentified Peaks	6		U						

CLIENT: Casella Waste Management, Inc.
PROJECT: NEWSVT LF May-Oct Leachate
REPORT DATE: 10/28/2014

WORK ORDER: **1410-21185**
DATE RECEIVED: 10/09/2014

TEST METHOD: EPA 8270D

006 Site: Phase IV Cell 2 Sampled: 10/8/14 15:25 Test Date: 10/15/14 W FAA

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Extraction EPA 3510C	Extracted		A		N-Nitrosodimethylamine	< 200	ug/L	A	
Pyridine	< 200	ug/L	A		Aniline	< 200	ug/L	N	
Bis(2-chloroethyl)ether	< 100	ug/L	A		1,2-Dichlorobenzene	< 40.0	ug/L	A	
1,3-Dichlorobenzene	< 40.0	ug/L	A		1,4-Dichlorobenzene	< 40.0	ug/L	A	
Benzyl alcohol	< 400	ug/L	N		Bis(2-chloroisopropyl)ether	< 200	ug/L	A	
N-Nitrosodi-n-propylamine	< 200	ug/L	A		Hexachloroethane	< 100	ug/L	A	
Nitrobenzene	< 100	ug/L	A		N-Nitrosopiperidine	< 200	ug/L	N	
Isophorone	< 40.0	ug/L	A		Bis(2-chloroethoxy)methane	< 100	ug/L	A	
1,2,4-Trichlorobenzene	< 40.0	ug/L	A		Naphthalene	< 20.0	ug/L	A	
4-Chloroaniline	< 100	ug/L	N		Hexachlorobutadiene	< 100	ug/L	A	
N-Nitrosodi-n-butylamine	< 100	ug/L	N		2-Methylnaphthalene	< 20.0	ug/L	A	
1-Methylnaphthalene	< 20.0	ug/L	U		Hexachlorocyclopentadiene	< 400	ug/L	A	
2-Chloronaphthalene	< 40.0	ug/L	A		1-Chloronaphthalene	< 40.0	ug/L	N	
2-Nitroaniline	< 400	ug/L	N		Dimethyl phthalate	< 100	ug/L	A	
2,6-Dinitrotoluene	< 100	ug/L	A		Acenaphthylene	< 20.0	ug/L	A	
3-Nitroaniline	< 100	ug/L	N		Acenaphthene	< 20.0	ug/L	A	
Dibenzofuran	< 40.0	ug/L	N		2,4-Dinitrotoluene	< 100	ug/L	A	
1-Naphthylamine	< 200	ug/L	N		2-Naphthylamine	< 200	ug/L	N	
Fluorene	< 20.0	ug/L	A		Diethyl phthalate	< 100	ug/L	A	
4-Chlorophenyl phenyl ether	< 40.0	ug/L	A		4-Nitroaniline	< 400	ug/L	N	
N-Nitrosodiphenylamine	< 100	ug/L	A		Azobenzene	< 100	ug/L	U	
4-Bromophenyl phenyl ether	< 40.0	ug/L	A		Hexachlorobenzene	< 100	ug/L	A	
Phenanthrene	< 20.0	ug/L	A		Anthracene	< 20.0	ug/L	A	
Carbazole	< 100	ug/L	N		Di-n-butylphthalate	< 200	ug/L	A	
Fluoranthene	< 20.0	ug/L	A		Benzidine	< 200	ug/L	A	
Pyrene	< 20.0	ug/L	A		Butyl benzyl phthalate	< 100	ug/L	A	
Benzo(a)anthracene	< 20.0	ug/L	A		Chrysene	< 20.0	ug/L	A	
3,3'-Dichlorobenzidine	< 100	ug/L	A		Bis(2-ethylhexyl)phthalate	< 100	ug/L	A	
Di-n-octylphthalate	< 100	ug/L	N		Benzo(b)fluoranthene	< 20.0	ug/L	A	
Benzo(k)fluoranthene	< 20.0	ug/L	A		Benzo(a)pyrene	< 20.0	ug/L	A	
Indeno(1,2,3-cd)pyrene	< 20.0	ug/L	A		Dibenzo(a,h)anthracene	< 20.0	ug/L	A	
Benzo(g,h,i)perylene	< 20.0	ug/L	A		Phenol	136	ug/L	A	
2-Chlorophenol	< 100	ug/L	A		2-Methylphenol (o-cresol)	< 100	ug/L	A	
3&4-Methylphenol (m&p-cresol)	5,570	ug/L	A		Cresols, Total	5,570	ug/L	A	
2-Nitrophenol	< 200	ug/L	A		2,4-Dimethylphenol	< 100	ug/L	A	
2,4-Dichlorophenol	< 100	ug/L	A		2,6-Dichlorophenol	< 100	ug/L	N	
4-Chloro-3-methylphenol	< 200	ug/L	A		2,4,5-Trichlorophenol	< 200	ug/L	A	
2,4,6-Trichlorophenol	< 200	ug/L	A		2,4-Dinitrophenol	< 400	ug/L	A	
4-Nitrophenol	< 200	ug/L	A		4,6-Dinitro-2-methylphenol	< 400	ug/L	A	
Pentachlorophenol	< 200	ug/L	A		BaP Toxic Equiv. Quotient	< 46.2	ug/L	U	
B/N Surr.1 Nitrobenzene-d5	74	%	N		B/N Surr.2 2-Fluorobiphenyl	75	%	N	
B/N Surr.3 Terphenyl-d14	96	%	N		Acid Surr.1 2-Fluorophenol	30	%	N	
Acid Surr.2 Phenol-d8	22	%	N		Acid Surr.3 Tribromophenol	99	%	N	
Unidentified Peaks	>10		U						

CLIENT: Casella Waste Management, Inc.
PROJECT: NEWSVT LF May-Oct Leachate
REPORT DATE: 10/28/2014

