# Town of Moreau Landfill Annual 2009 Post-Closure Monitoring Report

## Town of Moreau
## Saratoga County, New York

## December 28, 2009

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# TOWN OF MOREAU LANDFILL
# ANNUAL 2009 POST-CLOSURE MONITORING REPORT

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## 1.0 INTRODUCTION

This annual post-closure monitoring report is for the groundwater, surface water and explosive gas monitoring events and the landfill inspections conducted in 2009 at the Town of Moreau Landfill located in the Town of Moreau, Saratoga County, New York. The post-closure monitoring for the Town of Moreau Landfill consists of semi-annual groundwater and surface water monitoring for 6 NYCRR Part 360 routine parameters, annual monitoring for PCBs at all sampling locations and for total chromium at surface water sampling location S-1, triennial (once every three years) groundwater monitoring for 6 NYCRR Part 360 baseline parameters, semi-annual monitoring for explosive gas and semi-annual landfill inspections. The post-closure monitoring is in accordance with the NYSDEC approved Revised Landfill Closure Plan, Town of Moreau, New York dated June 1998, the March 14, 2002 Post-Closure Monitoring II Variance from Part 360-2.15(i)(4) and the November 22, 2002 post-closure monitoring and maintenance reduction request letter to NYSDEC. The referenced variance was approved by NYSDEC in a letter dated April 18, 2002. The post-closure monitoring and maintenance reduction request was approved by NYSDEC in a letter dated January 15, 2003, with one condition. If explosive gases are found at location EG-11, then subsequent testing of the soil at 50-foot intervals to the east is to be performed. Monitoring previously consisted of quarterly monitoring of groundwater, surface water and leachate, if observed, for routine parameters, annual monitoring of groundwater and surface water for baseline parameters and PCBs, quarterly monitoring for explosive gas and monthly landfill inspections in accordance with the NYSDEC approved Revised Landfill Closure Plan, Town of Moreau, New York dated June 1998 and NYSDEC's letter dated September 11, 2000.

Groundwater sampling locations include EHC-1S (east of the landfill), EHC-2S (south side of the landfill), MW-3 (southwest side of landfill), MW-4 (west side of landfill), MW-5 (northwest side of landfill) and MW-6S (northeast side of landfill). Surface water sampling locations include: 1) the flowing stream along the southern edge of the landfill, at the outfall at the southwestern edge of the property (S-1), 2) standing water in the wet area near well MW-5 (S-2), and 3) a wet area near well MW-6S (S-3). A groundwater production well (PW-1) from the Town of Moreau's previous public water supply located north of the landfill off of Nolan Road was historically also sampled. This sampling location was eliminated from the post-closure monitoring network as part of NYSDEC approving the March 14, 2002 Post-Closure Monitoring II Variance. The list of routine

and baseline parameters are those in the Water Quality Analysis Table of the 6 NYCRR Part 360 regulations effective December 31, 1988 and revised May 28, 1991.

The explosive gas monitoring locations include eight explosive gas monitoring points (EG-1 to EG-5, EG-11, EG-12, EG-14) located along the south, southeast and southwest sides of the landfill, three on-site buildings, monitoring wells and the perimeter of the landfill. Explosive gas monitoring points EG-6 to EG-10 and EG-13 no longer exist. In reference to a telephone conversation with NYSDEC and documented in a letter dated September 24, 2001, explosive gas monitoring points EG-6 to EG-10 do not need to be replaced since EG-6 to EG-9 are within the wetlands mitigation area and existing point EG-12 can be monitored instead of EG-10. The monitoring well locations and explosive gas monitoring points are shown on the Site Plan Map, Town of Moreau Landfill. The sampling and results are discussed in Sections 2.0, 3.0, 4.0 and 5.0 of this report.

## 2.0 SAMPLING AND LABORATORY ANALYSES

The first semi-annual groundwater and surface water sampling event was conducted on May 26 and 27, 2009 as discussed in the Semi-Annual 2009 Post-Closure Monitoring Report dated August 10, 2009. The second semi-annual groundwater sampling event of monitoring wells EHC-1S, EHC-2S, MW-3, MW-4, MW-5, and MW-6S was conducted on November 3 and 4, 2009. A duplicate groundwater sample from monitoring well MW-6S was also taken and identified as FD-1 on the chain of custody record. The second semi-annual surface water sampling event of locations S-1, S-2 and S-3 was conducted on November 4, 2009. The groundwater and surface water samples were analyzed for the routine parameters listed in 6 NYCRR Part 360-2.11(c)(6), effective December 31, 1988 and revised May 28, 1991, and PCBs; and surface water sample S-1 was also analyzed for total chromium. Since the field-measured turbidity was greater than 50 NTUs at S-2 and S-3, in accordance with the Landfill Closure Plan, filtered and unfiltered samples were submitted to the laboratory for dissolved and total metals analyses. The laboratory analyses were performed by Phoenix Environmental Laboratories, Inc., of Manchester, Connecticut, a NYSDOH ELAP certified laboratory (ELAP No. 11301). The next triennial baseline parameters sampling event is planned for 2010.

The semi-annual landfill inspections were conducted on June 18, 2009 and September 10, 2009 by C.T. Male Associates, P.C. The semi-annual explosive gas sampling events were conducted on March 20, 2009 and September 10, 2009. Cursory landfill inspections were also conducted while on-site for the semi-annual groundwater and surface water monitoring events and the semi-annual explosive gas sampling events. The three occupied buildings on site, the monitoring wells, existing gas monitoring points and the perimeter of the landfill (approximately every 100 feet) were tested for toxic gases, oxygen and explosive gases (% LEL).

All sampling and monitoring was conducted in accordance with the Post-Closure Monitoring and Maintenance Operations (Chapter 4) contained in the Revised Landfill Closure Plan, Town of Moreau, New York dated June 1998. Environmental services field logs, groundwater sampling logs, stream water sampling logs, landfill inspection forms and explosive gas sampling form for the second semi-annual groundwater and surface water sampling event (November 2009), landfill inspection (September 2009) and explosive gas monitoring event (September 2009) are enclosed in Appendix A. The procedures followed are presented in the referenced logs.

## 3.0 RESULTS OF GROUNDWATER AND SURFACE WATER SAMPLING

The results of the field parameters, the leachate indicator parameters, the inorganic parameters and the polychlorinated biphenyl compounds for the second semi-annual sampling event (November 2009) are summarized in Table 1, Table 2, Table 3 and Table 4, respectively. The respective groundwater and surface water standards and guidance values are included in the tables. Results from the sampling conducted previously in 1992 and the most recent years (1996 through present) are included in the tables for comparison to the recent sampling results. A copy of the laboratory analysis reports and chain of custody records for the November 2009 sampling event are enclosed in Appendix B.

The results of the November 2009 sampling event were compared to standards and guidance values for surface water and groundwater quality as presented in 6 NYCRR Part 703 and TOGS 1.1.1 - Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations of October 22, 1993, re-issued June 1998 and Addenda dated April 2000 and June 2004. During the November 2009 sampling event, New York State groundwater quality standards were exceeded in the upgradient wells for field measured turbidity (EHC-1S and EHC-2S); chloride (EHC-1S); total dissolved solids (EHC-1S); iron (EHC-1S and EHC-2S); and sodium (EHC-1S and EHC-2S). Groundwater quality standards were exceeded in the downgradient wells for field measured turbidity (MW-4, MW-5 and MW-6S); ammonia (MW-3 and MW-4); total dissolved solids (MW-3); iron (MW-3, MW-4, MW-5 and MW-6S); manganese (MW-3, MW-5 and MW-6S); and sodium (MW-3, MW-4 and MW-5). In general there was good correlation between the laboratory analyses results for the sample from well MW-6S and its field duplicate FD-1.

Surface water quality standards were exceeded for field measured turbidity (S-2 and S-3); ammonia (S-3); phenols (S-3); iron (S-1, S-2 unfiltered sample only and S-3); and manganese (S-2 unfiltered sample only and S-3).

Comparing the November 2009 groundwater results to the results from May 2009 (first semi-annual 2009 sampling event), and the 2008 semi-annual sampling event results indicates that the levels for most of the constituents are at similar levels, except that ammonia decreased to below its groundwater standard at well MW-6S, turbidity decreased to below its groundwater standard at well MW-3, and sodium decreased to below its groundwater standard at well MW-6S. Comparing the leachate indicator

parameters and inorganic parameters between wells, MW-3 has noticeably higher concentrations for most parameters. Upgradient well EHC-1S generally has higher concentrations for chloride, sulfate, total dissolved solids and sodium than any of the other upgradient and downgradient wells. Well EHC-1S is close to the road and therefore most likely affected by road salt and sand which would elevate concentrations in some of these parameters.

Comparing the November 2009 surface water results to the results from May 2009 (first semi-annual 2009 sampling event) and the 2008 results indicates that the levels for most of the constituents are at similar levels, except that phenols decreased to below its surface water standard at S-2 and increased to above its surface water standard at S-3; dissolved iron concentration decreased to below its surface water standard at S-2; and manganese increased to above its surface water standard at S-2 (unfiltered sample only).

## 4.0 RESULTS OF LANDFILL INSPECTIONS AND EXPLOSIVE GAS MONITORING

In general no significant damage to the cap integrity, ponding or leachate seeps were observed during the semi-annual landfill inspection conducted on September 10, 2009 or during the cursory landfill inspection conducted while on-site in November 2009. The landfill vegetative cover was approximately 6 to 12 inches in height during the landfill inspection in September 2009. In general, the vegetative cover was well established, with the exception of some areas that were observed with sparse or no vegetation. Two depressed/erosion areas, two areas with vegetated erosion channels and a beaver dam along the south side access road were observed.

The two depressed/erosion areas noted were by gas vent GV-67 near the west edge of the landfill (approximately 15′ by 15′ area and approximately 1.5 feet deep) and by gas vent GV-19 near the east edge of the landfill (approximately 15′ x 15′ area and approximately 1 foot deep). These two areas of the landfill were noted to be vegetated.

The two areas with erosion channels noted were near gas vent GV-20 on the north side of the landfill (several approximately 3′ by 1′ and 6-inch deep channels) and on the south side of the landfill near the wetlands southeast of gas vent GV-56 (several approximately 10′ by 1′ and 6-inch deep channels). The erosion channels in these areas were noted to be vegetated. The depressed/erosion areas were of similar size as during the June 2009 landfill inspection.

The beaver dam along the south side of the landfill has a channel cut in the center of it allowing water to flow through it.

No gas bubbles were observed during the September 2009 landfill inspection or November 2009 cursory landfill inspection.

In general, the monitoring wells and gas venting structures (except for a few damaged gas vents) appeared in good condition during the September 2009 landfill inspection and November 2009 cursory landfill inspection. Gas vents GV-2-17, GV-2-11 and GV-2-4 were not able to be located and a few gas vents were observed to be leaning. Gas vent GV-A6 (broken stand pipe) and gas vents GV-2-2, GV-EE and GV-MM were observed to be damaged during the September 2009 landfill inspection and November 2009 cursory landfill inspection.

Gas vents GV-A6, GV-2-2, GV-EE and GV-MM were repaired by James H. Maloy, Inc. of Loudonville, New York on December 16, 2009. The Town plans to address the other maintenance items identified above (depressed/erosion areas, erosion channels, unvegetated or sparsely vegetated areas) as the weather permits in the spring of 2010.

Results for % oxygen and % LEL were 20.9% and 0%, respectively, at the on-site buildings during the September 2009 explosive gas monitoring event. For the monitoring wells sampled, the results for % LEL were 0%, except a reading of 53% LEL (initial reading) and >100% LEL (final reading) at well MW-3. For the gas monitoring points sampled, the results for % LEL were 0%, except a reading of 7% LEL (initial reading) and 8% LEL (final reading) at location EG-11. The % LEL reading at temporary gas monitoring point EG-15, east of EG-11, was 0% LEL. The hydrogen sulfide readings were all zero parts per million (ppm) in the buildings, and at the gas monitoring points and monitoring wells. No values above 0% LEL or zero ppm hydrogen sulfide were detected during monitoring of the landfill perimeter.

A copy of the environmental services field logs, inspection of landfill forms and explosive gas sampling form are enclosed in Appendix A.

## 5.0 ANNUAL MONITORING SUMMARY

The results of the field parameters, the leachate indicator parameters, the inorganic parameters and the polychlorinated biphenyl compounds for the 2009 sampling events and historical sampling events are summarized in Table 1, Table 2, Table 3, and Table 4, respectively. The respective groundwater and surface water standards and guidance values are included in the tables.

In general, a few indicator and inorganic parameters exceeded the applicable groundwater standards during the two sampling events in 2009. The parameters that exceeded the groundwater standards in one or more upgradient and/or downgradient monitoring wells included field measured turbidity, ammonia, chloride, total dissolved solids, iron, manganese and sodium. Field measured turbidity, chloride, total dissolved solids, iron and sodium exceeded the groundwater standards in upgradient well EHC-1S. Field measured turbidity, iron and sodium exceeded the groundwater standards in upgradient monitoring well EHC-2S. Field measured turbidity exceeded its groundwater standard in downgradient monitoring wells MW-3, MW-4, MW-5 and MW-6S. Ammonia exceeded its groundwater standard in wells MW-3, MW-4 and MW-6S. The total dissolved solids groundwater standard was exceeded in well MW-3. The iron (MW-3, MW-4, MW-5, MW-6S), manganese (MW-3, MW-5, MW-6S) and sodium (MW-3, MW-4, MW-5 and MW-6S) groundwater standards were exceeded in the specified downgradient wells during both sampling events in 2009, except that ammonia and sodium did not exceed their groundwater standards at well MW-6S during the November 2009 sampling event. The concentrations of the routine parameters were generally at similar levels during both sampling events. The levels were generally higher in upgradient well EHC-1S and in downgradient well MW-3.

A few surface water quality standards were exceeded for the three surface water sampling locations during the two sampling events in 2009. The parameters that exceeded the surface water standards in one or more samples included field measured turbidity (S1 [May 2009], S-2 and S-3); ammonia (S-3); phenols (S2 [May 2009] and S-3 [November 2009]); iron (S-1, S-2, S-3); and manganese (S-2 [November 2009, unfiltered sample only] and S-3). The concentrations were generally at similar levels during both sampling events.

The results for % oxygen, % LEL and hydrogen sulfide were similar during both the

March 2009 and September 2009 explosive gas monitoring events, except that there was a low % LEL reading at EG-11 in September 2009, but not in March 2009, and the % LEL readings at monitoring well MW-3 were higher in September 2009 than in March 2009.

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# TABLES

**TABLE 1**
**SUMMARY OF FIELD PARAMETERS**
**TOWN OF MOREAU LANDFILL**

| Sampling Date | Field Parameter | Monitoring Wells | | | | | | | Surface Water Locations | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | EHC-1S | EHC-2S | MW-3 | MW-4 | MW-5 | MW-6S | PW-1[1] | S-1 | S-2 | S-3 |
| *Jan-00* | **pH (SU)** | 6.61 | 7.12 | 5.97 | 5.84 | 6.12 | 5.92 | 6.39 | 6.47 | 6.06 | 5.8 |
| *May-00* | | 7.68 | 7.91 | 6.68 | 6.47 | 7.27 | 7.1 | 7.79 | 6.64 | 7.27 | - |
| *Aug-00* | | 6.76 | 6.83 | 5.93 | 6.41 | 6.27 | 6.46 | 6.2 | 6.37 | 6.06 | - |
| *Oct-00* | | - | - | 6.73 | - | 6.92 | - | - | - | - | - |
| *Feb-01* | | 6.16 | 7.39 | 6.39 | 7.18 | 7.1 | 7.29 | 7.08 | 7.15 | - | - |
| *May-01* | | 5.93 | 6.6 | 6.31 | 6.68 | 6.63 | 6.67 | 6.9 | 6.65 | 6.59 | 6.75 |
| *Sep-01* | | 5.76 | 7.08 | 6.15 | 6.69 | 6.44 | 7.52 | 6.58 | 7.62 | 7.57 | 7.15 |
| *Dec-01* | | 6.43 | 7.05 | 6.04 | 6.57 | 7.48 | 6.46 | 7.54 | 6.81 | 7.71 | 7.42 |
| *Mar-02* | | 6.75 | 7.97 | 6.87 | 6.85 | 7.1 | 6.56 | - | 6.71 | 6.65 | 6.62 |
| *Oct-02* | | 6.91 | 8.01 | 6.62 | 6.89 | 7.0 | 7.07 | - | 7.25 | 7.37 | 7.36 |
| *May-03* | | 6.62 | 7.66 | 6.41 | 6.79 | 7.0 | 7.06 | - | 6.93 | 7.28 | 7.43 |
| *Nov-03* | | 6.46 | 8.45 | 6.36 | 6.63 | 6.7 | 6.46 | - | 6.52 | 6.85 | 7.34 |
| *Apr-04* | | 6.02 | 6.06 | 6.41 | 7.17 | 6.9 | 6.73 | - | 6.45 | 7.35 | 6.64 |
| *Oct-04* | | 6.61 | 7.68 | 6.57 | 7.21 | 6.9 | 6.91 | - | 7.23 | 6.54 | 6.97 |
| *May-05* | | 7.76 | 7.36 | 6.81 | 7.41 | 7.89 | 8.45 | - | 8.16 | 6.71 | 7.01 |
| *Nov-05* | | 6.80 | 10.32 | 9.34 | 8.32 | 8.69 | 9.79 | - | 8.65 | 8.15 | 8.42 |
| *May-06* | | 7.36 | 7.70 | 6.38 | 6.74 | 6.93 | 6.93 | - | 7.28 | 6.89 | 7.35 |
| *Oct-06* | | 6.50 | 7.39 | 6.35 | 6.45 | 6.54 | 6.82 | - | 7.12 | 6.93 | 6.89 |
| *May-07* | | 6.80 | 7.35 | 6.40 | 7.16 | 7.10 | 7.18 | - | 7.37 | 7.87 | 7.33 |
| *Oct-07* | | 7.03 | 7.94 | 6.40 | 6.81 | 6.72 | 6.78 | - | 7.15 | 7.71 | 7.41 |
| *May-08* | | 7.35 | 7.37 | 6.65 | 7.20 | 7.77 | 7.3 | - | 7.21 | 7.35 | 7.12 |
| *Oct-08* | | 7.45 | 7.92 | 6.64 | 7.05 | 7.24 | 7.15 | - | 7.82 | 7.21 | 7.26 |
| *May-09* | | 7.58 | 7.80 | 6.43 | 7.25 | 7.97 | 6.95 | - | 7.38 | 7.14 | 7.26 |
| *Nov-09* | | 7.73 | 7.53 | 6.81 | 7.55 | 7.53 | 7.23 | - | 7.20 | 7.38 | 7.11 |
| *Jan-00* | **Temp (°C)** | 8.3 | 8.1 | 8.9 | 7.6 | 5.5 | 9.0 | 8.1 | 7.4 | 1.8 | 5.4 |
| *May-00* | | 10.7 | 10.2 | 10 | 10.2 | 5.0 | 9.5 | 7.4 | - | 15.4 | - |
| *Aug-00* | | 12.3 | 11.6 | 12.4 | 11.7 | 14.7 | 14.1 | 12.9 | 14 | 25.1 | - |
| *Oct-00* | | - | - | 10.2 | - | 15.7 | - | - | - | - | - |
| *Feb-01* | | 2.2 | 4.4 | 2.9 | 3.3 | 2.5 | 4.3 | 8.8 | 10.5 | - | - |
| *May-01* | | 23.1 | 24.2 | 23.1 | 23.8 | 22.4 | 22.4 | 18.2 | 23.3 | 28.5 | 26.5 |

**TABLE 1**
**SUMMARY OF FIELD PARAMETERS**
**TOWN OF MOREAU LANDFILL**

| Sampling Date | Field Parameter | Monitoring Wells | | | | | | | Surface Water Locations | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | EHC-1S | EHC-2S | MW-3 | MW-4 | MW-5 | MW-6S | PW-1[1] | S-1 | S-2 | S-3 |
| *Sep-01* | **Temp Cont'd (°C)** | 17.2 | 17.1 | 16.6 | 17.6 | 18.3 | 20.2 | 18.6 | 20.4 | 21.5 | 13.6 |
| *Dec-01* | | 12.3 | 11.2 | 12.0 | 12.3 | 14.6 | 11.9 | 10.7 | 11.2 | 10.6 | 12.9 |
| *Mar-02* | | 6.8 | 4.4 | 4.9 | 4.9 | 3.9 | 6.4 | - | 5.3 | 5.5 | 3.8 |
| *Oct-02* | | 8.3 | 7.2 | 10.2 | 9.0 | 13.0 | 8.7 | - | 7.8 | 4.8 | 6.0 |
| *May-03* | | 11.7 | 11.5 | 11.5 | 13.5 | 8.5 | 11.8 | - | 11.6 | 15.3 | 13.7 |
| *Nov-03* | | 10.5 | 11.1 | 11.8 | 12.0 | 9.9 | 4.9 | - | 7.7 | 4.6 | 5.5 |
| *Apr-04* | | 10.1 | 9.6 | 7.4 | 8.8 | 6.9 | 7.1 | - | 13.6 | 13.9 | 11.9 |
| *Oct-04* | | 12.4 | 10.3 | 13.1 | 13.4 | 10.1 | 12.1 | - | 11.2 | 11.2 | 11.4 |
| *May-05* | | 9.5 | 10.7 | 6.8 | 8.7 | 6.2 | 7.1 | - | 9.9 | 10.3 | 10.2 |
| *Nov-05* | | 8.7 | 8.7 | 11.4 | 10.5 | 13.6 | 10.1 | - | 8.1 | 5.2 | 5.7 |
| *May-06* | | 12.4 | 11.5 | 14.6 | 16.7 | 10.9 | 14 | - | 16.9 | 22.2 | 22.5 |
| *Oct-06* | | 11.4 | 10.0 | 12.8 | 11.5 | 14.3 | 11.6 | - | 9.3 | 8.1 | 8.5 |
| *May-07* | | 12.0 | 11.5 | 9.7 | 14.3 | 6.0 | 10.9 | - | 12.4 | 18.6 | 19.0 |
| *Oct-07* | | 15.1 | 12.1 | 12.5 | 11.6 | 17.1 | 14.1 | - | 15.1 | 15.1 | 16.1 |
| *May-08* | | 15.3 | 11.4 | 10.3 | 11.5 | 5.0 | 10.0 | - | 17.1 | 27.0 | 17.3 |
| *Oct-08* | | 10.0 | 9.7 | 11.3 | 10.7 | 15.5 | 12.2 | - | 8.7 | 7.6 | 9.0 |
| *May-09* | | 10.4 | 10.0 | 10.0 | 11.4 | 5.4 | 10.1 | - | 12.0 | 14.0 | 11.9 |
| *Nov-09* | | 10.3 | 8.5 | 8.3 | 8.3 | 6.1 | 8.4 | - | 7.7 | 4.8 | 4.5 |
| *Jan-00* | **Specific** | 6.46 | 0.273 | 2.54 | 0.384 | 0.488 | 0.6 | 0.267 | 0.394 | 0.646 | 0.325 |
| *May-00* | **Conductivity (µS)** | 7.95 | 0.326 | 2.83 | 0.614 | 0.345 | 0.77 | 0.313 | 0.465 | 0.515 | - |
| *Aug-00* | | 7.19 | 0.148 | 2.75 | 0.91 | 0.526 | 0.728 | 0.316 | 0.453 | 0.544 | - |
| *Oct-00* | | - | - | 2.11 | - | 0.555 | - | - | - | - | - |
| *Feb-01* | | 600 | 194 | 3.44[3] | 955 | 600 | 924 | 370 | 459 | - | - |
| *May-01* | | 12.36 | 107 | 510 | 650 | 515 | 709 | 221 | 388 | 546 | 729 |
| *Sep-01* | | 18.93 | 156.5 | 2.78 | 493 | 522 | 731 | 312 | 406 | 630 | 839 |
| *Dec-01* | | 14.54 | 259 | 2.57 | 508 | 484 | 927 | 316 | 417 | 570 | 682 |
| *Mar-02* | | 16.38 | 69.3 | 2.79 | 510 | 1.8 | 972 | - | 570 | 638 | 954 |
| *Oct-02* | | 9.03[3] | 247 | 1577 | 925 | 568 | 737 | - | 506 | 653 | 786 |
| *May-03* | | 13.03[3] | 230 | 1520 | 597 | 535 | 625 | - | 449 | 474 | 585 |
| *Nov-03* | | 15.3[3] | 183 | 1,521 | 786 | 522 | 694 | - | 444 | 657 | 719 |

**TABLE 1**
**SUMMARY OF FIELD PARAMETERS**
**TOWN OF MOREAU LANDFILL**

| Sampling Date | Field Parameter | Monitoring Wells | | | | | | | Surface Water Locations | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | EHC-1S | EHC-2S | MW-3 | MW-4 | MW-5 | MW-6S | PW-1[1] | S-1 | S-2 | S-3 |
| *Apr-04* | Specific Conductivity Cont'd (µS) | 13.6 | 103 | 1,400 | 848 | 477 | 601 | - | 819 | 146.7 | 492 |
| *Oct-04* | | 121.9 | 94.5 | 1,293 | 817 | 451 | 706 | - | 570 | 865 | 100.9 |
| *May-05* | | 414 | 121.2 | 1,372 | 183.1 | 486.4 | 729 | - | 179.2 | 761 | 117.9 |
| *Nov-05* | | 120.6 | 9.84[3] | 1,225 | 418 | 446 | 756 | - | 446 | 668 | 639 |
| *May-06* | | 14.78[3] | 263 | 1,905 | 508 | 353 | 560 | - | 498 | 684 | 835 |
| *Oct-06* | | 5.89[3] | 315 | 1,399 | 595 | 523 | 496 | - | 494 | 568 | 665 |
| *May-07* | | >19.9[3] | 201 | 1,932 | 259 | 481 | 518 | - | 468 | 440 | 788 |
| *Oct-07* | | 4.77[3] | 188.7 | 901 | 510 | 421 | 459 | - | 515 | 399 | 715 |
| *May-08* | | 11.20[3] | 276 | 1,788 | 689 | 342 | 464 | - | 501 | 552 | 811 |
| *Oct-08* | | 8.08[3] | 330 | 1,352 | 705 | 416 | 521 | - | 403 | 557 | 575 |
| *May-09* | | 1856 | 228 | 826 | 552 | 312 | 381 | - | 328 | 198.3 | 430 |
| *Nov-09* | | 1905 | 316 | 771 | 601 | 380 | 445 | - | 413 | 650 | 415 |
| *Jan-00* | Redox (mV) | 120 | 135 | -60 | 20 | -30 | -45 | 170 | 60 | -45 | - |
| *May-00* | | 155 | 145 | -65 | 35 | -65 | -55 | 265 | 110 | 105 | - |
| *Oct-00* | | - | - | -44 | - | - | - | - | - | - | - |
| *May-01* | | 170 | 54 | -32 | -45 | -68 | 50 | - | -25 | 121 | 228 |
| *Sep-01* | | 123 | 167 | -93 | -53 | 62 | 37 | 160 | 150 | 105 | -75 |
| *Dec-01* | | 92 | 43 | -46 | 165 | 154 | -12 | 185 | 65 | 216 | 126 |
| *Mar-02* | | 61 | 85 | -16 | 40 | 80 | 58 | - | 121 | 131 | 295 |
| *Oct-02* | | 60 | -13 | -71 | -77 | -13 | -47 | - | 68 | 28 | -35 |
| *May-03* | | 239 | 249 | -23.1 | 52 | -52.8 | -48.2 | - | 58.7 | 100 | -17.5 |
| *Nov-03* | | 124 | -34 | -46 | -30 | 55 | -72 | - | 73 | 45 | -105 |
| *Apr-04* | | -49.5 | -78 | 196.2 | 153.7 | -146 | -146 | - | -227 | -13.67 | 117 |
| *Oct-04* | | 311.8 | 172 | 180.6 | 146.5 | 161 | 132 | - | 128.5 | 140.4 | 71.3 |
| *May-05* | | 96.5 | 173.2 | 172.6 | 99.5 | 73.3 | 107 | - | 138.4 | 146.3 | 62.1 |
| *Nov-05* | | 590 | 169.7 | 235.6 | 265 | - | 101 | - | 103.3 | 405 | 192.1 |
| *May-06* | | 73.6 | 290.7 | 9.5 | 132.5 | 143.3 | 46.8 | - | 106.5 | 155.6 | 105 |

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**TOWN OF MOREAU LANDFILL**

| Sampling Date | Field Parameter | Monitoring Wells | | | | | | | Surface Water Locations | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | EHC-1S | EHC-2S | MW-3 | MW-4 | MW-5 | MW-6S | PW-1[1] | S-1 | S-2 | S-3 |
| *Oct-06* | **Redox** | 198.5 | 164.0 | 542.1 | 128.5 | 360.1 | 158.4 | - | 210.3 | 383.5 | 122.0 |
| *May-07* | **Cont'd (mv)** | 22.2 | 22.1 | - | 3.5 | 0.3 | 3.2 | - | 12.4 | 13.6 | 24.4 |
| *Oct-07* | | 220.7 | 215.7 | 227.1 | 226.7 | 224.1 | 225.6 | - | 221.5 | 207.5 | 225.1 |
| *May-08* | | 215.1 | 205.4 | 215.7 | 205.1 | 225.3 | 201.1 | - | 212.4 | 212.5 | 215.5 |
| *Oct-08* | | 190.4 | 191.1 | 191.7 | 190.3 | 190.4 | 193.7 | - | 190.9 | 191.2 | 195.4 |
| *May-09* | | 197.3 | 193.1 | 191.4 | 190.0 | 198.6 | 191.7 | - | 198.7 | 190.1 | 193.3 |
| *Nov-09* | | - | 190.3 | 189.3 | 191.5 | 188.8 | 190.2 | - | 199.9 | 190.3 | 188.3 |
| *Jan-00* | **Turbidity (NTU)** | 71 | 41 | 5 | 1 | 24 | 5 | . | 17 | 51 | 6 |
| *May-00* | | 62 | 36 | 5 | 0 | 22 | 0 | 10 | 20 | 0 | - |
| *Aug-00* | | 740 | 586 | 147 | 140 | 135 | 355 | 90 | 306 | 5 | - |
| *Oct-00* | | - | - | 5 | - | 13 | - | - | - | - | - |
| *Feb-01* | | 48 | 26.8 | 25 | 6.56 | 18.3 | 7.2 | 5.4 | 0.2 | - | - |
| *May-01* | | 16.3 | 12.5 | 21 | 4.1 | 20 | 5.1 | 1.9 | 4.5 | 15.2 | 5.7 |
| *Sep-01* | | 38.5 | 27.3 | 125 | 2.5 | 6.3 | 8.3 | 1.15 | 1.54 | 30.2 | 4.3 |
| *Dec-01* | | 105 | 16.05 | 41.6 | 1.85 | 7.64 | 3.7 | 2.65 | 3.45 | 41.5 | 40.2 |
| *Mar-02* | | 52.4 | 7.98 | 30.1 | 5 | 6.7 | 6.32 | - | 3.98 | 4.91 | 8.2 |
| *Oct-02* | | 130 | 25.3 | 28 | 10.2 | 49 | 5.01 | - | 1.33 | 34 | 4.27 |
| *May-03* | | 175 | 19.8 | 16.9 | 7.43 | 10.5 | 9.22 | - | 2.1 | 6.5 | 5.92 |
| *Nov-03* | | 115 | 33 | 12 | 3.9 | 4.1 | 11.7 | - | 2 | 38 | 32 |
| *Apr-04* | | 29 | 2.3 | 47 | 47 | 3.2 | 10.3 | - | 121 | 26.1 | 12.3 |
| *Oct-04* | | 13.3 | 3.9 | 36 | 21 | 1.9 | 11.7 | - | 4.6 | 28.8 | >200 |
| *May-05* | | 11.7 | 8.2 | 21.6 | 9 | 16.28 | 14.17 | - | 7.8 | 39.6 | >200 |
| *Nov-05* | | 5.83 | 0.73 | 10.6 | 8.40 | 8.45 | 5.74 | - | 3.5 | 68.5 | 145.6 |
| *May-06* | | 38.4 | - | 23.5 | 14.20 | 4.2 | 10.23 | - | 3.5 | 75.2 | >200 |
| *Oct-06* | | 35.3 | 1.75 | 38.5 | 1.65 | 3.75 | 2.09 | - | 2.75 | 6.04 | 68.6 |
| *May-07* | | - | 12.25 | 9.75 | 7.58 | 18.9 | 7.01 | - | 3.75 | 5.45 | >200 |
| *Oct-07* | | 10.75 | 5.15 | 6.25 | 14.50 | 9.75 | 3.72 | - | 4.21 | 125.7 | >200 |
| *May-08* | | 40.1 | 8.5 | 15.7 | 11.5 | 35.7 | 12.5 | - | 3.1 | 87.5 | >200 |
| *Oct-08* | | 42.9 | 13.7 | 34.0 | 18.5 | 18.1 | 21.5 | - | 13.3 | 11 | 81.5 |
| *May-09* | | 23.7 | 11.6 | 17.3 | 6.29 | 20.2 | 15.3 | - | 7.5 | 130 | 110 |
| *Nov-09* | | 15.8 | 11.1 | 4.17 | 9.2 | 16.3 | 8.63 | - | 4.01 | 80.3 | 153.2 |

**TABLE 1**
**SUMMARY OF FIELD PARAMETERS**
**TOWN OF MOREAU LANDFILL**

| Sampling Date | Field Parameter | Monitoring Wells | | | | | | | Surface Water Locations | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | EHC-1S | EHC-2S | MW-3 | MW-4 | MW-5 | MW-6S | PW-1[1] | S-1 | S-2 | S-3 |
| *Aug-00* | Dissolved Oxygen | 8.44 | 9.5 | 2.1 | 4.42 | 2.44 | 1.62 | 5.65 | 6.28 | 1.8 | - |
| *Oct-00* | (mg/L) | - | - | 2.86 | - | 1.75 | - | - | - | - | - |
| *Feb-01* | | - | - | - | - | - | - | - | 7.68[2] | - | - |
| *May-01* | | - | - | - | - | - | - | - | 7.4[2] | 9.1[2] | 1.8[2] |
| *Sep-01* | | - | - | - | - | - | - | - | 6.27[2] | <1.0[2] | 2.6[2] |
| *Dec-01* | | - | - | - | - | - | - | - | - | 6.75[2] | 5.8[2] |
| *Mar-02* | | - | - | - | - | - | - | - | 7.3[2] | >12.2[2] | 4.4[2] |
| *Oct-02* | | - | - | - | - | - | - | - | 7.45[2] | 1.21[2] | 4.75[2] |
| *May-03* | | - | - | - | - | - | - | - | 7.42[2] | 11.9[2] | 6.6[2] |
| *Nov-03* | | - | - | - | - | - | - | - | 7.3[2] | 2.5[2] | 2[2] |
| *Apr-04* | | - | - | - | - | - | - | - | 6.44[2] | 7.6[2] | 1.6[2] |
| *Oct-04* | | - | - | - | - | - | - | - | 8.30[2] | 6.30[2] | 4.90[2] |
| *May-05* | | - | - | - | - | - | - | - | 8.1[2] | 10[2] | 1.8[2] |
| *Nov-05* | | - | - | - | - | - | - | - | 7.1[2] | 3.1[2] | 3.1[2] |
| *May-06* | | - | - | - | - | - | - | - | 7.7[2] | <1[2] | <1[2] |
| *Oct-06* | | - | - | - | - | - | - | - | 7.8[2] | 5.1[2] | <1[2] |
| *May-07* | | - | - | - | - | - | - | - | 7.66[2] | 8.74[2] | 0.23[2] |
| *Oct-07* | | - | - | - | - | - | - | - | 7.7[2] | 0.8[2] | 0.2[2] |
| *May-08* | | - | - | - | - | - | - | - | 8.0[2] | 4.47[2] | 0.09[2] |
| *Oct-08* | | - | - | - | - | - | - | - | 9.57[2] | 6.36[2] | 4.7[2] |
| *May-09* | | - | - | - | - | - | - | - | 9.77[2] | 8.7[2] | 3.9[2] |
| *Nov-09* | | - | - | - | - | - | - | - | 10.92[2] | 6.73[2] | 2.84[2] |

Notes:
The 1992 and 1996 through 2000 results were provided by the Town of Moreau.
[1] Public water supply groundwater production well.
[2] Measured in lab.
[3] Measured as mS.

