**DEPARTMENT OF THE AIR FORCE**
**AIR FORCE CIVIL ENGINEER CENTER**

December 15, 2015

MEMORANDUM FOR: Mr. Mark Tibbe
NYS Department of Environmental Conservation
207 Genesee Street
Utica, New York 13501-2885

FROM: AFCEC/CIBE – Plattsburgh
8 Colorado Street, Suite 121
Plattsburgh NY, 12903

SUBJECT: Draft Building 785 Pipeline Remedial Action Report
Former Griffiss Air Force Base (AFB) Rome, New York
Contract Number FA8903-10-D-8595
Delivery Order 0014
December 2015

Accompanying this letter please find the "Draft Building 785 Pipeline Remedial Action Report", for your review and comment. This report presents the remedial action conducted in June 2015 and the October 2015 performance monitoring sampling results for petroleum contamination associated with NYSDEC Spill Number 1408594.

We would appreciate review comments by January 29, 2015 so that project schedules and performance milestones can be maintained in accordance with this PBR Contract.

Should you have any questions or concerns please contact me at 518-563-2871.

David S. Farnsworth
Program Manager/BRAC Environment Coordinator
BRAC Program Execution Branch

**FINAL**

# 2015
# ANNUAL LONG TERM MONITORING REPORT/ OPTIMIZED EXIT STRATEGY REPORT

## LANDFILL AREAS OF CONCERN
## (LF001 (LANDFILL 1 AOC), LF002 (LANDFILL 2/3 AOC), LF003 (LANDFILL 7 AOC), LF007 (LANDFILL 5 AOC), AND LF009 (LANDFILL 6 AOC))

## FORMER GRIFFISS AIR FORCE BASE
## ROME, NEW YORK

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**Contract Number FA8903-10-D-8595**

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## LIST OF ACRONYMS AND ABBREVIATIONS

| | |
|---|---|
| **AFB** | Air Force Base |
| **AFCEC** | Air Force Civil Engineer Center |
| **AOC** | Area of Concern |
| **AOI** | Area of Interest |
| **bgs** | below ground surface |
| **CAPE** | CAPE Environmental |
| **CERCLA** | Comprehensive Environmental Response, Compensation, and Liability Act |
| **COC** | contaminant of concern |
| **CQCR** | Chemical Quality Control Reports |
| **CY** | cubic yard |
| **DCE** | dichloroethene |
| **FPM** | FPM Remediations, Inc. |
| **ft** | feet |
| **LEL** | Lower Explosive Limit |
| **LTM** | long term monitoring |
| **LUC/IC** | Land use Control/Institutional Control |
| **MAROS** | Monitoring and Remediation Optimization Systems |
| **mg/L** | milligrams per liter |
| **MSL** | mean sea level |
| **µg/L** | micrograms per liter |
| **NYCRR** | New York Codes of Rules and Regulations |
| **NYS** | New York State |
| **NYSDEC** | New York State Department of Environmental Conservation |
| **OES** | Optimized Exit Strategy |
| **PCB** | polychlorinated biphenyl |
| **PCU** | platinum-cobalt units |
| **POC** | point of compliance |
| **PPM** | parts per million |
| **SI** | Supplemental Investigation |
| **RA** | Remedial Action |
| **RI** | Remedial Investigation |
| **ROD** | Record of Decision |

## LIST OF ACRONYMS AND ABBREVIATIONS (continued)

| | |
|---|---|
| **TCE** | trichloroethylene/trichloroethene |
| **TDS** | Total Dissolved Solids |
| **TKN** | Total Kjeldahl Nitrogen |
| **TMC** | Three Mile Creek |
| **UFP QAPP** | Uniform Federal Policy Quality Assurance Project Plan |
| **USEPA** | United States Environmental Protection Agency |
| **VC** | Vinyl Chloride |
| **VOC** | Volatile Organic Compound |
| **WP** | Work Plan |

# 1 INTRODUCTION

FPM Remediations Inc. (FPM), in association with CAPE Environmental (CAPE), has been contracted by the Air Force Civil Engineer Center (AFCEC) to perform Long Term Monitoring (LTM) at Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) sites at the former Griffiss Air Force Base (AFB), New York. The work discussed in this Annual Report is being conducted through contract number FA8903-10-D-8595-0014.