WORK ORDER: **1410-21185**
DATE RECEIVED: 10/09/2014

TEST METHOD: EPA 8260C

006 Site: Phase IV Cell 2 Sampled: 10/8/14 15:25 Test Date: 10/10/14 W SJM

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Dichlorodifluoromethane	< 25.0	ug/L	A		Chloromethane	< 15.0	ug/L	N	
Vinyl chloride	< 10.0	ug/L	A		Bromomethane	< 25.0	ug/L	A	
Chloroethane	< 25.0	ug/L	A		Trichlorofluoromethane	< 10.0	ug/L	A	
Diethyl ether	45.7	ug/L	N		1,1-Dichloroethene	< 5.0	ug/L	A	
Acetone	13,800	ug/L	A		Carbon disulfide	< 25.0	ug/L	A	
Methylene chloride	< 25.0	ug/L	A		t-Butanol	1,990	ug/L	N	
Methyl-t-butyl ether (MTBE)	< 10.0	ug/L	A		trans-1,2-Dichloroethene	< 5.0	ug/L	A	
Di-isopropyl ether (DIPE)	< 10.0	ug/L	N		1,1-Dichloroethane	< 5.0	ug/L	A	
Ethyl-t-butyl ether (ETBE)	< 10.0	ug/L	N		2-Butanone	18,800	ug/L	A	
2,2-Dichloropropane	< 10.0	ug/L	N		cis-1,2-Dichloroethene	< 5.0	ug/L	N	
Bromochloromethane	< 10.0	ug/L	N		Chloroform	< 5.0	ug/L	A	
Tetrahydrofuran	4,360	ug/L	U		1,1,1-Trichloroethane	< 5.0	ug/L	A	
Carbon tetrachloride	< 5.0	ug/L	A		1,1-Dichloropropene	< 5.0	ug/L	N	
Benzene	7.6	ug/L	A		t-Amylmethyl ether (TAME)	< 10.0	ug/L	N	
1,2-Dichloroethane	< 5.0	ug/L	A		Trichloroethene	< 5.0	ug/L	A	
1,2-Dichloropropane	< 10.0	ug/L	A		Dibromomethane	< 10.0	ug/L	N	
Bromodichloromethane	< 2.5	ug/L	A		cis-1,3-Dichloropropene	< 10.0	ug/L	A	
4-Methyl-2-pentanone (MIBK)	273	ug/L	N		Toluene	69.8	ug/L	A	
trans-1,3-Dichloropropene	< 10.0	ug/L	A		1,1,2-Trichloroethane	< 5.0	ug/L	A	
Tetrachloroethene	< 5.0	ug/L	A		1,3-Dichloropropane	< 5.0	ug/L	N	
2-Hexanone	132	ug/L	N		Dibromochloromethane	< 10.0	ug/L	A	
1,2-Dibromoethane	< 5.0	ug/L	A		Chlorobenzene	< 5.0	ug/L	A	
Ethylbenzene	14.9	ug/L	A		1,1,1,2-Tetrachloroethane	< 10.0	ug/L	A	
Xylenes, Total	41.5	ug/L	A		Styrene	< 5.0	ug/L	N	
Bromoform	< 10.0	ug/L	A		Isopropylbenzene	< 5.0	ug/L	A	
1,1,2,2-Tetrachloroethane	< 10.0	ug/L	A		Bromobenzene	< 5.0	ug/L	N	
n-Propylbenzene	< 5.0	ug/L	A		1,2,3-Trichloropropane	< 10.0	ug/L	N	
2-Chlorotoluene	< 5.0	ug/L	N		1,3,5-Trimethylbenzene	< 5.0	ug/L	A	
4-Chlorotoluene	< 5.0	ug/L	N		t-Butylbenzene	< 5.0	ug/L	A	
1,2,4-Trimethylbenzene	7.2	ug/L	A		s-Butylbenzene	< 5.0	ug/L	N	
4-Isopropyltoluene	6.3	ug/L	A		1,3-Dichlorobenzene	< 5.0	ug/L	A	
1,4-Dichlorobenzene	5.5	ug/L	A		n-Butylbenzene	< 10.0	ug/L	A	
1,2-Dichlorobenzene	< 5.0	ug/L	A		1,2-Dibromo-3-Chloropropane	< 10.0	ug/L	A	
1,2,4-Trichlorobenzene	< 10.0	ug/L	A		1,3,5-Trichlorobenzene	< 10.0	ug/L	N	
Hexachlorobutadiene	< 2.5	ug/L	N		Naphthalene	10.0	ug/L	A	
1,2,3-Trichlorobenzene	< 10.0	ug/L	N		Surr. 1 (Dibromofluoromethane)	92	%	N	
Surr. 2 (Toluene d8)	102	%	N		Surr. 3 (4-Bromofluorobenzene)	97	%	N	
Unidentified Peaks	5		U						

CLIENT: Casella Waste Management, Inc.
PROJECT: NEWSVT LF May-Oct Leachate
REPORT DATE: 10/28/2014