# TABLE 2
## SUMMARY OF LEACHATE INDICATOR PARAMETERS
## TOWN OF MOREAU LANDFILL

| Sampling Date | Parameter | Monitoring Wells | | | | | | | | | Surface Water Locations | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | GW Standard [1] | EHC-1S | EHC-2S | MW-3 | MW-4 | MW-5 | MW-6S | PW-1[2] | DUP [3] | Surface Water Standard [1] | S-1 | S-2 | S-3 |
| *Jan-92* | Alkalinity | NS | 62 | 45 | 1,400 | 280 | 450 | 320 | 93 | 46 | NS | 60 | 1,200 | 160 |
| *May-92* | | | 62 | 38 | 1,270 | 188 | 558 | 230 | 91.6 | 42 | | 61 | 552 | 451 |
| *Oct-92* | | | 56 | 44 | 1,470 | 144 | 440 | 184 | 84 | 1,360 | | 70 | 782 | 216 |
| *Jan-96* | | | 36 | 33 | 1,200 | 270 | 300 | 360 | 88 | 1,100 | | 150 | - | - |
| *Mar-96* | | | 50 | 53 | 1,200 | 420 | 310 | 400 | 83 | - | | 71 | 220 | 980 |
| *May-96* | | | 52 | 56 | 960 | 150 | 290 | 370 | 79 | - | | 77 | 310 | - |
| *Jul-96* | | | 58 | 50 | 1,000 | 200 | 310 | 380 | 80 | - | | 120 | 320 | 500 |
| *Oct-96* | | | 69 | 150 | 560 | 32 | 240 | 240 | 93 | 600 | | 110 | 340 | - |
| *Jan-97* | | | 36 | 33 | 1,200 | 270 | 300 | 360 | 88 | 1,100 | | 150 | - | - |
| *Apr-97* | | | 52 | 44 | 770 | 120 | 330 | 360 | 120 | 40 | | 490 | 540 | 800 |
| *Jul-97* | | | 92 | 33 | 950 | 120 | 430 | 370 | 88 | 1,000 | | 98 | 310 | - |
| *Oct-97* | | | 210 | 110 | 850 | 220 | 250 | 210 | 110 | 190 | | 160 | 290 | - |
| *Jan-98* | | | 59 | 52 | 200 | 100 | 300 | 370 | 21 | 54 | | 56 | - | 59 |
| *Apr-98* | | | 82 | 39 | 1,630 | 173 | 303 | 415 | 80 | 56 | | 123 | 480 | - |
| *Aug-98* | | | 35 | 28 | 960 | - | 150 | - | 64 | 32 | | 150 | 164 | - |
| *Nov-98* | | | 28 | 56 | 1,148 | 240 | 276 | 548 | 54 | 40 | | 76 | 280 | - |
| *Feb-99* | | | 52 | 60 | 1,236 | 256 | 216 | 348 | 48 | 60 | | 92 | 408 | - |
| *Apr-99* | | | 50 | 90 | 1,256 | 184 | 250 | 330 | 70 | 55 | | 90 | 170 | 550 |
| *Jul-99* | | | 240 | 100 | 28 | 240 | 420 | 420 | 70 | 525 | | 125 | 330 | - |
| *Oct-99* | | | 80 | 60 | 1,100 | 210 | 200 | 400 | 60 | 40 | | 120 | 300 | - |
| *Jan-00* | | | 90 | 60 | 1,270 | 110 | 170 | 360 | 40 | 80 | | 70 | 540 | 160 |
| *May-00* | | | 110 | 60 | 1,320 | 135 | 170 | 330 | 30 | 35 | | 80 | 470 | - |
| *Aug-00* | | | 90 | 70 | 1,250 | 120 | 170 | 310 | 25 | 190 | | 80 | 400 | - |
| *Oct-00* | | | 70 | 110 | 1,270 | 140 | 160 | 290 | 20 | 70 | | 90 | 410 | - |
| *Feb-01* | | | 60 | 40 | 1,180 | 100 | 130 | 140 | 60 | 160 | | 60 | - | - |
| *May-01* | | | 70 | 65 | 1,005 | 280 | 200 | 400 | 55 | 250 | | 70 | 270 | 405 |
| *Sep-01* | | | 80 | 60 | 1,300 | 230 | 180 | 310 | 180 | 170 | | 80 | 220 | 370 |
| *Dec-01* | | | 50 | 80 | 1,140 | 110 | 165 | 520 | 60 | 150 | | 50 | 260 | 480 |
| *Mar-02* | | | 90 | 50 | 1,120 | 340 | 220 | 300 | - | - | | 60 | 280 | 370 |
| *Oct-02* | | | 110 | 70 | 1,080 | 450 | 160 | 360 | - | 370 | | 80 | 220 | 410 |

# TABLE 2
## SUMMARY OF LEACHATE INDICATOR PARAMETERS
## TOWN OF MOREAU LANDFILL

| Sampling Date | Parameter | Monitoring Wells | | | | | | | | | Surface Water Locations | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | GW Standard [1] | EHC-1S | EHC-2S | MW-3 | MW-4 | MW-5 | MW-6S | PW-1[2] | DUP [3] | Surface Water Standard [1] | S-1 | S-2 | S-3 |
| *May-03* | **Alkalinity Cont'd** | **NS** | 64 | 48 | 760 | 17 | 160 | 256 | - | 140 | **NS** | 60 | 256 | 300 |
| *Nov-03* | | | 32 | 48 | 760 | 372 | 178 | 270 | - | 372 | | 80 | 352 | 3,982 |
| *Apr-04* | | | 50 | 40 | 770 | 220 | 180 | 230 | - | 740 | | 260 | 200 | 300 |
| *Oct-04* | | | 46 | 30 | 710 | 300 | 170 | 360 | - | 320 | | 82 | 520 | 450 |
| *May-05* | | | 170 | 160 | 1,000 | 260 | 240 | 290 | - | 340 | | 230 | 350 | 300 |
| *Nov-05* | | | 32 | 27 | 690 | 93 | 160 | 350 | - | 150 | | 70 | 460 | 400 |
| *May-06* | | | 50 | 40 | 940 | 230 | 110 | 220 | - | 800 | | 83 | 330 | 460 |
| *Oct-06* | | | 67 | 53 | 730 | 150 | 140 | 190 | - | 150 | | 110 | 280 | 350 |
| *May-07* | | | 51 | 63 | 870 | 57 | 180 | 210 | - | 240 | | 78 | 240 | 790 |
| *Oct-07* | | | 71 | 38 | 980 | 110 | 140 | 250 | - | 140 | | 84 | 210 | 180 |
| *May-08* | | | 80 | 53.4 | 790 | 160 | 140 | 190 | - | 810 | | 72.9 | 140 | 720 |
| *Oct-08* | | | 82 | 49.4 | 819 | 171 | 154 | 266 | - | 166 | | 76.7 | <20 | 334 |
| *May-09* | | | 68 | 59.8 | 854 | <20 | 138 | 250 | - | 138 | | 71.2 | 150 | 311 |
| *Nov-09* | | | 80.2 | 66.3 | 965 | 166 | 80.4 | 178 | - | 164 | | 80.6 | 342 | 390 |
| *Jan-92* | **Ammonia** | **2.0** | <1.0 | 50.0 | 39.6 | 5.8 | 4.0 | 4.0 | <1.0 | <1.0 | **2.0** | <1.0 | 11.4 | 1.9 |
| *May-92* | | | 2.7 | <1.0 | 42.1 | 1.4 | 1.8 | 4.5 | <1.0 | <1.0 | | <1.0 | 5.0 | 1.4 |
| *Oct-92* | | | <1.0 | <1.0 | 35.1 | 2.0 | 2.3 | 5.1 | <1.0 | 42.7 | | <1.0 | 5.5 | 4.4 |
| *Jan-96* | | | <0.03 | <0.03 | 37 | 1.2 | 0.85 | 6.6 | <0.03 | 37 | | 0.065 | - | - |
| *Mar-96* | | | <1.0 | <1.0 | 35.3 | 2.4 | <1.0 | 5.0 | <1.0 | - | | <1.0 | <1.0 | 4.4 |
| *May-96* | | | <0.1 | <0.1 | 27 | 1.3 | 0.71 | 5.9 | <0.1 | - | | 0.27 | <0.1 | - |
| *Jul-96* | | | <0.03 | <0.03 | 34 | 1.6 | 0.57 | 5.9 | <0.03 | - | | <0.03 | 0.14 | 0.4 |
| *Oct-96* | | | <0.03 | <0.03 | 19 | 2.6 | 0.76 | 5.0 | <0.03 | 19 | | 0.074 | 1.1 | - |
| *Jan-97* | | | <0.03 | <0.03 | 37 | 1.2 | 0.85 | 6.6 | <0.03 | 37 | | 0.065 | - | - |
| *Apr-97* | | | <0.03 | <0.03 | 21 | 0.48 | 0.29 | 1.8 | <0.03 | <0.03 | | 0.78 | <0.03 | <0.03 |
| *Jul-97* | | | <0.03 | <0.03 | 33 | 1.0 | 0.55 | 5.4 | 0.16 | 3.8 | | 0.16 | 0.51 | - |
| *Oct-97* | | | <0.03 | <0.03 | 29 | 1.2 | 0.74 | 8.8 | <0.03 | 27 | | <0.03 | <0.03 | - |
| *Jan-98* | | | <0.03 | <0.03 | 39 | 1.4 | 0.78 | 5.1 | <0.03 | <0.03 | | <0.03 | - | 0.68 |
| *Apr-98* | | | <1.0 | <1.0 | 34 | 1.7 | 1.4 | 5.6 | <1.0 | <1.0 | | <1.0 | <1.0 | - |
| *Aug-98* | | | <1.0 | <1.0 | 28 | - | 2.2 | - | <1.0 | <1.0 | | <1.0 | <1.0 | - |
| *Nov-98* | | | <1.0 | <1.0 | 32 | 6.2 | 1.9 | 6.7 | <1.0 | <1.0 | | <1.0 | <1.0 | - |
| *Feb-99* | | | <1.0 | <1.0 | 32 | 11 | <1.0 | 1.1 | <1.0 | <0.005 | | <1.0 | 5.3 | - |
| *Apr-99* | | | <1.0 | <1.0 | 33 | 2.8 | <1.0 | 3.1 | <1.0 | <1.0 | | <1.0 | <1.0 | 9.5 |
| *Jul-99* | | | <1.0 | <1.0 | 28 | 11 | 1.1 | <1.0 | <1.0 | <0.005 | | <1.0 | 5.6 | - |
| *Oct-99* | | | <1.0 | <1.0 | 25 | 11 | 1.9 | <1.0 | <1.0 | <0.005 | | <1.0 | <1.0 | - |

**TABLE 2**
**SUMMARY OF LEACHATE INDICATOR PARAMETERS**
**TOWN OF MOREAU LANDFILL**

| Sampling Date | Parameter | Monitoring Wells | | | | | | | | | Surface Water Locations | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | GW Standard [1] | EHC-1S | EHC-2S | MW-3 | MW-4 | MW-5 | MW-6S | PW-1[2] | DUP [3] | Surface Water Standard [1] | S-1 | S-2 | S-3 |
| *Jan-00* | Ammonia Cont'd | 2.0 | <1.0 | <1.0 | 36 | 1.7 | <1.0 | <1.0 | 2.0 | <0.005 | 2.0 | 2 | 1.7 | 2.8 |
| *May-00* | | | <1.0 | <1.0 | 2.58 | 17 | 3.6 | 1.12 | <1.0 | <1.0 | | 1.12 | <1.0 | - |
| *Aug-00* | | | <1.0 | <1.0 | 22 | 12 | 5.0 | 1.1 | <1.0 | 11 | | 1.1 | <1.0 | - |
| *Oct-00* | | | 1.7 | 2.5 | 24 | 3.9 | 6.2 | 7.0 | 2.2 | 2.0 | | 2.0 | 2.8 | - |
| *Feb-01* | | | <1.0 | 1.1 | 39 | 6.2 | <1.0 | 5.6 | <1.0 | 1.9 | | <1.0 | - | - |
| *May-01* | | | 1.1 | 1.4 | 42 | 9.2 | 1.1 | 5.9 | <1.0 | 1.9 | | 1.1 | 1.4 | 1.4 |
| *Sep-01* | | | 1.4 | 1.7 | 36 | 6.2 | 1.1 | 4.5 | 1.1 | 2.0 | | <1.0 | 2.8 | 2 |
| *Dec-01* | | | <1.0 | <1.0 | 36 | 2.8 | <1.0 | 7.3 | <1.0 | 4.5 | | 2.8 | 1.1 | 3.1 |
| *Mar-02* | | | <1.0 | <1.0 | 31 | 3.4 | <1.0 | 8.7 | - | 3.1 | | 3.1 | 1.9 | 3.9 |
| *Oct-02* | | | <1.0 | <1.0 | 31 | 6.2 | <1.0 | 3.6 | - | 3.6 | | <1.0 | <1.0 | <1.0 |
| *May-03* | | | <1.0 | <1.0 | 26 | 3.1 | <1.0 | 3.6 | - | <1.0 | | <1.0 | <1.0 | <1.0 |
| *Nov-03* | | | <1.0 | <1.0 | 3.9 | 1.7 | 1.1 | 11 | - | <1.0 | | <1.0 | <1.0 | <1.0 |
| *Apr-04* | | | <1.0 | <1.0 | <1.0 | 3.3 | <1.0 | <1.0 | - | 26 | | <1.0 | <1.0 | <1.0 |
| *Oct-04* | | | <2 | <2 | 8 | 11 | <2 | 3 | - | 12 | | <2 | <1 | 4 |
| *May-05* | | | <2 | <2 | 24 | 5 | <2 | <2 | | <2 | | <2 | <2 | 3.0 |
| *Nov-05* | | | <2 | <2 | 22 | <2 | <2 | 5.0 | - | <2 | | <2 | <2 | 2 |
| *May-06* | | | <2 | 3 | 21 | 3 | <2 | 2.0 | - | 18 | | <2 | <2 | 2 |
| *Oct-06* | | | <2 | <2 | 27 | 2.8 | <2 | 4.5 | - | 2.8 | | <2 | 2.2 | 2.8 |
| *May-07* | | | <0.02 | <0.02 | 26 | 0.27 | 0.27 | 2.8 | - | 2.5 | | 0.09 | 0.11 | 6.5 |
| *Oct-07* | | | 0.1 | <0.02 | 28 | 1.80 | 0.46 | 4.5 | - | 0.3 | | 0.06 | 3.8 | 7.0 |
| *May-08* | | | 0.08 | 0.04 | 26 | 3 | 0.26 | 3.1 | - | 26 | | 0.14 | 0.41 | 5.3 |
| *Oct-08* | | | 0.18 | 0.04 | 30 | 4.8 | 0.51 | 5.7 | - | 5.3 | | 0.12 | 0.76 | 2.6 |
| *May-09* | | | 0.05 | 0.07 | 31 | 5.6 | 0.40 | 6.2 | - | 0.34 | | 0.07 | 1.3 | 5.1 |
| *Nov-09* | | | 0.08 | 0.05 | 29 | 6.2 | 0.51 | 2.0 | - | 1.8 | | 0.11 | 0.67 | 3.3 |
| *Oct-92* | Biological Oxygen Demand ($BOD_5$) | NS | <3.0 | <3.0 | 16.2 | <3.0 | <3.0 | <3.0 | <3.0 | 13.8 | NS | 6.1 | 124 | 6.0 |
| *Jul-96* | | | <4.0 | <4.0 | 15 | 4.5 | <4.0 | 13 | 6.3 | 7.8 | | 130 | 19 | 22 |
| *Jan-98* | | | <4.0 | <4.0 | 11 | <4.0 | <4.0 | <4.0 | <4.0 | <4.0 | | 7.4 | - | 23 |
| *Feb-99* | | | - | - | - | - | - | - | - | - | | - | - | - |
| *Apr-99* | | | <2.0 | <2.0 | 23 | 4.1 | 2.1 | 2.1 | <2.0 | <2.0 | | 6.2 | 4.1 | 16 |
| *Aug-00* | | | <2.0 | <2.0 | 9.2 | 23 | 3.0 | 24 | <2.0 | <2.0 | | <2.0 | 10 | - |
| *Dec-01* | | | <2.0 | <2.0 | 18 | <2.0 | <2.0 | 3.6 | <2.0 | <2.0 | | <2.0 | 22 | 23 |
| *Apr-04* | | | <2.0 | <2.0 | 15 | 13 | <2.0 | <2.0 | - | 24 | | - | - | - |
| *Oct-07* | | | <4.0 | <4.0 | 13 | 9.6 | <4.0 | <4.0 | - | <4.0 | | - | - | - |

**TABLE 2**
**SUMMARY OF LEACHATE INDICATOR PARAMETERS**
**TOWN OF MOREAU LANDFILL**

| Sampling Date | Parameter | Monitoring Wells | | | | | | | | | Surface Water Locations | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | GW Standard [1] | EHC-1S | EHC-2S | MW-3 | MW-4 | MW-5 | MW-6S | PW-1[2] | DUP [3] | Surface Water Standard [1] | S-1 | S-2 | S-3 |
| *Oct-92* | Boron | 1.0 | <0.1 | <0.1 | 1.85 | <0.1 | 0.187 | <0.1 | <1.0 | 1.88 | 10 | <0.1 | 0.494 | 0.104 |
| *Jul-96* | | | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | | <1.0 | <1.0 | <1.0 |
| *Jan-98* | | | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | | <1.0 | - | <1.0 |
| *Apr-99* | | | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | | <0.2 | <0.2 | <0.2 |
| *Aug-00* | | | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | | 0.2 | <0.2 | - |
| *Dec-01* | | | <0.2 | <0.2 | 0.223 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | | <0.2 | <0.2 | <0.2 |
| *Apr-04* | | | <0.2 | <0.2 | 0.201 | <0.1 | <0.1 | <0.1 | - | 0.024 | | - | - | - |
| *Oct-07* | | | <0.05 | <0.05 | 1.02 | <0.05 | 0.056 | 0.077 | - | 0.055 | | - | - | - |
| *Jan-92* | Chemical Oxygen Demand (COD) | NS | 20 | <10 | 240 | 32 | 55 | 17 | <10 | <10 | NS | <10 | 270 | 92 |
| *May-92* | | | 56.8 | <10 | 247 | 14.7 | 67.9 | 30.4 | <10 | <10 | | <10 | 480 | 922 |
| *Oct-92* | | | <2.0 | <2.0 | 187 | 2.1 | 44.1 | <2.0 | <2.0 | 316 | | <2.0 | 209 | 125 |
| *Jan-96* | | | 55 | 2.1 | 180 | 11 | 29 | 52 | 2.1 | 170 | | 21 | - | - |
| *Mar-96* | | | 18.3 | <5.0 | 180 | 26.9 | 33.4 | 48.4 | <5.0 | - | | 36.5 | 49.8 | 954 |
| *May-96* | | | <1.0 | <1.0 | 170 | 3.8 | 37 | 49 | 11 | - | | 37 | 76 | - |
| *Jul-96* | | | 14 | 7.2 | 160 | 9.4 | 33 | 69 | 3.0 | - | | 110 | 140 | 150 |
| *Oct-96* | | | 26 | <1.0 | 90 | 5.3 | 58 | 55 | <1.0 | 80 | | 38 | 53 | - |
| *Jan-97* | | | 55 | 2.1 | 180 | 11 | 29 | 52 | 2.1 | 170 | | 21 | - | - |
| *Apr-97* | | | 110 | 2.2 | 100 | 4.3 | 32 | 51 | 2.2 | <1.0 | | 200 | 190 | 210 |
| *Jul-97* | | | <1.0 | <1.0 | 120 | <1.0 | 35 | 35 | <1.0 | <1.0 | | 4.9 | 120 | - |
| *Oct-97* | | | 32 | 9.1 | 160 | 13 | 30 | 55 | <1.0 | 120 | | 59 | 65 | - |
| *Jan-98* | | | 58 | 20 | 160 | 31 | 42 | 58 | 11 | 58 | | 22 | - | 180 |
| *Apr-98* | | | 190 | <10 | 193 | 13 | 43 | 65 | <10 | 216 | | 113 | 108 | - |
| *Aug-98* | | | 173 | <10 | 222 | - | 48 | - | <10 | <10 | | 424 | 115 | - |
| *Nov-98* | | | 253 | <10 | 219 | 23 | 51 | 97 | <10 | <10 | | 23 | 392 | - |
| *Feb-99* | | | 596 | <10 | 322 | 22 | 24 | 65 | <10 | <10 | | 85 | 440 | - |
| *Apr-99* | | | 308 | 24 | 377 | 24 | 71 | 71 | 21 | 303 | | 40 | 71 | 137 |
| *Jul-99* | | | 426 | <10 | 178 | 26 | 26 | 73 | <10 | 24 | | <10 | 327 | - |
| *Oct-99* | | | 265 | 12 | 232 | <10 | 19 | 47 | <10 | <10 | | 45 | 47 | - |
| *Jan-00* | | | 223 | 21 | 218 | 24 | 24 | 52 | <10 | 178 | | 19 | 55 | 26 |
| *May-00* | | | 213 | <10 | 242 | 45 | 26 | 71 | 19 | 19 | | 69 | 66 | - |

# TABLE 2
## SUMMARY OF LEACHATE INDICATOR PARAMETERS
## TOWN OF MOREAU LANDFILL

| Sampling Date | Parameter | Monitoring Wells | | | | | | | | | Surface Water Locations | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | GW Standard [1] | EHC-1S | EHC-2S | MW-3 | MW-4 | MW-5 | MW-6S | PW-1 [2] | DUP [3] | Surface Water Standard [1] | S-1 | S-2 | S-3 |
| *Aug-00* | Chemical Oxygen Demand (COD) Cont'd | NS | 213 | 19 | 149 | <10 | 24 | 43 | <10 | 43 | NS | <10 | 43 | - |
| *Oct-00* | | | 272 | <10 | 135 | 76 | 28 | 47 | <10 | 249 | | 69 | 24 | - |
| *Feb-01* | | | 587 | 12 | 232 | 24 | <10 | 38 | 12 | 24 | | <10 | - | - |
| *May-01* | | | 220 | <10 | 175 | 12 | <10 | <10 | <10 | <10 | | <10 | 43 | <10 |
| *Sep-01* | | | 314 | <10 | 261 | <10 | <10 | 12 | <10 | <10 | | <10 | 381 | 19 |
| *Dec-01* | | | 604 | 115 | 314 | 129 | <10 | 41 | <10 | <10 | | <10 | 84 | 53 |
| *Mar-02* | | | 340 | <10 | 247 | 46 | 29 | 62 | - | 211 | | <10 | 48 | 36 |
| *Oct-02* | | | 757 | 22 | 264 | 46 | 31 | 72 | - | 72 | | 41 | 72 | 46 |
| *May-03* | | | 2752 | <10 | 140 | <10 | 49 | 84 | - | <10 | | <10 | 32 | 17 |
| *Nov-03* | | | 322 | 117 | 72 | 75 | 65 | 75 | - | 75 | | 45 | 70 | 127 |
| *Apr-04* | | | <10 | <10 | 78 | <10 | <10 | <10 | - | 89 | | 34 | <10 | <10 |
| *Oct-04* | | | 150 | 21 | 150 | 67 | 59 | 46 | - | 57 | | 21 | 100 | 250 |
| *May-05* | | | 29 | 9 | 130 | 17 | 12 | 34 | - | 19 | | 12 | 600 | 470 |
| *Nov-05* | | | 610 | <6 | 130 | 14 | 29 | 22 | - | 17 | | 14 | 91 | 98 |
| *May-06* | | | 240 | <6 | 130 | 12 | <6 | 24 | - | 120 | | <6 | 760 | 340 |
| *Oct-06* | | | 490 | <6 | 120 | <6 | 61 | 24 | - | <6 | | 9.2 | 9.2 | 230 |
| *May-07* | | | 700 | <10 | 110 | <10 | 12 | 47 | - | 33 | | <10 | 42 | 870 |
| *Oct-07* | | | 320 | <10 | 130 | <10 | 16 | 27 | - | 13 | | <10 | 810 | 450 |
| *May-08* | | | 120 | 14 | 110 | 21 | 12 | 19 | - | 120 | | <10 | 410 | 7200 |
| *Oct-08* | | | 250 | <10 | 120 | 10 | 12 | 24 | - | 10 | | 10 | 49 | 300 |
| *May-09* | | | 200 | 13 | 120 | 11 | 13 | 22 | - | 11 | | <10 | 430 | 200 |
| *Nov-09* | | | 180 | 19 | 110 | <10 | 16 | 28 | - | 12 | | <10 | 270 | 1200 |
| *Jan-92* | Chloride | 250 | 2,270 | 47.6 | 215 | 79.7 | 116 | 82.8 | 20.2 | 49.3 | 250 | 58.5 | 215 | 24.4 |
| *May-92* | | | 1,900 | 52.9 | 228 | 84 | 92.2 | 72 | 26.2 | 52.2 | | 63.4 | 149 | 40.3 |
| *Oct-92* | | | 2,960 | 49.7 | 277 | 64 | 119 | 79.1 | 25.6 | 286 | | 68.8 | 196 | 49.8 |
| *Jan-96* | | | 4,300 | 22 | 200 | 120 | 82 | 63 | 32 | 200 | | 60 | - | - |
| *Mar-96* | | | 1,380 | 43 | 171 | 121 | 79 | 78 | 42 | - | | 75 | 42 | 52 |
| *May-96* | | | 1,700 | 41 | 150 | 70 | 68 | 69 | 38 | - | | 63 | 57 | - |
| *Jul-96* | | | 1,000 | 29 | 130 | 80 | 53 | 52 | 33 | - | | 55 | 48 | 25 |
| *Oct-96* | | | 1,200 | 30 | 99 | 120 | 57 | 65 | 52 | 100 | | 6.6 | 100 | - |
| *Jan-97* | | | 4,300 | 22 | 200 | 120 | 82 | 63 | 32 | 200 | | 60 | - | - |
| *Apr-97* | | | 4,100 | 19 | 100 | 61 | 53 | 54 | 38 | 18 | | 60 | 44 | 14 |
| *Jul-97* | | | 2,700 | 6.6 | 160 | 89 | 53 | 71 | 31 | 150 | | 63 | 45 | - |
| *Oct-97* | | | 2,500 | 20 | 29 | 90 | 52 | 68 | 30 | 32 | | 71 | 85 | - |

**TABLE 2**
**SUMMARY OF LEACHATE INDICATOR PARAMETERS**
**TOWN OF MOREAU LANDFILL**

| Sampling Date | Parameter | Monitoring Wells | | | | | | | | | Surface Water Locations | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | GW Standard [1] | EHC-1S | EHC-2S | MW-3 | MW-4 | MW-5 | MW-6S | PW-1 [2] | DUP [3] | Surface Water Standard [1] | S-1 | S-2 | S-3 |
| *Jan-98* | Chloride Cont'd | 250 | 4,700 | 22 | 170 | 87 | 65 | 35 | 22 | 4,700 | 250 | 58 | - | 32 |
| *Apr-98* | | | 1,969 | 12 | 187 | 66 | 49 | 54 | 24 | 4,265 | | 68 | 46 | - |
| *Aug-98* | | | 5,675 | 19 | 173 | - | 29 | - | 35 | 14 | | 69 | 50 | - |
| *Nov-98* | | | 5,142 | 20 | 193 | 86 | 55 | 46 | 36 | 21 | | 70 | 111 | - |
| *Feb-99* | | | 5,478 | 32 | 210 | 103 | 71 | 35 | 57 | 32 | | 106 | 26 | - |
| *Apr-99* | | | 4,461 | 36 | 231 | 59 | 43 | 47 | 57 | 4,479 | | 76 | 25 | 33 |
| *Jul-99* | | | 723 | 172 | 293 | 172 | 129 | 103 | 112 | 121 | | 121 | 158 | - |
| *Oct-99* | | | 4,470 | 241 | 284 | 172 | 121 | 103 | 112 | 241 | | 103 | 112 | - |
| *Jan-00* | | | 430 | 78 | 198 | 112 | 121 | 78 | 95 | 456 | | 121 | 129 | 129 |
| *May-00* | | | 4,143 | 103 | 224 | 133 | 146 | 86 | 86 | 82 | | 129 | 129 | - |
| *Aug-00* | | | 4,431 | 120 | 195 | 151 | 106 | 133 | 84 | 151 | | 124 | 133 | - |
| *Oct-00* | | | 3,128 | 18 | 151 | 89 | 71 | 62 | 266 | 3,111 | | 89 | 89 | - |
| *Feb-01* | | | 2,730 | 124 | 222 | 98 | 80 | 80 | 71 | 71 | | 74 | - | - |
| *May-01* | | | 9,217 | 36 | 241 | 96 | 64 | 43 | 53 | 103 | | 78 | 18 | 18 |
| *Sep-01* | | | 7,072 | 443 | 244 | 106 | 71 | 44 | 71 | 98 | | 89 | 89 | 47 |
| *Dec-01* | | | 6,868 | 53 | 257 | 102 | 102 | 80 | 359 | 115 | | 106 | 75 | 53 |
| *Mar-02* | | | 5,034 | 149 | 232 | 108 | 85 | 36 | - | 230 | | 78 | 7.1 | 23 |
| *Oct-02* | | | 6,365 | 217 | 235 | 124 | 115 | 62 | - | 71 | | 98 | 186 | 44 |
| *May-03* | | | 5,566 | 230 | 168 | 98 | 53 | 36 | - | 80 | | 106 | 27 | 31 |
| *Nov-03* | | | 8,065 | 14 | 135 | 74 | 66 | 32 | - | 71 | | 78 | 14 | 14 |
| *Apr-04* | | | 10,014 | 3.5 | 124 | 71 | 50 | 11 | - | 131 | | 113 | 7.1 | 11 |
| *Oct-04* | | | 12,408 | 44 | 124 | 62 | 62 | 27 | - | 71 | | 133 | 89 | 27 |
| *May-05* | | | 78 | 50 | 160 | 85 | 64 | 14 | - | 25 | | 74 | 39 | 53 |
| *Nov-05* | | | 12,000 | 680 | 120 | 110 | 83 | 120 | - | 99 | | 130 | 26 | 42 |
| *May-06* | | | 2,400 | 220 | 250 | 99 | 63 | 47 | - | 170 | | 120 | 52 | 42 |
| *Oct-06* | | | 1,100 | 210 | 240 | 180 | 130 | 120 | - | 160 | | 180 | 120 | 130 |
| *May-07* | | | 7,100 | 14 | 140 | 32 | 37 | 21 | - | 23 | | 81 | 14 | 13 |
| *Oct-07* | | | 6,200 | 67 | 150 | 110 | 87 | 47 | - | 93 | | 80 | 41 | 39 |
| *May-08* | | | 4,100 | 43 | 120 | 110 | 16 | 22 | - | 140 | | 95 | 15 | 19 |
| *Oct-08* | | | 3,500 | 43 | 120 | 72 | 53 | 34 | - | 71 | | 78 | 5.4 | 17 |
| *May-09* | | | 4,500 | 26 | 140 | 65 | 24 | 30 | - | 24 | | 80 | 16 | 22 |
| *Nov-09* | | | 2,900 | 42 | 150 | 72 | 59 | 10 | - | 10 | | 84 | 5 | 17 |

**TABLE 2**
**SUMMARY OF LEACHATE INDICATOR PARAMETERS**
**TOWN OF MOREAU LANDFILL**

| Sampling Date | Parameter | Monitoring Wells | | | | | | | | | Surface Water Locations | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | GW Standard [1] | EHC-1S | EHC-2S | MW-3 | MW-4 | MW-5 | MW-6S | PW-1 [2] | DUP [3] | Surface Water Standard [1] | S-1 | S-2 | S-3 |
| *Oct-92* | **Color** | **15** | 20 | <5.0 | >70 | 25 | 45 | <5.0 | <5.0 | >70 | **NS** | <5.0 | >70 | >70 |
| *Jul-96* | | | 20 | 10 | 600 | 25 | 150 | 50 | 5.0 | 20 | | 50 | 100 | 150 |
| *Jan-98* | | | 15 | 20 | 20 | 20 | 300 | 50 | 3.0 | 20 | | 20 | - | 500 |
| *Apr-99* | | | 20 | 20 | 500 | 40 | 150 | 150 | 10 | 20 | | 20 | 50 | 50 |
| *Dec-01* | | | 2.0 | 1.0 | 80 | 5.0 | 5.0 | 10 | <1.0 | 5.0 | | 2.0 | 10 | 20 |
| *Apr-04* | | | 25.0 | 45.0 | 50 | 50.0 | 25.0 | 15 | - | 45.0 | | - | - | - |
| *Oct-07* | | | 15 | 10 | 200 | 40 | 70 | 80 | - | 60.0 | | - | - | - |
| *Nov-09* | **Hardness** | **NS** | 168 | 80.8 | 592 | 158 | 150 | 256 | - | 253 | **NS** | 111 | 334 | 547 |
| *Jan-92* | **Nitrate** | **10** | 1.14 | 2.67 | 0.26 | 1.52 | 0.24 | 0.23 | 0.44 | 2.55 | **10** | 3.22 | 0.45 | 0.6 |
| *May-92* | | | 0.8 | 3.0 | <0.2 | 1.3 | <0.2 | <0.2 | <0.2 | 3.1 | | 2.6 | 2.6 | <0.2 |
| *Oct-92* | | | 1.29 | 3.67 | <0.2 | 1.4 | <0.2 | <0.2 | 0.26 | <0.2 | | 2.86 | <0.2 | 0.23 |
| *Jan-96* | | | 0.68 | 1.7 | 0.2 | 1.5 | <0.02 | 0.22 | 0.39 | 0.11 | | 3.3 | - | - |
| *Mar-96* | | | 0.6 | 3.0 | 0.3 | 3.9 | <0.2 | <0.2 | <0.2 | - | | 3.5 | <0.2 | <0.2 |
| *May-96* | | | 0.82 | 2.4 | 0.16 | 1.4 | 0.08 | <0.02 | 0.27 | - | | 3.1 | 0.025 | - |
| *Jul-96* | | | 0.78 | 2.1 | 0.32 | 1.5 | 0.2 | 0.022 | 0.27 | - | | 2.4 | <0.02 | 0.15 |
| *Oct-96* | | | 0.64 | 2.0 | 0.96 | 0.93 | <0.02 | <0.02 | 0.29 | 1.0 | | 1.8 | <0.02 | - |
| *Jan-97* | | | 0.68 | 1.7 | 0.2 | 1.5 | <0.02 | 0.22 | 0.39 | 0.11 | | 3.3 | - | - |
| *Apr-97* | | | 0.7 | 0.85 | 0.64 | 1.1 | <0.02 | <0.02 | 0.22 | 0.83 | | 1.5 | <0.02 | <0.02 |
| *Jul-97* | | | 1.0 | 0.47 | 2.6 | 2.0 | 0.06 | 0.3 | 0.32 | 0.54 | | 0.33 | 0.27 | - |
| *Oct-97* | | | 0.86 | 0.92 | 0.48 | 0.92 | 0.18 | <0.02 | 0.32 | 0.6 | | 2.6 | <0.02 | - |
| *Jan-98* | | | 0.59 | 2.3 | 0.09 | 1.2 | <0.02 | <0.02 | 0.32 | 0.8 | | 2.5 | - | 0.7 |
| *Apr-98* | | | 2.0 | 0.5 | 0.2 | 0.7 | <0.1 | 0.5 | 0.3 | 1.4 | | 2.5 | <0.1 | - |
| *Aug-98* | | | 0.9 | 0.6 | 0.5 | - | 0.4 | - | 0.3 | 0.5 | | 1.1 | <1.0 | - |
| *Nov-98* | | | <0.1 | 1.3 | <0.1 | 0.9 | <0.1 | <0.1 | 0.5 | 1.4 | | 2.5 | 0.2 | - |
| *Feb-99* | | | <0.1 | 4.5 | <0.1 | 0.9 | <0.1 | <0.1 | 0.7 | 3.4 | | 2.2 | 0.3 | - |
| *Apr-99* | | | 0.25 | <0.1 | <0.1 | <0.1 | 0.19 | <0.1 | <0.1 | 0.24 | | <0.1 | <0.1 | 0.3 |
| *Jul-99* | | | 2.4 | 2.2 | <0.1 | 2.6 | <0.1 | 0.3 | 0.5 | <0.1 | | 2.6 | 0.1 | - |
| *Oct-99* | | | 0.2 | 5.1 | <0.1 | 2.2 | 0.6 | 0.2 | 1.8 | 5.7 | | 3.9 | <1.0 | - |
| *Jan-00* | | | <0.1 | 4.8 | <0.1 | 1.8 | <0.1 | <0.1 | 0.9 | <0.1 | | 3.6 | <1.0 | 0.1 |
| *May-00* | | | 0.3 | 2.7 | <0.1 | 0.89 | 0.55 | 0.47 | 0.59 | 0.49 | | 2.18 | 0.25 | - |
| *Oct-00* | | | <0.1 | 1.0 | <0.1 | 1.1 | 0.1 | <0.1 | 0.2 | 0.1 | | 1.9 | 0.2 | - |

**TABLE 2**
**SUMMARY OF LEACHATE INDICATOR PARAMETERS**
**TOWN OF MOREAU LANDFILL**

| Sampling Date | Parameter | Monitoring Wells | | | | | | | | | Surface Water Locations | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | GW Standard [1] | EHC-1S | EHC-2S | MW-3 | MW-4 | MW-5 | MW-6S | PW-1 [2] | DUP [3] | Surface Water Standard [1] | S-1 | S-2 | S-3 |
| *Feb-01* | Nitrate Cont'd | 10 | 1.2 | 1.6 | <0.1 | 1.0 | <0.1 | 0.1 | <0.1 | <0.1 | 10 | 3.3 | - | - |
| *May-01* | | | 1.9 | 3.1 | 0.8 | 1.4 | <0.1 | 0.5 | 0.3 | 1.1 | | 2.8 | 1.4 | 1.4 |
| *Sep-01* | | | 1.58 | 0.79 | 0.4 | 1.43 | 0.32 | 0.17 | 0.32 | 1.05 | | 3.6 | 0.46 | 0.57 |
| *Dec-01* | | | 1.3 | 2.6 | 0.6 | 1.8 | 0.2 | 0.6 | 0.8 | 1.8 | | 3.4 | 1.0 | 0.7 |
| *Mar-02* | | | 1.2 | <0.1 | <0.1 | 1.6 | <0.1 | 0.1 | - | <0.1 | | 2.5 | <0.1 | 0.7 |
| *Oct-02* | | | 1.9 | 1.9 | 0.6 | 0.1 | <0.1 | 0.1 | - | <0.1 | | 3.3 | 0.5 | 0.5 |
| *May-03* | | | <1.0 | 1.9 | <1.0 | 0.5 | 0.4 | <0.1 | - | 0.4 | | 2.3 | <0.1 | <0.1 |
| *Nov-03* | | | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | | 4.7 | <0.1 | 0.8 |
| *Apr-04* | | | <0.1 | <0.1 | 0.43 | <0.1 | <0.1 | <0.1 | - | 0.58 | | <0.1 | <0.1 | <0.1 |
| *Oct-04* | | | 23 | <0.25 | <0.25 | <0.25 | <0.25 | <0.25 | - | <0.25 | | 2.1 | <0.25 | <0.25 |
| *May-05* | | | <0.25 | <0.25 | <0.25 | <0.25 | <0.25 | <0.25 | - | <0.25 | | 2.9 | 3.2 | 3.3 |
| *Nov-05* | | | 0.6 | 0.5 | <0.25 | 1.3 | <0.25 | <0.25 | - | <0.25 | | 1.6 | <0.25 | <0.25 |
| *May-06* | | | <0.25 | 1.3 | <0.25 | 1.1 | <0.25 | <0.25 | - | 0.3 | | 2.5 | <0.25 | <0.25 |
| *Oct-06* | | | 1.3 | 1.1 | <0.02 | 1.1 | 0.02 | <0.02 | - | 1.7 | | 2.1 | 0.03 | <0.02 |
| *May-07* | | | 1.5 | 1.5 | 0.29 | 0.91 | <0.05 | 0.07 | - | 0.05 | | 2.2 | 0.05 | 0.05 |
| *Oct-07* | | | 1.4 | 1.6 | 0.14 | 1.8 | 0.065 | 0.10 | - | 0.062 | | 2.4 | 2.8 | 0.059 |
| *May-08* | | | 1.5 | 2.6 | 0.67 | 1.6 | 0.07 | 0.06 | - | 0.74 | | 2.2 | 0.05 | 0.05 |
| *Oct-08* | | | 1.3 | 2.9 | 0.08 | 0.7 | 0.05 | 0.06 | - | 0.7 | | 1.7 | 0.06 | 0.17 |
| *May-09* | | | 1.4 | 3.4 | 0.34 | 0.66 | <0.05 | 0.05 | - | <0.05 | | 2.0 | 0.3 | 0.47 |
| *Nov-09* | | | 1.5 | 3.1 | 0.08 | 0.72 | 0.10 | 0.31 | - | 0.44 | | 2.4 | 0.07 | 0.09 |
| *Jan-92* | Phenols | 0.001 | 0.0035 | 0.0034 | 0.34 | 0.0044 | 0.0038 | 0.0034 | 0.0024 | <0.002 | 0.001 | 0.0028 | 0.2 | 0.0082 |
| *May-92* | | | 0.0024 | <0.002 | 0.02 | <0.002 | 0.02 | 0.00276 | 0.00385 | <0.002 | | <0.002 | 0.114 | 0.492 |
| *Oct-92* | | | 0.0046 | 0.0056 | 0.0168 | 0.0081 | 0.0069 | 0.0085 | 0.0111 | 0.0125 | | 0.0043 | 0.0311 | 0.0042 |
| *Jan-96* | | | <0.002 | <0.002 | 0.0029 | <0.002 | <0.002 | <0.002 | <0.002 | 0.0034 | | <0.002 | - | - |
| *Mar-96* | | | <0.002 | <0.002 | 0.0059 | <0.002 | <0.002 | <0.002 | <0.002 | - | | <0.002 | <0.002 | 0.0341 |
| *May-96* | | | <0.002 | <0.002 | 0.0059 | <0.002 | 0.0053 | 0.0056 | 0.0037 | - | | 0.004 | 0.0081 | - |
| *Jul-96* | | | <0.002 | <0.002 | 0.01 | <0.002 | <0.002 | <0.002 | <0.002 | - | | 0.0079 | 0.011 | 0.0092 |
| *Oct-96* | | | <0.002 | <0.002 | 0.0034 | <0.002 | 0.02 | <0.002 | 0.0034 | 0.0054 | | <0.002 | <0.002 | - |
| *Jan-97* | | | <0.002 | <0.002 | 0.0029 | <0.002 | <0.002 | <0.002 | <0.002 | 0.0034 | | <0.002 | - | - |
| *Apr-97* | | | <0.002 | <0.002 | 0.0047 | <0.002 | 0.0034 | <0.002 | <0.002 | <0.002 | | 0.028 | 0.012 | 0.0045 |
| *Jul-97* | | | <0.002 | <0.002 | 0.0071 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | | <0.002 | <0.002 | <0.002 |
| *Oct-97* | | | <0.002 | <0.002 | 0.0031 | <0.002 | 0.0049 | <0.002 | 0.002 | <0.002 | | <0.002 | <0.002 | - |
| *Jan-98* | | | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | 0.002 | <0.002 | <0.002 | | <0.002 | - | 0.013 |
| *Apr-98* | | | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | | <0.005 | 0.016 | - |