The purpose of this report is to track and monitor the effectiveness of the LTM program and provide an update to the optimized exit strategy (OES) that was proposed in 2011. The LTM program was developed for each Landfill Area of Concern (AOC) using the New York Codes of Rules and Regulations (NYCRR) Part 360 Regulations and was implemented to monitor the presence of contaminants of concern (COCs), assess the potential for migration of the COCs, identify groundwater trends for the COCs and establish an early warning system for assuring compliance with the potential COC receptors. By analyzing current and previous LTM data (groundwater, surface water and landfill gas), this report is also used to assess the LTM network functionality and potential optimization opportunities. The optimization recommendations are presented in the "Recommendation" sections for each site.

The following sections describe the 2015 site activities for the former Griffiss AFB Landfill AOCs. The site activities include landfill cap inspections and maintenance, landfill gas monitoring, and groundwater and surface water sampling. All activities performed at the Landfill AOCs are based on the elements provided in each Landfill AOCs individual work plan as referenced in the following sections.

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# 2 LF001 (LANDFILL 1 AOC)

## 2.1 SITE BACKGROUND

### 2.1.1 Site History

Landfill 1, approximately 22 acres in size, is located in the northeastern portion of the former Griffiss AFB on the east side of Six Mile Creek, northeast of the flight line and within the Six Mile Creek Drainage Basin. The landfill is bounded by the installation boundary to the north, regulated wetlands to the east, Six Mile Creek and regulated wetlands to the west and woodlands to the south (FPM, October 2002). Figure 2-1 illustrates the landfill boundary and the locations of monitoring wells. The wastes deposited at Landfill 1 consisted of general refuse, hardfill, and boiler ash that was buried using trench and cover methods. An estimated 90,000-100,000 cubic yards (CY) of wastes were disposed of at the site from 1960-1973. During a Landfill Cover Investigation performed in 1997 (LAW, December 1997) landfill waste was encountered anywhere from the surface (southwest corner of the landfill) to beyond 4 ft. Generally, debris was encountered at depths of 2 to 4 feet (ft). The total thickness of the debris was not determined.

The Record of Decision (ROD) for LF001 (Landfill 1 AOC) was signed by the United States Environmental Protection Agency (USEPA) on June 5, 2000. In accordance with the ROD, the landfill was re-graded and capped in 2003. The cap components include a gas venting layer, a 40-mil linear low density polyethylene geomembrane liner, a geocomposite drainage net, a minimum 12 inch thick barrier protection layer and a minimum 6 inch thick layer of topsoil. In addition to the cap, a groundwater/leachate collection trench was installed along the western edge of Landfill 1 to control leachate outbreaks and prevent them from adversely affecting the landfill cover or threatening surface waters. Following a groundwater/leachate collection trench pump test in November 2003 the continuation of the groundwater/leachate treatment system design and construction was suspended due to low levels of COCs entering the trench. The trench still remains at the western edge of Landfill 1. A ROD Amendment for the LF001 (Landfill 1 AOC) to remove the requirement for the collection and treatment of groundwater/ leachate at the landfill toe was signed be the USEPA on September 25, 2009. Five-Year Reviews were conducted in 2005 and 2010. Both Five-Year Reviews indicated that the selected remedy is protective of human health and the environment.

A passive gas vent trench was installed between the northwestern landfill perimeter and the northern property boundary to prevent the migration of methane into neighboring properties in 2005 (Figure 2-2).

### 2.1.2 Site Geology and Hydrogeology

Landfill 1 rests on low permeability Utica Shale bedrock. The bedrock slopes to the southwest through the site at approximately 2 ft per 100 ft. The downward slope of the land surface towards Six Mile Creek and the unnamed stream south of the landfill truncates the thickness of unconsolidated material (glacial outwash and wastes) above bedrock. The decreased depth of these materials also reduces the thickness of the aquifer above the Utica Shale.