WORK ORDER: **1410-21185**
DATE RECEIVED: 10/09/2014

TEST METHOD: EPA 8270D

007 Site: Phase IV Cell 3 Sampled: 10/8/14 15:45 Test Date: 10/15/14 W FAA

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Extraction EPA 3510C	Extracted		A		N-Nitrosodimethylamine	< 200	ug/L	A	
Pyridine	< 200	ug/L	A		Aniline	< 200	ug/L	N	
Bis(2-chloroethyl)ether	< 100	ug/L	A		1,2-Dichlorobenzene	< 40.0	ug/L	A	
1,3-Dichlorobenzene	< 40.0	ug/L	A		1,4-Dichlorobenzene	< 40.0	ug/L	A	
Benzyl alcohol	< 400	ug/L	N		Bis(2-chloroisopropyl)ether	< 200	ug/L	A	
N-Nitrosodi-n-propylamine	< 200	ug/L	A		Hexachloroethane	< 100	ug/L	A	
Nitrobenzene	< 100	ug/L	A		N-Nitrosopiperidine	< 200	ug/L	N	
Isophorone	< 40.0	ug/L	A		Bis(2-chloroethoxy)methane	< 100	ug/L	A	
1,2,4-Trichlorobenzene	< 40.0	ug/L	A		Naphthalene	< 20.0	ug/L	A	
4-Chloroaniline	< 100	ug/L	N		Hexachlorobutadiene	< 100	ug/L	A	
N-Nitrosodi-n-butylamine	< 100	ug/L	N		2-Methylnaphthalene	< 20.0	ug/L	A	
1-Methylnaphthalene	< 20.0	ug/L	U		Hexachlorocyclopentadiene	< 400	ug/L	A	
2-Chloronaphthalene	< 40.0	ug/L	A		1-Chloronaphthalene	< 40.0	ug/L	N	
2-Nitroaniline	< 400	ug/L	N		Dimethyl phthalate	< 100	ug/L	A	
2,6-Dinitrotoluene	< 100	ug/L	A		Acenaphthylene	< 20.0	ug/L	A	
3-Nitroaniline	< 100	ug/L	N		Acenaphthene	< 20.0	ug/L	A	
Dibenzofuran	< 40.0	ug/L	N		2,4-Dinitrotoluene	< 100	ug/L	A	
1-Naphthylamine	< 200	ug/L	N		2-Naphthylamine	< 200	ug/L	N	
Fluorene	< 20.0	ug/L	A		Diethyl phthalate	< 100	ug/L	A	
4-Chlorophenyl phenyl ether	< 40.0	ug/L	A		4-Nitroaniline	< 400	ug/L	N	
N-Nitrosodiphenylamine	< 100	ug/L	A		Azobenzene	< 100	ug/L	U	
4-Bromophenyl phenyl ether	< 40.0	ug/L	A		Hexachlorobenzene	< 100	ug/L	A	
Phenanthrene	< 20.0	ug/L	A		Anthracene	< 20.0	ug/L	A	
Carbazole	< 100	ug/L	N		Di-n-butylphthalate	< 200	ug/L	A	
Fluoranthene	< 20.0	ug/L	A		Benzidine	< 200	ug/L	A	
Pyrene	< 20.0	ug/L	A		Butyl benzyl phthalate	< 100	ug/L	A	
Benzo(a)anthracene	< 20.0	ug/L	A		Chrysene	< 20.0	ug/L	A	
3,3'-Dichlorobenzidine	< 100	ug/L	A		Bis(2-ethylhexyl)phthalate	< 100	ug/L	A	
Di-n-octylphthalate	< 100	ug/L	N		Benzo(b)fluoranthene	< 20.0	ug/L	A	
Benzo(k)fluoranthene	< 20.0	ug/L	A		Benzo(a)pyrene	< 20.0	ug/L	A	
Indeno(1,2,3-cd)pyrene	< 20.0	ug/L	A		Dibenzo(a,h)anthracene	< 20.0	ug/L	A	
Benzo(g,h,i)perylene	< 20.0	ug/L	A		Phenol	< 100	ug/L	A	
2-Chlorophenol	< 100	ug/L	A		2-Methylphenol (o-cresol)	< 100	ug/L	A	
3&4-Methylphenol (m&p-cresol)	154	ug/L	A		Cresols, Total	154	ug/L	A	
2-Nitrophenol	< 200	ug/L	A		2,4-Dimethylphenol	< 100	ug/L	A	
2,4-Dichlorophenol	< 100	ug/L	A		2,6-Dichlorophenol	< 100	ug/L	N	
4-Chloro-3-methylphenol	< 200	ug/L	A		2,4,5-Trichlorophenol	< 200	ug/L	A	
2,4,6-Trichlorophenol	< 200	ug/L	A		2,4-Dinitrophenol	< 400	ug/L	A	
4-Nitrophenol	< 200	ug/L	A		4,6-Dinitro-2-methylphenol	< 400	ug/L	A	
Pentachlorophenol	< 200	ug/L	A		BaP Toxic Equiv. Quotient	< 46.2	ug/L	U	
B/N Surr.1 Nitrobenzene-d5	72	%	N		B/N Surr.2 2-Fluorobiphenyl	79	%	N	
B/N Surr.3 Terphenyl-d14	99	%	N		Acid Surr.1 2-Fluorophenol	35	%	N	
Acid Surr.2 Phenol-d8	22	%	N		Acid Surr.3 Tribromophenol	97	%	N	
Unidentified Peaks	>10		U						

CLIENT: Casella Waste Management, Inc.
PROJECT: NEWSVT LF May-Oct Leachate
REPORT DATE: 10/28/2014