# TABLE 2
## SUMMARY OF LEACHATE INDICATOR PARAMETERS
## TOWN OF MOREAU LANDFILL

| Sampling Date | Parameter | Monitoring Wells | | | | | | | | | Surface Water Locations | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | GW Standard [1] | EHC-1S | EHC-2S | MW-3 | MW-4 | MW-5 | MW-6S | PW-1 [2] | DUP [3] | Surface Water Standard [1] | S-1 | S-2 | S-3 |
| *Aug-98* | **Phenols Cont'd** | **0.001** | <0.005 | <0.005 | 0.017 | - | <0.005 | - | <0.005 | <0.005 | **0.001** | 0.025 | 0.032 | - |
| *Oct-98* | | | <0.005 | <0.005 | 0.008 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | | <0.005 | <0.005 | - |
| *Feb-99* | | | <0.001 | <0.005 | 0.02 | <0.005 | 2.0 | 0.0053 | <0.005 | <0.005 | | 0.0083 | 0.0093 | - |
| *Apr-99* | | | <0.005 | 0.007 | 0.023 | 0.009 | 0.006 | 0.005 | 0.007 | <0.005 | | 0.008 | 0.018 | 0.019 |
| *Jul-99* | | | <0.005 | <0.005 | 0.016 | 0.014 | <0.005 | 0.014 | 0.0083 | <0.005 | | 0.0083 | 0.022 | - |
| *Oct-99* | | | <0.005 | <0.005 | 0.015 | 0.013 | 0.005 | 0.014 | 0.008 | <0.005 | | 0.008 | 0.016 | - |
| *Jan-00* | | | <0.005 | <0.005 | 0.01 | <0.005 | <0.005 | 0.006 | <0.005 | <0.005 | | <0.005 | 0.005 | <0.005 |
| *May-00* | | | <0.005 | <0.005 | 0.012 | <0.005 | 0.005 | 0.009 | <0.005 | 0.005 | | 0.01 | 0.012 | - |
| *Aug-00* | | | <0.005 | <0.005 | 0.0074 | 0.0068 | 0.0053 | 0.0083 | <0.005 | 0.0055 | | <0.005 | 0.011 | - |
| *Oct-00* | | | 0.0076 | 0.0076 | 0.0083 | 0.0083 | 0.006 | 0.0093 | 0.014 | 0.0083 | | 0.0051 | <0.005 | - |
| *Feb-01* | | | <0.0058 | <0.006 | 0.01 | 0.0074 | <0.0056 | 0.0077 | 0.0067 | <0.0067 | | 0.034 | - | - |
| *May-01* | | | 0.0063 | 0.0092 | 0.012 | 0.0051 | <0.005 | 0.0071 | 0.0074 | 0.0063 | | 0.012 | 0.012 | 0.014 |
| *Sep-01* | | | 0.0074 | 0.0094 | 0.014 | 0.0051 | 0.0067 | 0.0078 | 0.0067 | 0.0061 | | 0.011 | 0.011 | 0.013 |
| *Dec-01* | | | 0.012 | <0.005 | <0.005 | <0.005 | 0.0085 | <0.005 | 0.0053 | 0.0064 | | 0.01 | 0.017 | 0.022 |
| *Mar-02* | | | 0.013 | <0.005 | 0.016 | <0.005 | 0.007 | <0.005 | - | 0.0053 | | 0.01 | 0.017 | 0.02 |
| *Oct-02* | | | <0.005 | <0.005 | <0.005 | <0.005 | 0.01 | <0.005 | - | <0.005 | | <0.005 | <0.005 | <0.005 |
| *May-03* | | | 0.0083 | 0.0076 | <0.005 | <0.005 | 0.049 | <0.005 | - | <0.005 | | <0.005 | 0.0059 | 0.017 |
| *Nov-03* | | | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | - | <0.005 | | <0.005 | <0.005 | <0.005 |
| *Apr-04* | | | 0.0068 | <0.005 | 0.0073 | 0.019 | 0.0077 | <0.007 | - | 0.016 | | 0.02 | 0.0068 | <0.005 |
| *Oct-04* | | | 0.003 | 0.007 | 0.016 | 0.0053 | 0.0053 | 0.0072 | - | 0.0063 | | 0.007 | 0.019 | <0.0025 |
| *May-05* | | | 0.0087 | 0.004 | 0.013 | 0.003 | 0.0084 | 0.0082 | - | 0.0046 | | 0.020 | 0.0053 | 0.008 |
| *Nov-05* | | | 0.0077 | <0.0025 | 0.0082 | 0.0053 | 0.0060 | 0.0100 | - | 0.0040 | | 0.0200 | 0.0051 | 0.0200 |
| *May-06* | | | 0.0050 | 0.0060 | 0.0092 | 0.0030 | 0.0030 | 0.0080 | - | 0.0040 | | <0.0025 | 0.0030 | <0.0025 |
| *Oct-06* | | | <0.0025 | 0.0190 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | - | <0.0025 | | <0.0025 | <0.0025 | 0.0065 |
| *May-07* | | | <0.015 | <0.015 | 0.015 | <0.015 | <0.015 | <0.015 | - | <0.015 | | <0.015 | 0.047 | 0.104 |
| *Oct-07* | | | <0.005 | <0.005 | 0.114 | <0.005 | <0.005 | <0.005 | - | <0.005 | | <0.015 | <0.015 | <0.015 |
| *May-08* | | | <0.015 | <0.015 | <0.075 | <0.015 | <0.015 | <0.015 | - | <0.030 | | <0.015 | 0.090 | <0.075 |
| *Oct-08* | | | <0.015 | <0.015 | <0.030 | <0.030 | <0.015 | <0.030 | - | <0.030 | | <0.030 | <0.030 | 0.037 |
| *May-09* | | | <0.015 | <0.015 | <0.015 | <0.015 | <0.015 | <0.015 | - | <0.015 | | <0.015 | 0.018 | <0.015 |
| *Nov-09* | | | <0.015 | <0.015 | <0.015 | <0.015 | <0.015 | <0.015 | - | <0.015 | | <0.015 | <0.015 | 0.020 |
| *Jan-92* | **Sulfate** | **250** | 53.3 | 15.4 | 14.6 | 11.8 | 16.2 | 18.8 | 10.4 | 14 | **250** | 22.1 | 11.1 | 22.4 |
| *May-92* | | | 51.8 | 16.6 | 36.6 | 9.2 | 14.1 | 16.8 | 8.0 | 15.8 | | 19.9 | 10.9 | 7.2 |
| *Oct-92* | | | 49.4 | 13.9 | 17.8 | 12.9 | 10.9 | 16.4 | 8.9 | 16.5 | | 16.8 | 8.6 | 14.1 |
| *Jan-96* | | | 78 | 15 | <25 | 18 | 11 | <10 | 13 | <25 | | 20 | - | - |
| *Mar-96* | | | 49 | 20 | 25 | 18 | 18 | 28 | 14 | - | | 21 | 12 | 17 |

**TABLE 2**
**SUMMARY OF LEACHATE INDICATOR PARAMETERS**
**TOWN OF MOREAU LANDFILL**

| Sampling Date | Parameter | Monitoring Wells | | | | | | | | | Surface Water Locations | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | GW Standard [1] | EHC-1S | EHC-2S | MW-3 | MW-4 | MW-5 | MW-6S | PW-1[2] | DUP [3] | Surface Water Standard [1] | S-1 | S-2 | S-3 |
| *May-96* | **Sulfate Cont'd** | 250 | 54 | 18 | <5.0 | 9.9 | 7.1 | 7.0 | <5.0 | - | 250 | 11 | <5.0 | - |
| *Jul-96* | | | 46 | 10 | <5.0 | 16 | 10 | 23 | 9.3 | - | | 11 | 4.9 | <5.0 |
| *Oct-96* | | | 58 | 17 | <20 | 30 | <10 | 12 | 12 | 6.7 | | 32 | 44 | - |
| *Jan-97* | | | 78 | 15 | <25 | 18 | 11 | <10 | 13 | <25 | | 20 | - | - |
| *Apr-97* | | | 32 | 13 | 12 | 18 | 17 | 13 | 12 | 14 | | 45 | 8.5 | 7 |
| *Jul-97* | | | 54 | 9.4 | 9.5 | 20 | 17 | 17 | 13 | 7.8 | | 19 | 13 | - |
| *Oct-97* | | | 58 | 10 | 37 | 16 | 16 | 18 | 9.8 | <5 | | 18 | 9.5 | - |
| *Jan-98* | | | 94 | 16 | 6.5 | 17 | 13 | 16 | 11 | 88 | | 18 | - | 36 |
| *Apr-98* | | | 58 | 9.1 | <1.0 | 14 | 8.2 | 23 | 9.3 | 111 | | 13 | <1.0 | - |
| *Aug-98* | | | 169 | 11 | <1.0 | - | 16 | - | 13 | 12 | | 19 | 1.1 | - |
| *Nov-98* | | | 105 | 2.4 | 14 | 24 | 39 | 14 | 14 | 13 | | 21 | 13 | - |
| *Feb-99* | | | 97 | 15 | 38 | 17 | 18 | 39 | 13 | 15 | | 19 | 27 | - |
| *Apr-99* | | | 91 | 15 | 11 | 16 | 17 | 37 | 14 | 92 | | 19 | 25 | 25 |
| *Jul-99* | | | 20 | 14 | 42 | 15 | 15 | 36 | 14 | 16 | | 21 | 14 | - |
| *Oct-99* | | | 88 | 15 | 19 | 25 | 16 | 33 | 12 | 19 | | 34 | 5.9 | - |
| *Jan-00* | | | 116 | 14 | 13 | 16 | 16 | 36 | 11 | 118 | | 20 | 11 | 18 |
| *May-00* | | | 123 | 16 | 11 | 18 | 20 | 43 | 13 | 13 | | 24 | 11 | - |
| *Aug-00* | | | 71 | 14 | 10 | 17 | 18 | 30 | 9.0 | 17 | | 22 | 9.2 | - |
| *Oct-00* | | | 140 | 13 | 17 | 17 | 14 | 31 | 9.2 | 139 | | 20 | 14 | - |
| *Feb-01* | | | 97 | 17 | 105 | 20 | 22 | 3.9 | 8.6 | 4.1 | | 21 | - | - |
| *May-01* | | | 119 | 25 | 113 | 54 | 51 | 8.7 | 10 | 28 | | 23 | 24 | 22 |
| *Sep-01* | | | 334 | 73 | 171 | 121 | 53 | 79 | 53 | 57 | | 80 | 12 | 32 |
| *Dec-01* | | | 303 | 15 | 22 | 44 | 43 | 16 | 12 | 21 | | 52 | 22 | 28 |
| *Mar-02* | | | 95 | 11 | 4.1 | 2 | 5.7 | 15 | - | 2.3 | | 13 | 7.3 | 5.6 |
| *Oct-02* | | | 65 | 70 | 6.7 | 5.3 | 7.1 | 13 | - | 2.6 | | 10 | 7.8 | 7.6 |
| *May-03* | | | 173 | 8.5 | 12 | 22 | 11 | 7.9 | - | 18 | | 28 | <1.0 | 14 |
| *Nov-03* | | | 51 | 13 | 12 | 16 | 9 | 12 | - | 14 | | 19 | 11 | 8.8 |
| *Apr-04* | | | 319 | 10 | 10 | 21 | 27 | 37 | - | 13 | | 7.8 | 11 | 13 |
| *Oct-04* | | | 260 | 2 | 7 | 9.7 | 8.4 | 13 | - | 14 | | 11 | 4 | 1 |
| *May-05* | | | 9.6 | 10 | 11 | 12 | 14 | 35 | - | 31 | | 24 | 7.6 | 22 |

**TABLE 2**
**SUMMARY OF LEACHATE INDICATOR PARAMETERS**
**TOWN OF MOREAU LANDFILL**

| Sampling Date | Parameter | Monitoring Wells | | | | | | | | | Surface Water Locations | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | GW Standard [1] | EHC-1S | EHC-2S | MW-3 | MW-4 | MW-5 | MW-6S | PW-1 [2] | DUP [3] | Surface Water Standard [1] | S-1 | S-2 | S-3 |
| *Nov-05* | **Sulfate Cont'd** | **250** | 220 | 20 | 29 | 39 | 30 | 29 | - | 27 | **250** | 38 | 31 | 36 |
| *May-06* | | | 69 | 16 | 18 | 22 | 22 | 39 | - | 35 | | 32 | 17 | 30 |
| *Oct-06* | | | 120 | 14 | <1 | 7.3 | <1 | <1 | - | 5.6 | | 4 | <1 | <1 |
| *May-07* | | | 190 | 14 | <3.0 | 22 | 8.3 | 14 | - | 14 | | 20 | <3.0 | <3.0 |
| *Oct-07* | | | 140 | 9.2 | <3 | 20 | 3.9 | 9 | - | 3.9 | | 22 | 21 | <3 |
| *May-08* | | | 110 | 13 | 3.2 | 18 | 4.4 | 11 | - | 3.1 | | 18 | <3.0 | <3.0 |
| *Oct-08* | | | 96 | 11 | <3.0 | 16 | <3.0 | 8.1 | - | 16 | | 15 | <3.0 | <3.0 |
| *May-09* | | | 110 | 13 | <3.0 | 17 | 3.1 | 9.5 | - | 3.1 | | 16 | <3.0 | 6.6 |
| *Nov-09* | | | 76 | 12 | <3.0 | 15 | 3.2 | 7.0 | - | 7.1 | | 16 | <3.0 | 8.1 |
| *Jan-92* | **Total Organic Carbon (TOC)** | **NS** | <1.0 | 2.0 | <1.0 | <1.0 | <1.0 | 6.0 | <1.0 | <1.0 | **NS** | <1.0 | 34 | <1.0 |
| *May-92* | | | <1.0 | <1.0 | 20 | 6.0 | 18 | 8.0 | <1.0 | 2.0 | | <10 | 84 | 98 |
| *Oct-92* | | | <1.0 | <1.0 | 16 | <1.0 | 1.0 | <1.0 | <1.0 | 24 | | <1.0 | 70 | <1.0 |
| *Jan-96* | | | <1.0 | <1.0 | 62 | 5.8 | 10 | 15 | 1.4 | 60 | | 2.8 | - | - |
| *Mar-96* | | | <1.0 | <1.0 | 30 | <1.0 | <1.0 | <1.0 | <1.0 | - | | 7.0 | 5.0 | 160 |
| *May-96* | | | 2.0 | <1.0 | 9.6 | 22 | 38 | 48 | <1.0 | - | | 16 | 27 | - |
| *Jul-96* | | | <1.0 | <1.0 | 46 | 4.3 | 9.8 | 17 | <1.0 | - | | 36 | 5.8 | 48 |
| *Oct-96* | | | <1.0 | <1.0 | 23 | 5.0 | 14 | 16 | <1.0 | 33 | | 15 | 21 | - |
| *Jan-97* | | | <1.0 | <1.0 | 62 | 5.8 | 10 | 15 | 1.4 | 60 | | 2.8 | - | - |
| *Apr-97* | | | <1.0 | <1.0 | 37 | 2.6 | 10 | 13 | 1.5 | <1.0 | | 180 | 65 | 130 |
| *Jul-97* | | | <1.0 | 1.5 | 40 | 2.7 | 13 | 14 | 7.7 | 44 | | 12 | 36 | - |
| *Oct-97* | | | <1.0 | <1.0 | 24 | 5.3 | 11 | 12 | 2.0 | 38 | | 18 | 25 | - |
| *Jan-98* | | | 1.4 | 1.5 | 53 | 5.7 | 14 | 14 | 2.2 | 1.1 | | 5.9 | - | 39 |
| *Apr-98* | | | 1.9 | 1.0 | 67 | 7.0 | 15 | 20 | 2.7 | <1.0 | | 46 | 44 | - |
| *Aug-98* | | | 14 | <1.0 | 66 | - | 17 | - | 1.3 | <1.0 | | 93 | 29 | - |
| *Nov-98* | | | 1.5 | <1.0 | 51 | 11 | 16 | 19 | 2.1 | 3.0 | | 12 | 24 | - |
| *Feb-99* | | | 1.0 | 2.8 | 93 | 8.0 | 9.7 | 17 | 1.7 | 2.2 | | 23 | 50 | - |
| *Apr-99* | | | <2.0 | 11 | 76 | 7.3 | 8.4 | 17 | 1.9 | <2.0 | | 3.5 | 15 | 34 |
| *Jul-99* | | | 2.2 | 2.2 | 57 | 5.9 | 9.1 | 13 | 1.4 | 12 | | 2.1 | 4.1 | - |
| *Oct-99* | | | 2.7 | <1.0 | 51 | 6.6 | 6.6 | 11 | <1.0 | <1.0 | | 15 | 13 | - |
| *Jan-00* | | | 1.9 | <1.0 | 189 | 7.3 | 6.0 | 11 | 1.6 | <1.0 | | 1.1 | 11 | 4.6 |
| *May-00* | | | <1.0 | <1.0 | 36 | <1.0 | <1.0 | 5.4 | <1.0 | <1.0 | | 8.1 | 9.6 | - |
| *Aug-00* | | | 1.3 | <1.0 | 22 | 4.3 | 6.5 | 7.3 | <1.0 | 4.9 | | 1.2 | 11 | - |
| *Oct-00* | | | 2.2 | 1.2 | 37 | 5.1 | 6.6 | 12 | <1.0 | <1.0 | | 11 | 8.9 | - |
| *Feb-01* | | | <1.0 | <1.0 | 37 | 7.6 | 4.1 | 9.6 | <1.0 | 3.6 | | 1.9 | - | - |

**TABLE 2**
**SUMMARY OF LEACHATE INDICATOR PARAMETERS**
**TOWN OF MOREAU LANDFILL**

| Sampling Date | Parameter | Monitoring Wells | | | | | | | | | Surface Water Locations | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | GW Standard [1] | EHC-1S | EHC-2S | MW-3 | MW-4 | MW-5 | MW-6S | PW-1[2] | DUP [3] | Surface Water Standard [1] | S-1 | S-2 | S-3 |
| *May-01* | **Total Organic** | **NS** | 1.0 | <1.0 | 60 | 6.3 | 4.2 | 7.7 | <1.0 | 5.8 | **NS** | 1.8 | 19 | 9.2 |
| *Sep-01* | **Carbon (TOC)** | | <1.0 | <1.0 | <1.0 | 9.1 | <1.0 | <1.0 | <1.0 | 5.0 | | <1.0 | 40 | 8.7 |
| *Dec-01* | **Cont'd** | | <1.0 | <1.0 | 37 | 2.9 | 2.8 | 9.8 | <1.0 | 3.5 | | <1.0 | 22 | 12 |
| *Mar-02* | | | 1.4 | 22 | <1.0 | 2.9 | 4.9 | <1.0 | - | 41 | | <1.0 | 17 | <1.0 |
| *Oct-02* | | | 2.1 | <1.0 | 70 | 8.0 | 1.1 | 5.7 | - | 9.7 | | <1.0 | 12 | 9.6 |
| *May-03* | | | <1.0 | <1.0 | 36 | 4.5 | 1.7 | 8.7 | - | <1.0 | | <1.0 | 16 | 8.9 |
| *Nov-03* | | | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | - | <1.0 | | <1.0 | 11 | 8.3 |
| *Apr-04* | | | <10 | <10 | 63 | <10 | 4.2 | 6.8 | - | 65 | | 8.9 | 4.4 | 17 |
| *Oct-04* | | | 1 | 1 | 7 | 2.0 | <1 | 2 | - | 5.9 | | <1 | 24 | 69 |
| *May-05* | | | 10 | <1 | 38 | 34 | 7.1 | 7.6 | - | 12 | | 8 | 50 | 120 |
| *Nov-05* | | | 3.9 | <1 | 19 | 5 | <1 | 3.5 | - | <1 | | 2.4 | 37 | 46 |
| *May-06* | | | 14 | 8.7 | 29 | 9.7 | 2 | 15 | - | 32 | | 4 | 35 | 120 |
| *Oct-06* | | | 4.6 | <1 | 14 | 2.5 | 7.1 | 2 | - | 10 | | 4 | 23 | 69 |
| *May-07* | | | 5.0 | 1.9 | 160 | 2.6 | 9.2 | 8.4 | - | 6.5 | | 3.5 | 34 | 23 |
| *Oct-07* | | | 3.7 | 1.9 | 42 | 4.9 | 13 | 7.4 | - | 6.6 | | 2.7 | 37 | 34 |
| *May-08* | | | 2.8 | 1.2 | 34 | 4.3 | 3.5 | 6.9 | - | 30 | | 2.4 | 70 | 51 |
| *Oct-08* | | | 2.0 | <1.0 | 32 | 3.4 | 4.2 | 6.2 | - | 3.4 | | 2 | 11 | 16 |
| *May-09* | | | 3.0 | 1.0 | 32 | 3.8 | 3.4 | 5.4 | - | 3.3 | | 1.4 | 58 | 26 |
| *Nov-09* | | | 2.6 | 3.5 | 33 | 4.2 | 3.8 | 5.3 | - | 5.2 | | 1.6 | 16 | 62 |
| *Jan-92* | **Total Dissolved** | **500** | 4,160 | 192 | 1,670 | 450 | 716 | 496 | 204 | 192 | **500** | 260 | 1,640 | 276 |
| *May-92* | **Solids (TDS)** | | 3,600 | 236 | 1,220 | 364 | 820 | 500 | 160 | 276 | | 239 | 696 | 316 |
| *Oct-92* | | | 4,940 | 164 | 2,040 | 232 | 700 | 364 | 136 | 2,060 | | 24 | 1,360 | 328 |
| *Jan-96* | | | 7,300 | 180 | 1,500 | 510 | 470 | 520 | 170 | 1,600 | | 260 | - | - |
| *Mar-96* | | | 2,480 | 186 | 1,410 | 616 | 460 | 574 | 174 | - | | 342 | 296 | 1240 |
| *May-96* | | | 2,600 | 250 | 1,300 | 340 | 450 | 540 | 250 | - | | 300 | 480 | - |
| *Jul-96* | | | 2,700 | 200 | 1,200 | 430 | 530 | 180 | 160 | - | | 1,300 | 470 | 780 |
| *Oct-96* | | | 2,700 | 210 | 770 | 550 | 370 | 570 | 190 | 770 | | 310 | 510 | - |
| *Jan-97* | | | 7,300 | 180 | 1,500 | 510 | 470 | 520 | 170 | 1,600 | | 260 | - | - |
| *Apr-97* | | | 7,400 | 270 | 860 | 320 | 450 | 490 | 270 | 150 | | 750 | 690 | 890 |
| *Jul-97* | | | 5,500 | 270 | 1,300 | 420 | 500 | 580 | 250 | 1,200 | | 310 | 530 | - |
| *Oct-97* | | | 5,000 | 230 | 1,100 | 470 | 400 | 550 | 180 | 1,200 | | 330 | 470 | - |
| *Jan-98* | | | 7,100 | 140 | 1,200 | 370 | 460 | 460 | 150 | 7,900 | | 230 | - | 320 |
| *Apr-98* | | | 3,216 | 88 | 1,383 | 306 | 382 | 537 | 135 | 7,687 | | 302 | 533 | - |
| *Aug-98* | | | 9,181 | 123 | 1,255 | 0 | 292 | - | 143 | 75 | | 606 | 336 | - |

# TABLE 2
## SUMMARY OF LEACHATE INDICATOR PARAMETERS
## TOWN OF MOREAU LANDFILL

| Sampling Date | Parameter | Monitoring Wells | | | | | | | | | Surface Water Locations | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | GW Standard [1] | EHC-1S | EHC-2S | MW-3 | MW-4 | MW-5 | MW-6S | PW-1[2] | DUP [3] | Surface Water Standard [1] | S-1 | S-2 | S-3 |
| *Nov-98* | **Total Dissolved** | **500** | 9,347 | 91 | 1,308 | 362 | 411 | 633 | 128 | 89 | **500** | 225 | 424 | - |
| *Feb-99* | **Solids (TDS)** | | 8,196 | 106 | 1,523 | 321 | 305 | 354 | 107 | 90 | | 213 | 396 | - |
| *Apr-99* | **Cont'd** | | 7,757 | 177 | 1,609 | 321 | 337 | 471 | 166 | 7,475 | | 265 | 263 | 507 |
| *Jul-99* | | | 7,989 | 167 | 1,554 | 366 | 362 | 385 | 194 | 335 | | 269 | 373 | - |
| *Oct-99* | | | 7,257 | 215 | 1,551 | 383 | 350 | 556 | 8 | 212 | | 300 | 402 | - |
| *Jan-00* | | | 6,655 | 188 | 1,198 | 240 | 274 | 358 | 131 | 7,076 | | 193 | 310 | 164 |
| *May-00* | | | 6,678 | 218 | 1,597 | 301 | 225 | 481 | 231 | 227 | | 299 | 321 | - |
| *Oct-00* | | | 6,777 | 125 | 1,345 | 319 | 374 | 880 | 440 | 5,294 | | 273 | 294 | - |
| *Feb-01* | | | 5,431 | 142 | 1,753 | 369 | 333 | 477 | 224 | 332 | | 342 | - | - |
| *May-01* | | | 9,229 | 153 | 2,003 | 442 | 346 | 462 | 277 | 434 | | 246 | 331 | 457 |
| *Sep-01* | | | 11,669 | 260 | 1,467 | 309 | 102 | 394 | 102 | 282 | | 275 | 369 | 465 |
| *Dec-01* | | | 9,563 | 169 | 1,563 | 318 | 320 | 657 | 416 | 316 | | 288 | 543 | 526 |
| *Mar-02* | | | 10,756 | 349 | 1,532 | 510 | 316 | 393 | - | 1,574 | | 260 | 328 | 415 |
| *Oct-02* | | | 10,958 | 330 | 1,271 | 517 | 336 | 477 | - | 506 | | 285 | 424 | 522 |
| *May-03* | | | 9,052 | 628 | 812 | 234 | 236 | 348 | - | 192 | | 238 | 280 | 342 |
| *Nov-03* | | | 10,332 | 304 | 866 | 503 | 253 | 338 | - | 459 | | 210 | 316 | 430 |
| *Apr-04* | | | 14,610 | 350 | 824 | 312 | 128 | 196 | - | 812 | | 318 | 152 | 446 |
| *Oct-04* | | | 5,600 | 95 | 790 | 380 | 250 | 400 | - | 420 | | 1,300 | 560 | 450 |
| *May-05* | | | 200 | 97 | 870 | 330 | 220 | 320 | - | 320 | | 250 | 380 | 340 |
| *Nov-05* | | | 13,000 | 990 | 830 | 240 | 280 | 360 | - | 270 | | 200 | 430 | 440 |
| *May-06* | | | 13,000 | 490 | 900 | 300 | 170 | 260 | - | 950 | | 240 | 310 | 450 |
| *Oct-06* | | | 10,000 | 470 | 1,100 | 300 | 300 | 280 | - | 330 | | 290 | 320 | 450 |
| *May-07* | | | 12,000 | 110 | 960 | 150 | 250 | 270 | - | 250 | | 270 | 250 | 410 |
| *Oct-07* | | | 10,100 | 111 | 414 | 873 | 305 | 335 | - | 296 | | 250 | 418 | 459 |
| *May-08* | | | 5,600 | 160 | 900 | 380 | 170 | 250 | - | 890 | | 260 | 300 | 500 |
| *Oct-08* | | | 6,100 | 180 | 970 | 320 | 260 | 330 | - | 320 | | 250 | 240 | 380 |
| *May-09* | | | 7,400 | 150 | 990 | 280 | 190 | 290 | - | 190 | | 250 | 210 | 340 |
| *Nov-09* | | | 4,900 | 170 | 850 | 300 | 260 | 330 | - | 330 | | 250 | 330 | 400 |
| *Oct-92* | **Total Kjeldahl** | **NS** | <1.0 | <1.0 | 45.6 | 2.0 | 4.3 | 4.8 | <1.0 | 44.9 | **NS** | <1.0 | 9.2 | 7.2 |
| *Jul-96* | **Nitrogen (TKN)** | | 0.7 | 0.68 | 33 | 4.2 | 2.1 | 8.3 | 0.89 | 1.8 | | 1.9 | 0.4 | 0.9 |
| *Jan-98* | | | 0.45 | 0.28 | 36 | 1.7 | 1.6 | 6.3 | 0.2 | 0.42 | | 0.38 | - | 76 |
| *Apr-99* | | | <1.0 | 1.1 | 38 | 7.6 | 1.4 | 7.8 | 1.1 | <1.0 | | 1.1 | 1.1 | 19 |
| *Aug-00* | | | 1.7 | 1.1 | 35 | 19 | 9.5 | 2.2 | 1.1 | 17 | | 1.9 | <1.0 | - |
| *Dec-01* | | | 3.1 | 28 | 51 | 6.2 | 3.1 | 13 | 2.5 | 8.7 | | 8.26 | 3.1 | 6.2 |

**TABLE 2**
**SUMMARY OF LEACHATE INDICATOR PARAMETERS**
**TOWN OF MOREAU LANDFILL**

| Sampling Date | Parameter | Monitoring Wells | | | | | | | | | Surface Water Locations | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | GW Standard [1] | EHC-1S | EHC-2S | MW-3 | MW-4 | MW-5 | MW-6S | PW-1 [2] | DUP [3] | Surface Water Standard [1] | S-1 | S-2 | S-3 |
| *Jan-92* | Total Kjeldahl | NS | 630 | 93 | 1000 | 256 | 415 | 291 | 149 | 87 | NS | 107 | 1080 | 181 |
| *May-92* | Nitrogen (TKN) | | 397 | 86.3 | 967 | 411 | 533 | 214 | 111 | 80.6 | | 109 | 869 | 2200 |
| *Oct-92* | Cont'd | | 519 | 49.2 | 964 | 164 | 425 | 176 | 104 | 984 | | 118 | 830 | 163 |
| *Jan-96* | | | 350 | 43 | 770 | 230 | 250 | 270 | 90 | 750 | | 100 | - | - |
| *Mar-96* | | | 274 | 82.7 | 840 | 374 | 313 | 362 | 107 | - | | 123 | 236 | 965 |
| *May-96* | | | 310 | 120 | 770 | 250 | 260 | 490 | 150 | - | | 170 | 330 | - |
| *Jul-96* | | | 240 | 46 | 600 | 180 | 20 | 310 | 100 | - | | 160 | 210 | 490 |
| *Oct-96* | | | 220 | 53 | 400 | 260 | 140 | 290 | 92 | 400 | | 120 | 270 | - |
| *Jan-97* | | | 350 | 43 | 770 | 230 | 250 | 270 | 90 | 750 | | 100 | - | - |
| *Apr-97* | | | 630 | 34 | 500 | 140 | 270 | 230 | 110 | 37 | | 290 | 400 | 630 |
| *Jul-97* | | | 580 | 21 | 730 | 130 | 310 | 300 | 84 | 790 | | 110 | 260 | - |
| *Oct-97* | | | 550 | 33 | 550 | 190 | 280 | 270 | 74 | 580 | | 120 | 250 | - |
| *Jan-98* | | | 620 | 58 | 680 | 180 | 260 | 300 | 79 | 610 | | 100 | - | 570 |
| *Apr-98* | | | 953 | 49 | 187 | 249 | 365 | 458 | 120 | 1,079 | | 213 | 572 | - |
| *Aug-98* | | | 704 | 47 | 753 | - | 213 | - | 86 | 40 | | 313 | 223 | - |
| *Nov-98* | | | 499 | 41 | 751 | 222 | 271 | 412 | 83 | 41 | | 113 | 503 | - |
| *Feb-99* | | | 624 | 71 | 830 | 192 | 223 | 288 | 83 | 72 | | 124 | 553 | - |
| *Apr-99* | | | 603 | 72 | 1,031 | 145 | 210 | 301 | 100 | 610 | | 126 | 196 | 576 |
| *Jul-99* | | | 471 | 55 | 900 | 170 | 199 | 273 | 104 | 199 | | 112 | 232 | - |
| *Oct-99* | | | 346 | 77 | 861 | 181 | 202 | 297 | 121 | 72 | | 146 | 257 | - |
| *Jan-00* | | | 267 | 81 | 888 | 116 | 184 | 252 | 94 | 292 | | 110 | 272 | 69 |
| *May-00* | | | 264 | 66 | 823 | 146 | 128 | 309 | 100 | 100 | | 147 | 251 | - |
| *Aug-00* | | | 434 | 35 | 714 | 253 | 199 | 247 | 101 | 193 | | 114 | 236 | - |
| *Oct-00* | | | 479 | 30 | 525 | 124 | 197 | 282 | 114 | 492 | | 121 | 154 | - |
| *Feb-01* | | | 1,413 | 49 | 930 | 181 | 186 | 316 | 102 | 196 | | 110 | - | - |
| *May-01* | | | 630 | 71 | 927 | 251 | 327 | 327 | 88 | 227 | | 121 | 312 | 404 |
| *Sep-01* | | | 754 | 38 | 816 | 162 | 155 | 281 | 155 | 130 | | 150 | 274 | 336 |
| *Dec-01* | | | 581 | 66 | 763 | 131 | 184 | 384 | 76 | 126 | | 99 | 327 | 426 |
| *Mar-02* | | | 392 | 31 | 733 | 250 | 185 | 274 | - | 661 | | 121 | 260 | 335 |
| *Apr-04* | | | <1.0 | <1.0 | <1.0 | 5 | <1.0 | <1.0 | - | 15 | | <1.0 | <1.0 | <1.0 |
| *Oct-07* | | | 0.43 | 0.16 | 30 | 2.3 | 0.78 | 4.9 | - | 0.57 | | - | - | - |

**TABLE 2**
**SUMMARY OF LEACHATE INDICATOR PARAMETERS**
**TOWN OF MOREAU LANDFILL**

| Sampling Date | Parameter | Monitoring Wells | | | | | | | | | Surface Water Locations | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | GW Standard [1] | EHC-1S | EHC-2S | MW-3 | MW-4 | MW-5 | MW-6S | PW-1[2] | DUP [3] | Surface Water Standard [1] | S-1 | S-2 | S-3 |
| *Jan-92* | **Turbidity** | **5.0** | 6.0 | 1.5 | 19 | 7.0 | 9.0 | 20 | - | 1.5 | **5.0** | 0.6 | 53 | 84 |
| *May-92* | **(Lab Measured)** | | 46.8 | 5.9 | 82.5 | 8.5 | 15.9 | 17.3 | 1.3 | 82.5 | | 2.7 | 6.1 | 1343 |
| *Feb-01* | | | 39 | 12 | 201 | 5.7 | 23 | 49 | 3.5 | 31 | | 2.5 | - | - |
| *May-01* | | | 36 | 15 | 45 | 3.7 | 11 | 5.6 | 2.0 | 3.4 | | 5.5 | 28 | 5.2 |
| *Sep-01* | | | 4.0 | 3.7 | 211 | 16 | 6.0 | 50 | 6.0 | 16 | | 1.81 | 23 | 8.5 |
| *Dec-01* | | | 12 | 2.7 | 187 | 2.7 | 2.9 | 27 | 0.5 | 4.1 | | 2.9 | 12 | 8.4 |
| *Mar-02* | | | 3.3 | 0.9 | 141 | 13 | 5.9 | 4.78 | - | 133 | | 1.76 | 5.91 | 0.88 |
| *Oct-02* | | | 375 | 18 | 391 | 32 | 65 | 44 | - | 34 | | 1.6 | 50 | 13 |
| *May-03* | | | 185 | 8.3 | 162 | 13 | 10 | 42 | - | 7.6 | | 1.7 | 53 | 6.4 |
| *Nov-03* | | | 2.6 | 12 | 328 | 63 | 4.8 | 19 | - | 51 | | 2.8 | 46 | 80 |
| *Apr-04* | | | 53 | 4.5 | 1,000 | 53 | 103 | 113 | - | 929 | | >1,000 | 18 | 193 |
| *Oct-07* | | | 61.5 | 5.83 | 509 | 41.9 | 89.4 | 173 | - | 93.9 | | 3.81 | 699 | 1780 |
| *May-08* | | | 91 | 5.54 | 620 | 40 | 110 | 150 | - | 420 | | 2.27 | 600 | 5200 |
| *Oct-08* | | | 156 | 6.17 | 466 | 23.5 | 34.3 | 189 | - | 8.83 | | | | |
| *May-09* | | | 23.3 | 13.9 | 618 | 13.9 | 131 | 216 | - | 132 | | 3.21 | 254 | 414 |
| *Nov-09* | | | 10.6 | 3.22 | 430 | 9.57 | 23.5 | 27.3 | - | 24.2 | | 2.69 | 4.11 | 8.69 |

Notes:

All results in mg/l.

The 1992 and 1996 through 2000 results were provided by the Town of Moreau.

[1] 6NYCRR Part 703 Surface Water and Groundwater Quality Standards and Groundwater Effluent Standards; and TOGS 1.1.1 Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, October 22, 1993, Re-issued June 1998 and Addenda dated April 2000 and June 2004.

[2] Public water supply groundwater production well. For 1992 results, identified as PW-2+3.

[3] Duplicates taken as follows: 5/96, 7/96, 1/98, 4/98, 4/99, 4/00 and 10/00 at EHC-1S; 1/92, 5/92, 4/97, 8/98, 11/98, 1/99, 1/00, 8/00 and 11/00 at EHC-2S; 10/92, 3/96, 10/96, 1/97, 7/97, 3/02, 4/04, 5/06 and 5/08 at MW-3; 5/01, 9/01, 12/01, 11/03, 10/04, 10/06 and 10/08 at MW-4; 10/98, 2/99, 7/99, 10/99, 2/01, 5/03, 11/05, 10/07 and 5/09 at MW-5; 10/02, 5/05, 5/07 and 11/09 at MW-6S; and unknown location for 10/97.