In December 1998, the unconfined aquifer under Landfill 1 varied in saturated thickness from about 7.5 ft in monitoring well HS4MW-1 at the northeast boundary of the landfill to more than 18 ft in LF1MW-101 located at the southwest boundary of the landfill. The saturated aquifer thickness measured in LF1P-2 along the southwest toe of the landfill was about 8.5 ft and may be less near the banks of the creek and along the unnamed creek tributary just south of Landfill 1. The steep slope of the land surface intersects the water table surface in the area south of the landfill, which causes the formation of springs and seeps (LF1L-1, -2, LF1LL-1 and -2).

The southwesterly course of groundwater flow continues on the east side of Six Mile Creek, although the gradient is much more gradual because of (a) groundwater discharged to the creek and (b) change in the thickness dimension of the aquifer. In this area, the land surface becomes topographically flat while the bedrock surface continues to slope to the southwest. The saturated aquifer thickness increases to in excess of 18 ft as measured in LF1P-5. Depth to water in wells in this area is generally less than 5 ft, as measured in wells LF1P-5 and LF1MW-7. The shallowness of the depth to water in the area helps create the jurisdictional wetlands, which drain southeast to Six Mile Creek.

The hydraulic conductivity value for the area in which Landfill 1 AOC is located is 50 ft/day or 0.0347 ft/minute. Based on the assigned hydraulic conductivity, a modeled hydraulic gradient of 0.025 ft per foot and an estimated effective porosity of 20 % exists at Landfill 1. Ground water flow was calculated to be 2,280 ft per year. (LAW, December 1996). Groundwater flows to the southwest in the area of Landfill 1.

### 2.1.3 Previous LTM Activities and Results

For readability, previous investigations and LTM sampling plan sections have been removed from this report. These sections are provided in the 2009 Landfill AOCs LTM Report (FPM, November 2010). The following summarizes the previous LF001 (Landfill 1 AOC) LTM network activities and results.

LTM was initiated at LF001 in December 2003 in accordance with the LF001 (Landfill 1 AOC) Closure Plan (Conti & EA, October 2002) at 11 monitoring wells (MWSAR03, LF1P-2, -3, -5, LF1MW-1R, -5, -6, -10, -11, -12 and -13) and 3 surface water locations (LF1SW-1, -2SMC, and -3)). LF1MW-103 was added to the LTM network during the March 2004 sampling round and LF1MW-14 was added to the LTM network during the December 2004 sampling round. These sampling locations are illustrated in Figure 2-2. The LTM network was analyzed quarterly (routine) and annually (baseline) for New York State Department of Environmental Conservation (NYSDEC) Part 360 Parameters and volatile organic compounds (VOCs) from 2003 through 2006. The LTM network (groundwater and surface water monitoring) was optimized to semi-annual for 2007 and 2008 and then to annual from 2009 through 2013. All recommendations to alter the sampling network were provided in previous Landfill AOCs LTM Reports and CERCLA Sites Optimization Plans (CAPE/FPM, November 2011) which were reviewed by the USEPA and NYSDEC.

Boron, cyanide, mercury, polychlorinated biphenyls (PCBs), pesticides, and phenols were analyzed until 2006 and were then removed from the LTM sampling network due to their low or non-detect concentrations at the site. VOCs currently detected above the New York State (NYS) groundwater/surface water standards include 1,2-dichlorobenzene, 1,3-dichlorobenzene, benzene, and chlorobenzene. These exceedances only occur at monitoring wells LF1MW-11 and LF1MW-5 (benzene only) and concentrations have been stable and/or decreasing. Landfill leachate indicators previously detected above the NYS groundwater/surface water standards include ammonia, color, total dissolved solids (TDS), and total Kjeldahl nitrogen (TKN). The landfill leachate indicator detections showed stable trends. Metals analysis for this site showed levels above NYS groundwater/surface water standards. Metals that exceed standards include manganese, iron, sodium, aluminum, chromium, and nickel. However, several of the metals (e.g., manganese, iron, sodium) are indicative of base background conditions. As a result, metals analysis was eliminated from the Landfill 1 LTM network in 2011 in accordance with the LF001 (Landfill 1 AOC) Optimization Plan (CAPE/FPM, November 2011).