WORK ORDER: **1410-21185**
DATE RECEIVED: 10/09/2014

TEST METHOD: EPA 8260C

007 Site: Phase IV Cell 3 Sampled: 10/8/14 15:45 Test Date: 10/10/14 W SJM

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Dichlorodifluoromethane	< 25.0	ug/L	A		Chloromethane	< 15.0	ug/L	N	
Vinyl chloride	< 10.0	ug/L	A		Bromomethane	< 25.0	ug/L	A	
Chloroethane	< 25.0	ug/L	A		Trichlorofluoromethane	< 10.0	ug/L	A	
Diethyl ether	< 25.0	ug/L	N		1,1-Dichloroethene	< 5.0	ug/L	A	
Acetone	550	ug/L	A		Carbon disulfide	< 25.0	ug/L	A	
Methylene chloride	119	ug/L	A		t-Butanol	648	ug/L	N	
Methyl-t-butyl ether (MTBE)	< 10.0	ug/L	A		trans-1,2-Dichloroethene	< 5.0	ug/L	A	
Di-isopropyl ether (DIPE)	< 10.0	ug/L	N		1,1-Dichloroethane	< 5.0	ug/L	A	
Ethyl-t-butyl ether (ETBE)	< 10.0	ug/L	N		2-Butanone	1,150	ug/L	A	
2,2-Dichloropropane	< 10.0	ug/L	N		cis-1,2-Dichloroethene	6.0	ug/L	N	
Bromochloromethane	< 10.0	ug/L	N		Chloroform	< 5.0	ug/L	A	
Tetrahydrofuran	947	ug/L	U		1,1,1-Trichloroethane	< 5.0	ug/L	A	
Carbon tetrachloride	< 5.0	ug/L	A		1,1-Dichloropropene	< 5.0	ug/L	N	
Benzene	8.0	ug/L	A		t-Amylmethyl ether (TAME)	< 10.0	ug/L	N	
1,2-Dichloroethane	< 5.0	ug/L	A		Trichloroethene	< 5.0	ug/L	A	
1,2-Dichloropropane	< 10.0	ug/L	A		Dibromomethane	< 10.0	ug/L	N	
Bromodichloromethane	< 2.5	ug/L	A		cis-1,3-Dichloropropene	< 10.0	ug/L	A	
4-Methyl-2-pentanone (MIBK)	< 50.0	ug/L	N		Toluene	82.7	ug/L	A	
trans-1,3-Dichloropropene	< 10.0	ug/L	A		1,1,2-Trichloroethane	< 5.0	ug/L	A	
Tetrachloroethene	< 5.0	ug/L	A		1,3-Dichloropropane	< 5.0	ug/L	N	
2-Hexanone	< 50.0	ug/L	N		Dibromochloromethane	< 10.0	ug/L	A	
1,2-Dibromoethane	< 5.0	ug/L	A		Chlorobenzene	< 5.0	ug/L	A	
Ethylbenzene	22.1	ug/L	A		1,1,1,2-Tetrachloroethane	< 10.0	ug/L	A	
Xylenes, Total	62.0	ug/L	A		Styrene	< 5.0	ug/L	N	
Bromoform	< 10.0	ug/L	A		Isopropylbenzene	< 5.0	ug/L	A	
1,1,2,2-Tetrachloroethane	< 10.0	ug/L	A		Bromobenzene	< 5.0	ug/L	N	
n-Propylbenzene	< 5.0	ug/L	A		1,2,3-Trichloropropane	< 10.0	ug/L	N	
2-Chlorotoluene	< 5.0	ug/L	N		1,3,5-Trimethylbenzene	< 5.0	ug/L	A	
4-Chlorotoluene	< 5.0	ug/L	N		t-Butylbenzene	< 5.0	ug/L	A	
1,2,4-Trimethylbenzene	9.9	ug/L	A		s-Butylbenzene	< 5.0	ug/L	N	
4-Isopropyltoluene	15.6	ug/L	A		1,3-Dichlorobenzene	< 5.0	ug/L	A	
1,4-Dichlorobenzene	5.4	ug/L	A		n-Butylbenzene	< 10.0	ug/L	A	
1,2-Dichlorobenzene	< 5.0	ug/L	A		1,2-Dibromo-3-Chloropropane	< 10.0	ug/L	A	
1,2,4-Trichlorobenzene	< 10.0	ug/L	A		1,3,5-Trichlorobenzene	< 10.0	ug/L	N	
Hexachlorobutadiene	< 2.5	ug/L	N		Naphthalene	< 10.0	ug/L	A	
1,2,3-Trichlorobenzene	< 10.0	ug/L	N		Surr. 1 (Dibromofluoromethane)	97	%	N	
Surr. 3 (4-Bromofluorobenzene)	97	%	N		Surr. 2 (Toluene d8)	94	%	N	
Unidentified Peaks	2		U						

CLIENT: Casella Waste Management, Inc.
PROJECT: NEWSVT LF May-Oct Leachate
REPORT DATE: 10/28/2014