# TABLE 3
## SUMMARY OF INORGANIC PARAMETERS
## TOWN OF MOREAU LANDFILL

| Sampling Date | Parameter | Monitoring Wells | | | | | | | | | Surface Water Locations | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | GW Standard (1) | EHC-1S (4) | EHC-2S | MW-3(4) | MW-4 | MW-5 | MW-6S | PW-1(2) | DUP (3) | Surface Water Standard (1) | S-1 | S-2 | S-3 |
| *Oct-92* | **Aluminum** | NS | 1.64 | 0.554 | 0.657 | <0.2 | <0.2 | <0.2 | <0.2 | 0.507 | **0.1** | <0.2 | <0.2 | 1.3 |
| *Jul-96* | | | 2.6 | 0.64 | <0.1 | 0.81 | <0.1 | <0.1 | <0.1 | <0.1 | | - | 0.31 | 1.5 |
| *Jan-98* | | | 2.4 | 1.0 | <0.1 | <0.1 | <0.1 | <0.1 | 0.17 | 3.0 | | <0.1 | - | 110 |
| *Apr-99* | | | 5.38 | 1.008 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | 5.047 | | <0.2 | <0.2 | 15.6 |
| *Aug-00* | | | 3.81 | 3.95 | 0.377 | 0.549 | 0.258 | 0.231 | 0.667 | <0.2 | | 0.225 | 0.433 | - |
| *Dec-01* | | | 7.14 (0.21) | 0.64 | 0.25 | 0.43 | 0.56 | 0.23 | 0.23 | 0.2 | | 0.28 | 0.58 | 3.38 |
| *Apr-04* | | | 2.9 | <0.2 | 0.23 | <0.2 | 0.37 | <0.2 | - | <0.2 | | - | - | - |
| *Oct-07* | | | 2.18 | 0.323 | 0.129 | 0.077 | 1.46 | 0.057 | - | 1.2 | | - | - | - |
| *Oct-92* | **Antimony** | **0.003** | <0.06 | <0.06 | <0.06 | <0.06 | <0.06 | <0.06 | <0.06 | <0.06 | **0.003** | <0.06 | <0.06 | <0.06 |
| *Jul-96* | | | <0.06 | <0.06 | 0.085 | <0.06 | <0.06 | <0.06 | 0.067 | <0.06 | | 0.35 | 0.08 | 0.076 |
| *Jan-98* | | | <0.06 | <0.06 | <0.06 | <0.06 | <0.06 | <0.06 | <0.06 | <0.06 | | <0.06 | - | <0.06 |
| *Apr-99* | | | 0.007 | <0.003 | <0.003 | <0.003 | <0.003 | 0.0043 | 0.0034 | 0.006 | | <0.003 | <0.003 | 0.0048 |
| *Aug-00* | | | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | | <0.003 | <0.003 | - |
| *Dec-01* | | | <0.003 (<0.003) | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | | <0.003 | <0.003 | <0.003 |
| *Apr-04* | | | <0.003 | <0.003 | <0.003 | <0.003 | 0.0071 | <0.003 | - | <0.003 | | - | - | - |
| *Oct-07* | | | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | - | <0.005 | | - | - | - |
| *Oct-92* | **Arsenic** | **0.025** | <0.01 | <0.01 | <0.01 | <0.01 | 0.015 | <0.01 | <0.01 | <0.01 | **0.05** | <0.01 | <0.01 | <0.01 |
| *Jul-96* | | | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | | 0.17 | <0.01 | <0.01 |
| *Jan-98* | | | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | | <0.01 | - | 0.18 |
| *Apr-99* | | | 0.0025 | <0.001 | <0.001 | 0.001 | 0.0054 | <0.001 | <0.001 | 0.0021 | | <0.001 | <0.001 | <0.0025 |
| *Aug-00* | | | 0.0014 | 0.0022 | 0.0025 | 0.0039 | 0.0084 | 0.0021 | <0.001 | <0.005 | | 0.001 | 0.0015 | - |
| *Dec-01* | | | <0.001 (<0.001) | <0.001 | <0.001 | <0.001 | 0.013 | <0.001 | <0.001 | <0.001 | | <0.001 | <0.001 | <0.001 |
| *Apr-04* | | | 0.0034 | 0.0012 | 0.0026 | 0.0083 | 0.014 | 0.0017 | - | 0.0017 | | - | - | - |
| *Oct-07* | | | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | - | <0.004 | | - | - | - |
| *Oct-92* | **Barium** | **1.0** | 0.249 | <0.2 | 0.428 | <0.2 | <0.2 | <0.2 | <0.2 | 0.449 | **1.0** | <0.2 | <0.2 | <0.2 |
| *Jul-96* | | | <0.2 | <0.2 | 0.24 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | | <0.2 | <0.2 | <0.2 |
| *Jan-98* | | | 0.45 | <0.2 | 0.28 | <0.2 | <0.2 | <0.2 | <0.2 | 0.42 | | <0.2 | - | 0.89 |
| *Apr-99* | | | 1.307 | <0.2 | 1.56 | 0.232 | <0.2 | 0.344 | <0.2 | 1.519 | | <0.2 | 0.254 | 0.74 |
| *Aug-00* | | | 0.748 | <0.2 | 1.14 | 0.175 | <0.2 | <0.2 | <0.2 | <0.2 | | <0.2 | <0.2 | - |
| *Dec-01* | | | <0.2 (0.4) | <0.2 | 0.4 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | | <0.2 | <0.2 | <0.2 |
| *Apr-04* | | | 1.1 | <0.2 | 0.7 | <0.2 | <0.2 | <0.2 | - | 0.4 | | - | - | - |
| *Oct-07* | | | 0.158 | 0.005 | 0.249 | 0.024 | 0.016 | 0.019 | - | 0.016 | | - | - | - |

# TABLE 3
## SUMMARY OF INORGANIC PARAMETERS
## TOWN OF MOREAU LANDFILL

| Sampling Date | Parameter | Monitoring Wells | | | | | | | | | Surface Water Locations | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | GW Standard (1) | EHC-1S (4) | EHC-2S | MW-3(4) | MW-4 | MW-5 | MW-6S | PW-1(2) | DUP (3) | Surface Water Standard (1) | S-1 | S-2 | S-3 |
| *Oct-92* | **Beryllium** | **0.003*** | <0.005 | <0.005 | 0.006 | <0.005 | 0.006 | <0.005 | <0.005 | <0.005 | **0.003*** | <0.005 | <0.005 | <0.005 |
| *Jul-96* | | | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | | <0.01 | <0.01 | <0.01 |
| *Jan-98* | | | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | | <0.01 | - | <0.01 |
| *Apr-99* | | | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | | <0.0005 | <0.0005 | <0.0005 |
| *Aug-00* | | | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | | <0.0005 | <0.0005 | - |
| *Dec-01* | | | <0.0005 (<0.0005) | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | | <0.005 | <0.0005 | <0.0005 |
| *Apr-04* | | | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | - | <0.0005 | | - | - | - |
| *Oct-07* | | | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | - | <0.001 | | - | - | - |
| *Jan-92* | **Cadmium** | **0.005** | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | **0.005** | <0.005 | <0.005 | <0.005 |
| *May-92* | | | <0.005 | <0.005 | <0.005 | <0.005 | 0.005 | <0.005 | <0.005 | <0.005 | | <0.005 | <0.005 | 0.046 |
| *Oct-92* | | | <0.005 | <0.005 | 0.009 | <0.005 | 0.008 | <0.005 | <0.005 | <0.005 | | <0.005 | <0.005 | <0.005 |
| *Jan-96* | | | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | | <0.01 | - | - |
| *Mar-96* | | | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | - | | <0.005 | <0.005 | <0.005 |
| *May-96* | | | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | - | | <0.01 | <0.01 | - |
| *Jul-96* | | | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | | <0.01 | <0.01 | <0.01 |
| *Oct-96* | | | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | | <0.01 | <0.01 | - |
| *Jan-97* | | | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | | <0.01 | - | - |
| *Apr-97* | | | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | | <0.01 | <0.01 | <0.01 |
| *Jul-97* | | | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | | <0.01 | <0.01 | <0.01 |
| *Oct-97* | | | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | | <0.01 | <0.01 | - |
| *Jan-98* | | | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | | <0.01 | - | 0.02 |
| *Apr-98* | | | 0.0006 | - | <0.0005 | <0.0005 | - | - | <0.0005 | 0.0009 | | <0.0005 | - | - |
| *Aug-98* | | | 0.0009 | 0.0005 | 0.003 | - | 0.0022 | - | <0.0005 | 0.0005 | | <0.0005 | <0.0005 | |
| *Nov-98* | | | 0.0006 | <0.0005 | 0.0006 | 0.0006 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | | <0.0005 | <0.0005 | - |
| *Jul-99* | | | 0.0012 | <0.0005 | 0.0009 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | | <0.0005 | 0.0008 | - |
| *Feb-99* | | | 0.0009 | 0.0006 | <0.0005 | - | <0.0005 | <0.0005 | <0.0005 | 0.0006 | | <0.0005 | - | - |
| *Apr-99* | | | 0.0007 | <0.0005 | 0.0024 | <0.0005 | 0.0007 | 0.0005 | <0.0005 | 0.0011 | | <0.0005 | <0.0005 | 0.0016 |
| *Jul-99* | | | 0.0012 | <0.0005 | 0.0009 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | | <0.0005 | 0.0008 | - |
| *Oct-99* | | | 0.0012 | 0.0019 | 0.001 | 0.0018 | 0.0007 | <0.0005 | 0.0005 | 0.0007 | | <0.0005 | <0.0005 | - |
| *Jan-00* | | | 0.0021 | 0.0006 | 0.0009 | 0.0049 | 0.0006 | 0.0033 | <0.0005 | 0.0018 | | 0.0014 | <0.0005 | - |
| *May-00* | | | 0.00099 | <0.0005 | <0.0005 | 0.00176 | 0.00067 | 0.00053 | <0.0005 | <0.0005 | | <0.0005 | 0.00062 | - |
| *Aug-00* | | | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 0.0007 | <0.0005 | <0.0005 | | <0.0005 | <0.0005 | - |
| *Oct-00* | | | 0.0006 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 0.0008 | | <0.0005 | <0.0005 | - |

# TABLE 3
## SUMMARY OF INORGANIC PARAMETERS
## TOWN OF MOREAU LANDFILL

| Sampling Date | Parameter | Monitoring Wells | | | | | | | | | Surface Water Locations | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | GW Standard (1) | EHC-1S (4) | EHC-2S | MW-3(4) | MW-4 | MW-5 | MW-6S | PW-1(2) | DUP (3) | Surface Water Standard (1) | S-1 | S-2 | S-3 |
| *Feb-01* | Cadmium | 0.005 | 0.0025 | 0.0092 | 0.0005 | 0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 0.005 | <0.0005 | - | - |
| *May-01* | Cont'd | | 0.0014 | 0.0013 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | | <0.0005 | <0.0005 | <0.0005 |
| *Sep-01* | | | <0.0005 | <0.0005 | <0.0005 (<0.0005) | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | | <0.0005 | <0.0005 | <0.0005 |
| *Dec-01* | | | 0.0013 (0.0018) | <0.0005 | <0.0005 | <0.0005 | 0.0007 | <0.0005 | <0.0005 | <0.0005 | | <0.0005 | <0.0005 | <0.0005 |
| *Mar-02* | | | 0.001 (<0.0005) | 0.005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | - | 0.001 | | <0.0005 | <0.0005 | <0.0005 |
| *Oct-02* | | | 0.0012 (0.0009) | <0.0005 | <0.0005 | <0.0005 | 0.0009 | <0.0005 | - | <0.0005 | | <0.0005 | <0.0005 | <0.0005 |
| *May-03* | | | 0.001 (0.00081) | 0.005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | - | <0.0005 | | <0.0005 | <0.0005 | <0.0005 |
| *Nov-03* | | | 0.0023 (<0.0005) | 0.0014 | 0.0007 | <0.0005 | <0.0005 | <0.0005 | - | <0.0005 | | <0.0005 | <0.0005 | <0.0005 |
| *Apr-04* | | | 0.0022 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | - | <0.0005 | | <.0005 (<.0005) | <0.0005 | <0.0005 |
| *Oct-04* | | | 0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | - | <0.001 | | <0.001 | <0.001 | <0.001 (<0.001) |
| *May-05* | | | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.004 | - | <0.001 | | 0.004 | <0.001 | <0.001 (<0.001) |
| *Nov-05* | | | 0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | - | <0.001 | | <0.001 | <0.001 (<0.001) | <0.001 (<0.001) |
| *May-06* | | | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | - | <0.003 | | <0.003 | <0.003 (<0.003) | <0.003 (<0.003) |
| *Oct-06* | | | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | - | <0.003 | | <0.003 | <0.003 | <0.003 (<0.003) |
| *May-07* | | | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | - | <0.001 | | <0.001 | <0.001 | 0.002 (<0.001) |
| *Oct-07* | | | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | - | <0.001 | | <0.001 | <0.001 (<0.001) | <0.001 (<0.001) |
| *May-08* | | | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | - | <0.001 | | <0.001 | <0.001 (<0.001) | <0.010 (<0.001) |
| *Oct-08* | | | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | - | <0.001 | | <0.001 | <0.001 | <0.010 (<0.001) |
| *May-09* | | | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | - | <0.001 | | <0.001 | <0.001 (<0.001) | <0.001 (<0.001) |
| *Nov-09* | | | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | - | <0.001 | | <0.001 | <0.001 (<0.001) | 0.001 (<0.001) |
| *Jan-92* | Calcium | NS | 198 | 27 | 317 | 81 | 128 | 80 | 46 | 25 | NS | 34 | 358 | 53 |
| *May-92* | | | 126 | 24.5 | 304 | 67.2 | 160 | 60.2 | 33.1 | 22.7 | | 32.7 | 306 | 746 |
| *Oct-92* | | | 171 | 19.6 | 299 | 50.2 | 134 | 51.7 | 32.8 | 306 | | 37.2 | 278 | 47.9 |
| *Jan-96* | | | 120 | 12 | 260 | 69 | 77 | 80 | 27 | 260 | | 31 | - | - |
| *Mar-96* | | | 35 | 23.9 | 268 | 113 | 94.2 | 105 | 32.6 | - | | 39.5 | 78.1 | 965 |
| *May-96* | | | 69 | 18 | 240 | 51 | 73 | 85 | 28 | - | | 39 | 87 | - |
| *Jul-96* | | | 79 | 17 | 220 | 63 | 78 | 84 | 30 | - | | 53 | 110 | 170 |
| *Oct-96* | | | 68 | 15 | 130 | 80 | 44 | 86 | 27 | 130 | | 39 | 85 | - |
| *Jan-97* | | | 120 | 12 | 260 | 69 | 77 | 80 | 27 | 260 | | 31 | - | - |
| *Apr-97* | | | 220 | 9.5 | 170 | 42 | 83 | 69 | 34 | 11 | | 110 | 140 | 220 |
| *Jul-97* | | | 6.0 | 6.0 | 240 | 39 | 95 | 87 | 25 | 260 | | 37 | 85 | - |
| *Oct-97* | | | 190 | 9.4 | 180 | 57 | 88 | 79 | 22 | 190 | | 41 | 80 | - |
| *Jan-98* | | | 210 | 17 | 210 | 54 | 82 | 84 | 23 | 210 | | 33 | - | 160 |

# TABLE 3
## SUMMARY OF INORGANIC PARAMETERS
## TOWN OF MOREAU LANDFILL

| Sampling Date | Parameter | Monitoring Wells | | | | | | | | | Surface Water Locations | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | GW Standard (1) | EHC-1S (4) | EHC-2S | MW-3(4) | MW-4 | MW-5 | MW-6S | PW-1(2) | DUP (3) | Surface Water Standard (1) | S-1 | S-2 | S-3 |
| *Apr-98* | Calcium | NS | 310 | 13.5 | 378 | 68.8 | 102 | 115.9 | 34.3 | 359 | NS | 69.8 | 183.4 | - |
| *Aug-98* | Cont'd | | 236 | 14.6 | 239 | - | 67.4 | - | 26 | 12.5 | | 109.3 | 74.4 | - |
| *Nov-98* | | | 171.6 | 11 | 232 | 67.7 | 84 | 108.9 | 24.4 | 11.3 | | 34.8 | 175.1 | - |
| *Feb-99* | | | 214.1 | 21.2 | 260 | 61 | 69.7 | 73.7 | 25.9 | 22.6 | | 41.1 | 188 | - |
| *Apr-99* | | | 202.3 | 19.7 | 332 | 43.8 | 64.9 | 86.8 | 28.7 | 203.3 | | 39.2 | 66.8 | 192 |
| *Jul-99* | | | 161 | 15.7 | 289 | 53.1 | 64.3 | 82.6 | 32 | 63.8 | | 35.1 | 78.9 | - |
| *Oct-99* | | | 114.2 | 21.1 | 266 | 53.4 | 61.8 | 81.5 | 36.9 | 19.7 | | 45.6 | 82.6 | - |
| *Jan-00* | | | 90.6 | 23.2 | 275 | 35.3 | 58.4 | 78.2 | 29 | 100.7 | | 33.8 | 90.36 | 40.1 |
| *May-00* | | | 88.9 | 18.2 | 250 | 44.9 | 40.3 | 95.4 | 30.1 | 30.4 | | 46.1 | 84 | - |
| *Aug-00* | | | 144.4 | 9.2 | 22 | 80.6 | 64.5 | 78.2 | 30.3 | 62.8 | | 35.2 | 79.3 | - |
| *Oct-00* | | | 157 | 9.4 | 164 | 38.7 | 64.9 | 88.2 | 35.2 | 159 | | 36.6 | 49.6 | - |
| *Feb-01* | | | 528.365 | 13.1 | 292.4 | 56.3 | 58.1 | 97 | 61.2 | 30.2 | | 32.6 | - | - |
| *May-01* | | | 215 | 24.2 | 296 | 82.8 | 114 | 105 | 27.4 | 73.2 | | 38 | 107 | 143 |
| *Sep-01* | | | 259 | 10.9 | 255 (243) | 53.1 | 49.9 | 90.8 | 28.5 | 41.1 | | 55.8 | 91.3 | 110 |
| *Dec-01* | | | 189 (171) | 18.1 | 233 | 41.2 | 60 | 121 | 24.9 | 38.8 | | 29.7 | 111 | 140 |
| *Mar-02* | | | 134 (137) | 8.7 | 220 | 79.1 | 60.1 | 91.4 | - | 194 | | 37.7 | 90.9 | 112 |
| *Oct-02* | | | 161.1 (137) | 8.4 | 212 | 103 | 64 | 93.2 | - | 93.1 | | 34 | 88.7 | 136 |
| *May-03* | | | 115 (107) | 14.3 | 145 | 51.8 | 57.1 | 80.4 | - | 55.4 | | 34.4 | 104 | 99.8 |
| *Nov-03* | | | 190 (170) | 25 | 170 | 77 | 54 | 77 | - | 83 | | 33 | 12 | 130 |
| *Apr-04* | | | 190 | 11 | 196 | 90 | 70 | 91 | - | 195 | | 96 (68) | 73 | 89 |
| *Oct-04* | | | 160 | 4.4 | 170 | 73 | 54 | 92 | - | 75 | | 30 | 170 | 190 (100) |
| *May-05* | | | 22 | 10 | 200 | 71 | 50 | 92 | - | 95 | | 38 | 130 | 130 (100) |
| *Nov-05* | | | 90 | 6.3 | 180 | 42 | 58 | 110 | - | 56 | | 29 | 180 (160) | 170 (120) |
| *May-06* | | | 51 | - | 51 | 39 | - | 73 | - | 53 | | 140 | 80 (15) | 75 (4.5) |
| *Oct-06* | | | 170 | 15 | 260 | 78 | 73 | 71 | - | 90 | | 43 | 140 | 250 (150) |
| *May-07* | | | 103 | 15.3 | 198 | 24.8 | 51.6 | 60.9 | - | 62.9 | | 32.8 | 73.4 | 266 (113) |
| *Oct-07* | | | 68.4 | 15.6 | 191 | 55.6 | 51.2 | 77.6 | - | 53.5 | | 24 | 82.1 (87) | 230 (103) |
| *May-08* | | | 42.7 | 18.0 | 188 | 58.3 | 33.5 | 53.2 | - | 177 | | 32.9 | 121 (88.2) | 479 (119) |
| *Oct-08* | | | 49.8 | 27.0 | 206 | 50.6 | 49.9 | 76.8 | - | 51.3 | | 31.8 | 79.5 | 136 (111) |
| *May-09* | | | 45.1 | 15.6 | 190 | 50.4 | 45.5 | 61.1 | - | 46.2 | | 31.0 | 62.1 | 116 |
| *Nov-09* | | | 54.4 | 24.0 | 193 | 51.5 | 48.6 | 88.5 | - | 87.4 | | 34.2 | 114 | 197 |

# TABLE 3
## SUMMARY OF INORGANIC PARAMETERS
## TOWN OF MOREAU LANDFILL

| Sampling Date | Parameter | Monitoring Wells | | | | | | | | | Surface Water Locations | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | GW Standard (1) | EHC-1S (4) | EHC-2S | MW-3(4) | MW-4 | MW-5 | MW-6S | PW-1(2) | DUP (3) | Surface Water Standard (1) | S-1 | S-2 | S-3 |
| *Oct-92* | **Chromium** | **0.05** | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | <0.01 | **0.05** | 0.304 | <0.01 | 0.035 |
| *Jul-96* | | | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | | 0.1 | <0.01 | <0.01 |
| *Jan-98* | | | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | | <0.01 | - | <0.01 |
| *Apr-99* | | | 0.082 | <0.05 | 0.097 | 0.069 | <0.05 | <0.05 | 0.067 | 0.077 | | 0.122 | <0.05 | <0.05 |
| *Aug-00* | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | | <0.050 | <0.050 | - |
| *Dec-01* | | | 0.052 (<0.05) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | | 0.06 | <0.050 | <0.050 |
| *Oct-02* | | | - | - | - | - | - | - | - | - | | <0.050 | - | - |
| *May-03* | | | - | - | - | - | - | - | - | - | | <0.050 | - | - |
| *Nov-03* | | | - | - | - | - | - | - | - | - | | <0.050 | - | - |
| *Apr-04* | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | - | <0.05 | | <0.05 (<0.05) | <0.05 | <.05 |
| *Nov-05* | | | - | - | - | - | - | - | - | - | | <0.050 | - | - |
| *May-06* | | | - | - | - | - | - | - | - | - | | <0.006 | - | - |
| *Oct-07* | | | 0.002 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | - | <0.001 | | 0.007 | - | - |
| *May-08* | | | - | - | - | - | - | - | - | - | | 0.011 | 0.004 | 0.046 |
| *Nov-09* | | | - | - | - | - | - | - | - | - | | <0.001 | - | - |
| *Oct-92* | **Hexavalent** | **0.05** | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | **0.05** | 0.164 | <0.025 | <0.025 |
| *Jul-96* | **Chromium** | | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | | <0.01 | <0.01 | <0.01 |
| *Jan-98* | | | <0.01 | <0.01 | 0.033 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | | <0.01 | - | <0.01 |
| *Apr-99* | | | <0.01 | 0.019 | 0.097 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | | <0.01 | <0.01 | <0.01 |
| *Dec-01* | | | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | | <0.01 | <0.01 | <0.01 |
| *Apr-04* | | | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | - | <0.01 | | - | - | - |
| *Oct-07* | | | <0.01 | <0.01 | <0.10 | <0.01 | <0.01 | <0.01 | - | <0.01 | | - | - | - |
| *Oct-92* | **Copper** | **0.2** | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | **0.2** | <0.025 | <0.025 | <0.025 |
| *Jul-96* | | | <0.02 | 0.027 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | | <0.02 | 0.021 | 0.42 |
| *Jan-98* | | | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | | <0.02 | - | 13 |
| *Apr-99* | | | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | | <0.03 | <0.03 | 0.037 |
| *Aug-00* | | | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | 0.198 | 0.13 | | <0.03 | <0.03 | - |
| *Dec-01* | | | <0.03 (<0.03) | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | | <0.03 | <0.03 | 0.101 |
| *Apr-04* | | | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | - | <0.03 | | - | - | - |
| *Oct-07* | | | 0.005 | <0.001 | 0.001 | 0.002 | <0.001 | <0.001 | - | <0.001 | | - | - | - |

# TABLE 3
## SUMMARY OF INORGANIC PARAMETERS
## TOWN OF MOREAU LANDFILL

| Sampling Date | Parameter | Monitoring Wells | | | | | | | | | Surface Water Locations | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | GW Standard (1) | EHC-1S (4) | EHC-2S | MW-3(4) | MW-4 | MW-5 | MW-6S | PW-1(2) | DUP (3) | Surface Water Standard (1) | S-1 | S-2 | S-3 |
| *Oct-92* | Cyanide | 0.2 | 0.013 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.2 | <0.005 | <0.005 | 0.204 |
| *Jan-98* | | | 0.16 | <0.01 | <0.01 | <0.01 | <0.01 | - | <0.01 | 0.17 | | <0.01 | - | <0.01 |
| *Apr-99* | | | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | | <0.02 | <0.02 | <0.02 |
| *Aug-00* | | | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | | <0.02 | <0.02 | - |
| *Dec-01* | | | 0.15 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | | <0.02 | <0.02 | <0.02 |
| *Apr-04* | | | 2.9 | <0.02 | 0.04 | 0.02 | <0.02 | <0.02 | - | <0.02 | | - | - | - |
| *Oct-07* | | | 0.17 | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | - | <0.010 | | - | - | - |
| *Jan-92* | Iron | 0.3 | 2.21 | 0.677 | 106 | 6.38 | 2.7 | 1.97 | <0.1 | 0.555 | 0.3 | 0.425 | 40.1 | 7.82 |
| *May-92* | | | 4.66 | 0.546 | 135 | 2.71 | 7.4 | 1.53 | 1.73 | 0.445 | | 0.496 | 26.8 | 788 |
| *Oct-92* | | | 2.29 | 0.548 | 113 | 2.96 | 3.65 | 0.187 | 1.75 | 117 | | 0.602 | 8.35 | 39.7 |
| *Jan-96* | | | 2.1 | 0.41 | 93 | 3.6 | 10 | 12 | 0.13 | 92 | | 1.7 | - | - |
| *Mar-96* | | | 3.9 | 0.123 | 104 | 9.6 | 13 | 20.7 | 0.162 | - | | 3.2 | 170 | 46.6 |
| *May-96* | | | 1.8 | 0.39 | 74 | 3.0 | 10 | 5.1 | 0.76 | - | | 2.4 | 3.4 | - |
| *Jul-96* | | | 3.4 | 0.66 | 72 | 5.8 | 11 | 4.3 | <0.05 | - | | 4.0 | 13 | 7.1 |
| *Oct-96* | | | 3.0 | 0.32 | 46 | 4.4 | 7.1 | 9.9 | 0.26 | 46 | | 2.7 | 1.2 | - |
| *Jan-97* | | | 2.1 | 0.41 | 93 | 3.6 | 10 | 12 | 0.13 | 92 | | 1.7 | - | - |
| *Apr-97* | | | 3.3 | 1.1 | 56 | 1.7 | 13 | 3.8 | 1.2 | 1.4 | | 8.6 | 3.9 | 4.5 |
| *Jul-97* | | | 5.3 | 0.98 | 77 | 2.4 | 17 | 3.9 | 2.3 | 81 | | 1.9 | 4.8 | - |
| *Oct-97* | | | 4.8 | 1.9 | 59 | 3.4 | 16 | 4.4 | 1.0 | 64 | | 2.4 | 2.4 | - |
| *Jan-98* | | | 3.9 | 1.6 | 75 | 3.2 | 13 | 3.6 | 0.44 | 4.5 | | 2.0 | - | 180 |
| *Apr-98* | | | 7.05 | 0.85 | 121.5 | 3.76 | 30.1 | 8.22 | 1.2 | 5.88 | | 5.14 | 8.09 | - |
| *Aug-98* | | | 1.46 | 0.46 | 93.12 | - | 15.08 | - | 0.57 | 0.57 | | 3.91 | 2.77 | - |
| *Nov-98* | | | 0.23 | 0.45 | 103.46 | 4.96 | 19.42 | 5.02 | 1.67 | 0.58 | | 1.36 | 14.27 | - |
| *Feb-99* | | | 5.12 | 0.95 | 129.8 | 6.11 | 10.34 | 7.03 | 0.33 | 0.9 | | 2.39 | 475.6 | - |
| *Apr-99* | | | 7.475 | 2.07 | 125.5 | 3.88 | 16.86 | 7.88 | 0.604 | 7.595 | | 2.858 | 1.734 | 31.65 |
| *Jul-99* | | | 9.39 | 1.29 | 111.7 | 3.4 | 12.62 | 9.17 | 0.37 | 13.92 | | 1.15 | 3.93 | - |
| *Oct-99* | | | 1.68 | 0.28 | 100.97 | 4.61 | 8.81 | 8.68 | 0.39 | 0.51 | | 2.47 | 1.24 | - |
| *Jan-00* | | | 1.5 | 1.85 | 102.76 | 1.63 | 7.77 | 9.78 | 0.57 | 1.92 | | 1.25 | 8.58 | 19.35 |
| *May-00* | | | 1.1 | 1.27 | 106.44 | 4.88 | 5.06 | 7.56 | 0.43 | 0.19 | | 3.29 | 1.57 | - |
| *Aug-00* | | | 5.84 | 4.89 | 97.47 | 7.562 | 9.101 | 9.625 | 1.24 | 9.0 | | 1.608 | 6.39 | - |
| *Oct-00* | | | 3.95 | 0.97 | 53.9 | 3.08 | 6.44 | 9.16 | 1.0 | 7.17 | | 9.47 | 0.894 | - |
| *Feb-01* | | | 6.839 | 2.985 | 121.54 | 5.045 | 8.796 | 20.44 | 9.568 | 0.706 | | 1.312 | - | - |
| *May-01* | | | 7.028 | 4.176 | 93.74 | 6.201 | 18.12 | 8.647 | 1.553 | 8.044 | | 2.931 | 3.319 | 3.335 |

# TABLE 3
## SUMMARY OF INORGANIC PARAMETERS
## TOWN OF MOREAU LANDFILL

| Sampling Date | Parameter | Monitoring Wells | | | | | | | | | Surface Water Locations | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | GW Standard (1) | EHC-1S (4) | EHC-2S | MW-3(4) | MW-4 | MW-5 | MW-6S | PW-1(2) | DUP (3) | Surface Water Standard (1) | S-1 | S-2 | S-3 |
| *Sep-01* | Iron Cont'd | 0.3 | 3.89 | 2.45 | 106 (87.8) | 6.7 | 2.23 | 7.51 | 0.65 | 4.86 | 0.3 | 1.36 | 3.61 | 5.07 |
| *Dec-01* | | | 17.2 (2.68) | 0.851 | 87.5 | 4.79 | 6.15 | 14 | 2.41 | 4.53 | | 1.53 | 4.82 | 18 |
| *Mar-02* | | | 9.13 (1.1) | 1.45 | 92.1 | 9.75 | 6.91 | 6.48 | - | 89.4 | | 1.9 | 0.732 | 1.99 |
| *Oct-02* | | | 42.9 (0.973) | 3.95 | 81.5 | 20.6 | 16.4 | 13.6 | - | 14.04 | | 1.22 | 4.08 | 2.87 |
| *May-03* | | | 37.4 (0.658) | 1.95 | 75.7 | 6.86 | 7.21 | 12.7 | - | 7.96 | | 2.09 | 1.48 | 1.48 |
| *Nov-03* | | | 25 (2.5) | 1.3 | 80 | 20 | 3.5 | 11 | - | 18 | | 1.7 | 5.6 | 16 |
| *Apr-04* | | | 6 | 0.12 | 89 | 9.3 | 8.4 | 7.2 | - | 94 | | 310 (40) | 1.2 | 23 |
| *Oct-04* | | | 0.51 | <0.075 | 82 | 22 | 4.3 | 7.8 | - | 20 | | 1.3 | 13 | 500 (0.3) |
| *May-05* | | | 0.28 | 0.059 | 99 | 11 | 4.3 | 6.5 | - | 6.5 | | 1.4 | 2.3 | 3.3 (0.15) |
| *Nov-05* | | | 2.6 | 0.24 | 80 | 5 | 5.1 | 13 | - | 5.4 | | 1.4 | 53 (14) | 190 (2.2) |
| *May-06* | | | 3 | 0.77 | 97 | 5.5 | 3.1 | 16 | - | 95 | | 3.3 | 8.6 (1.6) | 760 (21) |
| *Oct-06* | | | 5 | 0.66 | 95 | 6.1 | 4.7 | 8.1 | - | 6.4 | | 1.7 | 3.9 | 340 (2.9) |
| *May-07* | | | 4.91 | 0.439 | 99.8 | 1.38 | 12.1 | 15.5 | - | 15.8 | | 0.972 | 1.02 | 505 (4.32) |
| *Oct-07* | | | 2.45 | 0.451 | 93.4 | 6.75 | 10.5 | 15.5 | - | 10.3 | | 0.779 | 10 (0.637) | 59.7 (1.27) |
| *May-08* | | | 4.14 | 0.503 | 102 | 5.79 | 11.0 | 14.8 | - | 94.4 | | 0.784 | 13.6 (0.904) | 929 (1.54) |
| *Oct-08* | | | 13.1 | 0.71 | 104 | 5.30 | 13.2 | 18.4 | - | 5.46 | | 0.912 | 1.41 | 22.0 (0.091) |
| *May-09* | | | 0.89 | 0.714 | 107 | 4.02 | 18.2 | 25.7 | - | 19.9 | | 0.988 | 5.40 (1.31) | 159 (0.564) |
| *Nov-09* | | | 1.56 | 0.399 | 103 | 8.35 | 12.0 | 7.01 | - | 6.81 | | 0.896 | 5.05 (0.191) | 277 (0.639) |
| *Jan-92* | Lead | 0.025 | <0.003 | <0.003 | 0.007 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | 0.05 | <0.003 | 0.004 | 0.005 |
| *May-92* | | | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | | 0.005 | 0.013 | 0.67 |
| *Oct-92* | | | 0.004 | <0.003 | 0.003 | <0.003 | 0.003 | <0.003 | <0.003 | 0.005 | | 0.011 | <0.003 | 0.015 |
| *Jan-96* | | | <0.01 | 0.027 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | | <0.01 | - | - |
| *Mar-96* | | | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | - | | <0.03 | <0.03 | <0.03 |
| *May-96* | | | 0.027 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | - | | 0.011 | <0.01 | - |
| *Jul-96* | | | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | - | | <0.01 | <0.01 | <0.01 |
| *Oct-96* | | | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | | <0.01 | <0.01 | - |
| *Jan-97* | | | <0.01 | 0.027 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | | <0.01 | - | - |
| *Apr-97* | | | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | | <0.01 | <0.01 | <0.01 |
| *Jul-97* | | | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | | <0.01 | <0.01 | <0.01 |
| *Oct-97* | | | <0.01 | <0.01 | <0.01 | <0.01 | 0.1 | <0.01 | <0.01 | <0.01 | | <0.01 | <0.01 | - |
| *Jan-98* | | | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | | <0.01 | - | 2.5 |
| *Apr-98* | | | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.0012 | <0.001 | <0.001 | | <0.001 | <0.001 | - |
| *Aug-98* | | | <0.001 | 0.0014 | 0.002 | - | <0.001 | - | 0.0014 | <0.001 | | 0.0023 | <0.001 | - |

# TABLE 3
## SUMMARY OF INORGANIC PARAMETERS
## TOWN OF MOREAU LANDFILL

| Sampling Date | Parameter | Monitoring Wells | | | | | | | | | Surface Water Locations | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | GW Standard (1) | EHC-1S (4) | EHC-2S | MW-3(4) | MW-4 | MW-5 | MW-6S | PW-1(2) | DUP (3) | Surface Water Standard (1) | S-1 | S-2 | S-3 |
| *Nov-98* | Lead Cont'd | 0.025 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.05 | <0.001 | 0.009 | - |
| *Feb-99* | | | <0.001 | 0.0022 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.002 | | <0.001 | 0.098 | - |
| *Apr-99* | | | 0.017 | 0.0027 | 0.0029 | 0.0018 | 0.0012 | 0.0011 | 0.0033 | 0.015 | | <0.001 | 0.0021 | 0.089 |
| *Jul-99* | | | 0.0018 | <0.001 | 0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | | <0.001 | 0.0023 | - |
| *Oct-99* | | | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | | <0.001 | <0.001 | - |
| *Jan-00* | | | 0.00335 | 0.011 | <0.001 | 0.0023 | <0.001 | <0.001 | <0.001 | 0.0043 | | 0.065 | <0.001 | <0.001 |
| *May-00* | | | 0.00991 | 0.0062 | 0.0058 | 0.0046 | 0.0061 | 0.0054 | 0.0052 | 0.0037 | | 0.00045 | 0.007 | - |
| *Aug-00* | | | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | | <0.001 | <0.001 | - |
| *Oct-00* | | | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.0016 | | 0.0022 | <0.001 | - |
| *Feb-01* | | | <0.001 | 0.0046 | 0.0028 | <0.001 | 0.002 | <0.001 | <0.001 | 0.0029 | | <0.001 | - | - |
| *May-01* | | | 0.016 | 0.017 | 0.0077 | 0.0081 | 0.0068 | <0.001 | 0.0016 | 0.0016 | | 0.0016 | 0.013 | 0.01 |
| *Sep-01* | | | 0.0024 | <0.001 | <0.001 (<0.001) | <0.001 | 0.001 | 0.0019 | 0.001 | <0.001 | | <0.001 | 0.0015 | 0.0013 |
| *Dec-01* | | | 0.0024 (<0.001) | 0.0012 | <0.001 | <0.001 | 0.016 | <0.001 | <0.001 | <0.001 | | <0.001 | <0.001 | 0.0027 |
| *Mar-02* | | | 0.0094 (<0.001) | 0.018 | <0.001 | <0.001 | 0.002 | <0.001 | - | 0.001 | | <0.001 | 0.001 | 0.004 |
| *Oct-02* | | | 0.00328 (<0.001) | <0.001 | <0.001 | <0.001 | 0.0012 | <0.001 | - | 0.0011 | | <0.001 | 0.0019 | 0.0076 |
| *May-03* | | | 0.0039 (<0.001) | <0.001 | <0.001 | 0.0013 | <0.001 | <0.001 | - | <0.001 | | 0.0018 | 0.0025 | 0.0023 |
| *Nov-03* | | | 0.0048 (0.0029) | 0.0032 | 0.0069 | 0.0029 | 0.0011 | 0.0014 | - | 0.0019 | | 0.0051 | 0.0019 | 0.0045 |
| *Apr-04* | | | 0.02 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | - | <0.001 | | <.0047 (<.001) | <0.001 | 0.001 |
| *Oct-04* | | | 0.005 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.025 | - | <0.0025 | | <0.0025 | 0.0068 | 0.0086 (<0.0025) |
| *May-05* | | | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | - | <0.0025 | | <0.0025 | <0.0025 | <0.0025 (<0.0025) |
| *Nov-05* | | | 0.014 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | <0.0025 | - | <0.0025 | | <0.0025 | 0.024 (<0.0025) | 0.017 (<0.0025) |
| *May-06* | | | <0.042 | <0.042 | <0.042 | <0.042 | 0.043 | 0.046 | - | 0.070 | | 0.043 | 0.047(<0.042) | 0.200 (<0.042) |
| *Oct-06* | | | <0.042 | <0.042 | <0.042 | <0.042 | <0.042 | <0.042 | - | <0.042 | | <0.042 | <0.042 | 0.120 (<0.042) |
| *May-07* | | | <0.002 | <0.002 | 0.007 | <0.002 | 0.003 | <0.002 | - | <0.002 | | <0.002 | <0.002 | 0.221 (<0.002) |
| *Oct-07* | | | 0.004 | <0.002 | 0.009 | 0.002 | 0.002 | 0.003 | - | 0.003 | | <0.001 | 0.010 (<0.001) | 0.052 (<0.001) |
| *May-08* | | | 0.30 | 0.003 | <0.020 | <0.020 | <0.002 | <0.002 | - | 0.006 | | 0.002 | 0.009 (<0.002) | 0.173 (<0.002) |
| *Oct-08* | | | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | - | <0.002 | | <0.002 | <0.002 | 0.007 (<0.002) |
| *May-09* | | | 0.002 | <0.002 | 0.006 | <0.002 | <0.002 | <0.002 | - | <0.002 | | <0.002 | 0.004 (<0.002) | <0.002 (<0.002) |
| *Nov-09* | | | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | - | <0.002 | | <0.002 | <0.002(<0.002) | 0.041 (<0.002) |