Landfill gas monitoring is performed at Landfill 1 to identify the presence and concentration of methane at or near the landfill. A total of 18 gas monitoring probes and 31 landfill gas vents were monitored on a quarterly basis from October 2005 until May 2010. Landfill gas monitoring was optimized after the spring 2010 sampling round to semiannual. Results from the gas sampling events at Landfill 1 continue to show elevated methane concentrations throughout the landfill. However, methane concentrations at point of compliance (POC) gas monitoring probes (LF1GMP-13 through -17) remained at non-detectable concentrations through the fall 2014 sampling round. The absence of methane at the POC gas monitoring probes demonstrates continued protection of potential receptors. In addition, the passive gas trench installed near the northwestern perimeter of Landfill 1 to prevent methane migration into neighboring properties appears to remain an effective barrier.

Since April 2005, landfill inspections and cover maintenance have been performed at Landfill 1. Inspections and maintenance were optimized after the spring 2010 sampling round and are now conducted on a semiannual basis with annual landfill cover mowing (fall). Land Use Control/Institutional Controls (LUC/ICs) were implemented in accordance with the ROD and are verified annually as part of the landfill cover inspection program. The fall inspections are performed in conjunction with the Base-wide LUC/IC Site Inspections.

Previous LTM results are provided in detail in the Spring 2009 Landfill AOCs LTM Report (FPM, November 2010), Spring 2010 Landfill AOCs LTM Report (FPM, February 2012), 2011 Landfill AOCs LTM Report (FPM/CAPE, July 2012), 2012 Landfill AOCs LTM Report (FPM/CAPE, March 2013), 2013 Landfill AOCs LTM Report (FPM/CAPE, February 2014) and the 2014 Landfill AOCs LTM Report (FPM/CAPE August 2015).

## 2.2 LF001 (LANDFILL 1 AOC) – 2015 SITE ACTIVITIES

This section describes the Landfill 1 AOC site activities and monitoring data for 2015. The field activities include semiannual landfill cap inspections, semiannual landfill gas monitoring, annual groundwater and surface water sampling, and annual landfill cap mowing. The LF001 (Landfill 1 AOC) LTM Network sampling locations are illustrated in Figure 2-2.

### 2.2.1 Landfill Cap Inspections/Maintenance

The spring 2015 inspection was conducted in May 2015 and did not identify any major deficiencies that would jeopardize the integrity of the cover.

The fall 2015 inspection was conducted in September 2015 following landfill mowing. The annual landfill mowing event was also conducted in September 2015. The inspection did not identify any major deficiencies that would jeopardize the integrity of the cover.

The semiannual inspection reports (Post-Closure Monitoring Reports) for spring 2015 and fall 2015 can be found in Appendix A.

### 2.2.2 Landfill Gas Monitoring

Landfill gas monitoring was conducted at 18 gas monitoring probes (LF1GMP-1, -2, -3, -4, -6, -8, -9, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, and -20) and 31 gas vents (LF1VENT-1 through -31) in spring 2015 and fall 2015. These locations are illustrated in Figure 2-2. Readings were collected for methane concentrations, Lower Explosive Limit (LEL) for methane, oxygen levels and carbon dioxide levels. LEL, methane, oxygen and carbon dioxide readings are all expressed as percent by volume. The LEL for methane is 5% by volume (Matheson Gas Data Book, 2001). The spring 2015 and fall 2015 monitoring results are discussed below and can be found in Table 2-1. Please note that the methane percentages expressed in Table 2-1 are based on the LEL for methane, which is 5% by volume.