WORK ORDER: **1410-21185**
DATE RECEIVED: 10/09/2014

TEST METHOD: EPA 8270D

008 Site: Combined AST — Sampled: 10/8/14 16:05 — Test Date: 10/15/14 W FAA

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Extraction EPA 3510C	Extracted		A		N-Nitrosodimethylamine	< 200	ug/L	A	
Pyridine	< 200	ug/L	A		Aniline	< 200	ug/L	N	
Bis(2-chloroethyl)ether	< 100	ug/L	A		1,2-Dichlorobenzene	< 40.0	ug/L	A	
1,3-Dichlorobenzene	< 40.0	ug/L	A		1,4-Dichlorobenzene	< 40.0	ug/L	A	
Benzyl alcohol	< 400	ug/L	N		Bis(2-chloroisopropyl)ether	< 200	ug/L	A	
N-Nitrosodi-n-propylamine	< 200	ug/L	A		Hexachloroethane	< 100	ug/L	A	
Nitrobenzene	< 100	ug/L	A		N-Nitrosopiperidine	< 200	ug/L	N	
Isophorone	< 40.0	ug/L	A		Bis(2-chloroethoxy)methane	< 100	ug/L	A	
1,2,4-Trichlorobenzene	< 40.0	ug/L	A		Naphthalene	< 20.0	ug/L	A	
4-Chloroaniline	< 100	ug/L	N		Hexachlorobutadiene	< 100	ug/L	A	
N-Nitrosodi-n-butylamine	< 100	ug/L	N		2-Methylnaphthalene	< 20.0	ug/L	A	
1-Methylnaphthalene	< 20.0	ug/L	U		Hexachlorocyclopentadiene	< 400	ug/L	A	
2-Chloronaphthalene	< 40.0	ug/L	A		1-Chloronaphthalene	< 40.0	ug/L	N	
2-Nitroaniline	< 400	ug/L	N		Dimethyl phthalate	< 100	ug/L	A	
2,6-Dinitrotoluene	< 100	ug/L	A		Acenaphthylene	< 20.0	ug/L	A	
3-Nitroaniline	< 100	ug/L	N		Acenaphthene	< 20.0	ug/L	A	
Dibenzofuran	< 40.0	ug/L	N		2,4-Dinitrotoluene	< 100	ug/L	A	
1-Naphthylamine	< 200	ug/L	N		2-Naphthylamine	< 200	ug/L	N	
Fluorene	< 20.0	ug/L	A		Diethyl phthalate	< 100	ug/L	A	
4-Chlorophenyl phenyl ether	< 40.0	ug/L	A		4-Nitroaniline	< 400	ug/L	N	
N-Nitrosodiphenylamine	< 100	ug/L	A		Azobenzene	< 100	ug/L	U	
4-Bromophenyl phenyl ether	< 40.0	ug/L	A		Hexachlorobenzene	< 100	ug/L	A	
Phenanthrene	< 20.0	ug/L	A		Anthracene	< 20.0	ug/L	A	
Carbazole	< 100	ug/L	N		Di-n-butylphthalate	< 200	ug/L	A	
Fluoranthene	< 20.0	ug/L	A		Benzidine	< 200	ug/L	A	
Pyrene	< 20.0	ug/L	A		Butyl benzyl phthalate	< 100	ug/L	A	
Benzo(a)anthracene	< 20.0	ug/L	A		Chrysene	< 20.0	ug/L	A	
3,3'-Dichlorobenzidine	< 100	ug/L	A		Bis(2-ethylhexyl)phthalate	< 100	ug/L	A	
Di-n-octylphthalate	< 100	ug/L	N		Benzo(b)fluoranthene	< 20.0	ug/L	A	
Benzo(k)fluoranthene	< 20.0	ug/L	A		Benzo(a)pyrene	< 20.0	ug/L	A	
Indeno(1,2,3-cd)pyrene	< 20.0	ug/L	A		Dibenzo(a,h)anthracene	< 20.0	ug/L	A	
Benzo(g,h,i)perylene	< 20.0	ug/L	A		Phenol	139	ug/L	A	
2-Chlorophenol	< 100	ug/L	A		2-Methylphenol (o-cresol)	< 100	ug/L	A	
3&4-Methylphenol (m&p-cresol)	1,280	ug/L	A		Cresols, Total	1,280	ug/L	A	
2-Nitrophenol	< 200	ug/L	A		2,4-Dimethylphenol	< 100	ug/L	A	
2,4-Dichlorophenol	< 100	ug/L	A		2,6-Dichlorophenol	< 100	ug/L	N	
4-Chloro-3-methylphenol	< 200	ug/L	A		2,4,5-Trichlorophenol	< 200	ug/L	A	
2,4,6-Trichlorophenol	< 200	ug/L	A		2,4-Dinitrophenol	< 400	ug/L	A	
4-Nitrophenol	< 200	ug/L	A		4,6-Dinitro-2-methylphenol	< 400	ug/L	A	
Pentachlorophenol	< 200	ug/L	A		BaP Toxic Equiv. Quotient	< 46.2	ug/L	U	
B/N Surr.1 Nitrobenzene-d5	75	%	N		B/N Surr.2 2-Fluorobiphenyl	76	%	N	
B/N Surr.3 Terphenyl-d14	101	%	N		Acid Surr.1 2-Fluorophenol	28	%	N	
Acid Surr.2 Phenol-d8	24	%	N		Acid Surr.3 Tribromophenol	95	%	N	
Unidentified Peaks	>10		U						

CLIENT: Casella Waste Management, Inc.
PROJECT: NEWSVT LF May-Oct Leachate
REPORT DATE: 10/28/2014