# TABLE 3
## SUMMARY OF INORGANIC PARAMETERS
## TOWN OF MOREAU LANDFILL

| Sampling Date | Parameter | Monitoring Wells | | | | | | | | | Surface Water Locations | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | GW Standard (1) | EHC-1S (4) | EHC-2S | MW-3(4) | MW-4 | MW-5 | MW-6S | PW-1(2) | DUP (3) | Surface Water Standard (1) | S-1 | S-2 | S-3 |
| *Jan-92* | Magnesium | 35* | 33 | 6.3 | 52 | 13 | 23 | 22 | 8.2 | 6.0 | 35 | - | - | - |
| *May-92* | | | 20.1 | 6.1 | 50.2 | 15.4 | 32.7 | 15.4 | 6.9 | 5.8 | | 6.6 | 25.5 | 82 |
| *Oct-92* | | | 22.4 | <5.0 | 52.7 | 9.3 | 22 | 11.3 | 5.3 | 53.3 | | 6.0 | 33 | 10.5 |
| *Jan-96* | | | 14 | 3.3 | 27 | 13 | 14 | 16 | 6.0 | 27 | | 5.5 | - | - |
| *Mar-96* | | | 14.9 | 5.6 | 41.5 | 22.2 | 18.9 | 24.2 | 6.2 | - | | 5.9 | 10 | 39.1 |
| *May-96* | | | 11 | 4.3 | 25 | 9.8 | 14 | 17 | 5.7 | - | | 6.0 | 13 | - |
| *Jul-96* | | | 13 | 4.3 | 24 | 12 | 15 | 17 | 6.5 | - | | 6.9 | 13 | 19 |
| *Oct-96* | | | 11 | 3.7 | 19 | 15 | 7.8 | 19 | 5.9 | - | | 6.1 | 13 | - |
| *Jan-97* | | | 14 | 3.3 | 27 | 13 | 14 | 16 | 6.0 | 27 | | 5.5 | - | - |
| *Apr-97* | | | 20 | 2.4 | 20 | 7.8 | 14 | 14 | 7.2 | 2.7 | | 7.1 | 14 | 20 |
| *Jul-97* | | | 23 | 1.5 | 32 | 7.4 | 17 | 19 | 5.4 | 35 | | 5.2 | 13 | - |
| *Oct-97* | | | 21 | 2.4 | 27 | 11 | 15 | 12 | 4.7 | 28 | | 5.4 | 12 | - |
| *Jan-98* | | | 23 | 3.9 | 35 | 11 | 15 | 21 | 4.9 | 22 | | 5.2 | - | 41 |
| *Apr-98* | | | 43.54 | 3.87 | 53.5 | 18.83 | 26.7 | 41.06 | 8.34 | 44.53 | | 9.5 | 27.93 | - |
| *Aug-98* | | | 28.16 | 2.49 | 37.51 | - | 10.66 | - | 5.13 | 2.2 | | 10.44 | 9.38 | - |
| *Nov-98* | | | 17.57 | 3.42 | 41.65 | 12.81 | 14.8 | 33.6 | 5.45 | 3.32 | | 6.3 | 15.67 | - |
| *Feb-99* | | | 21.73 | 4.41 | 44.05 | 9.57 | 11.77 | 25.16 | 4.43 | 3.94 | | 5.06 | 15.51 | - |
| *Apr-99* | | | 23.88 | 5.52 | 49.34 | 8.58 | 11.62 | 21.02 | 7.04 | 24.756 | | 6.95 | 7.1 | 23.64 |
| *Jul-99* | | | 16.42 | 3.69 | 42.42 | 8.86 | 9.12 | 15.92 | 5.71 | 9.54 | | 5.77 | 8.34 | - |
| *Oct-99* | | | 14.65 | 5.89 | 47.81 | 11.65 | 11.5 | 22.7 | 6.95 | 5.54 | | 7.63 | 12.53 | - |
| *Jan-00* | | | 9.86 | 5.52 | 49.09 | 6.71 | 9.28 | 13.96 | 5.24 | 10.06 | | 6.28 | 11.41 | 8.41 |
| *May-00* | | | 9.93 | 4.78 | 47.34 | 8.07 | 6.57 | 17 | 6.39 | 6.04 | | 7.63 | 9.81 | - |
| *Aug-00* | | | 16.88 | 2.92 | 38.2 | - | 8.91 | 12.31 | 5.98 | 9.06 | | 6.37 | - | - |
| *Oct-00* | | | 21.04 | 1.64 | 28.02 | 6.7 | 8.57 | 15.4 | 6.64 | 23.1 | | 6.89 | 6.99 | - |
| *Feb-01* | | | 22.85 | 3.96 | 48.47 | 9.85 | 9.96 | 18.01 | 10.42 | 6.54 | | 7.04 | - | - |
| *May-01* | | | 22.7 | 2.64 | 45.6 | 10.8 | 10.2 | 15.8 | 4.67 | 10.7 | | 6.42 | 11 | 11.3 |
| *Sep-01* | | | 2.6 | 2.68 | 43.6 (42.2) | 7.26 | 7.5 | 13.3 | 5.02 | 6.6 | | 6.42 | 11.24 | 14.9 |
| *Dec-01* | | | 26.5 (19.6) | 5.0 | 44.1 | 6.91 | 8.21 | 200 | 3.32 | 7.1 | | 6.1 | 12 | 18.6 |
| *Mar-02* | | | 13.9 (13.1) | 2.4 | 44.5 | 12.8 | 8.44 | 11.2 | - | 42.9 | | 6.47 | 8.07 | 13.5 |
| *Oct-02* | | | 22.8 (13.3) | 2.7 | 37.1 | 17 | 8.9 | 11.6 | - | 11.4 | | 6.17 | 8.52 | 13.1 |
| *May-03* | | | 21.6 (14.9) | 3.6 | 28.5 | 9.86 | 8.59 | 11.3 | - | 8.8 | | 6.6 | 8.28 | 11.5 |
| *Nov-03* | | | 24 (21) | 3.3 | 29 | 13 | 8 | 11 | - | 13 | | 6.4 | 10 | 14 |
| *Apr-04* | | | 27 | 2.3 | 34 | 13 | 9.2 | 10 | - | 34 | | 9.9 (8.5) | 6.3 | 9.7 |

# TABLE 3
## SUMMARY OF INORGANIC PARAMETERS
## TOWN OF MOREAU LANDFILL

| Sampling Date | Parameter | Monitoring Wells | | | | | | | | | Surface Water Locations | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | GW Standard (1) | EHC-1S (4) | EHC-2S | MW-3(4) | MW-4 | MW-5 | MW-6S | PW-1(2) | DUP (3) | Surface Water Standard (1) | S-1 | S-2 | S-3 |
| *Oct-04* | **Magnesium** | **35*** | 18 | 1.9 | 28 | 11 | 7.4 | 12 | - | 12 | **35** | 6 | 18 | 19 (16) |
| *May-05* | **Cont'd** | | 0.65 | 2.9 | 38 | 11 | 7 | 11 | - | 11 | | 5.9 | 12 | 15 (13) |
| *Nov-05* | | | 17 | 2.8 | 29 | 6.8 | 8.1 | 14 | - | 8 | | 6.5 | 17 (12) | 16 (13) |
| *May-06* | | | 13 | 3.2 | 33 | 8 | 5.5 | 9.7 | - | 32 | | 6.6 | 10 (10) | 14 (14) |
| *Oct-06* | | | 13 | 2.8 | 31 | 10 | 7 | 7.6 | - | 10 | | 6.2 | 8.5 | 12 (12) |
| *May-07* | | | 9.97 | 4.02 | 29.2 | 4.32 | 7.42 | 9.06 | - | 9.29 | | 5.91 | 7.92 | 15.8 (10.2) |
| *Oct-07* | | | 6.22 | 3.72 | 27.5 | 9.23 | 7.05 | 9.88 | - | 7.12 | | 4.88 | 8.84 (8.12) | 11.6 (11) |
| *May-08* | | | 4.87 | 3.58 | 23.1 | 8.88 | 4.58 | 6.94 | - | 25.7 | | 6.09 | 9.36 (7.53) | 22.5 (11.5) |
| *Oct-08* | | | 7.69 | 5.95 | 26 | 8.6 | 7.05 | 9.49 | - | 8.75 | | 5.86 | 7.65 | 10.4 (9.53) |
| *May-09* | | | 7.06 | 3.41 | 27.4 | 8.38 | 6.76 | 10.7 | - | 6.9 | | 5.56 | 6.58 | 9.38 |
| *Nov-09* | | | 7.71 | 5.08 | 26.8 | 7.24 | 6.97 | 8.52 | - | 8.54 | | 6.17 | 12 | 13.4 |
| *Jan-92* | **Manganese** | **0.3** | 0.035 | 0.016 | 1.63 | 0.176 | 3.27 | 2.38 | 0.025 | 0.015 | **0.3** | 0.068 | 1.77 | 0.355 |
| *May-92* | | | 0.065 | <0.015 | 1.62 | 0.059 | 3.62 | 1.72 | 0.078 | <0.015 | | 0.032 | 1.02 | 46.9 |
| *Oct-92* | | | 0.027 | <0.015 | 1.55 | 0.078 | 2.68 | 2.06 | 0.071 | 1.59 | | 0.136 | 0.801 | 0.139 |
| *Jan-96* | | | 0.071 | <0.01 | 1.6 | 0.069 | 1.6 | 9.1 | 0.034 | 1.6 | | 0.12 | - | - |
| *Mar-96* | | | 0.098 | <0.025 | 2.1 | 0.167 | 3.6 | 10.4 | 0.032 | - | | 0.288 | 1.6 | 2.8 |
| *May-96* | | | 0.038 | 0.016 | 1.4 | 0.067 | 1.4 | 4.8 | 0.069 | - | | 0.23 | 0.95 | - |
| *Jul-96* | | | 0.05 | 0.014 | 1.4 | 0.094 | 2.5 | 5.5 | 0.024 | - | | 0.38 | 1.4 | 1.0 |
| *Oct-96* | | | 0.041 | <0.03 | 0.88 | 0.089 | 2.6 | 7.2 | <0.03 | 0.85 | | 0.29 | 0.45 | - |
| *Jan-97* | | | 0.071 | <0.01 | 1.6 | 0.069 | 1.6 | 9.1 | 0.034 | 1.6 | | 0.12 | - | - |
| *Apr-97* | | | 0.15 | 0.018 | 1.0 | 0.04 | 1.4 | 9.6 | 0.14 | 0.027 | | 0.58 | 0.7 | 1.1 |
| *Jul-97* | | | 0.13 | 0.015 | 1.4 | 0.043 | 1.8 | 7.7 | 0.11 | 1.4 | | 0.18 | 0.59 | - |
| *Oct-97* | | | 0.16 | 0.048 | 1.1 | 0.11 | 1.5 | 12 | 0.071 | 1.2 | | 0.24 | 0.71 | - |
| *Jan-98* | | | 0.14 | 0.03 | 1.2 | 0.06 | 1.2 | 10 | 0.05 | 0.13 | | 0.1 | - | 5.3 |
| *Apr-98* | | | 0.18 | <0.03 | 1.48 | 0.07 | 1.15 | 15.87 | 0.07 | 0.2 | | 0.39 | 470 | - |
| *Aug-98* | | | 0.16 | <0.03 | 1.27 | - | 1.64 | - | <0.03 | <0.03 | | 0.27 | 0.44 | - |
| *Nov-98* | | | <0.03 | <0.03 | 1.35 | <0.03 | 0.99 | 28.25 | <0.03 | <0.03 | | <0.03 | 1.05 | - |
| *Feb-99* | | | 0.21 | 0.16 | 1.74 | 0.18 | 1.65 | 20.93 | <0.03 | 0.03 | | 0.23 | 2.74 | - |
| *Apr-99* | | | 0.269 | 0.08 | 2.063 | 0.104 | 0.81 | 7.23 | 0.076 | 0.266 | | 0.287 | 0.248 | 2.41 |
| *Jul-99* | | | 0.3 | 0.11 | 1.43 | 0.14 | 1.0 | 7.27 | 0.11 | 1.11 | | 0.15 | 1.32 | - |
| *Oct-99* | | | 0.11 | <0.03 | 1.45 | 0.1 | 0.7 | 9.79 | 0.05 | <0.03 | | 0.51 | 230 | - |
| *Jan-00* | | | 0.11 | 0.03 | 1.43 | 0.04 | 0.84 | 3.1 | <0.03 | 0.11 | | 0.15 | 0.69 | 0.89 |
| *May-00* | | | <0.03 | <0.03 | 1.63 | 0.068 | 0.456 | 7.71 | <0.03 | <0.03 | | 0.86 | 0.27 | - |

# TABLE 3
## SUMMARY OF INORGANIC PARAMETERS
## TOWN OF MOREAU LANDFILL

| Sampling Date | Parameter | Monitoring Wells | | | | | | | | | Surface Water Locations | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | GW Standard (1) | EHC-1S (4) | EHC-2S | MW-3(4) | MW-4 | MW-5 | MW-6S | PW-1(2) | DUP (3) | Surface Water Standard (1) | S-1 | S-2 | S-3 |
| *Aug-00* | Manganese | 0.3 | 0.185 | 0.072 | 1.468 | 0.125 | 1.004 | 4.533 | 0.044 | 1.004 | 0.3 | 0.163 | 1.815 | - |
| *Oct-00* | Cont'd | | 0.174 | 0.046 | 0.857 | 0.037 | 1.12 | 8.9 | 0.054 | 0.219 | | 0.527 | 0.186 | - |
| *Feb-01* | | | 0.265 | <0.03 | 1.568 | 0.075 | 1.26 | 7.41 | 1.224 | <0.03 | | 0.101 | - | - |
| *May-01* | | | 0.373 | 0.062 | 1.532 | 0.143 | 1.17 | 7.802 | 0.041 | 0.144 | | 0.174 | 0.47 | 0.729 |
| *Sep-01* | | | 0.473 | 0.044 | 1.51 (1.5) | 0.095 | 1.65 | 8.15 | <0.03 | 0.075 | | 0.055 | 0.441 | 0.744 |
| *Dec-01* | | | 0.44 (0.282) | 0.046 | 1.42 | 0.045 | 1.54 | 11.3 | 0.045 | 0.047 | | 0.048 | 0.203 | 1.24 |
| *Mar-02* | | | 0.331 (0.224) | <0.03 | 1.45 | 0.238 | 1.48 | 8.1 | - | 1.43 | | 0.147 | 0.064 | 0.144 |
| *Oct-02* | | | 0.708 (0.228) | 0.084 | 1.34 | 0.272 | 2.21 | 6.03 | - | 6.6 | | 0.076 | 0.339 | 0.523 |
| *May-03* | | | 0.7 (0.244) | 0.032 | 1.42 | 0.222 | 1.87 | 4.8 | - | 1.82 | | 0.096 | 0.129 | 0.329 |
| *Nov-03* | | | 0.790 (0.520) | 1.3 | 1.4 | 0.4 | 1.9 | 4.4 | - | 0.4 | | 0.12 | 0.69 | 1.8 |
| *Apr-04* | | | 0.694 | <0.5 | 1.29 | <0.5 | 1.55 | 5.1 | - | 1.3 | | 1.5 (0.65) | 0.13 | 0.56 |
| *Oct-04* | | | 0.51 | <0.020 | 1.4 | 0.5 | 1.3 | 6.6 | - | 0.53 | | 0.1 | 0.73 | 10 (0.170) |
| *May-05* | | | 0.011 | 0.0069 | 1.8 | 0.45 | 1.3 | 5.7 | - | 5.7 | | 0.11 | 0.73 | 5.9 (1) |
| *Nov-05* | | | 0.510 | 0.01 | 1.2 | 0.15 | 0.9 | 4.0 | - | 0.89 | | 0.088 | 2.7 (1.3) | 4.3 (2.2) |
| *May-06* | | | 0.600 | 0.024 | 1.5 | 0.16 | 0.66 | 2.8 | - | 1.5 | | 0.120 | 0.43 (0.23) | 8 (2.3) |
| *Oct-06* | | | 0.670 | 0.013 | 1.5 | 0.16 | 0.74 | 2.4 | - | 0.16 | | 0.084 | 0.66 | 4 (1) |
| *May-07* | | | 0.491 | 0.01 | 1.29 | 0.02 | 0.581 | 1.68 | - | 1.77 | | 0.054 | 0.473 | 9.7 (1.73) |
| *Oct-07* | | | 0.307 | 0.008 | 1.23 | 0.083 | 0.568 | 2.41 | - | 0.57 | | 0.054 | 0.722 (0.13) | 3.58 (1.25) |
| *May-08* | | | 0.162 | 0.009 | 1.16 | 0.122 | 0.415 | 1.52 | - | 1.17 | | 0.040 | 0.500 (0.021) | 22.2 (3.07) |
| *Oct-08* | | | 0.285 | 0.02 | 1.27 | 0.107 | 0.618 | 2.36 | - | 0.11 | | 0.068 | 0.254 | 2.59 (1.60) |
| *May-09* | | | 0.211 | 0.019 | 1.31 | 0.142 | 0.526 | 1.24 | - | 0.53 | | 0.057 | 0.181 (0.039) | 1.44 (0.905) |
| *Nov-09* | | | 0.138 | 0.01 | 1.28 | 0.207 | 0.540 | 2.78 | - | 2.71 | | 0.038 | 0.311 (0.060) | 5.40 (2.88) |
| *Oct-92* | Mercury | 0.0007 | <0.0002 | <0.0002 | 0.0011 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | 0.0007 | <0.0002 | <0.0002 | <0.0002 |
| *Jul-96* | | | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | | <0.0002 | <0.0002 | <0.0002 |
| *Jan-98* | | | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | | <0.0002 | - | <0.0002 |
| *Apr-99* | | | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | | <0.001 | <0.001 | <0.001 |
| *Aug-00* | | | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | | <0.001 | <0.001 | - |
| *Dec-01* | | | <0.001 (<0.001) | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | | <0.001 | <0.001 | <0.001 |
| *Apr-04* | | | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | - | <0.001 | | - | - | - |
| *Oct-07* | | | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | - | <0.002 | | - | - | - |
| *Oct-92* | Nickel | 0.1 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.025 | <0.04 | 0.1 | <0.04 | <0.04 | <0.04 |
| *Jul-96* | | | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | | <0.01 | <0.01 | <0.01 |
| *Jan-98* | | | <0.01 | <0.01 | 0.015 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | | <0.1 | - | 0.17 |

# TABLE 3
## SUMMARY OF INORGANIC PARAMETERS
## TOWN OF MOREAU LANDFILL

| Sampling Date | Parameter | Monitoring Wells | | | | | | | | | Surface Water Locations | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | GW Standard (1) | EHC-1S (4) | EHC-2S | MW-3(4) | MW-4 | MW-5 | MW-6S | PW-1(2) | DUP (3) | Surface Water Standard (1) | S-1 | S-2 | S-3 |
| *Apr-99* | Nickel | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.1 | <0.1 | <0.1 | <0.1 |
| *Aug-00* | Cont'd | | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | | <0.1 | <0.1 | - |
| *Dec-01* | | | 0.159 (<0.1) | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | | <0.1 | <0.1 | <0.1 |
| *Apr-04* | | | 0.11 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | | - | - | - |
| *Oct-07* | | | 0.002 | 0.001 | 0.009 | 0.002 | 0.002 | 0.002 | - | 0.002 | | - | - | - |
| *Jan-92* | Potassium | NS | 5.0 | <5.0 | 66 | 6.7 | 7.6 | 6.6 | <5.0 | <5.0 | NS | <5.0 | 26 | <5 |
| *May-92* | | | 5.8 | <5.0 | 50.1 | <5.0 | 7.8 | 5.9 | <5.0 | <5.0 | | <5.0 | 17.4 | 13 |
| *Oct-92* | | | <5.0 | <5.0 | 54.5 | <5.0 | 9.0 | 6.2 | <5.0 | 55 | | <5.0 | 29.1 | <5.0 |
| *Jan-96* | | | 9.4 | <1.0 | 58 | 4.4 | 6.0 | 9.8 | <1.0 | 58 | | <1.0 | - | - |
| *Mar-96* | | | 2.9 | 1.1 | 38.2 | 5.0 | 4.8 | 8.3 | <1.0 | - | | <1.0 | 5.4 | 7.8 |
| *May-96* | | | 3.9 | <1.0 | 41 | 3.3 | 4.5 | 8.6 | <1.0 | - | | 1.1 | 7.4 | - |
| *Jul-96* | | | 5.4 | <1.0 | 46 | 5.0 | 5.6 | 11 | <1.0 | - | | 1.6 | 10 | 7.5 |
| *Oct-96* | | | 4.0 | <1.0 | 24 | 2.6 | 2.6 | 9.0 | 1.1 | 24 | | 1.3 | 9.4 | - |
| *Jan-97* | | | 9.4 | <1.0 | 58 | 4.4 | 6.0 | 9.8 | <1.0 | 58 | | <1.0 | - | - |
| *Apr-97* | | | 14 | <1.0 | 29 | 2.6 | 4.6 | 6.8 | <1.0 | <1.0 | | 1.4 | 12 | 3.1 |
| *Jul-97* | | | 11 | <1.0 | 43 | 2.9 | 5.8 | 10 | 3.7 | 47 | | 1.0 | 3.2 | - |
| *Oct-97* | | | 12 | <1.0 | 36 | 4.2 | 7.2 | 11 | <1.0 | 36 | | <1.0 | 12 | - |
| *Jan-98* | | | 12 | <1.0 | 37 | 3.0 | 5.2 | 8.1 | <1.0 | 11 | | <1.0 | - | 16 |
| *Apr-98* | | | 6.73 | 1.03 | 52.9 | 4.2 | 5.05 | 9.14 | 0.76 | 6.89 | | 0.98 | 8.51 | - |
| *Aug-98* | | | 4.22 | 0.53 | 30.5 | - | 3.03 | - | 0.51 | 0.54 | | 1.58 | 5.0 | - |
| *Nov-98* | | | 3.73 | 2.39 | 36.86 | 6.0 | 4.49 | 3.41 | 4.36 | 5.03 | | 2.83 | 6.26 | - |
| *Feb-99* | | | 7.11 | 0.9 | 32.42 | 8.48 | 2.09 | 3.36 | 0.68 | 1.12 | | 1.24 | 9.06 | - |
| *Apr-99* | | | 5.372 | 0.846 | 10.96 | 4.957 | 2.721 | 5.92 | 0.604 | 5.38 | | 0.939 | 2.72 | 9.37 |
| *Jul-99* | | | 8.04 | 1.49 | 10.75 | 5.42 | 3.9 | 7.76 | 2.35 | 3.62 | | 1.31 | 10.75 | - |
| *Oct-99* | | | 3.76 | 0.92 | 34.14 | 6.05 | 3.98 | 7.15 | 0.77 | 0.77 | | 0.91 | 5.69 | - |
| *Jan-00* | | | 4.64 | 1.03 | 35.6 | 1.88 | 1.68 | 6.82 | 1.3 | 4.27 | | 3.01 | 7.22 | 0.14 |
| *May-00* | | | 2.5 | 0.46 | 38.6 | 3.05 | 1.49 | 4.55 | 0.43 | 0.59 | | 0.95 | 3.31 | - |
| *Aug-00* | | | 4.34 | <1.0 | 32.4 | 5.93 | 2.28 | 6.37 | <1.0 | 2.07 | | 1.5 | 4.86 | - |
| *Oct-00* | | | 3.43 | <1.0 | 23.9 | 3.48 | 2.94 | 6.18 | <1.0 | 4.1 | | 2.43 | 1.8 | - |
| *Feb-01* | | | 5.92 | 1.34 | 41.8 | 4.49 | 2.18 | 6.89 | 2.28 | <1.0 | | <1.0 | - | - |
| *May-01* | | | 6.55 | <1.0 | 38.2 | 5.52 | 2.98 | 4.56 | <1.0 | 5.54 | | <1.0 | 4.34 | 6.4 |
| *Sep-01* | | | 5.84 | <1.0 | 37.4 (37.74) | 3.96 | 1.31 | 4.16 | <1.0 | 3.56 | | <1.0 | 8.21 | 6.57 |
| *Dec-01* | | | 6.24 (5.71) | 1.96 | 43.45 | 3.35 | 3.44 | 6.44 | 2.35 | 4.33 | | 2.69 | 5.66 | 8.72 |

# TABLE 3
## SUMMARY OF INORGANIC PARAMETERS
## TOWN OF MOREAU LANDFILL

| Sampling Date | Parameter | Monitoring Wells | | | | | | | | | Surface Water Locations | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | GW Standard (1) | EHC-1S (4) | EHC-2S | MW-3(4) | MW-4 | MW-5 | MW-6S | PW-1(2) | DUP (3) | Surface Water Standard (1) | S-1 | S-2 | S-3 |
| *Mar-02* | **Potassium** | **NS** | 7.88 (3.6) | <1.0 | 33.2 | 3.44 | 1.09 | 2.51 | - | 36 | **NS** | 1.0 | 2.3 | 5.2 |
| *Oct-02* | **Cont'd** | | 10.4 (7.91) | <1.0 | 23.3 | 6.78 | 1.85 | 3.97 | - | 3.28 | | 0.7 | 2.29 | 5.82 |
| *May-03* | | | 8.16 (4.63) | <1.0 | 21.7 | 3.35 | 1.1 | 2.5 | - | 1.15 | | <1.0 | 1.4 | 2.19 |
| *Nov-03* | | | 6.6 (5.1) | 1.6 | 23 | 5.4 | 1.7 | 5 | - | 6.1 | | <1.0 | 2.4 | 4 |
| *Apr-04* | | | 7.8 | <1.0 | 23 | 7.9 | <1 | 2.6 | - | 12 | | 4.1 (2.9) | 2.4 | 4.2 |
| *Oct-04* | | | 6.1 | 1.8 | 23 | 6.4 | 1.7 | 4.1 | - | 7 | | <2.8 | 14 | 8.9 (8.6) |
| *May-05* | | | 9.5 | <2.8 | 19 | 6.4 | <2.8 | <2.8 | - | <2.8 | | <2.8 | <2.8 | 4.6 (4.4) |
| *Nov-05* | | | 6.9 | 6.9 | 18 | 3.4 | <2.8 | 5.6 | - | <2.8 | | <2.8 | 7.2 (3.2) | 5.4 (4.5) |
| *May-06* | | | 6 | <2.8 | 20 | 3.5 | <2.8 | 3.3 | - | 20 | | 0.84 | <2.8 (<2.8) | 5.7 (4.6) |
| *Oct-06* | | | 5.9 | <2.8 | <2.8 | 5.1 | <2.8 | 4 | - | 5.1 | | <2.8 | 3 | 5.2 (4.6) |
| *May-07* | | | 12.9 | 0.531 | 26.6 | 1.13 | 1.34 | 3.23 | - | 3.36 | | 1.11 | 3.04 | 8.59 (5.22) |
| *Oct-07* | | | 12.1 | 0.518 | 30.4 | 4.24 | 2.46 | 5.36 | - | 2.39 | | 0.946 | 4.91 (2.04) | 7.85 (7.33) |
| *May-08* | | | <10 | 0.6 | 24.6 | 4.3 | 1.5 | 3.9 | - | 28.1 | | 1.4 | 5.1 (1.3) | 9.1 (5.6) |
| *Oct-08* | | | 9.4 | 1 | 28.1 | 6.8 | 2.4 | 6.4 | - | 6.8 | | 2.2 | 3.2 | 5.2 (5.1) |
| *May-09* | | | 8.8 | 1.2 | 27.5 | 6.4 | 1.6 | 6.4 | - | 1.6 | | 1.2 | 2.7 (1.3) | 6.2 (7.3) |
| *Nov-09* | | | 6.1 | 1.9 | 29.3 | 8.6 | 2.2 | 2.3 | - | 2.3 | | 1.2 | 4.6 (3.1) | 5.9 (5.2) |
| *Oct-92* | **Selenium** | **0.01** | <0.025 | 0.005 | 0.007 | <0.005 | <0.005 | <0.025 | <0.005 | 0.006 | **0.01** | <0.005 | <0.005 | <0.005 |
| *Jul-96* | | | <0.05 | <0.05 | 0.099 | <0.05 | <0.05 | 0.056 | <0.05 | 0.055 | | 0.099 | 0.067 | 0.066 |
| *Jan-98* | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | | <0.05 | - | <0.05 |
| *Apr-99* | | | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | | <0.002 | <0.002 | <0.002 |
| *Aug-00* | | | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | | <0.002 | <0.002 | - |
| *Dec-01* | | | <0.002 (<0.002) | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | | <0.002 | <0.002 | <0.002 |
| *Apr-04* | | | 0.023 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | - | 0.0026 | | - | - | - |
| *Oct-07* | | | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | - | <0.01 | | - | - | - |
| *Oct-92* | **Silver** | **0.05** | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | **0.05** | <0.01 | <0.01 | <0.01 |
| *Jul-96* | | | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | | 0.065 | <0.01 | <0.01 |
| *Jan-98* | | | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | | <0.01 | - | <0.01 |
| *Apr-99* | | | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | | <0.02 | <0.02 | <0.02 |
| *Aug-00* | | | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | | <0.020 | <0.020 | - |
| *Dec-01* | | | <0.02 (<0.02) | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | | <0.020 | <0.020 | <0.020 |
| *Apr-04* | | | 0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | - | <0.02 | | - | - | - |
| *Oct-07* | | | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | - | <0.001 | | - | - | - |

# TABLE 3
## SUMMARY OF INORGANIC PARAMETERS
## TOWN OF MOREAU LANDFILL

| Sampling Date | Parameter | Monitoring Wells | | | | | | | | | Surface Water Locations | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | GW Standard (1) | EHC-1S (4) | EHC-2S | MW-3(4) | MW-4 | MW-5 | MW-6S | PW-1(2) | DUP (3) | Surface Water Standard (1) | S-1 | S-2 | S-3 |
| *Jan-92* | **Sodium** | **20** | 1,090 | 25 | 201 | 44 | 82 | 65 | 16 | 25 | **NS** | 31 | 153 | 23 |
| *May-92* | | | | 28.6 | 177 | 42.6 | 78.3 | 51 | 14.2 | 28.2 | | 31.4 | 111 | 42.3 |
| *Oct-92* | | | 1,380 | 27 | 201 | 27.2 | 82.8 | 52.4 | 14.2 | 205 | | 33.6 | 142 | 24 |
| *Jan-96* | | | 450 | 14 | 130 | 54 | 37 | 47 | 13 | 130 | | 27 | - | - |
| *Mar-96* | | | 745 | 33.7 | 144 | 75.6 | 59.1 | 58.7 | 18.4 | - | | 35.8 | 33.9 | 72 |
| *May-96* | | | 450 | 30 | 130 | 40 | 50 | 60 | 18 | - | | 40 | 48 | - |
| *Jul-96* | | | 420 | 31 | 130 | 50 | 54 | 61 | 19 | 400 | | 40 | 54 | 60 |
| *Oct-96* | | | 390 | 24 | 71 | 59 | 38 | 53 | 17 | 70 | | 1.3 | 47 | - |
| *Jan-97* | | | 450 | 14 | 130 | 54 | 37 | 47 | 13 | 130 | | 27 | - | - |
| *Apr-97* | | | 180 | 13 | 57 | 23 | 30 | 34 | 14 | 14 | | 25 | 37 | 21 |
| *Jul-97* | | | 300 | 7.3 | 79 | 29 | 33 | 40 | 14 | 89 | | 25 | 42 | - |
| *Oct-97* | | | 380 | 17 | 110 | 65 | 56 | 57 | 18 | 110 | | 37 | 57 | - |
| *Jan-98* | | | 370 | 26 | 130 | 53 | 51 | 44 | 14 | 365 | | 33 | - | 31 |
| *Apr-98* | | | 2,670 | 24.6 | 172 | 64.5 | 53.8 | 69.8 | 16 | 3,520 | | 46.6 | 61 | - |
| *Aug-98* | | | 294.6 | 23.35 | 133.9 | - | 32.14 | - | 14.91 | 8.92 | | 41.22 | 31.57 | - |
| *Nov-98* | | | 293.6 | 14.68 | 157.1 | 51.58 | 44.63 | 59.16 | 19.07 | 11.94 | | 36.89 | 63.72 | - |
| *Feb-99* | | | 3,010 | 20.9 | 163.9 | 55.69 | 42.66 | 39.11 | 15.4 | 22.51 | | 58.98 | 37.16 | - |
| *Apr-99* | | | 2,798 | 29.88 | 162.1 | 40.47 | 42.8 | 38.56 | 20.87 | 2,956 | | 35.59 | 27.89 | 50.07 |
| *Jul-99* | | | 2,332 | 26.95 | 193.3 | 46.05 | 37.27 | 37.46 | 19.19 | 34.41 | | 36.02 | 52.82 | - |
| *Oct-99* | | | 2,358 | 37.8 | 161.4 | 45.53 | 39.66 | 49.07 | 18.7 | 27.98 | | 31.86 | 40.34 | - |
| *Jan-00* | | | 2,826 | 35.75 | 181 | 32.34 | 35.83 | 31.35 | 25.45 | 3024 | | 38.09 | 51.29 | - |
| *May-00* | | | 1,871 | 31.2 | 199.3 | 33.73 | 27.3 | 42.48 | 19.23 | 21.53 | | 36.39 | 26.25 | - |
| *Aug-00* | | | 2,580.8 | 18.9 | 155 | 47 | 30.9 | 44.4 | 21.4 | 29.4 | | 44.7 | 42.2 | - |
| *Oct-00* | | | 229 | 14.9 | 104 | 43.2 | 36 | 51.4 | 32.2 | 246 | | 31.5 | 35.5 | - |
| *Feb-01* | | | 2,913.5 | 20.19 | 160.95 | 48.85 | 36.09 | 40.72 | 37.91 | 25.46 | | 39.56 | - | - |
| *May-01* | | | 3,370 | 15.7 | 193 | 57.2 | 35.7 | 34.9 | 15.4 | 56.4 | | 37.7 | 15.1 | 20.8 |
| *Sep-01* | | | 4,340 | 23.4 | 173 (167) | 40.2 | 33.3 | 31.6 | 23.1 | 38.1 | | 43.2 | 40.6 | 40.7 |
| *Dec-01* | | | 4,210 (4,090) | 27.5 | 170 | 42.3 | 38.1 | 46.9 | 27.7 | 43.1 | | 38.8 | 34.9 | 48.8 |
| *Mar-02* | | | 4,580 (5,360) | 31 | 177 | 55 | 34.2 | 34.5 | - | 179 | | 36.4 | 6.4 | 29.4 |
| *Oct-02* | | | 4,020 (3,630) | 27.1 | 14.6 | 63.1 | 32.6 | 30.4 | - | 29 | | 46 | 28.9 | 27.5 |
| *May-03* | | | 4,100 (3,810) | 34.6 | 94.7 | 45.6 | 31.7 | 26.8 | - | 30.7 | | 45.2 | 4.6 | 15 |
| *Nov-03* | | | 5,300 (4,900) | 6.4 | 94 | 46 | 36 | 31 | - | 48 | | 43 | 8 | 22 |
| *Apr-04* | | | 6,500 | 22 | 140 | 52 | 27 | 19 | - | 130 | | 68 (60) | 2.8 | 13 |

# TABLE 3
## SUMMARY OF INORGANIC PARAMETERS
## TOWN OF MOREAU LANDFILL

| Sampling Date | Parameter | Monitoring Wells | | | | | | | | | Surface Water Locations | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | GW Standard (1) | EHC-1S (4) | EHC-2S | MW-3(4) | MW-4 | MW-5 | MW-6S | PW-1(2) | DUP (3) | Surface Water Standard (1) | S-1 | S-2 | S-3 |
| *Oct-04* | **Sodium** | 20 | 1,800 | 8.3 | 95 | 36 | 29 | 23 | - | 37 | NS | 42 | 16 | 26 (25) |
| *May-05* | **Cont'd** | | 44 | 16 | 110 | 41 | 25 | 16 | - | 16 | | 47 | 2.4 | 17 (17) |
| *Nov-05* | | | 8,000 | 21 | 93 | 37 | 34 | 27 | - | 33.8 | | 40 | 6.8 (5.9) | 12 (12) |
| *May-06* | | | 480 | 11 | 100 | 34 | 22 | 20 | - | 98 | | 48 | 7.1 (7) | 11 (9.2) |
| *Oct-06* | | | 480 | 13 | 110 | 37 | 32 | 16 | - | 36 | | 45 | 3.8 | 7.9 (7.8) |
| *May-07* | | | 4,200 | 14.7 | 105 | 20.7 | 24.4 | 12.6 | - | 12.8 | | 43.5 | 11.2 | 15.2 (11.8) |
| *Oct-07* | | | 3,790 | 10.9 | 116 | 55.7 | 39.3 | 21.1 | - | 38.9 | | 31.5 | 16.2 (18.1) | 18.2 (21.2) |
| *May-08* | | | 2,180 | 10.9 | 97.5 | 54.2 | 18.0 | 15.2 | - | 89.6 | | 48.6 | 10.8 (9.12) | 18.2 (14.9) |
| *Oct-08* | | | 2,190 | 19.4 | 105 | 45.8 | 30.3 | 27 | - | 45.9 | | 42.7 | 4 | 11.6 (10.4) |
| *May-09* | | | 2,830 | 26.8 | 97.9 | 43.8 | 22.7 | 25.2 | - | 22.6 | | 42.7 | 9.4 (9.12) | 14.6 (19.9) |
| *Nov-09* | | | 1,800 | 27.7 | 100 | 49.0 | 27.0 | 11.1 | - | 11.4 | | 40.4 | 5.1 (4.48) | 16.3 (15.8) |
| *Oct-92* | **Thallium** | 0.0005* | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.0005* | <0.01 | <0.01 | <0.01 |
| *Jul-96* | | | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | | <0.03 | <0.03 | <0.03 |
| *Jan-98* | | | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | | <0.03 | - | <0.03 |
| *Apr-99* | | | <0.001 | <0.001 | 0.0031 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | | <0.001 | <0.001 | 0.0011 |
| *Aug-00* | | | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | | <0.001 | <0.001 | - |
| *Dec-01* | | | <0.001 (<0.001) | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | | <0.001 | <0.001 | <0.001 |
| *Apr-04* | | | 0.01 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | - | <0.001 | | - | - | - |
| *Oct-07* | | | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | - | <0.002 | | - | - | - |
| *Oct-92* | **Zinc** | 2.0 * | 0.043 | 0.024 | 0.061 | 0.02 | 0.031 | <0.02 | <0.02 | 0.121 | 2.0* | 0.033 | <0.02 | 0.123 |
| *Jul-96* | | | <0.07 | 31 | <0.07 | <0.07 | <0.07 | <0.07 | <0.07 | <0.07 | | <0.07 | <0.07 | 0.61 |
| *Jan-98* | | | 0.043 | 0.021 | 0.069 | 0.058 | 0.027 | 0.015 | 0.045 | 0.028 | | 0.073 | - | 20 |
| *Apr-99* | | | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | | 0.016 | <0.01 | 0.787 |
| *Aug-00* | | | 0.082 | 0.145 | 0.08 | 0.065 | 0.07 | 0.065 | 0.223 | 0.105 | | 0.073 | 0.109 | - |
| *Dec-01* | | | 0.104 (0.092) | 0.044 | 0.069 | 0.049 | 0.063 | 0.053 | 0.056 | 0.054 | | 0.061 | 0.085 | 0.274 |
| *Apr-04* | | | 0.11 | 0.067 | 0.14 | 0.087 | 0.094 | 0.081 | - | 0.12 | | - | - | - |
| *Oct-07* | | | 0.013 | 0.005 | 0.006 | 0.005 | 0.006 | 0.008 | - | 0.006 | | - | - | - |

# TABLE 3
## SUMMARY OF INORGANIC PARAMETERS
## TOWN OF MOREAU LANDFILL

| Sampling Date | Parameter | Monitoring Wells | | | | | | | | | Surface Water Locations | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | GW Standard (1) | EHC-1S (4) | EHC-2S | MW-3(4) | MW-4 | MW-5 | MW-6S | PW-1(2) | DUP (3) | Surface Water Standard (1) | S-1 | S-2 | S-3 |

Notes:

All results in mg/l.

The 1992 and 1996 through 2000 results were provided by the Town of Moreau.

* Indicates Guidance Value.

(1) 6NYCRR Part 703 Surface Water and Groundwater Quality Standards and Groundwater Effluent Standards; and TOGS 1.1.1 Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, October 22, 1993, Re-issued June 1998 and Addenda dated April 2000 and June 2004.

(2) Public water supply groundwater production well. For 1992 results, identified as PW-2+3.

(3) Duplicates taken as follows: 5/96, 7/96, 1/98, 4/98, 4/99, 4/00 and 10/00 at EHC-1S; 1/92, 5/92, 4/97, 8/98, 11/98, 1/99, 1/00, 8/00 and 11/00 at EHC-2S; 10/92, 3/96, 10/96, 1/97, 7/97, 3/02, 4/04, 5/06 and 5/08 at MW-3; 5/01, 9/01, 12/01, 11/03, 10/04, 10/06 and 10/08 at MW-4; 10/98, 2/99, 7/99, 10/99, 2/01, 5/03, 11/05, 10/07 and 5-09 at MW-5; 10/02, 5/05, 5/07 and 11/09 at MW-6S; and unknown location for 10/97.

(4) Results enclosed in parantheses are filtered metals.