Spring 2015 landfill gas readings were taken in May 2015. LEL values equaled or exceeded 100% at one gas monitoring probe (LF1GMP-6). LEL values also equaled or exceeded 100% at 20 gas vents (LF1GV-1, -2, -3, -6, -8 to -14, -17 to -22, -24, -25 and -27). The highest methane concentration reported at a gas monitoring probe was 32.2 % by volume at LF1GMP-06. The highest methane concentration reported at a gas vent was 31.7 % by volume at LF1VENT-1.

Fall 2015 landfill gas readings were taken in September 2015. LEL values equaled or exceeded 100% at seven gas monitoring probes (LF1GMP-1, -2, -3, -4, -6, -9 and -10). LEL values did not equal or exceed 100% at any of the gas vents. The highest methane concentration reported at a gas monitoring probe was 77.0 % by volume at LF1GMP-6. The highest methane concentration reported at a gas vent was 0.1 % by volume at LF1VENT-6.

The 2015 landfill gas monitoring results also showed that the passive gas trench remains effective as no methane detections were reported at gas monitoring probes located north of the passive gas trench (Figure 2-2).

### 2.2.3 Groundwater and Surface water Monitoring

Groundwater and surface water monitoring was conducted at 12 monitoring wells (LF1P-2, -3, -5, LF1MW-1R, -5, -10, -11, -12, -13, -14, -103, and MWSAR03) and three surface water locations (LF1SW-1, -2, and -3) for leachate indicators in June 2015. In accordance with the

CERCLA Sites Optimization Plans (FPM/CAPE, November 2011), VOCs analysis was also conducted for monitoring wells LF1MW-5, -6, -11, -12, LF1P-2, and MWSAR03 and for surface water locations LF1SW-1, -2, and -3. These locations are also illustrated in Figure 2-2

All sampling activities were performed in accordance with the Updated 2014 Uniform Federal Policy Quality Assurance Project Plan (UFP QAPP) for Performance Based-Remediation at the Former Griffiss AFB (CAPE/FPM, July 2015). All groundwater and surface water analytical data is presented in Table 2-2. Daily Chemical Quality Control Reports (CQCRs) completed during the June 2015 sampling round are provided in Appendix B. The complete list of analytes and the validated laboratory data are attached in Appendix C and the raw laboratory data are available in Appendix D.

### 2.2.3.1 Groundwater Monitoring Results

VOCs:

A benzene exceedance was reported at LF1MW-5 (1.3 micrograms per liter [µg/L]), which was within one order of magnitude of the NYS Class GA Groundwater Standards and are similar to previous LTM results. The VOC plume at the site is illustrated in Figure 2-2. Figure 2-3 illustrates the VOC concentrations above NYS Class GA Standards and associated monitoring wells.

Landfill Leachate Indicators:

Leachate indicator exceedances were reported at monitoring wells LF1MW-5, -6, -13, -1R, -103, LF1P-2 and -5. These exceedances are summarized below:

- TKN exceeded the NYS Groundwater Standard at monitoring well LF1MW-5 (1.4 milligrams per liter [mg/L]), LF1MW-103 (22 mg/L) and LF1P-2 (1.1 mg/L). The NYS Class GA Groundwater Standard of TKN is 1 mg/L.
- TDS exceeded the NYS Groundwater Standard at monitoring well LF1P-2 (540 mg/L). The NYS Class GA Groundwater Standard for TDS is 500 mg/L.
- Ammonia exceeded the NYS Groundwater Standard at monitoring well LF1MW-5 (2.8 mg/L) and LF1MW-103 (32 mg/L). The NYS Class GA Groundwater Standard for ammonia is 2 mg/L.
- Color exceeded the NYS Groundwater Standard at monitoring wells LF1MW-5 (180 platinum-cobalt units (pcu)), LF1MW-6 (60 pcu), LF1P-2 (200 pcu), LF1P-5 (100 pcu), LF1MW-1R (250 pcu), LF1MW-13 (200 pcu), LF1MW-103 (30 pcu) and MWSAR03 (130 pcu). The NYS Groundwater Standard for color is 15 pcu.

Comparison of the 2015 and previous LTM results shows that TKN, TDS, ammonia and color concentrations are stable at the site.