WORK ORDER: **1410-21185**
DATE RECEIVED: 10/09/2014

TEST METHOD: EPA 8260C

008 Site: Combined AST — Sampled: 10/8/14 16:05 — Test Date: 10/10/14 W SJM

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Dichlorodifluoromethane	< 25.0	ug/L	A		Chloromethane	< 15.0	ug/L	N	
Vinyl chloride	< 10.0	ug/L	A		Bromomethane	< 25.0	ug/L	A	
Chloroethane	< 25.0	ug/L	A		Trichlorofluoromethane	< 10.0	ug/L	A	
Diethyl ether	< 25.0	ug/L	N		1,1-Dichloroethene	< 5.0	ug/L	A	
Acetone	2,550	ug/L	A		Carbon disulfide	< 25.0	ug/L	A	
Methylene chloride	25.5	ug/L	A		t-Butanol	1,430	ug/L	N	
Methyl-t-butyl ether (MTBE)	< 10.0	ug/L	A		trans-1,2-Dichloroethene	< 5.0	ug/L	A	
Di-isopropyl ether (DIPE)	< 10.0	ug/L	N		1,1-Dichloroethane	< 5.0	ug/L	A	
Ethyl-t-butyl ether (ETBE)	< 10.0	ug/L	N		2-Butanone	3,900	ug/L	A	
2,2-Dichloropropane	< 10.0	ug/L	N		cis-1,2-Dichloroethene	< 5.0	ug/L	N	
Bromochloromethane	< 10.0	ug/L	N		Chloroform	< 5.0	ug/L	A	
Tetrahydrofuran	2,150	ug/L	U		1,1,1-Trichloroethane	< 5.0	ug/L	A	
Carbon tetrachloride	< 5.0	ug/L	A		1,1-Dichloropropene	< 5.0	ug/L	N	
Benzene	< 5.0	ug/L	A		t-Amylmethyl ether (TAME)	< 10.0	ug/L	N	
1,2-Dichloroethane	< 5.0	ug/L	A		Trichloroethene	< 5.0	ug/L	A	
1,2-Dichloropropane	< 10.0	ug/L	A		Dibromomethane	< 10.0	ug/L	N	
Bromodichloromethane	< 2.5	ug/L	A		cis-1,3-Dichloropropene	< 10.0	ug/L	A	
4-Methyl-2-pentanone (MIBK)	85.2	ug/L	N		Toluene	23.1	ug/L	A	
trans-1,3-Dichloropropene	< 10.0	ug/L	A		1,1,2-Trichloroethane	< 5.0	ug/L	A	
Tetrachloroethene	< 5.0	ug/L	A		1,3-Dichloropropane	< 5.0	ug/L	N	
2-Hexanone	81.2	ug/L	N		Dibromochloromethane	< 10.0	ug/L	A	
1,2-Dibromoethane	< 5.0	ug/L	A		Chlorobenzene	< 5.0	ug/L	A	
Ethylbenzene	6.3	ug/L	A		1,1,1,2-Tetrachloroethane	< 10.0	ug/L	A	
Xylenes, Total	19.6	ug/L	A		Styrene	< 5.0	ug/L	N	
Bromoform	< 10.0	ug/L	A		Isopropylbenzene	< 5.0	ug/L	A	
1,1,2,2-Tetrachloroethane	< 10.0	ug/L	A		Bromobenzene	< 5.0	ug/L	N	
n-Propylbenzene	< 5.0	ug/L	A		1,2,3-Trichloropropane	< 10.0	ug/L	N	
2-Chlorotoluene	< 5.0	ug/L	N		1,3,5-Trimethylbenzene	< 5.0	ug/L	A	
4-Chlorotoluene	< 5.0	ug/L	N		t-Butylbenzene	< 5.0	ug/L	A	
1,2,4-Trimethylbenzene	< 5.0	ug/L	A		s-Butylbenzene	< 5.0	ug/L	N	
4-Isopropyltoluene	5.4	ug/L	A		1,3-Dichlorobenzene	< 5.0	ug/L	A	
1,4-Dichlorobenzene	< 5.0	ug/L	A		n-Butylbenzene	< 10.0	ug/L	A	
1,2-Dichlorobenzene	< 5.0	ug/L	A		1,2-Dibromo-3-Chloropropane	< 10.0	ug/L	A	
1,2,4-Trichlorobenzene	< 10.0	ug/L	A		1,3,5-Trichlorobenzene	< 10.0	ug/L	N	
Hexachlorobutadiene	< 2.5	ug/L	N		Naphthalene	12.1	ug/L	A	
1,2,3-Trichlorobenzene	< 10.0	ug/L	N		Surr. 1 (Dibromofluoromethane)	93	%	N	
Surr. 2 (Toluene d8)	95	%	N		Surr. 3 (4-Bromofluorobenzene)	97	%	N	
Unidentified Peaks	7		U						

CLIENT: Casella Waste Management, Inc.
PROJECT: NEWSVT LF May-Oct Leachate
REPORT DATE: 10/28/2014

WORK ORDER: **1410-21185**
DATE RECEIVED: 10/09/2014

TEST METHOD: EPA 8260C

009 Site: Trip Blank — Sampled: 10/2/14 12:35 — Test Date: 10/13/14 W SJM

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Dichlorodifluoromethane	< 5.0	ug/L	A		Chloromethane	< 3.0	ug/L	N	
Vinyl chloride	< 2.0	ug/L	A		Bromomethane	< 5.0	ug/L	A	
Chloroethane	< 5.0	ug/L	A		Trichlorofluoromethane	< 2.0	ug/L	A	
Diethyl ether	< 5.0	ug/L	N		1,1-Dichloroethene	< 1.0	ug/L	A	
Acetone	< 10.0	ug/L	A		Carbon disulfide	< 5.0	ug/L	A	
Methylene chloride	< 5.0	ug/L	A		t-Butanol	< 20.0	ug/L	N	
Methyl-t-butyl ether (MTBE)	< 2.0	ug/L	A		trans-1,2-Dichloroethene	< 1.0	ug/L	A	
Di-isopropyl ether (DIPE)	< 2.0	ug/L	N		1,1-Dichloroethane	< 1.0	ug/L	A	
Ethyl-t-butyl ether (ETBE)	< 2.0	ug/L	N		2-Butanone	< 10.0	ug/L	A	
2,2-Dichloropropane	< 2.0	ug/L	N		cis-1,2-Dichloroethene	< 1.0	ug/L	N	
Bromochloromethane	< 2.0	ug/L	N		Chloroform	< 1.0	ug/L	A	
Tetrahydrofuran	< 10.0	ug/L	U		1,1,1-Trichloroethane	< 1.0	ug/L	A	
Carbon tetrachloride	< 1.0	ug/L	A		1,1-Dichloropropene	< 1.0	ug/L	N	
Benzene	< 1.0	ug/L	A		t-Amylmethyl ether (TAME)	< 2.0	ug/L	N	
1,2-Dichloroethane	< 1.0	ug/L	A		Trichloroethene	< 1.0	ug/L	A	
1,2-Dichloropropane	< 2.0	ug/L	A		Dibromomethane	< 2.0	ug/L	N	
Bromodichloromethane	< 0.5	ug/L	A		cis-1,3-Dichloropropene	< 2.0	ug/L	A	
4-Methyl-2-pentanone (MIBK)	< 10.0	ug/L	N		Toluene	< 1.0	ug/L	A	
trans-1,3-Dichloropropene	< 2.0	ug/L	A		1,1,2-Trichloroethane	< 1.0	ug/L	A	
Tetrachloroethene	< 1.0	ug/L	A		1,3-Dichloropropane	< 1.0	ug/L	N	
2-Hexanone	< 10.0	ug/L	N		Dibromochloromethane	< 2.0	ug/L	A	
1,2-Dibromoethane	< 1.0	ug/L	A		Chlorobenzene	< 1.0	ug/L	A	
Ethylbenzene	< 1.0	ug/L	A		1,1,1,2-Tetrachloroethane	< 2.0	ug/L	A	
Xylenes, Total	< 2.0	ug/L	A		Styrene	< 1.0	ug/L	N	
Bromoform	< 2.0	ug/L	A		Isopropylbenzene	< 1.0	ug/L	A	
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	A		Bromobenzene	< 1.0	ug/L	N	
n-Propylbenzene	< 1.0	ug/L	A		1,2,3-Trichloropropane	< 2.0	ug/L	N	
2-Chlorotoluene	< 1.0	ug/L	N		1,3,5-Trimethylbenzene	< 1.0	ug/L	A	
4-Chlorotoluene	< 1.0	ug/L	N		t-Butylbenzene	< 1.0	ug/L	A	
1,2,4-Trimethylbenzene	< 1.0	ug/L	A		s-Butylbenzene	< 1.0	ug/L	N	
4-Isopropyltoluene	< 1.0	ug/L	A		1,3-Dichlorobenzene	< 1.0	ug/L	A	
1,4-Dichlorobenzene	< 1.0	ug/L	A		n-Butylbenzene	< 2.0	ug/L	A	
1,2-Dichlorobenzene	< 1.0	ug/L	A		1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	A		1,3,5-Trichlorobenzene	< 2.0	ug/L	N	
Hexachlorobutadiene	< 0.5	ug/L	N		Naphthalene	< 2.0	ug/L	A	
1,2,3-Trichlorobenzene	< 2.0	ug/L	N		Surr. 1 (Dibromofluoromethane)	98	%	N	
Surr. 2 (Toluene d8)	95	%	N		Surr. 3 (4-Bromofluorobenzene)	91	%	N	
Unidentified Peaks	0		U						