# TABLE 4
## SUMMARY OF POLYCHLORINATED BIPHENYL COMPOUNDS
## TOWN OF MOREAU LANDFILL

| Sampling Date | Parameter | Monitoring Wells | | | | | | | | Surface Water Locations | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | GW Standard [1] | EHC-1S | EHC-2S | MW-3 | MW-4 | MW-5 | MW-6S | PW-1[2] | DUP [3] | Surface Water Standard [1] | S-1 | S-2 | S-3 |
| *Mar-96* | PCBs | 0.09 | - | - | <0.5 | <0.5 | <0.5 | <0.5 | - | - | 0.00012 | - | <0.5 | <0.5 |
| *Apr-97* | | | - | - | <0.1 | <0.1 | <0.1 | <0.1 | - | - | | - | <0.1 | <0.1 |
| *Apr-98* | | | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | | <0.1 | <0.1 | <0.1 |
| *Apr-99* | | | ND | ND | ND | ND | ND | ND | ND | ND | | ND | ND | ND |
| *Dec-01* | | | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | | <0.1 | <0.1 | <0.1 |
| *Oct-02* | | | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | | <0.1 | <0.1 | <0.1 |
| *May-03* | | | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | | <0.1 | <0.1 | <0.1 |
| *Apr-04* | | | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | | <0.1 | <0.1 | <0.1 |
| *Nov-05* | | | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | | <0.5 | <0.5 | <0.5 |
| *May-06* | | | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | | <0.5 | <0.5 | <0.5 |
| *Oct-07* | | | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | | <0.5 | <0.5 | <0.5 |
| *May-08* | | | <0.50 | <0.50 | <0.50 | <0.52 | <0.50 | <0.52 | - | <0.50 | | <0.52 | <0.52 | <0.51 |
| | | | <0.50 | <0.52 | <0.53 | <0.50 | <0.50 | <0.50 | - | <0.52 | | <0.53 | <0.53 | <0.52 |

All data in µg/l.

ND is not detected.

The 1996 through 1999 results were provided by the Town of Moreau.

[1] 6NYCRR Part 703 Surface Water and Groundwater Quality Standards and Groundwater Effluent Standards; and TOGS 1.1.1 Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, October 22, 1993, Re-issued June 1998 and Addenda dated April 2000 and June 2004.

[2] Public water supply groundwater production well.

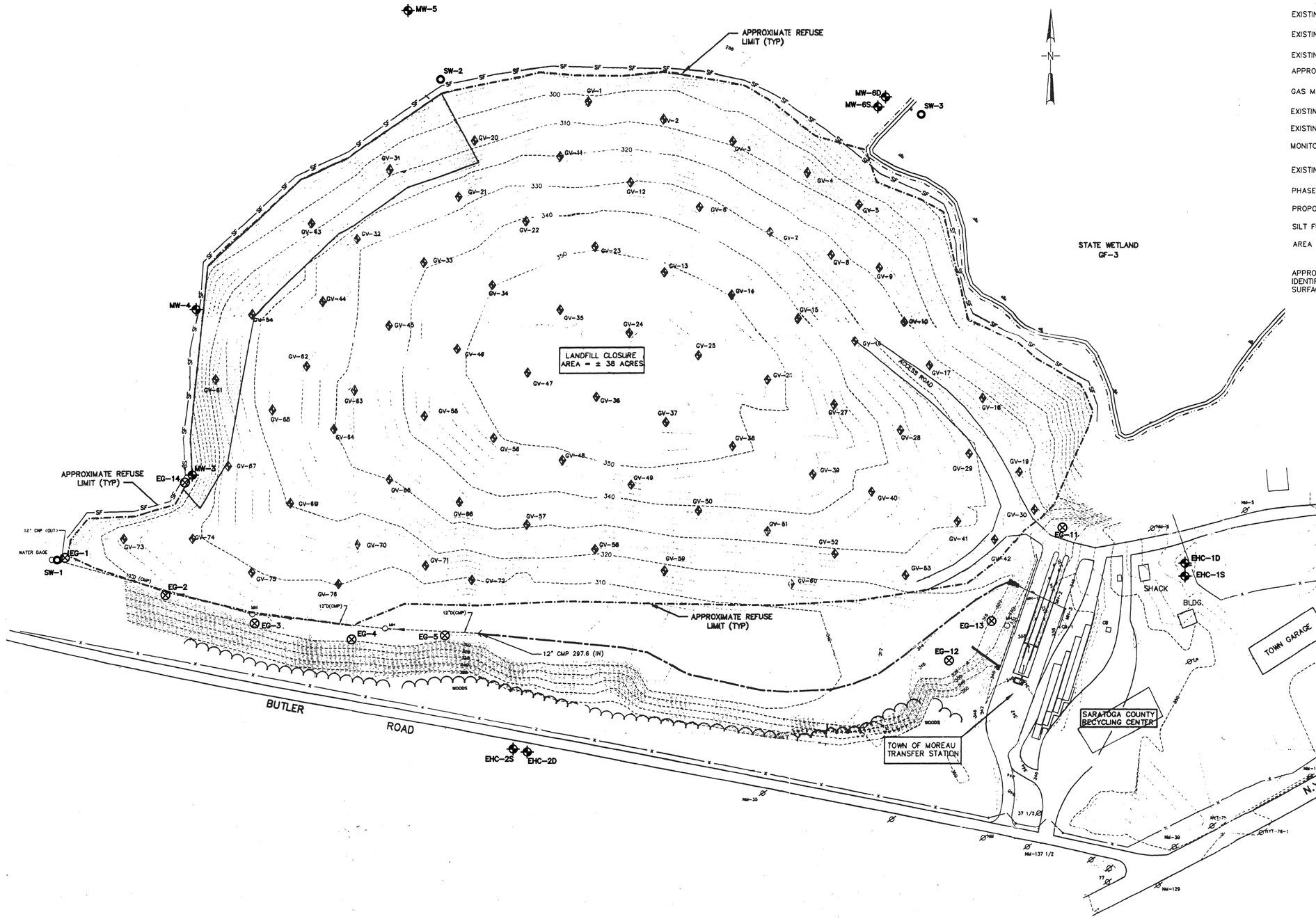
[3] Duplicates taken as follows: 10/92, 4/04, 5/06 and 5/08 at MW-3; 7/96, 1/98 and 4/99 at EHC-1S; 4/97 at EHC-2S; 12/01 at MW-4; 5/03, 11/0510/07 at MW-5; and 10/02 and 11/09 at MW-6S.

# FIGURES

## SITE PLAN MAP
## TOWN OF MOREAU LANDFILL

NO XREFS

PROJECT NUMBER: 01.7116




## LEGEND

- EXISTING CONTOURS (MAY 20,1997) — 200
- EXISTING GAS VENT — GV-8
- EXISTING FENCE
- APPROXIMATE LIMIT OF REFUSE
- GAS MONITORING POINT — EG-14
- EXISTING TREE LINE
- EXISTING POWER POLE — POLE Ø
- MONITORING WELL — EHC-1D
- EXISTING MANHOLE — MH
- PHASED CLOSURE LIMIT LINE
- PROPOSED DITCH
- SILT FENCE
- AREA WITH GEOCOMPOSITE
- APPROXIMATE LOCATION AND IDENTIFICATION NUMBER OF SURFACE WATER SAMPLE — SW-1

## ABBREVIATIONS

| | |
|---|---|
| GV | GAS VENT |
| BLDG. | BUILDING |
| ℄ | CENTERLINE |
| I.P. | IRON PIPE |
| MW/ECH | MONITORING WELL |
| LP | LIGHT POLE |
| CMP | CORRUGATED METAL PIPE |
| TBM | TEMPORARY BENCHMARK |
| ELEV. | ELEVATION |
| PT. | POINT |
| NO. | NUMBER |
| MIN. | MINIMUM |
| MAX. | MAXIMUM |
| TYP | TYPICAL |

C.T. MALE ADDITIONAL NOTES:
1.) THE LOCATIONS AND FEATURES DEPICTED ON THIS MAP ARE APPROXIMATE AND DO NOT REPRESENT AN ACTUAL FIELD SURVEY.

MAP REFERENCE:
1.) BASE MAP PREPARED BY STEARNS & WHELER, LLC. ENVIRONMENTAL ENGINEERS & SCIENTISTS, PROPOSED SITE PLAN/LANDFILL CLOSURE PLAN, LASTEST REVISION 7/2/98, JOB NUMBER 70011PA, DRAWING NAME 30B2G-1.

| DATE | | REVISIONS RECORD/DESCRIPTION | DRAFTER | CHECK | APPR. |
|---|---|---|---|---|---|
| | 1 | | | | |
| | 2 | | | | |
| | 3 | | | | |
| | 4 | | | | |
| | 5 | | | | |
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| | 7 | | | | |
| | 8 | | | | |
| | 9 | | | | |

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DESIGNED :
DRAFTED : JAM
CHECKED : EWR
PROJ. NO : 01.7116
SCALE : 1"=100'±
DATE : 11/21/02

# SITE PLAN MAP

## TOWN OF MOREAU LANDFILL

TOWN OF MOREAU — WARREN COUNTY, NEW YORK

C.T. MALE ASSOCIATES, P.C.
50 CENTURY HILL DRIVE, P.O. BOX 727, LATHAM, NY 12110
518.786.7400 * FAX 518.786.7299
ARCHITECTURE & BUILDING SYSTEMS ENGINEERING * CIVIL ENGINEERING
ENVIRONMENTAL SERVICES * SURVEY & LAND INFORMATION SERVICES

SHEET 1 OF 1
DWG. NO: 02-657

CAD DWG. FILE NAME: CTM_SITE PLAN.DWG

# APPENDIX A

# ENVIRONMENTAL SERVICES FIELD LOGS, GROUNDWATER SAMPLING LOGS, STREAM WATER SAMPLING LOGS, INSPECTION OF LANDFILL FORMS AND EXPLOSIVE GAS SAMPLING FORM

C.T. MALE ASSOCIATES, P.C.



# Environmental Services Field Log

Date: 9/10/04 Time On-Site: 800 Time Off-Site: 1600

Project Name: Morey Landfill Project No.: 01.7116

Purpose: Explosive gas monitoring, landfill inspection Field Report No:

Weather Conditions: Sunny, 70°F

Present at Site: Dan Autry

Observations:

Arrive on site. Calibrate 4 gas meter to manufacturers specs. LEL, $H_2S$ calibrate OK. $O_2$ sensor not working. Use following procedure to perform explosive gas monitoring of wells and gas monitoring points:

- Remove PVC cap, insert probe into PVC, and record $H_2S$ + LEL.
- Remove probe, leave cap off for ~30 minutes.
- Replace cap, leave on for ~60 minutes.
- Remove cap insert probe into PVC, and record $H_2S$ + LEL.
- Replace cap, lock wells.

Begin landfill inspection. In general the landfill is in good condition. Vegetation is 6-12" tall, well established.

No gas bubbles were observed.
No animal burrows were observed.

The following bare spots were noted:

6'x6' around GU-33
6'x6' around GU-66
4'x4' around GU-36
6'x6' around GU-52

Items to Verify:

List of Attachments:

Field Log Prepared by: Dan Autry

Copies to:

# Environmental Services Field Log 9/10/98

(continued)

Project Name: Morey Landfill Project No.: 01.7116

Observations:

The following erosion areas were noted:

- Large area west of GV-67. Previously noted to be approx. 15'x15'x1.5' deep. Due to this area of the landfill not being mowed, the exact size and condition of this erosion area could not be observed.
- Large area east of GV-19. Previously noted to be approx. 15'x15'x1' deep. Due to this area of the landfill not being mowed, the exact size and condition of this erosion area could not be observed.
- Several small vegetated erosion channels (10'x1'x6" deep) by GV-56.
- Small vegetated erosion channels (3'x1'x6") deep by GV-20 and GV-31.

Gas vents GV-2-4, GV-2-11 and GV-2-17 could not be located.

Gas vents GV-EE, GV-MM, GV-A6, GV-46 and GV-2-2 were noted to be broken at the base of the vent, and were laying on the ground, or leaning severely.

Several other vents were leaning, see gas vent listing for condition of all vents.

All monitoring wells + gas monitoring points in good condition. MW-4 has no lock.

Beaver dam along south side of landfill has a channel cut in center, allowing water to flow over it.

Inspection complete. Off site.

C.T. MALE ASSOCIATES, P.C.

Town of Moreau Landfill Inspection
Gas Vent Listing and Associated Comments

Date: 9/10/09

| Gas Vent ID | Notes | Gas Vent ID | Notes | Gas Vent ID | Notes | 2" Gas Vent ID | Notes |
|---|---|---|---|---|---|---|---|
| 73 | | A1 | Slight lean | SS | | 2-1* | |
| 43 | | A5 | Leaning | T | | 2-2* | Broken at base |
| 31 | Leaning | A6 | Broken at Base | 15 | | 2-3* | |
| 20 | | A7 | | QQ | | 2-4 | Missing |
| 1 | Leaning | 44 | Slight lean | PP | | 2-5 | Bubbling |
| 2 | | O | | 26 | | 2-6 | Leaning |
| 3 | | 54 | | JJ | | 2-7 | |
| 4 | | 62 | Slight lean | 27 | | 2-8 | Bubbling |
| 5 | | R | | II | | 2-9 | |
| 30 | | 61 | | 28 | | 2-10 | Leaning |
| 19 | | A8 | | FF | | 2-11 | Missing |
| 29 | | 68 | | BB | | 2-12 | Bubbling |
| CC | | A8A | | AA | | 2-13 | Bubbling |
| 18 | | A9 | | 42 | | 2-14 | |
| EE | Broken at base | 67 | | 41 | | 2-15# | |
| DD | | 74 | | 40 | | 2-16# | |
| GG | | 69 | Slight lean | 39 | Slight lean | 2-17* | Missing |
| 17 | | A12 | | A23 | | 2-18# | |
| P | | 75 | | 51 | | 2-19 | |
| HH | | A13 | | A22 | | 2-20 | |
| 10 | | A14 | Slight lean | 38 | Leaning | 2-21 | |
| 16 | Leaning | 76 | | E | | 2-22 | |
| KK | | 70 | | A21 | | 2-23 | |
| LL | | A15 | | 99 | | 2-24 | |
| MM | Broken at base | L | | 37 | | 2-25 | |
| NN | | A16 | | A20 | | 2-56 | |
| Q | | M | | 36 | Bubbling Bare ground (4'x4') | A-18A# | |
| 9 | | 71 | | A17 | | A-18B | |
| OO | | 66 | Bare ground (6'x6') | A18 | | | |
| 8 | | 72 | Slight lean | A19 | | | |
| RR | | 65 | | 48 | | | |
| 7 | Leaning | N | | 47 | | | |
| 14 | Leaning | A11 | | K | | | |
| 13 | Slight lean | 64 | | 46 | Broken at base | | |
| 6 | | A10 | | J | | | |
| 12 | Leaning | U | | 55 | | | |
| 11 | Slight lean | 63 | Bubbling | 56 | | | |
| 23 | Leaning | 45 | Leaning | 57 | Slight lean | | |
| 22 | Leaning | A4 | | 58 | | | |
| UU | Slight lean | 34 | | 49 | | | |
| VV | | WW | | D | | | |
| XX | | 35 | Slight lean | C | | | |
| YY | Leaning | I | | 50 | | | |
| 21 | Slight lean | H | | B | | | |
| A3 | | 24 | Leaning | B51 | | | |
| A2 | | S | | 60 | Leaning | | |
| 33 | Bare ground (6'x6') | G | | 52 | Bare ground (6'x6') | | |
| ZZ | | TT | | A | | | |
| 32 | | 25 | | 53 | Slight lean | | |

Vent OK unless noted

Key: B = Bubbling
D = Dripping
L = Leaning
M = Missing

* = 1.5" pipe
# = 1.25" pipe

# INSPECTION OF LANDFILL
# POST-CLOSURE MAINTENANCE INSPECTION FORM

Landfill Cap Integrity

1. Damage to integrity: none observed

Erosion: see field notes

Animal burrows: none observed

Ponding: none observed

Leachate seeps: none observed

2. Description of vegetative cover: well established, 6-12" tall

Inspection of Structures

1. Monitoring wells

| Well Number | Condition and Recommendation |
|---|---|
| MW-3 | good |
| MW-4 | (no locks) |
| MW-5 | |
| MW-6S | |
| MW-6D | |
| EWC-1S | |
| EWC-1D | |
| EWC-2S | |
| EWC-2D | |
| | All wells have PVC caps |
| | |
| | |
| | |
| | |

INSPECTION OF LANDFILL
POST CLOSURE MAINTENANCE INSPECTION FORM
*(continued)*

2. Gas Venting Structures in Need of Repair

| Vent Location | Condition and Recommendation |
|---|---|
| | See gas vent listing for vent conditions |
| | |
| | |
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General Comments: Landfill is generally in good condition. Vegetation is well established. See field notes for additional info.

## POST CLOSURE MONITORING AND MAINTENANCE
## EXPLOSIVE GAS SAMPLING FORM

Proj. No. 01.7116 Date: 9/10/09 Pg. 1 of 3

Project: Moreau Landfill

Weather/Temperature/Wind: Sunny, 70°F, light breeze

Equipment Used: MiniRAE PGM 50 4P Date Calibrated: 9/10/09 By: DA

Sampling Collection Methods:

Sampling Personnel: Dan Autyl

| Sample ID | Method | Location | Depth | % O2 | % LEL | Hydrogen Sulfide | |
|---|---|---|---|---|---|---|---|
| Initial Gas Monitoring Points | | EG-1 | | — | 0 | 0 | |
| | | EG-2 | | — | 0 | 0 | |
| | | EG-3 | | — | 0 | 0 | |
| | | EG-4 | | — | 0 | 0 | |
| | | EG-5 | | — | 0 | 0 | |
| | | EG-11 | | — | 7 | 0 | |
| | | EG-12 | | — | 0 | 0 | |
| | | EG-14 | | — | 0 | 0 | |
| | | EG-15 | | — | 0 | 0 | 70' east of EG-11 |
| Initial Monitoring Wells | | MW-3 | | — | 53 | 0 | |
| | | MW-4 | | — | 0 | 0 | |
| | | MW-5 | | — | 0 | 0 | |
| | | MW-6S | | — | 0 | 0 | |
| | | MW-6D | | — | 0 | 0 | |
| | | ENC-1S | | — | 0 | 0 | |
| | | ENC-1D | | — | 0 | 0 | |
| | | ENC-2S | | — | 0 | 0 | |
| | | ENC-2D | | — | 0 | 0 | |

**POST CLOSURE MONITORING AND MAINTENANCE**
**EXPLOSIVE GAS SAMPLING FORM**

Proj. No. 01.7116 Date: 9/10/09 Pg. 2 of 3
Project: Moreau Landfill
Weather/Temperature/Wind:
Equipment Used: MiniRAE PGM 50 4B Date Calibrated: 9/10/09 By: DA
Sampling Collection Methods:
Sampling Personnel: Dan Achtyl

| Sample ID | Method | Location | Depth | % O2 | % LEL | Hydrogen Sulfide | |
|---|---|---|---|---|---|---|---|
| Gas Monitoring Points | | EG-1 | | — | 0 | 0 | |
| | | EG-2 | | — | 0 | 0 | |
| | | EG-3 | | — | 0 | 0 | |
| | | EG-4 | | — | 0 | 0 | |
| | | EG-5 | | — | 0 | 0 | |
| | | EG-11 | | — | 8 | 0 | |
| | | EG-12 | | — | 0 | 0 | |
| | | EG-14 | | — | 0 | 0 | |
| | | EG-15 | | — | 0 | 0 | 20' east of EG-11 |
| Monitoring Wells | | MW-3 | | — | >100 | 0 | |
| | | MW-4 | | — | 0 | 0 | |
| | | MW-5 | | — | 0 | 0 | |
| | | MW-6S | | — | 0 | 0 | |
| | | MW-6D | | — | 0 | 0 | |
| | | ENC-1S | | — | 0 | 0 | |
| | | ENC-1D | | — | 0 | 0 | |
| | | ENC-2S | | — | 0 | 0 | |
| | | ENC-2D | | — | 0 | 0 | |

## POST CLOSURE MONITORING AND MAINTENANCE
## EXPLOSIVE GAS SAMPLING FORM

Proj. No. 01.7116 Date: 9/10/09 Pg. 3 of 3

Project: Moresy Landfill

Weather/Temperature/Wind: Sunny 70°F, light breeze

Equipment Used: MiniRAE PGM 50 49 Date Calibrated: 9/10/09 By: DN

Sampling Collection Methods:

Sampling Personnel: Dan Achtyl

| Sample ID | Method | Location | Depth | % O2 | % LEL | Hydrogen Sulfide |
|---|---|---|---|---|---|---|
| Buildings | | Town Scalehouse | Floor | — | 0 | 0 |
| | | | Breathing Zone | — | 0 | 0 |
| | | Town Recycling | Floor | — | 0 | 0 |
| | | | Breathing Zone | — | 0 | 0 |
| | | County Recycling | Floor | — | 0 | 0 |
| | | | Breathing Zone | — | 0 | 0 |
| | | | | | | |
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C.T. MALE ASSOCIATES, P.C.



# Environmental Services Field Log

Date: 11/3/09 Time On-Site: 830 Time Off-Site: 1430

Project Name: Moreau Landfill Project No.: 01.7116

Purpose: Sample GW Field Report No:

Weather Conditions: Cloudy, 50°F

Present at Site: Dan Achtyl

Observations:

Arrive on site, calibrate field parameter equipment to manufacturers specs. Use the following procedure to purge + sample each well: Place poly gravel well with hole in center to access well. Wearing new gloves, open well and measure static water level with decon'ed water level meter (potable water w/ Alconox wash, DI rinse) Using a new disposable bailer and new string, purge 3 well volumes into a 5 gallon graduated bucket, noting color, odor, sheen (if any). After purging complete, discharge purge water adjacent to well.

Allow well to recharge, checking recovery height with decon'ed water level meter, then using bailer from purging collect a small amount of water to measure field parameters (pH, cond, temp, redox, turb) then fill sample containers in order of decreasing volatility, and place in cooler with bagged ice. Cap and close well.

FD-1 taken at MW-6S by splitting volume of each bailer evenly between both sets of containers.

Off site, samples hand delivered to Phoenix Labs field office.

Items to Verify:

List of Attachments: GW logs, COC

Field Log Prepared by:

Copies to:

# Groundwater Services Field Log

DATE: 11/3/09 PROJECT NAME: Moreau Landfill

PROJECT NO.: 01.7116 PROJECT LOCATION: Moreau, NY

SAMPLING PERSONNEL: Dan Achtyl

MONITORING WELL ID#: MW-3 NOTES TAKEN BY: Dan Achtyl

DEPTH TO WATER: 5.40' FROM: TOC BAILER ID:

DEPTH TO BOTTOM: 24.00' FROM: TOC BAILER: (NEW DISPOSABLE)

WATER COLUMN HEIGHT: 18.60' BAILER: STAINLESS STEEL

OTHER

CONVERSION FACTORS LINEAR FEET TO GALLONS

WELL CASING DIAMETER

1" = 0.041 GALLONS 3" = 0.38 GALLONS

(1.25") = 0.064 GALLONS 4" = 0.66 GALLONS

2" = 0.16 GALLONS 6" = 1.47 GALLONS

WELL VOLUME: 1.19 GALLONS

VOLUMES PURGED: 3.75 GALLONS PURGE METHOD: hand bail

TIME STARTED: 900 ; TIME FINISHED: 940

OBSERVATIONS: COLOR clear ; ODOR none

SHEEN none ; TURBIDITY 4.17 NTU

OTHER Redox 189.3mV

WATER RECOVERY HEIGHT: 5.40' ; RECOVERY TIME IN MINUTES: 5

FIELD PARAMETERS: pH 6.81 SU , TEMPERATURE 8.3 °C

CONDUCTIVITY 771 µs OTHER

SAMPLE COLLECTION TIME: 945

NOTES: Samples collected for part 360 routine parameters + PCBs.

# Groundwater Services Field Log

DATE: 11/3/09 PROJECT NAME: Moreau Landfill

PROJECT NO.: 01.7116 PROJECT LOCATION: Moreau, NY

SAMPLING PERSONNEL: Dan Achtyl

MONITORING WELL ID#: MW-4 NOTES TAKEN BY: Dan Achtyl

DEPTH TO WATER: 3.03' FROM: TOC BAILER ID:

DEPTH TO BOTTOM: 24.91' FROM: TOC BAILER: (NEW DISPOSABLE)

WATER COLUMN HEIGHT: 21.88' BAILER: STAINLESS STEEL

OTHER

CONVERSION FACTORS LINEAR FEET TO GALLONS

WELL CASING DIAMETER

1" = 0.041 GALLONS 3" = 0.38 GALLONS

(1.25") = 0.064 GALLONS 4" = 0.66 GALLONS

2" = 0.16 GALLONS 6" = 1.47 GALLONS

WELL VOLUME: 1.40 GALLONS

VOLUMES PURGED: 4.25 GALLONS PURGE METHOD: hand bail

TIME STARTED: 1015 ; TIME FINISHED: 1050

OBSERVATIONS: COLOR clear ; ODOR none

SHEEN none ; TURBIDITY 9.20 NTU

OTHER Redox 191.5 mV

WATER RECOVERY HEIGHT: 3.03' ; RECOVERY TIME IN MINUTES: 5

FIELD PARAMETERS: pH 7.55 SU , TEMPERATURE 8.3 °C

CONDUCTIVITY 601 µs OTHER

SAMPLE COLLECTION TIME: 1055

NOTES: Samples collected for part 360 routine parameters + PCBs.

# Groundwater Services Field Log

DATE: 11/3/09 PROJECT NAME: Moreau Landfill

PROJECT NO.: 01.7116 PROJECT LOCATION: Moreau, NY

SAMPLING PERSONNEL: Dan Achtyl

MONITORING WELL ID#: MW-5 NOTES TAKEN BY: Dan Achtyl

DEPTH TO WATER: 4.28' FROM: TOC BAILER ID:

DEPTH TO BOTTOM: 16.90' FROM: TOC BAILER: (NEW DISPOSABLE)

WATER COLUMN HEIGHT: 12.62' BAILER: STAINLESS STEEL

OTHER

CONVERSION FACTORS LINEAR FEET TO GALLONS

| | |
|---|---|
| 1" = 0.041 GALLONS | 3" = 0.38 GALLONS |
| 1.25" = 0.064 GALLONS | 4" = 0.66 GALLONS |
| (2") = 0.16 GALLONS | 6" = 1.47 GALLONS |

WELL CASING DIAMETER

WELL VOLUME: 2.02 GALLONS

VOLUMES PURGED: 6.5 GALLONS PURGE METHOD: hand bail

TIME STARTED: 1200 ; TIME FINISHED: 1210

OBSERVATIONS: COLOR red to clear ; ODOR none

SHEEN none ; TURBIDITY 16.3 NTU

OTHER redox 188.8 mV

WATER RECOVERY HEIGHT: 4.28' ; RECOVERY TIME IN MINUTES: 5

FIELD PARAMETERS: pH 7.53 SU , TEMPERATURE 6.1 °C

CONDUCTIVITY 380 µs OTHER

SAMPLE COLLECTION TIME: 1215

NOTES: Samples collected for part 360 routine parameters + PCBs.

# Groundwater Services Field Log

DATE: 11/3/09 PROJECT NAME: Moreau Landfill

PROJECT NO.: 01.7116 PROJECT LOCATION: Moreau, NY

SAMPLING PERSONNEL: Dan Achtyl

MONITORING WELL ID#: MW-65 NOTES TAKEN BY: Dan Achtyl

DEPTH TO WATER: 3.05' FROM: TOC BAILER ID:

DEPTH TO BOTTOM: 24.25' FROM: TOC BAILER: (NEW DISPOSABLE)

WATER COLUMN HEIGHT: 21.20' BAILER: STAINLESS STEEL

OTHER

CONVERSION FACTORS LINEAR FEET TO GALLONS

| | |
|---|---|
| 1" = 0.041 GALLONS | 3" = 0.38 GALLONS |
| (1.25") = 0.064 GALLONS | 4" = 0.66 GALLONS |
| 2" = 0.16 GALLONS | 6" = 1.47 GALLONS |

WELL CASING DIAMETER

WELL VOLUME: 1.36 GALLONS

VOLUMES PURGED: 4.25 GALLONS PURGE METHOD: hand bail

TIME STARTED: 1315 ; TIME FINISHED: 1345

OBSERVATIONS: COLOR clear ; ODOR none

SHEEN none ; TURBIDITY 8.63 NTU

OTHER Redox 190.2 mV

WATER RECOVERY HEIGHT: 3.05' ; RECOVERY TIME IN MINUTES: 5

FIELD PARAMETERS: pH 7.23 SU , TEMPERATURE 8.4 °C

CONDUCTIVITY 495 µs OTHER

SAMPLE COLLECTION TIME: 1350

NOTES: Samples collected for part 360 routine parameters + PCBs. FD-1 collected here given blind time of 1300

# PHOENIX
*Environmental Laboratories, Inc.*

## CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: service@phoenixlabs.com Fax (860) 645-0823
**Client Services (860) 645-8726**

Temp Pg 1 of 1

**Data Delivery:**
☐ Fax #: _____
☐ Email: _____

Customer: C.T. Male Associates, P.C.
Address: 50 Century Hill Dr
Latham, NY 12110

Project: Moreau Landfill
Report to: Liz Rovers
Invoice to: Liz Rovers

Project P.O: 01.7116
Phone #: 518 786 7400
Fax #: 518 786 7299

**Client Sample - Information - Identification**

Sampler's Signature: Dan Achtyl Date: 11/3/08

**Matrix Code:**
DW=drinking water WW=wastewater S=soil/solid O=other
GW=groundwater SL=sludge A=air

Analysis Request

| Phoenix Sample # | Customer Sample Identification | Sample Matrix | Date Sampled | Time Sampled | Part 360 Routine Parameters | PCBs | Soil VOA [ ] Methanol [ ] S. Bisulfate [ ] H2O | GL Soil container ( ) oz | GL Soil container (4 oz) | 40 ml VOA Vial [ ] As is [ ] HCl | GL Amber 1000ml [X] As is [ ] H2SO4 | PL As is [ ] 250ml [X] 500ml [ ] 1000ml | PL H2SO4 [ ] 250ml [X] 500ml | PL HNO3 250ml | PL NaOH 250ml | Bacteria Bottle |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MW-3 | GW | 11/3/08 | 945 | X | X | | | 1 | | 1 | 1 | 1 | 1 | | |
| | MW-4 | ↓ | ↓ | 1055 | X | X | | | 1 | | 1 | 1 | 1 | 1 | | |
| | MW-5 | | | 1215 | X | X | | | 1 | | 1 | 1 | 1 | 1 | | |
| | MW-6S | | | 1350 | X | X | | | 1 | | 1 | 1 | 1 | 1 | | |
| | FD-1 | | | 1300 | X | X | | | 1 | | 1 | 1 | 1 | 1 | | |

| Relinquished by: | Accepted by: | Date: | Time: |
|---|---|---|---|
| | | 11/3/08 | 1530 |

Comments, Special Requirements or Regulations:
Part 360 Routine Parameters (effective 12/21/88, revised 5/28/91)

**Turnaround:**
☐ 1 Day*
☐ 2 Days*
☐ 3 Days*
☒ Standard
☐ Other

* SURCHARGE APPLIES

**CT/RI**
☐ RCP Cert.
☐ GW Protect.
☐ GA Mobility
☐ GB Mobility
☐ SW Protect.
☐ Res. Vol.
☐ Ind. Vol.
☐ Res. Criteria
☐ Other

**MA**
☐ MCP Cert.
☐ GW-1
☐ GW-2
☐ GW-3
☐ S-1
☐ S-2
☐ S-3
☐ MWRA eSMART
☐ Other

**State where samples were collected:** NY

**Data Format**
☐ Excel
☐ PDF
☐ GIS/Key
☐ EQuIS
☐ Other _____

**Data Package**
☐ ASP-A
☐ NJ Reduced Deliv. *
☐ NJ Hazsite EDD
☐ Phoenix Std Report
☐ Other

C.T. MALE ASSOCIATES, P.C.



# Environmental Services Field Log

Date: 11/4/09 Time On-Site: 830 Time Off-Site: 1500

Project Name: Moreau Landfill Project No.: 01.7116

Purpose: Cursory landfill inspection, sample GW, SW Field Report No:

Weather Conditions: Partly cloudy, 50°F

Present at Site: Dan Ashly

Observations:

Arrive on site, begin cursory landfill inspection. In general the landfill is in good condition

Bare spots, erosion areas, and animal burrows similar to conditions during 9/10/09 inspection.

No gas bubbles or damage to integrity noted.

A few small 1'x1' areas of ponded water noted on landfill surface by GV-41.

GV-EE, GV-MM, GV-A6, GV-Z-2 were damaged, and are in need of repair. GV-46 was put back in place does not appear to need further repair.

All wells in good condition.

Beaver dam has a hole cut in the center, allowing water to flow over it.

New lock installed on MW-4.

Items to Verify:

List of Attachments: GW logs, SW logs, COC, inspection forms

Field Log Prepared by:

Copies to:

# Environmental Services Field Log

11/4/04

(continued)

Project Name: Morew Landfill Project No.: 01.7116

Observations:

Calibrate field parameter equipment to manufacturers spers. Use the following protocol to purge + sample wells:

Place poly around well with hole in center to access well. Wearing new gloves open well and measure static water level with decon'd water level meter (potable water w/ Alconox wash/DI rinse) Use a new disposable bailer and new string to purge 3 well volumes into a graduated 5 gallon bucket, noting color, odor + sheen (if any) After purging, discharge water adjacent to well.

Allow well to recharge, checking water recovery height with decon'd water level meter, then using bailer from purging, collect a small amount of water to measure field parameters, then fill sample containers in order of decreasing volatility, and place in cooler with bagged ice. Cap + close well.

Collect surface water samples wearing new disposable gloves. Collect a small amount of water for field parameters, then fill sample containers in order of decreasing volatility, and place in cooler with bagged ice.

Off site. Samples taken to CT Male office, packed with fresh ice, and hand delivered to Phoenix labs field office.

C. T. MALE ASSOCIATES, P. C.

11/4/09

INSPECTION OF LANDFILL
POST-CLOSURE MAINTENANCE INSPECTION FORM

Landfill Cap Integrity

1. Damage to integrity: none observed

Erosion: see field notes

Animal burrows: none observed

Ponding: few small 1'x1' areas by GU-41

Leachate seeps: none observed

2. Description of vegetative cover: well established, 6-12" tall

Inspection of Structures

1. Monitoring wells

| Well Number | Condition and Recommendation |
|---|---|
| MW-3 | good |
| MW-4 | ↓ |
| MW-5 | |
| MW-6S | |
| MW-8D | |
| ENC-1S | |
| ENC-1D | |
| ENC-2S | |
| ENC-2D | |
| | |
| | |
| | |
| | |
| | |

11/8/09

INSPECTION OF LANDFILL
POST CLOSURE MAINTENANCE INSPECTION FORM
*(continued)*

2. Gas Venting Structures in Need of Repair

| Vent Location | Condition and Recommendation |
|---|---|
| | Gas vents in similar condition to observations during 9/10/09 inspections |
| | GV-EE, GV-MM, GV-AG, GV-Z-Z were damaged, in need of repair |
| | GV-46 put back in place, does not appear to need further repair |
| | |
| | |
| | |
| | |

General Comments: Landfill is generally in good condition. Vegetation is well established.

# Groundwater Services Field Log

DATE: 11/4/09 PROJECT NAME: Moreau Landfill

PROJECT NO.: 01.7116 PROJECT LOCATION: Moreau, NY

SAMPLING PERSONNEL: Dan Achtyl

MONITORING WELL ID#: EHC-2S NOTES TAKEN BY: Dan Achtyl

DEPTH TO WATER: 44.90' FROM: TOC BAILER ID:

DEPTH TO BOTTOM: 72.00' FROM: TOC BAILER: (NEW DISPOSABLE)

WATER COLUMN HEIGHT: 27.10' BAILER: STAINLESS STEEL

OTHER

CONVERSION FACTORS LINEAR FEET TO GALLONS

| | |
|---|---|
| 1" = 0.041 GALLONS | 3" = 0.38 GALLONS |
| 1.25" = 0.064 GALLONS | 4" = 0.66 GALLONS |
| (2") = 0.16 GALLONS | 6" = 1.47 GALLONS |

WELL CASING DIAMETER

WELL VOLUME: 4.34 GALLONS

VOLUMES PURGED: 13 GALLONS PURGE METHOD: hand bail

TIME STARTED: 1200 ; TIME FINISHED: 1245

OBSERVATIONS: COLOR clear ; ODOR none

SHEEN none ; TURBIDITY 11.1 NTU

OTHER

WATER RECOVERY HEIGHT: 44.90' ; RECOVERY TIME IN MINUTES: 5

FIELD PARAMETERS: pH 7.53 SU , TEMPERATURE 8.5 °C

CONDUCTIVITY 316 µs OTHER Redox 190.3mV

SAMPLE COLLECTION TIME: 1250

NOTES: Samples collected for part 360 routine parameters + PCBs.

# Groundwater Services Field Log

DATE: 11/4/09 PROJECT NAME: Moreau Landfill

PROJECT NO.: 01.7116 PROJECT LOCATION: Moreau, NY

SAMPLING PERSONNEL: Dan Achtyl

MONITORING WELL ID#: EHC-15 NOTES TAKEN BY: Dan Achtyl

DEPTH TO WATER: 49.91' FROM: TOC BAILER ID:

DEPTH TO BOTTOM: 75.00' FROM: TOC BAILER: (NEW DISPOSABLE)

WATER COLUMN HEIGHT: 25.09' BAILER: STAINLESS STEEL

OTHER

CONVERSION FACTORS LINEAR FEET TO GALLONS

| | |
|---|---|
| 1" = 0.041 GALLONS | 3" = 0.38 GALLONS |
| 1.25" = 0.064 GALLONS | 4" = 0.66 GALLONS |
| (2") = 0.16 GALLONS | 6" = 1.47 GALLONS |

WELL CASING DIAMETER

WELL VOLUME: 4.01 GALLONS

VOLUMES PURGED: 12.25 GALLONS PURGE METHOD: hand bail

TIME STARTED: 1100 ; TIME FINISHED: 1145

OBSERVATIONS: COLOR clear to cloudy ; ODOR none

SHEEN none ; TURBIDITY 15.8 NTU

OTHER

WATER RECOVERY HEIGHT: 49.91' ; RECOVERY TIME IN MINUTES: 85

FIELD PARAMETERS: pH 7.73 SU , TEMPERATURE 10.3 °C

CONDUCTIVITY 1405 µs OTHER

SAMPLE COLLECTION TIME: 1310

NOTES: Samples collected for part 360 routine parameters + PCBs.

C.T. MALE ASSOCIATES, P.C.

# STREAM WATER SAMPLING LOG

DATE: 11/4/04

SAMPLING PERSONNEL: Dan Ashtyl

SAMPLING LOCATION: S-1

PROJECT NO: 01.2116

PROJECT NAME: Moreau Landfill

PROJECT LOCATION: Moreau, NY

SAMPLE COLLECTION TIME: 1340

DEPTH OF STREAM AT SAMPLING POINT: 6"

WIDTH OF STREAM: 4'

STREAM VELOCITY: fast

WATER LEVEL AT MEASURING POINT: 6"

OBSERVATIONS: COLOR clear, ODOR none
SHEEN none, TURBIDITY 4.01 NTU
OTHER

FIELD PARAMETERS: pH 7.20 SU
TEMPERATURE 7.7 °C
CONDUCTIVITY 413 u.s
OTHER Redox 199.9 mV

NOTES: Samples collected for Part 360 routine parameters + PCBs + D.O.

C.T. MALE ASSOCIATES, P.C.