Synoptic Results

The following summarizes the groundwater elevations (above mean sea level [MSL]) for each monitoring well sampled at Landfill 1 in the June 2015 sampling round: MWSAR03 (516.43 ft), LF1P-2 (499.61 ft), LF1P-3 (504.51 ft), LF1P-5 (492.21 ft), LF1MW-1R (5537.36 ft), LF1MW-5 (494.29 ft), LF1MW-6 (495.51 ft), LF1MW-10 (505.36 ft), LF1MW-11 (499.10 ft), LFMW-12

(501.18 ft), LF1MW-13 (488.77 ft), LF1MW-14 (495.81 ft) and LF1MW-103 (487.01 ft). Based on the groundwater elevations above, the updated average hydraulic gradient at LF002 is approximately 0.0224 ft per foot. The groundwater elevations continue to indicate a southwestern groundwater flow gradient (Figure 2-4).

### 2.2.3.2 Surface Water Monitoring Results

VOCs:
No VOC exceedances were reported.

Leachate Indicators:
Color exceeded the NYS Groundwater Standard at sampling locations LF1SW-2SMC (80 pcu) and LF1SW-3 (35 pcu). The NYS Groundwater Standard for color is 15 pcu.

### 2.2.3.3 MAROS Analysis

The purpose of the Monitoring and Remediation Optimization System (MAROS) methodology is to recommend an improved groundwater monitoring network by applying statistical techniques to existing historical and current site analytical data. The MAROS methodology also considers hydrogeologic factors, regulatory framework, and the location of potential receptors. The software trends and suggests components of an improved plan by analyzing individual monitoring wells in the current monitoring system as well as plume wide trends (if applicable).

For the purpose of evaluating the LF001 (Landfill 1 AOC) LTM network, only the statistical trend analysis portion of the MAROS program was utilized (Mann-Kendall Test and Linear Regression Analysis). Statistical trend analysis was used to determine if concentrations of site-specific target COCs, metals, and indicator parameters would exhibit any discernable trends.

As required by the MAROS program, several assumptions were necessary in order to perform the selected analyses. They included the following:

1. The MAROS optimization program has been applied to the Landfill 1 LTM network for data collected December 2003 through June 2015.
2. The MAROS program requires the selection of a single source area for each analyte and the designation of source area wells. For the purpose of this analysis, an area surrounding monitoring wells LF1P-2 and LF1MW-5 was used as the source area (historically based). Monitoring wells LF1MW-5, -11, and LF1P-2 were used as source area wells, due to historically elevated COC concentrations. Landfill 1 LTM monitoring wells LF1MW-12 and MWSAR03 were designated as tail wells. These source/ tail well designations were required for the MAROS program to perform any analysis. However, the plume analysis (including source or tail areas stability) was not relied upon for the evaluation of the LTM network.
3. The MAROS software uses site-specific hydrogeologic parameters, including groundwater seepage velocity, porosity, contaminated saturated water column thickness, and receptor locations.

4. Any non-detect values were set to one half the detection limit. By standardizing the non-detect values, any problems with trend interpretation caused by changing detection limits were avoided.

### 2.2.3.4 COC Selection

The following constituents were selected for the MAROS analysis as the primary COCs for the site: benzene, 1,2-dichlorobenzene, 1,4-dichlorobenzene and chlorobenzene,

The selection of these four target COCs is based on considerations of risk, magnitude, extent, and past investigations of the site. Moreover, the selection of these target constituents is in compliance with Appendix A.7 of the MAROS guidance. The MAROS guidance recommends choosing as few constituents as possible and that they are conclusive and not borderline relative to set criteria, such as cleanup goals. By doing so, errors in data due to spatial and temporal variations caused by the natural variability of the subsurface system and the resulting likelihood of false identifications are limited.

The following summarizes the results of the Mann-Kendall test. Linear Regression was used to confirm any trend reported by the Mann-Kendall test. The statistical summary sheets for both tests can be located in Appendix E. The summarized results for the target COCs and indicator parameters are summarized below and detailed in Table 2-3.