Report Summary of Qualifiers and Notes

Method 8260C: Sample 009: Only 1 Trip Blank vial was submitted. Sample vial confirmation was performed on a container with headspace.

P2: The sample was not preserved to a pH < 2.

LFB-: The digested Laboratory Fortified Blank recovery for this element was 85% of the expected target.

NEWSVT LF May-Oct Leachate

Endyne Inc. COC

Prepared: 4/28/14

Lab Use WO# 1410-21185

126

Bill to:
Sherry Bradley
Casella Waste Management, Inc.
408 East Montpelier Rd.
Montpelier VT 05602
Ph: (802)-651-5454

Report to:
Joe Gay
Casella Waste Management, Inc.
220 Avenue B
Williston VT 05495
Casellahn

Customer # 070338

NEWSVTQUARTLEACH

W-70338NQL

Phase I

Sampled Date/Time: 10/8/14 @ 1330

Sampler: CP

SVOC BNAs	1 - 8 oz --	Amber Glass	<6C, pH 5-9
BOD-5day	1 - 8 oz --	Plastic	<6C
Chloride			
TKN	1 - 4 oz --	Plastic	<6C, NY Phos, H2SO4
COD	to be taken from TKN bottle	Plastic or Glass	<6C, H2SO4
Metals Furnace Digestion		1 - 8 oz Plastic Total Metals	HNO3
Antimony, Total			
Arsenic, Total			
Barium, Total			
Beryllium, Total			
Cadmium, Total			
Chromium, Total			
Cobalt, Total			
Copper, Total			
Iron, Total			
Lead, Total			
Manganese, Total			
Mercury, Total			
Molybdenum, Total			
Nickel, Total			
Selenium, Total			
Silver, Total			
Sodium, Total			
Thallium, Total			
Vanadium, Total			
Zinc, Total			
VOC w/ Oxygenates, Water		2 - 40ml vials	<6C, HCl

Phase II — Sampled Date/Time: 10/3/14 @ 1415 — Sampler: CP

SVOC BNAs	1 - 8 oz --	Amber Glass	<6C, pH 5-9
BOD-5day	1 - 8 oz --	Plastic	<6C
Chloride			
TKN	1 - 4 oz --	Plastic	<6C, NY Phos, H2SO4
COD	to be taken from TKN bottle	Plastic or Glass	<6C, H2SO4
Metals Furnace Digestion		1 - 8 oz Plastic Total Metals	HNO3
Antimony, Total			
Arsenic, Total			
Barium, Total			
Beryllium, Total			
Cadmium, Total			
Chromium, Total			
Cobalt, Total			
Copper, Total			
Iron, Total			
Lead, Total			
Manganese, Total			
Mercury, Total			
Molybdenum, Total			
Nickel, Total			
Selenium, Total			
Silver, Total			
Sodium, Total			
Thallium, Total			
Vanadium, Total			
Zinc, Total			
VOC w/ Oxygenates, Water		2 - 40ml vials	<6C, HCl

Phase III Cell 1 — Sampled Date/Time: 10/3/14 @ 1430 — Sampler: CP

SVOC BNAs	1 - 8 oz --	Amber Glass	<6C, pH 5-9
BOD-5day	1 - 8 oz --	Plastic	<6C
Chloride			
TKN	1 - 4 oz --	Plastic	<6C, NY Phos, H2SO4
COD	to be taken from TKN bottle	Plastic or Glass	<6C, H2SO4
Metals Furnace Digestion		1 - 8 oz Plastic Total Metals	HNO3
Antimony, Total			
Arsenic, Total			
Barium, Total			
Beryllium, Total			
Cadmium, Total			
Chromium, Total			
Cobalt, Total			
Copper, Total			
Iron, Total			
Lead, Total			
Manganese, Total			
Mercury, Total			
Molybdenum, Total			
Nickel, Total			
Selenium, Total			
Silver, Total			
Sodium, Total			
Thallium, Total			
Vanadium, Total			
Zinc, Total			
VOC w/ Oxygenates, Water		2 - 40ml vials	<6C, HCl

Phase III Cell 2 Sampled Date/Time: 10 / 8 / 14 @ 1450 Sampler: CP

SVOC BNAs	1 - 8 oz --	Amber Glass	<6C, pH 5-9_____
BOD-5day	1 - 8 oz --	Plastic	<6C
Chloride			
TKN	1 - 4 oz --	Plastic	<6C, NY Phos, H2SO4_____
COD	to be taken from TKN bottle	Plastic or Glass	<6C, H2SO4_____
Metals Furnace Digestion		1 - 8 oz Plastic Total Metals	HNO3_____
Antimony, Total			
Arsenic, Total			
Barium, Total			
Beryllium, Total			
Cadmium, Total			
Chromium, Total			
Cobalt, Total			
Copper, Total			
Iron, Total			
Lead, Total			
Manganese, Total			
Mercury, Total			
Molybdenum, Total			
Nickel, Total			
Selenium, Total			
Silver, Total			
Sodium, Total			
Thallium, Total			
Vanadium, Total			
Zinc, Total			
VOC w/ Oxygenates, Water		2 - 40ml vials	<6C, HCl