# STREAM WATER SAMPLING LOG

DATE: 11/4/09

SAMPLING PERSONNEL: Dan Achtyl

SAMPLING LOCATION: S-2

PROJECT NO: 01.7116

PROJECT NAME: Moreau Landfill

PROJECT LOCATION: Moreau, NY

SAMPLE COLLECTION TIME: 1410

DEPTH OF STREAM AT SAMPLING POINT: 6"

WIDTH OF STREAM: pond

STREAM VELOCITY: NA

WATER LEVEL AT MEASURING POINT: 6"

OBSERVATIONS: COLOR clear, ODOR none
SHEEN none, TURBIDITY 80.3 NTU
OTHER

FIELD PARAMETERS: pH 7.38 SU
TEMPERATURE 4.8°C
CONDUCTIVITY 650 uS
OTHER Redox 190.3 mV

NOTES: Samples collected for Part 360 routine parameters + PCBs + D.O.+ dissolved metals

**C.T. MALE ASSOCIATES, P.C.**

# STREAM WATER SAMPLING LOG

DATE: 11/4/04 PROJECT NO: 01.7116

SAMPLING PERSONNEL: Dan Ashtyl PROJECT NAME: Moreau Landfill

PROJECT LOCATION: Moreau, NY

SAMPLING LOCATION: S-3

SAMPLE COLLECTION TIME: 1430

DEPTH OF STREAM AT SAMPLING POINT: 3"

WIDTH OF STREAM: wetland

STREAM VELOCITY: NA

WATER LEVEL AT MEASURING POINT: 3"

OBSERVATIONS: COLOR brown, ODOR none

SHEEN organic, TURBIDITY 153.2 NTU

OTHER

FIELD PARAMETERS: pH 7.11 SU

TEMPERATURE 4.5°C

CONDUCTIVITY 415 µs

OTHER Redox 188.3 mV

NOTES: Samples collected for Part 360 routine parameters + PCBs, + D.O. + dissolved metals.

# PHOENIX
*Environmental Laboratories, Inc.*

# CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: service@phoenixlabs.com Fax (860) 645-0823
**Client Services (860) 645-8726**

Temp Pg 1 of 1

**Data Delivery:**
☐ Fax #: _____
☐ Email: _____

Customer: C.T. Male Associates, P.C.
Address: 50 Century Hill Dr
Latham, NY 12110

Project: Moreau Landfill
Report to: Liz Rovers
Invoice to: Liz Rovers

Project P.O: 01.7116
Phone #: 518 786 7400
Fax #: 518 786 7299

**Client Sample - Information - Identification**

Sampler's Signature: Dan Acht.J Date 11/4/09

**Matrix Code:**
DW=drinking water WW=wastewater S=soil/solid O=other
GW=groundwater SL=sludge A=air SW=Surface Water

Analysis Request

| Phoenix Sample # | Customer Sample Identification | Sample Matrix | Date Sampled | Time Sampled | Part 360 Routine Parameters | PCBs | Dissolved Oxygen | Dissolved Metals | Soil VOA [ ] Methanol [ ] S. Bisulfate [ ] H20 | GL Soil container ( ) oz | GL Soil container ( ) oz Amber | 40 ml VOA Vial [ ] As is [ ] HCl | GL Amber 1000ml [ ] As is [ ] HCl | PL As is [ ] 250ml [X] As is [ ] H2SO4 | PL H2SO4 [ ] 250ml [X] 500ml [ ] 1000ml | PL HNO3 250ml [X] 500ml | PL NaOH 250ml | Bacteria Bottle |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | EHC-2S | GW | 11/4/09 | 1250 | X | X | | | | | 1 | | 1 | 1 | 1 | 1 | | |
| | EHC-1S | GW | | 1310 | X | X | | | | | 1 | | 1 | 1 | 1 | 1 | | |
| | S-1 | SW | | 1340 | X | X | X | | | | 1 | | 1 | 2 | 1 | 1 | | |
| | S-2 | SW | | 1410 | X | X | X | X | | | 1 | | 1 | 2 | 1 | 1 | 1* | |
| | S-3 | SW | | 1430 | X | X | X | X | | | 1 | | 1 | 2 | 1 | 1 | 1* | |

| Relinquished by: | Accepted by: | Date: | Time: |
|---|---|---|---|
| | | 11/4/09 | 1620 |
| | | | |
| | | | |

**Turnaround:**
☐ 1 Day*
☐ 2 Days*
☐ 3 Days*
☒ Standard
☐ Other

**SURCHARGE APPLIES**

**CT/RI**
☐ RCP Cert.
☐ GW Protect.
☐ GA Mobility
☐ GB Mobility
☐ SW Protect.
☐ Res. Vol.
☐ Ind. Vol.
☐ Res. Criteria
☐ Other

**MA**
☐ MCP Cert.
☐ GW-1
☐ GW-2
☐ GW-3
☐ S-1
☐ S-2
☐ S-3
☐ MWRA eSMART
☐ Other

**Data Format**
☐ Excel
☐ PDF
☐ GIS/Key
☐ EQuIS
☐ Other _____

**Data Package**
☐ ASP-A
☐ NJ Reduced Deliv. *
☐ NJ Hazsite EDD
☐ Phoenix Std Report
☐ Other

Comments, Special Requirements or Regulations:
Part 360 Routine parameters (effective 12/31/88 revised 5/28/91)
*Filter + fix extra bottle for dissolved metals

**State where samples were collected:** NY

# APPENDIX B

# LABORATORY ANALYSIS REPORTS AND CHAIN OF CUSTODY RECORDS

PHOENIX
Environmental Laboratories, Inc.

RECEIVED
NOV 20 2009
CT MALE ASSOCIATES, PC

Friday, November 13, 2009

Attn: Ms. Liz Rovers
CT Male Associates, PC
50 Century Hill Drive
Latham, NY 12110

Project ID: MOREAU LANDFILL
Sample ID#s: AS42615 - AS42619

This laboratory is in compliance with the QA/QC procedures outlined in EPA 600/4-79-019, Handbook for Analytical Quality in Water and Waste Water, March 1979, SW846 QA/QC and NELAC requirements of procedures used.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
TX Lab Registration #T104704451-09TX
VT Lab Registration #VT11301

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac
NY # 11301

# Analysis Report

November 13, 2009

FOR: Attn: Ms. Liz Rovers
CT Male Associates, PC
50 Century Hill Drive
Latham, NY 12110

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | GROUND WATER | Collected by: | DA | 11/03/09 | 9:45 |
| Location Code: | CT-MALE | MW-3 | Received by: | LDF | 11/04/09 | 8:55 |
| Rush Request: | | Analyzed by: | see "By" below | | |
| P.O.#: | 01.7116 | | | | |

## Laboratory Data

SDG ID: GAS42615
Phoenix ID: AS42615

Project ID: MOREAU LANDFILL
Client ID: MW-3

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| Calcium | 193 | 0.10 | mg/L | 11/11/09 | | EK | 200.7/6010 |
| Cadmium | < 0.001 | 0.001 | mg/L | 11/05/09 | | EK | 6010/200.7 |
| Hardness (CaCO3) | 592 | 0.10 | mg/L | 11/13/09 | | GL | SW6010/EPA200.7 |
| Iron | 103 | 0.002 | mg/L | 11/05/09 | | EK | 6010/200.7 |
| Lead | < 0.002 | 0.002 | mg/L | 11/05/09 | | EK | 6010/200.7 |
| Magnesium | 26.8 | 0.01 | mg/L | 11/05/09 | | EK | 200.7/6010 |
| Manganese | 1.28 | 0.001 | mg/L | 11/05/09 | | EK | 6010/200.7 |
| Potassium | 29.3 | 0.1 | mg/L | 11/05/09 | | EK | 6010/200.7 |
| Sodium | 100 | 1.0 | mg/L | 11/11/09 | | EK | 6010/200.7 |
| Alkalinity (CaCO3) | 965 | 20 | mg/L | 11/04/09 | | esg | SM 2320B |
| Chloride | 150 | 15 | mg/L | 11/05/09 | | B/E | 300.0 |
| C.O.D. | 110 | 10 | mg/L | 11/06/09 | | CL | SM5220 D |
| Ammonia as Nitrogen | 29 | 0.08 | mg/L | 11/06/09 | | WM | 350.1 |
| Nitrate as Nitrogen | 0.08 | 0.05 | mg/L | 11/04/09 | 18:28 | B/E | 300.0/9056 |
| Phenolics | < 0.015 | 0.015 | mg/L | 11/05/09 | | LK | E420.4 |
| Sulfate | < 3.0 | 3.0 | mg/L | 11/04/09 | 18:28 | B/E | 300.0 |
| Tot. Diss. Solids | 850 | 10 | mg/L | 11/04/09 | | VR/KDB | SM2540C |
| Total Organic Carbon | 33 | 1.0 | mg/L | 11/05/09 | | JL/EG | SM 5310B |
| Turbidity | 430 | 0.20 | NTU | 11/04/09 | 12:13 | esg | E180.1 |
| PCB Extraction | Completed | | | 11/04/09 | | O/O | SW3510/3520 |
| Total Metals Digestion | Completed | | | 11/04/09 | | AG | |
| **Polychlorinated Biphenyls** | | | | | | | |
| PCB-1016 | ND | 0.53 | ug/L | 11/05/09 | | MH | 608/ 8082 |
| PCB-1221 | ND | 0.53 | ug/L | 11/05/09 | | MH | 608/ 8082 |
| PCB-1232 | ND | 0.53 | ug/L | 11/05/09 | | MH | 608/ 8082 |
| PCB-1242 | ND | 0.53 | ug/L | 11/05/09 | | MH | 608/ 8082 |
| PCB-1248 | ND | 0.53 | ug/L | 11/05/09 | | MH | 608/ 8082 |
| PCB-1254 | ND | 0.53 | ug/L | 11/05/09 | | MH | 608/ 8082 |

Project ID: MOREAU LANDFILL
Client ID: MW-3

Phoenix I.D.: AS42615

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| PCB-1260 | ND | 0.53 | ug/L | 11/05/09 | | MH | 608/ 8082 |
| PCB-1262 | ND | 0.53 | ug/L | 11/05/09 | | MH | 608/ 8082 |
| PCB-1268 | ND | 0.53 | ug/L | 11/05/09 | | MH | 608/ 8082 |
| **QA/QC Surrogates** | | | | | | | |
| % DCBP | 57 | | % | 11/05/09 | | MH | 608/ 8082 |
| % TCMX | 86 | | % | 11/05/09 | | MH | 608/ 8082 |

## Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

Phyllis Shiller, Laboratory Director
November 13, 2009

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# Analysis Report

November 13, 2009

FOR: Attn: Ms. Liz Rovers
CT Male Associates, PC
50 Century Hill Drive
Latham, NY 12110

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | GROUND WATER | Collected by: | DA | 11/03/09 | 10:55 |
| Location Code: | CT-MALE \| MW-4 | Received by: | LDF | 11/04/09 | 8:55 |
| Rush Request: | | Analyzed by: | see "By" below | | |
| P.O.#: | 01.7116 | | | | |

## Laboratory Data

SDG ID: GAS42615
Phoenix ID: AS42616

Project ID: MOREAU LANDFILL

Client ID: MW-4

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| Calcium | 51.5 | 0.010 | mg/L | 11/05/09 | | EK | 200.7/6010 |
| Cadmium | < 0.001 | 0.001 | mg/L | 11/05/09 | | EK | 6010/200.7 |
| Hardness (CaCO3) | 158 | 0.10 | mg/L | 11/06/09 | | CL | SW6010/EPA200.7 |
| Iron | 8.35 | 0.002 | mg/L | 11/05/09 | | EK | 6010/200.7 |
| Lead | < 0.002 | 0.002 | mg/L | 11/05/09 | | EK | 6010/200.7 |
| Magnesium | 7.24 | 0.01 | mg/L | 11/05/09 | | EK | 200.7/6010 |
| Manganese | 0.207 | 0.001 | mg/L | 11/05/09 | | EK | 6010/200.7 |
| Potassium | 8.6 | 0.1 | mg/L | 11/05/09 | | EK | 6010/200.7 |
| Sodium | 49.0 | 0.1 | mg/L | 11/05/09 | | EK | 6010/200.7 |
| Alkalinity (CaCO3) | 166 | 20 | mg/L | 11/04/09 | | esg | SM 2320B |
| Chloride | 72 | 3.0 | mg/L | 11/04/09 | | B/E | 300.0 |
| C.O.D. | < 10 | 10 | mg/L | 11/06/09 | | CL | SM5220 D |
| Ammonia as Nitrogen | 6.2 | 0.02 | mg/L | 11/06/09 | | WM | 350.1 |
| Nitrate as Nitrogen | 0.72 | 0.05 | mg/L | 11/04/09 | 18:38 | B/E | 300.0/9056 |
| Phenolics | < 0.015 | 0.015 | mg/L | 11/05/09 | | LK | E420.4 |
| Sulfate | 15 | 3.0 | mg/L | 11/04/09 | 18:38 | B/E | 300.0 |
| Tot. Diss. Solids | 300 | 10 | mg/L | 11/04/09 | | VR/KDB | SM2540C |
| Total Organic Carbon | 4.2 | 1.0 | mg/L | 11/05/09 | | JL/EG | SM 5310B |
| Turbidity | 9.57 | 0.20 | NTU | 11/04/09 | 12:20 | esg | E180.1 |
| PCB Extraction | Completed | | | 11/04/09 | | O/O | SW3510/3520 |
| Total Metals Digestion | Completed | | | 11/04/09 | | AG | |
| **Polychlorinated Biphenyls** | | | | | | | |
| PCB-1016 | ND | 0.50 | ug/L | 11/05/09 | | MH | 608/ 8082 |
| PCB-1221 | ND | 0.50 | ug/L | 11/05/09 | | MH | 608/ 8082 |
| PCB-1232 | ND | 0.50 | ug/L | 11/05/09 | | MH | 608/ 8082 |
| PCB-1242 | ND | 0.50 | ug/L | 11/05/09 | | MH | 608/ 8082 |
| PCB-1248 | ND | 0.50 | ug/L | 11/05/09 | | MH | 608/ 8082 |
| PCB-1254 | ND | 0.50 | ug/L | 11/05/09 | | MH | 608/ 8082 |

Project ID: MOREAU LANDFILL
Client ID: MW-4

Phoenix I.D.: AS42616

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| PCB-1260 | ND | 0.50 | ug/L | 11/05/09 | | MH | 608/ 8082 |
| PCB-1262 | ND | 0.50 | ug/L | 11/05/09 | | MH | 608/ 8082 |
| PCB-1268 | ND | 0.50 | ug/L | 11/05/09 | | MH | 608/ 8082 |
| QA/QC Surrogates | | | | | | | |
| % DCBP | 35 | | % | 11/05/09 | | MH | 608/ 8082 |
| % TCMX | 86 | | % | 11/05/09 | | MH | 608/ 8082 |

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

Phyllis Shiller, Laboratory Director
November 13, 2009

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# Analysis Report

November 13, 2009

FOR: Attn: Ms. Liz Rovers
CT Male Associates, PC
50 Century Hill Drive
Latham, NY 12110

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | GROUND WATER | Collected by: | DA | 11/03/09 | 12:15 |
| Location Code: | CT-MALE \| MW-5 | Received by: | LDF | 11/04/09 | 8:55 |
| Rush Request: | | Analyzed by: | see "By" below | | |
| P.O.#: | 01.7116 | | | | |

## Laboratory Data

SDG ID: GAS42615
Phoenix ID: AS42617

Project ID: MOREAU LANDFILL

Client ID: MW-5

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| Calcium | 48.6 | 0.010 | mg/L | 11/08/09 | | LK | 200.7/6010 |
| Cadmium | < 0.001 | 0.001 | mg/L | 11/08/09 | | LK | 6010/200.7 |
| Hardness (CaCO3) | 150 | 0.10 | mg/L | 11/09/09 | | GL | SW6010/EPA200.7 |
| Iron | 12.0 | 0.002 | mg/L | 11/08/09 | | LK | 6010/200.7 |
| Lead | < 0.002 | 0.002 | mg/L | 11/11/09 | | EK | 6010/200.7 |
| Magnesium | 6.97 | 0.01 | mg/L | 11/08/09 | | LK | 200.7/6010 |
| Manganese | 0.540 | 0.001 | mg/L | 11/08/09 | | LK | 6010/200.7 |
| Potassium | 2.2 | 0.1 | mg/L | 11/08/09 | | LK | 6010/200.7 |
| Sodium | 27.0 | 0.1 | mg/L | 11/08/09 | | LK | 6010/200.7 |
| Alkalinity (CaCO3) | 80.4 | 20 | mg/L | 11/04/09 | | esg | SM 2320B |
| Chloride | 59 | 3.0 | mg/L | 11/04/09 | | B/E | 300.0 |
| C.O.D. | 16 | 10 | mg/L | 11/06/09 | | CL | SM5220 D |
| Ammonia as Nitrogen | 0.51 | 0.02 | mg/L | 11/06/09 | | WM | 350.1 |
| Nitrate as Nitrogen | 0.10 | 0.05 | mg/L | 11/04/09 | 18:48 | B/E | 300.0/9056 |
| Phenolics | < 0.015 | 0.015 | mg/L | 11/05/09 | | LK | E420.4 |
| Sulfate | 3.2 | 3.0 | mg/L | 11/04/09 | 18:48 | B/E | 300.0 |
| Tot. Diss. Solids | 260 | 10 | mg/L | 11/04/09 | | VR/KDB | SM2540C |
| Total Organic Carbon | 3.8 | 1.0 | mg/L | 11/05/09 | | JL/EG | SM 5310B |
| Turbidity | 23.5 | 0.20 | NTU | 11/04/09 | 12:37 | esg | E180.1 |
| PCB Extraction | Completed | | | 11/04/09 | | O/O | SW3510/3520 |
| Total Metals Digestion | Completed | | | 11/04/09 | | AG | |
| **Polychlorinated Biphenyls** | | | | | | | |
| PCB-1016 | ND | 0.50 | ug/L | 11/05/09 | | MH | 608/ 8082 |
| PCB-1221 | ND | 0.50 | ug/L | 11/05/09 | | MH | 608/ 8082 |
| PCB-1232 | ND | 0.50 | ug/L | 11/05/09 | | MH | 608/ 8082 |
| PCB-1242 | ND | 0.50 | ug/L | 11/05/09 | | MH | 608/ 8082 |
| PCB-1248 | ND | 0.50 | ug/L | 11/05/09 | | MH | 608/ 8082 |
| PCB-1254 | ND | 0.50 | ug/L | 11/05/09 | | MH | 608/ 8082 |

Project ID: MOREAU LANDFILL
Client ID: MW-5

Phoenix I.D.: AS42617

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| PCB-1260 | ND | 0.50 | ug/L | 11/05/09 | | MH | 608/ 8082 |
| PCB-1262 | ND | 0.50 | ug/L | 11/05/09 | | MH | 608/ 8082 |
| PCB-1268 | ND | 0.50 | ug/L | 11/05/09 | | MH | 608/ 8082 |
| QA/QC Surrogates | | | | | | | |
| % DCBP | <30* | | % | 11/05/09 | | MH | 608/ 8082 |
| % TCMX | 87 | | % | 11/05/09 | | MH | 608/ 8082 |

Comments:

* Poor surrogate recovery was observed. Insufficient sample for re-extraction.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

Phyllis Shiller, Laboratory Director
November 13, 2009

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Environmental Laboratories, Inc.
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Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac
NY # 11301

# Analysis Report

November 13, 2009

FOR: Attn: Ms. Liz Rovers
CT Male Associates, PC
50 Century Hill Drive
Latham, NY 12110

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | GROUND WATER | Collected by: | DA | 11/03/09 | 13:50 |
| Location Code: | CT-MALE \| MW-6S | Received by: | LDF | 11/04/09 | 8:55 |
| Rush Request: | | Analyzed by: | see "By" below | | |
| P.O.#: | 01.7116 | | | | |

## Laboratory Data

SDG ID: GAS42615
Phoenix ID: AS42618

Project ID: MOREAU LANDFILL
Client ID: MW-6S

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| Calcium | 88.5 | 0.010 | mg/L | 11/08/09 | | LK | 200.7/6010 |
| Cadmium | < 0.001 | 0.001 | mg/L | 11/11/09 | | EK | 6010/200.7 |
| Hardness (CaCO3) | 256 | 0.10 | mg/L | 11/09/09 | | GL | SW6010/EPA200.7 |
| Iron | 7.01 | 0.002 | mg/L | 11/08/09 | | LK | 6010/200.7 |
| Lead | < 0.002 | 0.002 | mg/L | 11/11/09 | | EK | 6010/200.7 |
| Magnesium | 8.52 | 0.01 | mg/L | 11/08/09 | | LK | 200.7/6010 |
| Manganese | 2.78 | 0.010 | mg/L | 11/11/09 | | EK | 6010/200.7 |
| Potassium | 2.3 | 0.1 | mg/L | 11/08/09 | | LK | 6010/200.7 |
| Sodium | 11.1 | 0.1 | mg/L | 11/08/09 | | LK | 6010/200.7 |
| Alkalinity (CaCO3) | 178 | 20 | mg/L | 11/04/09 | | esg | SM 2320B |
| Chloride | 10 | 3.0 | mg/L | 11/04/09 | | B/E | 300.0 |
| C.O.D. | 28 | 10 | mg/L | 11/06/09 | | CL | SM5220 D |
| Ammonia as Nitrogen | 2 | 0.02 | mg/L | 11/09/09 | | WM | 350.1 |
| Nitrate as Nitrogen | 0.31 | 0.05 | mg/L | 11/04/09 | 18:58 | B/E | 300.0/9056 |
| Phenolics | < 0.015 | 0.015 | mg/L | 11/05/09 | | LK | E420.4 |
| Sulfate | 7.0 | 3.0 | mg/L | 11/04/09 | 18:58 | B/E | 300.0 |
| Tot. Diss. Solids | 330 | 10 | mg/L | 11/04/09 | | VR/KDB | SM2540C |
| Total Organic Carbon | 5.3 | 1.0 | mg/L | 11/05/09 | | JL/EG | SM 5310B |
| Turbidity | 27.3 | 0.20 | NTU | 11/04/09 | 12:44 | esg | E180.1 |
| PCB Extraction | Completed | | | 11/04/09 | | O/O | SW3510/3520 |
| Total Metals Digestion | Completed | | | 11/04/09 | | AG | |
| **Polychlorinated Biphenyls** | | | | | | | |
| PCB-1016 | ND | 0.50 | ug/L | 11/05/09 | | MH | 608/ 8082 |
| PCB-1221 | ND | 0.50 | ug/L | 11/05/09 | | MH | 608/ 8082 |
| PCB-1232 | ND | 0.50 | ug/L | 11/05/09 | | MH | 608/ 8082 |
| PCB-1242 | ND | 0.50 | ug/L | 11/05/09 | | MH | 608/ 8082 |
| PCB-1248 | ND | 0.50 | ug/L | 11/05/09 | | MH | 608/ 8082 |
| PCB-1254 | ND | 0.50 | ug/L | 11/05/09 | | MH | 608/ 8082 |

Project ID: MOREAU LANDFILL
Client ID: MW-6S

Phoenix I.D.: AS42618

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| PCB-1260 | ND | 0.50 | ug/L | 11/05/09 | | MH | 608/ 8082 |
| PCB-1262 | ND | 0.50 | ug/L | 11/05/09 | | MH | 608/ 8082 |
| PCB-1268 | ND | 0.50 | ug/L | 11/05/09 | | MH | 608/ 8082 |
| QA/QC Surrogates | | | | | | | |
| % DCBP | 38 | | % | 11/05/09 | | MH | 608/ 8082 |
| % TCMX | 80 | | % | 11/05/09 | | MH | 608/ 8082 |

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

Phyllis Shiller, Laboratory Director
November 13, 2009

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# Analysis Report

November 13, 2009

FOR: Attn: Ms. Liz Rovers
CT Male Associates, PC
50 Century Hill Drive
Latham, NY 12110

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | GROUND WATER | Collected by: | DA | 11/03/09 | 13:00 |
| Location Code: | CT-MALE \| FD-1 | Received by: | LDF | 11/04/09 | 8:55 |
| Rush Request: | | Analyzed by: | see "By" below | | |
| P.O.#: | 01.7116 | | | | |

## Laboratory Data

SDG ID: GAS42615
Phoenix ID: AS42619

Project ID: MOREAU LANDFILL

Client ID: FD-1

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| Calcium | 87.4 | 0.010 | mg/L | 11/08/09 | | LK | 200.7/6010 |
| Cadmium | < 0.001 | 0.001 | mg/L | 11/11/09 | | EK | 6010/200.7 |
| Hardness (CaCO3) | 253 | 0.10 | mg/L | 11/09/09 | | GL | SW6010/EPA200.7 |
| Iron | 6.81 | 0.002 | mg/L | 11/08/09 | | LK | 6010/200.7 |
| Lead | < 0.002 | 0.002 | mg/L | 11/11/09 | | EK | 6010/200.7 |
| Magnesium | 8.54 | 0.01 | mg/L | 11/08/09 | | LK | 200.7/6010 |
| Manganese | 2.71 | 0.010 | mg/L | 11/11/09 | | EK | 6010/200.7 |
| Potassium | 2.3 | 0.1 | mg/L | 11/08/09 | | LK | 6010/200.7 |
| Sodium | 11.4 | 0.1 | mg/L | 11/08/09 | | LK | 6010/200.7 |
| Alkalinity (CaCO3) | 164 | 20 | mg/L | 11/04/09 | | esg | SM 2320B |
| Chloride | 10 | 3.0 | mg/L | 11/04/09 | | B/E | 300.0 |
| C.O.D. | 12 | 10 | mg/L | 11/06/09 | | CL | SM5220 D |
| Ammonia as Nitrogen | 1.8 | 0.02 | mg/L | 11/09/09 | | WM | 350.1 |
| Nitrate as Nitrogen | 0.44 | 0.05 | mg/L | 11/04/09 | 19:08 | B/E | 300.0/9056 |
| Phenolics | < 0.015 | 0.015 | mg/L | 11/05/09 | | LK | E420.4 |
| Sulfate | 7.1 | 3.0 | mg/L | 11/04/09 | 19:08 | B/E | 300.0 |
| Tot. Diss. Solids | 330 | 10 | mg/L | 11/04/09 | | VR/KDB | SM2540C |
| Total Organic Carbon | 5.2 | 1.0 | mg/L | 11/05/09 | | JL/EG | SM 5310B |
| Turbidity | 24.2 | 0.20 | NTU | 11/04/09 | 12:52 | esg | E180.1 |
| PCB Extraction | Completed | | | 11/04/09 | | O/O | SW3510/3520 |
| Total Metals Digestion | Completed | | | 11/04/09 | | AG | |
| **Polychlorinated Biphenyls** | | | | | | | |
| PCB-1016 | ND | 0.52 | ug/L | 11/05/09 | | MH | 608/ 8082 |
| PCB-1221 | ND | 0.52 | ug/L | 11/05/09 | | MH | 608/ 8082 |
| PCB-1232 | ND | 0.52 | ug/L | 11/05/09 | | MH | 608/ 8082 |
| PCB-1242 | ND | 0.52 | ug/L | 11/05/09 | | MH | 608/ 8082 |
| PCB-1248 | ND | 0.52 | ug/L | 11/05/09 | | MH | 608/ 8082 |
| PCB-1254 | ND | 0.52 | ug/L | 11/05/09 | | MH | 608/ 8082 |

Project ID: MOREAU LANDFILL
Client ID: FD-1

Phoenix I.D.: AS42619

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| PCB-1260 | ND | 0.52 | ug/L | 11/05/09 | | MH | 608/ 8082 |
| PCB-1262 | ND | 0.52 | ug/L | 11/05/09 | | MH | 608/ 8082 |
| PCB-1268 | ND | 0.52 | ug/L | 11/05/09 | | MH | 608/ 8082 |
| QA/QC Surrogates | | | | | | | |
| % DCBP | 37 | | % | 11/05/09 | | MH | 608/ 8082 |
| % TCMX | 85 | | % | 11/05/09 | | MH | 608/ 8082 |

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

Phyllis Shiller, Laboratory Director
November 13, 2009

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# QA/QC Report

November 13, 2009

## QA/QC Data

SDG I.D.: GAS42615

| Parameter | Blank | Dup RPD | LCS % | LCSD % | LCS RPD | MS Rec % | MS Dup Rec % | RPD |
|---|---|---|---|---|---|---|---|---|
| QA/QC Batch 141172, QC Sample No: AS42279 (AS42615, AS42616) | | | | | | | | |
| **ICP Metals - Aqueous** | | | | | | | | |
| Cadmium | BDL | NC | 104 | 105 | 1.0 | 105 | 104 | 1.0 |
| Calcium | BDL | 0.40 | 106 | 107 | 0.9 | NC | NC | NC |
| Iron | BDL | 1.20 | 103 | 105 | 1.9 | 106 | 107 | 0.9 |
| Lead | BDL | NC | 102 | 103 | 1.0 | 103 | 102 | 1.0 |
| Magnesium | BDL | 0.90 | 105 | 106 | 0.9 | NC | NC | NC |
| Manganese | BDL | 0.70 | 103 | 104 | 1.0 | 105 | 104 | 1.0 |
| Potassium | BDL | 2.80 | 90.3 | 93.0 | 2.9 | 99.5 | 91.4 | 8.5 |
| Sodium | BDL | 2.30 | 98.1 | 101 | 2.9 | NC | NC | NC |
| QA/QC Batch 141260, QC Sample No: AS42639 (AS42617, AS42618, AS42619) | | | | | | | | |
| **ICP Metals - Aqueous** | | | | | | | | |
| Cadmium | BDL | NC | 91.2 | 90.5 | 0.8 | 91.2 | 89.7 | 1.7 |
| Calcium | BDL | 0.40 | 98.7 | 98.1 | 0.6 | 102 | 97.3 | 4.7 |
| Iron | 0.009 | NC | 97.2 | 95.6 | 1.7 | 98.1 | 95.7 | 2.5 |
| Lead | BDL | NC | 91.1 | 90.4 | 0.8 | 91.6 | 89.6 | 2.2 |
| Magnesium | BDL | 0.50 | 96.3 | 96.3 | 0.0 | 97.2 | 95.0 | 2.3 |
| Manganese | BDL | NC | 94.6 | 93.7 | 1.0 | 95.1 | 94.0 | 1.2 |
| Potassium | BDL | 4.70 | 99.0 | 97.0 | 2.0 | 105 | 99.8 | 5.1 |
| Sodium | BDL | 3.20 | 114 | 113 | 0.9 | NC | NC | NC |

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria

Phyllis Shiller, Laboratory Director
November 13, 2009

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# QA/QC Report

November 13, 2009

## QA/QC Data

SDG I.D.: GAS42615

| Parameter | Blank | Dup RPD | LCS % | LCSD % | LCS RPD | MS Rec % | MS Dup Rec % | RPD |
|---|---|---|---|---|---|---|---|---|
| QA/QC Batch 141479, QC Sample No: AS42051 (AS42615, AS42616, AS42617, AS42618, AS42619) | | | | | | | | |
| C.O.D. | BDL | NC | 109 | | | 96.0 | | |
| QA/QC Batch 141328, QC Sample No: AS42052 (AS42615, AS42616, AS42617, AS42618, AS42619) | | | | | | | | |
| Phenolics | BDL | NC | 106 | | | 93.0 | | |
| QA/QC Batch 141329, QC Sample No: AS42540 (AS42615, AS42616, AS42617) | | | | | | | | |
| Ammonia as Nitrogen | BDL | 1.50 | 101 | | | 104 | | |
| QA/QC Batch 141237, QC Sample No: AS42615 (AS42615, AS42616, AS42617, AS42618, AS42619) | | | | | | | | |
| Tot. Diss. Solids | BDL | 14.4 | 94.6 | | | | | |
| QA/QC Batch 141277, QC Sample No: AS42616 (AS42615, AS42616, AS42617, AS42618, AS42619) | | | | | | | | |
| Alkalinity-CaCO3 | BDL | 0.60 | 110 | | | | | |
| QA/QC Batch 141282, QC Sample No: AS42616 (AS42616) | | | | | | | | |
| Conductivity | BDL | 0.50 | 102 | | | | | |
| QA/QC Batch 141280, QC Sample No: AS42616 (AS42615, AS42616, AS42617, AS42618, AS42619) | | | | | | | | |
| Turbidity | BDL | 19.5 | 93.0 | | | | | |
| QA/QC Batch 141558, QC Sample No: AS42618 (AS42615, AS42616, AS42617, AS42618, AS42619) | | | | | | | | |
| Total Organic Carbon | BDL | 3.80 | 99.0 | | | 102 | | |
| QA/QC Batch 141435, QC Sample No: AS42664 (AS42615, AS42616, AS42617, AS42618, AS42619) | | | | | | | | |
| Chloride | BDL | NC | 96.8 | | | 102 | | |
| QA/QC Batch 141437, QC Sample No: AS42664 (AS42615, AS42616, AS42617, AS42618, AS42619) | | | | | | | | |
| Nitrate as Nitrogen | BDL | NC | 98.9 | | | 97.8 | | |
| QA/QC Batch 141436, QC Sample No: AS42664 (AS42615, AS42616, AS42617, AS42618, AS42619) | | | | | | | | |
| Nitrite as Nitrogen | BDL | NC | 96.9 | | | 100 | | |
| QA/QC Batch 141438, QC Sample No: AS42664 (AS42615, AS42616, AS42617, AS42618, AS42619) | | | | | | | | |
| Sulfate | BDL | NC | 99.0 | | | 100 | | |
| QA/QC Batch 141473, QC Sample No: AS42887 (AS42618, AS42619) | | | | | | | | |
| Ammonia as Nitrogen | BDL | 1.60 | 103 | | | 90.0 | | |
| QA/QC Batch 141448, QC Sample No: AS43195 (AS42615) | | | | | | | | |
| Chloride | BDL | 2.70 | 95.7 | | | 95.6 | | |
| QA/QC Batch 141449, QC Sample No: AS43195 (AS42615) | | | | | | | | |
| Nitrite as Nitrogen | BDL | | 95.7 | | | 94.9 | | |
| QA/QC Batch 141451, QC Sample No: AS43195 (AS42615) | | | | | | | | |
| Sulfate | BDL | NC | 92.6 | | | 92.3 | | |

# QA/QC Data

SDG I.D.: GAS42615

| Parameter | Blank | Dup RPD | LCS % | LCSD % | LCS RPD | MS Rec % | MS Dup Rec % | RPD |
|---|---|---|---|---|---|---|---|---|

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria

Phyllis Shiller, Laboratory Director
November 13, 2009

PHOENIX

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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# QA/QC Report

November 13, 2009

## QA/QC Data

SDG I.D.: GAS42615

| Parameter | Blank | LCS % | LCSD % | LCS RPD | MS Rec % | MS Dup Rec % | RPD |
|---|---|---|---|---|---|---|---|
| QA/QC Batch 141269, QC Sample No: AS42615 (AS42615, AS42616, AS42617, AS42618, AS42619) | | | | | | | |
| **Polychlorinated Biphenyls** | | | | | | | |
| PCB-1016 | ND | 127 | 111 | 13.4 | | | |
| PCB-1221 | ND | | | | | | |
| PCB-1232 | ND | | | | | | |
| PCB-1242 | ND | | | | | | |
| PCB-1248 | ND | | | | | | |
| PCB-1254 | ND | | | | | | |
| PCB-1260 | ND | 98 | 96 | 2.1 | | | |
| PCB-1262 | ND | | | | | | |
| PCB-1268 | ND | | | | | | |
| % DCBP (Surrogate Rec) | 106 | 112 | 106 | 5.5 | | | |
| % TCMX (Surrogate Rec) | 84 | 90 | 85 | 5.7 | | | |

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria

Phyllis Shiller, Laboratory Director
November 13, 2009

PHOENIX

**Environmental Laboratories, Inc.**
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# NY Temperature Narration

**November 13, 2009**

**SDG I.D.: GAS42615**

---

The samples in this delivery group were received at 3C.
(Note acceptance criteria is above freezing up to 6C)

# PHOENIX
*Environmental Laboratories, Inc.*

## CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: service@phoenixlabs.com Fax (860) 645-0823
**Client Services (860) 645-8726**

Temp 3.0 wet Pg 1 of 1

**Data Delivery:**
☐ Fax #: _____
☐ Email: _____

Customer: C.T. Male Associates, P.C.
Address: 50 Century Hill Dr
Latham, NY 12110

Project: Moreau Landfill
Report to: Liz Rovers
Invoice to: Liz Rovers

Project P.O: 01 7116
Phone #: 518 786 7400
Fax #: 518 786 7299

**Client Sample - Information - Identification**

Sampler's Signature: Dan Achtyl Date 11/3/09

**Matrix Code:**
DW=drinking water WW=wastewater S=soil/solid O=other
GW=groundwater SL=sludge A=air

Analysis Request

| Phoenix Sample # | Customer Sample Identification | Sample Matrix | Date Sampled | Time Sampled | Part 360 Routine Parameters | PCBs | Soil VOA [ ] Methanol [ ] S. Bisulfate [ ] H20 | GL Soil container ( ) oz | GL Soil container [ ] H2SO4 [ ] NaOH | 40 ml VOA Vial [ ] As is [ ] HCl | GL Amber 1000ml [X] As is [ ] H2SO4 | PL As is [ ] 250ml [X] 500ml [ ] 1000ml | PL H2SO4 [ ] 250ml [X] 500ml | PL HNO3 250ml | PL NaOH 250ml | Bacteria Bottle |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 42615 | MW-3 | GW | 11/3/09 | 945 | X | X | | | | 1 | | 1 | 1 | 1 | 1 | |
| 42616 | MW-4 | | | 1055 | X | X | | | | 1 | | 1 | 1 | 1 | 1 | |
| 42617 | MW-5 | | | 1215 | X | X | | | | 1 | | 1 | 1 | 1 | 1 | |
| 42618 | MW-6S | | | 1350 | X | X | | | | 1 | | 1 | 1 | 1 | 1 | |
| 42619 | FD-1 | ↓ | ↓ | 1300 | X | X | | | | 1 | | 1 | 1 | 1 | 1 | |

| Relinquished by: | Accepted by: | Date: | Time: |
|---|---|---|---|
| | | 11/3/09 | 1530 |
| Eastern Connection | Fisher | 11/4 | 8:55 |

Comments/ Special Requirements or Regulations:
Part 360 Routine Parameters (effective 12/31/85, revised 5/28/91)

**Turnaround:**
☐ 1 Day*
☐ 2 Days*
☐ 3 Days*
☒ Standard
☐ Other
* SURCHARGE APPLIES

**CT/RI**
☐ RCP Cert.
☐ GW Protect.
☐ GA Mobility
☐ GB Mobility
☐ SW Protect.
☐ Res. Vol.
☐ Ind. Vol.
☐ Res. Criteria
☐ Other

**MA**
☐ MCP Cert.
☐ GW-1
☐ GW-2
☐ GW-3
☐ S-1
☐ S-2
☐ S-3
☐ MWRA eSMART
☐ Other

**State where samples were collected:** NY

**Data Format**
☐ Excel
☐ PDF
☐ GIS/Key
☐ EQuIS
☐ Other _____

**Data Package**
☐ ASP-A
☐ NJ Reduced Deliv. *
☐ NJ Hazsite EDD
☐ Phoenix Std Report
☐ Other

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# Analysis Report

November 24, 2009

FOR: Attn: Ms. Liz Rovers
CT Male Associates, PC
50 Century Hill Drive
Latham, NY 12110

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | GROUND WATER | Collected by: | DA | 11/04/09 | 12:50 |
| Location Code: | CT-MALE \| EHC-2S | Received by: | LDF | 11/05/09 | 9:26 |
| Rush Request: | | Analyzed by: | see "By" below | | |
| P.O.#: | 01.7116 | | | | |