Phase IV Cell 1 Sampled Date/Time: 10 / 8 / 14 @ 1510 Sampler: CP

SVOC BNAs	1 - 8 oz --	Amber Glass	<6C, pH 5-9_____
BOD-5day	1 - 8 oz --	Plastic	<6C
Chloride			
TKN	1 - 4 oz --	Plastic	<6C, NY Phos, H2SO4_____
COD	to be taken from TKN bottle	Plastic or Glass	<6C, H2SO4_____
Metals Furnace Digestion		1 - 8 oz Plastic Total Metals	HNO3_____
Antimony, Total			
Arsenic, Total			
Barium, Total			
Beryllium, Total			
Cadmium, Total			
Chromium, Total			
Cobalt, Total			
Copper, Total			
Iron, Total			
Lead, Total			
Manganese, Total			
Mercury, Total			
Molybdenum, Total			
Nickel, Total			
Selenium, Total			
Silver, Total			
Sodium, Total			
Thallium, Total			
Vanadium, Total			
Zinc, Total			
VOC w/ Oxygenates, Water		2 - 40ml vials	<6C, HCl

Phase IV Cell 2 Sampled Date/Time: 10/8/14 @ 1525 Sampler: CD

SVOC BNAs	1 - 8 oz --	Amber Glass	<6C, pH 5-9
BOD-5day	1 - 8 oz --	Plastic	<6C
Chloride			
TKN	1 - 4 oz --	Plastic	<6C, NY Phos, H2SO4
COD	to be taken from TKN bottle	Plastic or Glass	<6C, H2SO4
Metals Furnace Digestion		1 - 8 oz Plastic Total Metals	HNO3
Antimony, Total			
Arsenic, Total			
Barium, Total			
Beryllium, Total			
Cadmium, Total			
Chromium, Total			
Cobalt, Total			
Copper, Total			
Iron, Total			
Lead, Total			
Manganese, Total			
Mercury, Total			
Molybdenum, Total			
Nickel, Total			
Selenium, Total			
Silver, Total			
Sodium, Total			
Thallium, Total			
Vanadium, Total			
Zinc, Total			
VOC w/ Oxygenates, Water		2 - 40ml vials	<6C, HCl

Phase IV Cell 3 Sampled Date/Time: 10/8/14 @ 1545 Sampler: CD

SVOC BNAs	1 - 8 oz --	Amber Glass	<6C, pH 5-9
BOD-5day	1 - 8 oz --	Plastic	<6C
Chloride			
TKN	1 - 4 oz --	Plastic	<6C, NY Phos, H2SO4
COD	to be taken from TKN bottle	Plastic or Glass	<6C, H2SO4
Metals Furnace Digestion		1 - 8 oz Plastic Total Metals	HNO3
Antimony, Total			
Arsenic, Total			
Barium, Total			
Beryllium, Total			
Cadmium, Total			
Chromium, Total			
Cobalt, Total			
Copper, Total			
Iron, Total			
Lead, Total			
Manganese, Total			
Mercury, Total			
Molybdenum, Total			
Nickel, Total			
Selenium, Total			
Silver, Total			
Sodium, Total			
Thallium, Total			
Vanadium, Total			
Zinc, Total			
VOC w/ Oxygenates, Water		2 - 40ml vials	<6C, HCl

Combined AST — Sampled Date/Time: 10/8/14 @ 1605 — Sampler: _____

SVOC BNAs	1 - 8 oz --	Amber Glass	<6C, pH 5-9
BOD-5day	1 - 8 oz --	Plastic	<6C
Chloride			
TKN	1 - 4 oz --	Plastic	<6C, NY Phos, H2SO4
COD	to be taken from TKN bottle	Plastic or Glass	<6C, H2SO4
Metals Furnace Digestion		1 - 8 oz Plastic Total Metals	HNO3
Antimony, Total			
Arsenic, Total			
Barium, Total			
Beryllium, Total			
Cadmium, Total			
Chromium, Total			
Cobalt, Total			
Copper, Total			
Iron, Total			
Lead, Total			
Manganese, Total			
Mercury, Total			
Molybdenum, Total			
Nickel, Total			
Selenium, Total			
Silver, Total			
Sodium, Total			
Thallium, Total			
Vanadium, Total			
Zinc, Total			
VOC w/ Oxygenates, Water		2 - 40ml vials	<6C, HCl

Trip Blank — Sampled Date/Time: 10/2/14 @ 1235 — Sampler: LH

VOC w/ Oxygenates, Water		2 - 40ml vials	<6C, HCl

All Vials are unpreserved and will be anlalyzed within 7 days

Relinquished by: [signature] 10/9/14 1605 (Date Time) Accepted by: [signature] 10/9 @ 11:00 (Date Time)

Relinquished by: _____ (Date Time) Received by: _____ (Date Time)

Sites/Parameters correct as listed. Client Initials: [initials]

Client Authorization to use Subcontract lab Client Initials: [initials]

Sample origin: VT [X] NH [ ] NY [ ] Other [ ]

Special reporting instructions: (PO#) _____

Requested Turnaround Time: Routine: Rush Due Date _____

Lab use Only

Delv: Client
Temp C: -4.7
Comment:

Tmpl Ck
Log by

ENDYNE Inc.
www.endynelabs.com

160 James Brown Dr.
Williston, VT 05495
Ph 802-879-4333
Fax 802-879-7103

56 Etna Road
Lebanon, NH 03766
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315 New York Rd.
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Fax 518-563-0052