## Laboratory Data

SDG ID: GAS43243
Phoenix ID: AS43243

Project ID: MOREAU LANDFILL
Client ID: EHC-2S

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| Calcium | 24.0 | 0.010 | mg/L | 11/12/09 | | EK | 200.7/6010 |
| Cadmium | < 0.001 | 0.001 | mg/L | 11/12/09 | | EK | 6010/200.7 |
| Hardness (CaCO3) | 80.8 | 0.10 | mg/L | 11/13/09 | | GL | SW6010/EPA200.7 |
| Iron | 0.399 | 0.002 | mg/L | 11/12/09 | | EK | 6010/200.7 |
| Lead | < 0.002 | 0.002 | mg/L | 11/12/09 | | EK | 6010/200.7 |
| Magnesium | 5.08 | 0.01 | mg/L | 11/12/09 | | EK | 200.7/6010 |
| Manganese | 0.010 | 0.001 | mg/L | 11/12/09 | | EK | 6010/200.7 |
| Potassium | 1.9 | 0.1 | mg/L | 11/16/09 | | EK | 6010/200.7 |
| Sodium | 27.7 | 0.1 | mg/L | 11/16/09 | | EK | 6010/200.7 |
| Alkalinity (CaCO3) | 66.3 | 20 | mg/L | 11/06/09 | | EW/EG | SM 2320B |
| Chloride | 42 | 3.0 | mg/L | 11/05/09 | | B/E | 300.0 |
| C.O.D. | 19 | 10 | mg/L | 11/10/09 | | LK | SM5220 D |
| Ammonia as Nitrogen | 0.05 | 0.02 | mg/L | 11/10/09 | | WM | 350.1 |
| Nitrate as Nitrogen | 3.1 | 0.05 | mg/L | 11/06/09 | 19:50 | B/E | 300.0/9056 |
| Phenolics | < 0.015 | 0.015 | mg/L | 11/09/09 | | LK | E420.4 |
| Sulfate | 12 | 3.0 | mg/L | 11/05/09 | 23:31 | B/E | 300.0 |
| Tot. Diss. Solids | 170 | 10 | mg/L | 11/05/09 | | VR/KDB | SM2540C |
| Total Organic Carbon | 3.5 | 1.0 | mg/L | 11/09/09 | | ESG | SM 5310B |
| Turbidity | 3.22 | 0.20 | NTU | 11/06/09 | 2:45 | EW/EG | E180.1 |
| PCB Extraction | Completed | | | 11/05/09 | | O/O | SW3510/3520 |
| Total Metals Digestion | Completed | | | 11/05/09 | | AG | |
| **Polychlorinated Biphenyls** | | | | | | | |
| PCB-1016 | ND | 0.52 | ug/L | 11/06/09 | | MH | 608/ 8082 |
| PCB-1221 | ND | 0.52 | ug/L | 11/06/09 | | MH | 608/ 8082 |
| PCB-1232 | ND | 0.52 | ug/L | 11/06/09 | | MH | 608/ 8082 |
| PCB-1242 | ND | 0.52 | ug/L | 11/06/09 | | MH | 608/ 8082 |
| PCB-1248 | ND | 0.52 | ug/L | 11/06/09 | | MH | 608/ 8082 |
| PCB-1254 | ND | 0.52 | ug/L | 11/06/09 | | MH | 608/ 8082 |

Project ID: MOREAU LANDFILL
Client ID: EHC-2S

Phoenix I.D.: AS43243

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| PCB-1260 | ND | 0.52 | ug/L | 11/06/09 | | MH | 608/ 8082 |
| PCB-1262 | ND | 0.52 | ug/L | 11/06/09 | | MH | 608/ 8082 |
| PCB-1268 | ND | 0.52 | ug/L | 11/06/09 | | MH | 608/ 8082 |
| QA/QC Surrogates | | | | | | | |
| % DCBP | 32 | | % | 11/06/09 | | MH | 608/ 8082 |
| % TCMX | 93 | | % | 11/06/09 | | MH | 608/ 8082 |

## Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

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Phyllis Shiller, Laboratory Director
November 24, 2009

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Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH NELAC NY # 11301

# Analysis Report

November 24, 2009

FOR: Attn: Ms. Liz Rovers
CT Male Associates, PC
50 Century Hill Drive
Latham, NY 12110

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | GROUND WATER | Collected by: | DA | 11/04/09 | 13:10 |
| Location Code: | CT-MALE \| EHC-2S | Received by: | LDF | 11/05/09 | 9:26 |
| Rush Request: | | Analyzed by: | see "By" below | | |
| P.O.#: | 01.7116 | | | | |

## Laboratory Data

SDG ID: GAS43243
Phoenix ID: AS43244

Project ID: MOREAU LANDFILL

Client ID: EHC-1S

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| Calcium | 54.4 | 0.010 | mg/L | 11/12/09 | | EK | 200.7/6010 |
| Cadmium | < 0.001 | 0.001 | mg/L | 11/12/09 | | EK | 6010/200.7 |
| Hardness (CaCO3) | 168 | 0.10 | mg/L | 11/13/09 | | GL | SW6010/EPA200.7 |
| Iron | 1.56 | 0.002 | mg/L | 11/12/09 | | EK | 6010/200.7 |
| Lead | < 0.002 | 0.002 | mg/L | 11/12/09 | | EK | 6010/200.7 |
| Magnesium | 7.71 | 0.01 | mg/L | 11/12/09 | | EK | 200.7/6010 |
| Manganese | 0.138 | 0.001 | mg/L | 11/12/09 | | EK | 6010/200.7 |
| Potassium | 6.1 | 1.0 | mg/L | 11/17/09 | | EK | 6010/200.7 |
| Sodium | 1800 | 10 | mg/L | 11/16/09 | | EK | 6010/200.7 |
| Alkalinity (CaCO3) | 80.2 | 20 | mg/L | 11/06/09 | | EW/EG | SM 2320B |
| Chloride | 2900 | 300 | mg/L | 11/06/09 | | B/E | 300.0 |
| C.O.D. | 180 | 10 | mg/L | 11/10/09 | | LK | SM5220 D |
| Ammonia as Nitrogen | 0.08 | 0.02 | mg/L | 11/10/09 | | WM | 350.1 |
| Nitrate as Nitrogen | 1.5 | 0.05 | mg/L | 11/05/09 | 23:41 | B/E | 300.0/9056 |
| Phenolics | < 0.015 | 0.015 | mg/L | 11/09/09 | | LK | E420.4 |
| Sulfate | 76 | 3.0 | mg/L | 11/05/09 | 23:41 | B/E | 300.0 |
| Tot. Diss. Solids | 4900 | 40 | mg/L | 11/05/09 | | VR/KDB | SM2540C |
| Total Organic Carbon | 2.6 | 1.0 | mg/L | 11/09/09 | | ESG | SM 5310B |
| Turbidity | 10.6 | 0.20 | NTU | 11/06/09 | 2:51 | EW/EG | E180.1 |
| PCB Extraction | Completed | | | 11/05/09 | | O/O | SW3510/3520 |
| Total Metals Digestion | Completed | | | 11/05/09 | | AG | |
| **Polychlorinated Biphenyls** | | | | | | | |
| PCB-1016 | ND | 0.50 | ug/L | 11/06/09 | | MH | 608/ 8082 |
| PCB-1221 | ND | 0.50 | ug/L | 11/06/09 | | MH | 608/ 8082 |
| PCB-1232 | ND | 0.50 | ug/L | 11/06/09 | | MH | 608/ 8082 |
| PCB-1242 | ND | 0.50 | ug/L | 11/06/09 | | MH | 608/ 8082 |
| PCB-1248 | ND | 0.50 | ug/L | 11/06/09 | | MH | 608/ 8082 |
| PCB-1254 | ND | 0.50 | ug/L | 11/06/09 | | MH | 608/ 8082 |

Project ID: MOREAU LANDFILL
Client ID: EHC-1S

Phoenix I.D.: AS43244

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| PCB-1260 | ND | 0.50 | ug/L | 11/06/09 | | MH | 608/ 8082 |
| PCB-1262 | ND | 0.50 | ug/L | 11/06/09 | | MH | 608/ 8082 |
| PCB-1268 | ND | 0.50 | ug/L | 11/06/09 | | MH | 608/ 8082 |
| QA/QC Surrogates | | | | | | | |
| % DCBP | 94 | | % | 11/06/09 | | MH | 608/ 8082 |
| % TCMX | 89 | | % | 11/06/09 | | MH | 608/ 8082 |

## Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

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Phyllis Shiller, Laboratory Director
November 24, 2009

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# Analysis Report

November 24, 2009

FOR: Attn: Ms. Liz Rovers
CT Male Associates, PC
50 Century Hill Drive
Latham, NY 12110

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | SURFACE WATER | Collected by: | DA | 11/04/09 | 13:40 |
| Location Code: | CT-MALE \| EHC-2S | Received by: | LDF | 11/05/09 | 9:26 |
| Rush Request: | | Analyzed by: | see "By" below | | |
| P.O.#: | 01.7116 | | | | |

## Laboratory Data

SDG ID: GAS43243
Phoenix ID: AS43245

Project ID: MOREAU LANDFILL

Client ID: S-1

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| Calcium | 34.2 | 0.010 | mg/L | 11/12/09 | | EK | 200.7/6010 |
| Cadmium | < 0.001 | 0.001 | mg/L | 11/12/09 | | EK | 6010/200.7 |
| Chromium | < 0.001 | 0.001 | mg/L | 11/12/09 | | E/P | 6010/200.7 |
| Hardness (CaCO3) | 111 | 0.10 | mg/L | 11/13/09 | | GL | SW6010/EPA200.7 |
| Iron | 0.896 | 0.002 | mg/L | 11/12/09 | | EK | 6010/200.7 |
| Lead | < 0.002 | 0.002 | mg/L | 11/12/09 | | EK | 6010/200.7 |
| Magnesium | 6.17 | 0.01 | mg/L | 11/12/09 | | EK | 200.7/6010 |
| Manganese | 0.038 | 0.001 | mg/L | 11/12/09 | | EK | 6010/200.7 |
| Potassium | 1.2 | 0.1 | mg/L | 11/16/09 | | EK | 6010/200.7 |
| Sodium | 40.4 | 0.1 | mg/L | 11/16/09 | | EK | 6010/200.7 |
| Alkalinity (CaCO3) | 80.6 | 20 | mg/L | 11/06/09 | | EW/EG | SM 2320B |
| Chloride | 84 | 3.0 | mg/L | 11/06/09 | | B/E | 300.0 |
| C.O.D. | < 10 | 10 | mg/L | 11/10/09 | | LK | SM5220 D |
| Oxygen, Dissolved | 10.92 | 0.05 | mg/L | 11/05/09 | 13:14 | LR | SM4500G |
| Ammonia as Nitrogen | 0.11 | 0.02 | mg/L | 11/10/09 | | WM | 350.1 |
| Nitrate as Nitrogen | 2.4 | 0.05 | mg/L | 11/06/09 | 0:06 | B/E | 300.0/9056 |
| Phenolics | < 0.015 | 0.015 | mg/L | 11/09/09 | | LK | E420.4 |
| Sulfate | 16 | 3.0 | mg/L | 11/06/09 | 0:06 | B/E | 300.0 |
| Tot. Diss. Solids | 250 | 10 | mg/L | 11/05/09 | | VR/KDB | SM2540C |
| Total Organic Carbon | 1.6 | 1.0 | mg/L | 11/09/09 | | ESG | SM 5310B |
| Turbidity | 2.69 | 0.20 | NTU | 11/06/09 | 2:58 | EW/EG | E180.1 |
| PCB Extraction | Completed | | | 11/05/09 | | O/O | SW3510/3520 |
| Total Metals Digestion | Completed | | | 11/05/09 | | AG | |
| **Polychlorinated Biphenyls** | | | | | | | |
| PCB-1016 | ND | 0.53 | ug/L | 11/06/09 | | MH | 608/ 8082 |
| PCB-1221 | ND | 0.53 | ug/L | 11/06/09 | | MH | 608/ 8082 |
| PCB-1232 | ND | 0.53 | ug/L | 11/06/09 | | MH | 608/ 8082 |
| PCB-1242 | ND | 0.53 | ug/L | 11/06/09 | | MH | 608/ 8082 |

Project ID: MOREAU LANDFILL
Client ID: S-1

Phoenix I.D.: AS43245

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| PCB-1248 | ND | 0.53 | ug/L | 11/06/09 | | MH | 608/ 8082 |
| PCB-1254 | ND | 0.53 | ug/L | 11/06/09 | | MH | 608/ 8082 |
| PCB-1260 | ND | 0.53 | ug/L | 11/06/09 | | MH | 608/ 8082 |
| PCB-1262 | ND | 0.53 | ug/L | 11/06/09 | | MH | 608/ 8082 |
| PCB-1268 | ND | 0.53 | ug/L | 11/06/09 | | MH | 608/ 8082 |
| QA/QC Surrogates | | | | | | | |
| % DCBP | 70 | | % | 11/06/09 | | MH | 608/ 8082 |
| % TCMX | 86 | | % | 11/06/09 | | MH | 608/ 8082 |

## Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

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Phyllis Shiller

**Phyllis Shiller, Laboratory Director**

**November 24, 2009**

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# Analysis Report

November 24, 2009

FOR: Attn: Ms. Liz Rovers
CT Male Associates, PC
50 Century Hill Drive
Latham, NY 12110

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | SURFACE WATER | Collected by: | DA | 11/04/09 | 14:10 |
| Location Code: | CT-MALE \| EHC-2S | Received by: | LDF | 11/05/09 | 9:26 |
| Rush Request: | | Analyzed by: | see "By" below | | |
| P.O.#: | 01.7116 | | | | |

## Laboratory Data

SDG ID: GAS43243
Phoenix ID: AS43246

Project ID: MOREAU LANDFILL
Client ID: S-2

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| Calcium | 114 | 0.010 | mg/L | 11/12/09 | | EK | 200.7/6010 |
| Cadmium | < 0.001 | 0.001 | mg/L | 11/12/09 | | EK | 6010/200.7 |
| Cadmium (Dissolved) | < 0.001 | 0.001 | mg/L | 11/06/09 | | EK | 6010/200.7 |
| Hardness (CaCO3) | 334 | 0.10 | mg/L | 11/13/09 | | GL | SW6010/EPA200.7 |
| Iron (Dissolved) | 0.191 | 0.002 | mg/L | 11/06/09 | | EK | 6010/200.7 |
| Iron | 5.05 | 0.002 | mg/L | 11/12/09 | | EK | 6010/200.7 |
| Lead (Dissolved) | < 0.002 | 0.002 | mg/L | 11/06/09 | | EK | 6010/200.7 |
| Lead | < 0.002 | 0.002 | mg/L | 11/12/09 | | EK | 6010/200.7 |
| Manganese (Dissolved) | 0.060 | 0.001 | mg/L | 11/06/09 | | EK | 6010/200.7 |
| Magnesium | 12.0 | 0.01 | mg/L | 11/12/09 | | EK | 200.7/6010 |
| Manganese | 0.311 | 0.001 | mg/L | 11/12/09 | | EK | 6010/200.7 |
| Potassium (Dissolved) | 3.1 | 0.1 | mg/L | 11/06/09 | | EK | 6010/200.7 |
| Potassium | 4.6 | 0.1 | mg/L | 11/16/09 | | EK | 6010/200.7 |
| Sodium (Dissolved) | 4.48 | 0.11 | mg/L | 11/06/09 | | EK | 6010/200.7 |
| Sodium | 5.1 | 0.1 | mg/L | 11/16/09 | | EK | 6010/200.7 |
| Alkalinity (CaCO3) | 342 | 20 | mg/L | 11/06/09 | | EW/EG | SM 2320B |
| Chloride | 5.0 | 3.0 | mg/L | 11/06/09 | | B/E | 300.0 |
| C.O.D. | 270 | 10 | mg/L | 11/10/09 | | LK | SM5220 D |
| Oxygen, Dissolved | 6.73 | 0.05 | mg/L | 11/05/09 | 13:14 | LR | SM4500G |
| Ammonia as Nitrogen | 0.67 | 0.04 | mg/L | 11/10/09 | | WM | 350.1 |
| Nitrate as Nitrogen | 0.07 | 0.05 | mg/L | 11/06/09 | 1:07 | B/E | 300.0/9056 |
| Phenolics | < 0.015 | 0.015 | mg/L | 11/09/09 | | LK | E420.4 |
| Sulfate | < 3.0 | 3.0 | mg/L | 11/06/09 | 1:07 | B/E | 300.0 |
| Tot. Diss. Solids | 330 | 10 | mg/L | 11/05/09 | | VR/KDB | SM2540C |
| Total Organic Carbon | 16 | 1.0 | mg/L | 11/09/09 | | ESG | SM 5310B |
| Turbidity | 4.11 | 0.20 | NTU | 11/06/09 | 3:06 | EW/EG | E180.1 |
| Filtration | Completed | | | 11/05/09 | | AG | 0.45um Filter |
| PCB Extraction | Completed | | | 11/05/09 | | O/O | SW3510/3520 |
| Dissolved Metals Preparation | Completed | | | 11/05/09 | | AG | SW846-3005 |

Project ID: MOREAU LANDFILL
Client ID: S-2

Phoenix I.D.: AS43246

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| Total Metals Digestion | Completed | | | 11/05/09 | | AG | |
| **Polychlorinated Biphenyls** | | | | | | | |
| PCB-1016 | ND | 0.53 | ug/L | 11/06/09 | | MH | 608/ 8082 |
| PCB-1221 | ND | 0.53 | ug/L | 11/06/09 | | MH | 608/ 8082 |
| PCB-1232 | ND | 0.53 | ug/L | 11/06/09 | | MH | 608/ 8082 |
| PCB-1242 | ND | 0.53 | ug/L | 11/06/09 | | MH | 608/ 8082 |
| PCB-1248 | ND | 0.53 | ug/L | 11/06/09 | | MH | 608/ 8082 |
| PCB-1254 | ND | 0.53 | ug/L | 11/06/09 | | MH | 608/ 8082 |
| PCB-1260 | ND | 0.53 | ug/L | 11/06/09 | | MH | 608/ 8082 |
| PCB-1262 | ND | 0.53 | ug/L | 11/06/09 | | MH | 608/ 8082 |
| PCB-1268 | ND | 0.53 | ug/L | 11/06/09 | | MH | 608/ 8082 |
| **QA/QC Surrogates** | | | | | | | |
| % DCBP | 88 | | % | 11/06/09 | | MH | 608/ 8082 |
| % TCMX | 78 | | % | 11/06/09 | | MH | 608/ 8082 |

## Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

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Phyllis Shiller, Laboratory Director
November 24, 2009

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587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# Analysis Report

November 24, 2009

FOR: Attn: Ms. Liz Rovers
CT Male Associates, PC
50 Century Hill Drive
Latham, NY 12110

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | SURFACE WATER | Collected by: | DA | 11/04/09 | 14:30 |
| Location Code: | CT-MALE \| EHC-2S | Received by: | LDF | 11/05/09 | 9:26 |
| Rush Request: | | Analyzed by: | see "By" below | | |
| P.O.#: | 01.7116 | | | | |

## Laboratory Data

SDG ID: GAS43243
Phoenix ID: AS43247

Project ID: MOREAU LANDFILL

Client ID: S-3

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| Calcium | 197 | 0.10 | mg/L | 11/16/09 | | EK | 200.7/6010 |
| Cadmium | 0.001 | 0.001 | mg/L | 11/12/09 | | EK | 6010/200.7 |
| Cadmium (Dissolved) | < 0.001 | 0.001 | mg/L | 11/06/09 | | EK | 6010/200.7 |
| Hardness (CaCO3) | 547 | 0.10 | mg/L | 11/17/09 | | SV | SW6010/EPA200.7 |
| Iron (Dissolved) | 0.639 | 0.002 | mg/L | 11/06/09 | | EK | 6010/200.7 |
| Iron | 277 | 0.020 | mg/L | 11/16/09 | | EK | 6010/200.7 |
| Lead (Dissolved) | < 0.002 | 0.002 | mg/L | 11/06/09 | | EK | 6010/200.7 |
| Lead | 0.041 | 0.002 | mg/L | 11/12/09 | | EK | 6010/200.7 |
| Manganese (Dissolved) | 2.88 | 0.011 | mg/L | 11/13/09 | | TH | 6010/200.7 |
| Magnesium | 13.4 | 0.01 | mg/L | 11/12/09 | | EK | 200.7/6010 |
| Manganese | 5.40 | 0.010 | mg/L | 11/16/09 | | EK | 6010/200.7 |
| Potassium (Dissolved) | 5.2 | 0.1 | mg/L | 11/06/09 | | EK | 6010/200.7 |
| Potassium | 5.9 | 0.1 | mg/L | 11/16/09 | | EK | 6010/200.7 |
| Sodium (Dissolved) | 15.8 | 0.11 | mg/L | 11/06/09 | | EK | 6010/200.7 |
| Sodium | 16.3 | 0.1 | mg/L | 11/16/09 | | EK | 6010/200.7 |
| Alkalinity (CaCO3) | 390 | 100 | mg/L | 11/06/09 | | CL | SM 2320B |
| Chloride | 17 | 3.0 | mg/L | 11/06/09 | | B/E | 300.0 |
| C.O.D. | 1200 | 20 | mg/L | 11/10/09 | | LK | SM5220 D |
| Oxygen, Dissolved | 2.84 | 0.05 | mg/L | 11/05/09 | 13:14 | LR | SM4500G |
| Ammonia as Nitrogen | 3.3 | 0.1 | mg/L | 11/10/09 | | WM | 350.1 |
| Nitrate as Nitrogen | 0.09 | 0.05 | mg/L | 11/06/09 | 1:17 | B/E | 300.0/9056 |
| Phenolics | 0.020 | 0.015 | mg/L | 11/09/09 | | LK | E420.4 |
| Sulfate | 8.1 | 3.0 | mg/L | 11/06/09 | 1:17 | B/E | 300.0 |
| Tot. Diss. Solids | 400 | 10 | mg/L | 11/05/09 | | VR/KDB | SM2540C |
| Total Organic Carbon | 62 | 5.0 | mg/L | 11/09/09 | | ESG | SM 5310B |
| Turbidity | 8.69 | 0.20 | NTU | 11/06/09 | 3:17 | EW/EG | E180.1 |
| Filtration | Completed | | | 11/05/09 | | AG | 0.45um Filter |
| PCB Extraction | Completed | | | 11/05/09 | | O/O | SW3510/3520 |
| Dissolved Metals Preparation | Completed | | | 11/05/09 | | AG | SW846-3005 |

Project ID: MOREAU LANDFILL
Client ID: S-3

Phoenix I.D.: AS43247

| Parameter | Result | RL | Units | Date | Time | By | Reference |
|---|---|---|---|---|---|---|---|
| Total Metals Digestion | Completed | | | 11/05/09 | | AG | |
| **Polychlorinated Biphenyls** | | | | | | | |
| PCB-1016 | ND | 0.52 | ug/L | 11/06/09 | | MH | 608/ 8082 |
| PCB-1221 | ND | 0.52 | ug/L | 11/06/09 | | MH | 608/ 8082 |
| PCB-1232 | ND | 0.52 | ug/L | 11/06/09 | | MH | 608/ 8082 |
| PCB-1242 | ND | 0.52 | ug/L | 11/06/09 | | MH | 608/ 8082 |
| PCB-1248 | ND | 0.52 | ug/L | 11/06/09 | | MH | 608/ 8082 |
| PCB-1254 | ND | 0.52 | ug/L | 11/06/09 | | MH | 608/ 8082 |
| PCB-1260 | ND | 0.52 | ug/L | 11/06/09 | | MH | 608/ 8082 |
| PCB-1262 | ND | 0.52 | ug/L | 11/06/09 | | MH | 608/ 8082 |
| PCB-1268 | ND | 0.52 | ug/L | 11/06/09 | | MH | 608/ 8082 |
| **QA/QC Surrogates** | | | | | | | |
| % DCBP | 32 | | % | 11/06/09 | | MH | 608/ 8082 |
| % TCMX | 90 | | % | 11/06/09 | | MH | 608/ 8082 |

## Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
November 24, 2009

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH NELAC
NY # 11301

# QA/QC Report

November 24, 2009

## QA/QC Data

SDG I.D.: GAS43243

| Parameter | Blank | Dup RPD | LCS % | LCSD % | LCS RPD | MS Rec % | MS Dup Rec % | RPD |
|---|---|---|---|---|---|---|---|---|
| QA/QC Batch 141258, QC Sample No: AS42674 (AS43246, AS43247) | | | | | | | | |
| **ICP Metals - Dissolved** | | | | | | | | |
| Cadmium | BDL | NC | 89.8 | 92.6 | 3.1 | 104 | 101 | 2.9 |
| Calcium | BDL | 0.20 | 92.3 | 95.0 | 2.9 | NC | NC | NC |
| Chromium | BDL | NC | 90.4 | 93.2 | 3.1 | 109 | 106 | 2.8 |
| Iron | BDL | 0.90 | 86.7 | 89.9 | 3.6 | NC | NC | NC |
| Lead | BDL | NC | 88.5 | 91.3 | 3.1 | 105 | 101 | 3.9 |
| Magnesium | BDL | 0.30 | 93.1 | 95.6 | 2.6 | NC | NC | NC |
| Manganese | BDL | 0.80 | 89.6 | 92.3 | 3.0 | NC | NC | NC |
| Potassium | BDL | 2.20 | 82.4 | 84.2 | 2.2 | 124 | 97.6 | 23.8 |
| Sodium | BDL | 0.60 | 82.5 | 84.3 | 2.2 | NC | NC | NC |
| QA/QC Batch 141348, QC Sample No: AS43281 (AS43243, AS43244, AS43245, AS43246, AS43247) | | | | | | | | |
| **ICP Metals - Aqueous** | | | | | | | | |
| Cadmium | BDL | NC | 98.7 | 99.1 | 0.4 | 97.3 | 96.2 | 1.1 |
| Calcium | BDL | 0.20 | 100 | 101 | 1.0 | NC | NC | NC |
| Chromium | BDL | NC | 99.3 | 99.6 | 0.3 | 99.1 | 98.1 | 1.0 |
| Iron | 0.003 | 4.20 | 98.8 | 99.6 | 0.8 | 98.5 | 96.1 | 2.5 |
| Lead | BDL | NC | 97.1 | 97.3 | 0.2 | 97.5 | 96.6 | 0.9 |
| Magnesium | BDL | 0.40 | 99.8 | 100 | 0.2 | NC | NC | NC |
| Manganese | BDL | 0.30 | 98.3 | 98.7 | 0.4 | 96.7 | 96.5 | 0.2 |
| Potassium | BDL | 1.30 | 93.3 | 92.6 | 0.8 | NC | NC | NC |
| Sodium | BDL | 0.90 | 99.0 | 98.8 | 0.2 | NC | NC | NC |

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria

Phyllis Shiller, Laboratory Director
November 24, 2009

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# QA/QC Report

November 24, 2009

## QA/QC Data

SDG I.D.: GAS43243

| Parameter | Blank | Dup RPD | LCS % | LCSD % | LCS RPD | MS Rec % | MS Dup Rec % | RPD |
|---|---|---|---|---|---|---|---|---|
| QA/QC Batch 141735, QC Sample No: AS42676 (AS43243) | | | | | | | | |
| C.O.D. | BDL | NC | 100 | | | 105 | | |
| QA/QC Batch 141484, QC Sample No: AS42807 (AS43247) | | | | | | | | |
| Alkalinity (CaCO3) | BDL | NC | 100 | | | | | |
| QA/QC Batch 141412, QC Sample No: AS43195 (AS43243, AS43244, AS43245, AS43246, AS43247) | | | | | | | | |
| Alkalinity-CaCO3 | BDL | NC | 106 | | | | | |
| QA/QC Batch 141448, QC Sample No: AS43195 (AS43243, AS43244, AS43245) | | | | | | | | |
| Chloride | BDL | 2.70 | 95.7 | | | 95.6 | | |
| QA/QC Batch 141449, QC Sample No: AS43195 (AS43243, AS43244, AS43245) | | | | | | | | |
| Nitrite as Nitrogen | BDL | | 95.7 | | | 94.9 | | |
| QA/QC Batch 141451, QC Sample No: AS43195 (AS43243, AS43244, AS43245) | | | | | | | | |
| Sulfate | BDL | NC | 92.6 | | | 92.3 | | |
| QA/QC Batch 141343, QC Sample No: AS43195 (AS43243, AS43244, AS43245, AS43246, AS43247) | | | | | | | | |
| Tot. Diss. Solids | BDL | 3.58 | 97.4 | | | | | |
| QA/QC Batch 141426, QC Sample No: AS43195 (AS43243, AS43244, AS43245, AS43246, AS43247) | | | | | | | | |
| Turbidity | BDL | 7.40 | 93.8 | | | | | |
| QA/QC Batch 141736, QC Sample No: AS43245 (AS43244, AS43245, AS43246, AS43247) | | | | | | | | |
| C.O.D. | BDL | NC | 102 | | | 108 | | |
| QA/QC Batch 141331, QC Sample No: AS43245 (AS43245, AS43246) | | | | | | | | |
| Oxygen, Dissolved | 8.82 | 1.20 | | | | | | |
| QA/QC Batch 141564, QC Sample No: AS43283 (AS43243, AS43244, AS43245, AS43246, AS43247) | | | | | | | | |
| Ammonia as Nitrogen | BDL | | 102 | | | 103 | | |
| QA/QC Batch 141609, QC Sample No: AS43283 (AS43243, AS43244, AS43245, AS43246, AS43247) | | | | | | | | |
| Phenolics | BDL | NC | 101 | | | 98.0 | | |
| QA/QC Batch 141634, QC Sample No: AS43407 (AS43243, AS43244, AS43245, AS43246, AS43247) | | | | | | | | |
| Total Organic Carbon | BDL | NC | 99.0 | | | | | |
| QA/QC Batch 141635, QC Sample No: AS43408 (AS43243, AS43244, AS43245, AS43246, AS43247) | | | | | | | | |
| Total Organic Carbon | | | | | | 107 | | |
| QA/QC Batch 141452, QC Sample No: AS43566 (AS43246, AS43247) | | | | | | | | |
| Chloride | BDL | | 95.8 | | | | | |
| QA/QC Batch 141454, QC Sample No: AS43566 (AS43246, AS43247) | | | | | | | | |
| Nitrate as Nitrogen | BDL | | 98.3 | | | 96.8 | | |
| QA/QC Batch 141453, QC Sample No: AS43566 (AS43246, AS43247) | | | | | | | | |
| Nitrite as Nitrogen | BDL | | 94.3 | | | 97.4 | | |

# QA/QC Data

SDG I.D.: GAS43243

| Parameter | Blank | Dup RPD | LCS % | LCSD % | LCS RPD | MS Rec % | MS Dup Rec % | RPD |
|---|---|---|---|---|---|---|---|---|
| QA/QC Batch 141455, QC Sample No: AS43566 (AS43246, AS43247) | | | | | | | | |
| Sulfate | BDL | 4.90 | 92.5 | | | 99.2 | | |
| QA/QC Batch 141524, QC Sample No: AS43682 (AS43243, AS43244) | | | | | | | | |
| Bromide | BDL | | 99.8 | | | 98.9 | | |
| QA/QC Batch 141525, QC Sample No: AS43682 (AS43243, AS43244) | | | | | | | | |
| Chloride | BDL | NC | 96.6 | | | 102 | | |
| QA/QC Batch 141527, QC Sample No: AS43682 (AS43243, AS43244) | | | | | | | | |
| Nitrate as Nitrogen | BDL | NC | 100 | | | 95.9 | | |
| QA/QC Batch 141526, QC Sample No: AS43682 (AS43243, AS43244) | | | | | | | | |
| Nitrite as Nitrogen | BDL | NC | 103 | | | 106 | | |
| QA/QC Batch 141528, QC Sample No: AS43682 (AS43243, AS43244) | | | | | | | | |
| Sulfate | BDL | NC | 95.5 | | | 96.4 | | |

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria

Phyllis Shiller, Laboratory Director
November 24, 2009

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac
NY # 11301

# QA/QC Report

November 24, 2009

## QA/QC Data

SDG I.D.: GAS43243

| Parameter | Blank | LCS % | LCSD % | LCS RPD | MS Rec % | MS Dup Rec % | RPD |
|---|---|---|---|---|---|---|---|
| QA/QC Batch 141270, QC Sample No: AS42693 (AS43243, AS43244, AS43245, AS43246, AS43247) | | | | | | | |
| **Polychlorinated Biphenyls** | | | | | | | |
| PCB-1016 | ND | 90 | 94 | 4.3 | | | |
| PCB-1221 | ND | | | | | | |
| PCB-1232 | ND | | | | | | |
| PCB-1242 | ND | | | | | | |
| PCB-1248 | ND | | | | | | |
| PCB-1254 | ND | | | | | | |
| PCB-1260 | ND | 84 | 93 | 10.2 | | | |
| PCB-1262 | ND | | | | | | |
| PCB-1268 | ND | | | | | | |
| % DCBP (Surrogate Rec) | 99 | 89 | 103 | 14.6 | | | |
| % TCMX (Surrogate Rec) | 87 | 82 | 87 | 5.9 | | | |

**Comment:**
A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria

Phyllis Shiller, Laboratory Director
November 24, 2009

PHOENIX

**Environmental Laboratories, Inc.**
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# NY Temperature Narration

**November 24, 2009**

**SDG I.D.: GAS43243**

---

The samples in this delivery group were received at 6C.
(Note acceptance criteria is above freezing up to 6C)

# PHOENIX
*Environmental Laboratories, Inc.*

## CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: service@phoenixlabs.com Fax (860) 645-0823
**Client Services (860) 645-8726**

Temp Pg 1 of 1

**Data Delivery:**
☐ Fax #: _____
☐ Email: _____

Customer: C.T. Male Associates, P.C.
Address: 50 Century Hill Dr
Latham, NY 12110

Project: Moreau Landfill
Report to: L. Rovers
Invoice to: L. Rovers

Project P.O: 01.7116
Phone #: 518 786 7400
Fax #: 518 786 7299

**Client Sample - Information - Identification**

Sampler's Signature: Ben Achtyl Date 11/4/09

**Matrix Code:**
DW=drinking water WW=wastewater S=soil/solid O=other
GW=groundwater SL=sludge A=air SW=Surface Water

**Analysis Request**

| Phoenix Sample # | Customer Sample Identification | Sample Matrix | Date Sampled | Time Sampled | Part 360 Routine Parameters | PCB's | Dissolved Oxygen | Dissolved Metals | Soil VOA [ ] Methanol [ ] | GL Soil container ( ) | GL Soil container | 40 ml VOA Vial [ ] As is [ ] 1:1 HCl | GL Amber 1000ml [ ] As is [ ] H2SO4 | PL As is [ ] 250ml [X] 500ml [ ] 1000ml | PL H2SO4 [ ] 250ml [X] 500ml [ ] 1000ml | PL HNO3 250ml | PL NaOH 250ml | Bacteria Bottle |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | EHC-2S | GW | 11/4/09 | 1250 | X | X | | | | | | 1 | | 1 | 1 | 1 | 1 | |
| | EHC-1S | GW | | 1310 | X | X | | | | | | 1 | | 1 | 1 | 1 | 1 | |
| | S-1 | SW | | 1340 | X | X | X | | | | | 1 | | 1 | 2 | 1 | 1 | |
| | S-2 | SW | | 1410 | X | X | X | X | | | | 1 | | 1 | 2 | 1 | 1 | 1* |
| | S-3 | SW | | 1430 | X | X | X | X | | | | 1 | | 1 | 2 | 1 | 1 | 1* |

| Relinquished by: | Accepted by: | Date: | Time: |
|---|---|---|---|
| | | 11/4/09 | 1620 |

**Turnaround:**
☐ 1 Day*
☐ 2 Days*
☐ 3 Days*
☒ Standard
☐ Other
* SURCHARGE APPLIES

**CT/RI**
☐ RCP Cert.
☐ GW Protect.
☐ GA Mobility
☐ GB Mobility
☐ SW Protect.
☐ Res. Vol.
☐ Ind. Vol.
☐ Res. Criteria
☐ Other

**MA**
☐ MCP Cert.
☐ GW-1
☐ GW-2
☐ GW-3
☐ S-1
☐ S-2
☐ S-3
☐ MWRA eSMART
☐ Other

**Data Format**
☐ Excel
☐ PDF
☐ GIS/Key
☐ EQuIS
☐ Other _____

**Data Package**
☐ ASP-A
☐ NJ Reduced Deliv. *
☐ NJ Hazsite EDD
☐ Phoenix Std Report
☐ Other

Comments, Special Requirements or Regulations:
Part 360 Routine Parameters (effective 12/5/88 revised 5/28/01)
*Filter + fix extra bottle for dissolved metals

State where samples were collected: NY

# PHOENIX
*Environmental Laboratories, Inc.*

## CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: service@phoenixlabs.com Fax (860) 645-0823
**Client Services (860) 645-8726**

Temp 0 Pg 1 of 1

**Data Delivery:**
☐ Fax #: _____
☐ Email: _____

Customer: C.T. Male Associates, P.C.
Address: 50 Century Hill Dr
Latham, NY 12110

Project: Moreau Landfill
Report to: L.Z Rovers
Invoice to: L.Z Rovers

Project P.O: 01.7116
Phone #: 518 786 7400
Fax #: 518 786 7299

**Client Sample - Information - Identification**

Sampler's Signature: Dan Achtyl Date 11/4/09

**Matrix Code:**
DW=drinking water WW=wastewater S=soil/solid O=other
GW=groundwater SL=sludge A=air SW=Surface Water

**Analysis Request**

| Phoenix Sample # | Customer Sample Identification | Sample Matrix | Date Sampled | Time Sampled | Part 360 Routine Parameters | PCBs | Dissolved Oxygen | Dissolved Metals | Soil VOA [ ] Methanol [ ] S. Bisulfate [ ] H2O | GL Soil container ( ) oz | GL Soil container ( ) oz Amber | 40 ml VOA Vial [ ] As is [ ] HCl | GL Amber 1000ml [X] As is [ ] H2SO4 | PL As is [ ] 250ml [X] 500ml [ ] 1000ml | PL H2SO4 [ ] 250ml [X] 500ml | PL HNO3 250ml | PL NaOH 250ml | Bacteria Bottle |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 43243 | EHC-2S | GW | 11/4/09 | 12:50 | X | X | | | | | 1 | | 1 | 1 | 1 | 1 | | |
| 43244 | EHC-1S | GW | | 13:10 | X | X | | | | | 1 | | 1 | 1 | 1 | 1 | | |
| 43245 | S-1 | SW | | 13:40 | X | X | X | | | | 1 | | 1 | 2 | 1 | 1 | | |
| 43246 | S-2 | SW | | 14:10 | X | X | X | X | | | 1 | | 1 | 2 | 1 | 1 | 1* | |
| 43247 | S-3 | SW | | 14:30 | X | X | X | X | | | 1 | | 1 | 2 | 1 | 1 | 1* | |

| Relinquished by: | Accepted by: | Date: | Time: |
|---|---|---|---|
| | | 11/4/09 | 1620 |
| Eastern Connection | | 11/5 | 9:20 |

Comments, Special Requirements or Regulations:
Part 360 Routine Parameters (effective 12/31/88 revised 5/28/91)
*Filter + fix extra bottle for dissolved metals

**Turnaround:**
☐ 1 Day*
☐ 2 Days*
☐ 3 Days*
☒ Standard
☐ Other

SURCHARGE APPLIES

**CT/RI**
☐ RCP Cert.
☐ GW Protect.
☐ GA Mobility
☐ GB Mobility
☐ SW Protect.
☐ Res. Vol.
☐ Ind. Vol.
☐ Res. Criteria
☐ Other

**MA**
☐ MCP Cert.
☐ GW-1
☐ GW-2
☐ GW-3
☐ S-1
☐ S-2
☐ S-3
☐ MWRA eSMART
☐ Other

State where samples were collected: NY

**Data Format**
☐ Excel
☐ PDF
☐ GIS/Key
☐ EQuIS
☐ Other _____

**Data Package**
☐ ASP-A
☐ NJ Reduced Deliv. *
☐ NJ Hazsite EDD
☐ Phoenix Std Report
☐ Other