Benzene:

| Source Wells | Mann-Kendall Trend | Linear Regression Trend | MAROS Recommended Sampling Frequency |
|---|---|---|---|
| LF1MW-5 | decreasing | decreasing | Annual |
| LF1MW-11 | decreasing | decreasing | Annual |
| LF1P-2 | decreasing | decreasing | Annual |
| Tail Wells | | | |
| LF1MW-6 | no trend | no trend | Annual |
| LF1MW-10 | non detect | non detect | Biennial |
| LF1MW-12 | non detect | non detect | Biennial |
| MWSAR03 | no trend | no trend | Annual |

1,2-Dichlorobenzene:

| Source Wells | Mann-Kendall Trend | Linear Regression Trend | MAROS Recommended Sampling Frequency |
|---|---|---|---|
| LF1MW-5 | non detect | non detect | Biennial |
| LF1MW-11 | decreasing | decreasing | Annual |
| LF1P-2 | stable | stable | Biennial |
| Tail Wells | | | |
| LF1MW-6 | non detect | non detect | Biennial |
| LF1MW-10 | non detect | non detect | Biennial |
| LF1MW-12 | non detect | non detect | Biennial |
| MWSAR03 | non detect | non detect | Biennial |

1,4-Dichlorobenzene:

| Source Wells | Mann-Kendall Trend | Linear Regression Trend | MAROS Recommended Sampling Frequency |
|---|---|---|---|
| LF1MW-5 | decreasing | decreasing | Annual |
| LF1MW-11 | decreasing | decreasing | Annual |
| LF1P-2 | no trend | no trend | Annual |
| Tail Wells | | | |
| LF1MW-6 | no trend | no trend | Biennial |
| LF1MW-10 | decreasing | decreasing | Annual |
| LF1MW-12 | no trend | increasing | Biennial |
| MWSAR03 | stable | no trend | Annual |

Chlorobenzene:

| Source Wells | Mann-Kendall Trend | Linear Regression Trend | MAROS Recommended Sampling Frequency |
|---|---|---|---|
| LF1MW-5 | decreasing | decreasing | Annual |
| LF1MW-11 | decreasing | decreasing | Annual |
| LF1P-2 | decreasing | decreasing | Annual |
| Tail Wells | | | |
| LF1MW-6 | no trend | no trend | Annual |
| LF1MW-10 | no trend | probably decreasing | Biennial |
| LF1MW-12 | non detect | non detect | Biennial |
| MWSAR03 | increasing | increasing | Annual |

### 2.2.4 Conclusions

Landfill Cap Inspections and Maintenance

The semiannual inspections have not identified any major deficiencies that would jeopardize the integrity of the cover and there is optimal vegetation cover on the cap. Inspections are also conducted following significant weather events (5-year storm events). No significant weather events have occurred in 2015. If a significant weather event is recorded during the remainder of the year, an emergency response landfill inspection will be conducted and reported.

Landfill Gas Monitoring

Elevated methane concentrations continue to be recorded throughout the LF001 (Landfill 1 AOC). However, methane concentrations at POC gas monitoring probes (LF1GMP-13 through -17) remained non-detectable through the September 2015 sampling round. The absence of methane at the POC gas monitoring probes demonstrates continued protection of potential receptors. In addition, the passive gas trench installed near the northwestern perimeter of Landfill 1 to prevent methane migration into neighboring properties appears to remain effective. The effectiveness of the system is made apparent by the gradient established between LF1GMP-4 and LF1GMP-19. LF1GMP-4 was installed between the landfill boundary and the passive gas trench (Figure 2-2); methane readings at this location have frequently exceeded the LEL. In contrast, LF1GMP-19 was installed just outside of both the landfill boundary and the passive gas trench and within 25 ft of LF1GMP-4 (Figure 2-2); methane readings at this location are consistently lower than those reported at LF1GMP-4 and in some sampling rounds orders of magnitude less.

Groundwater and Surface Water

Only LF1MW-5 showed a VOC exceedance. Figure 2-5 has been provided to illustrate the stable and/or decreasing VOC exceedances at monitoring wells LF1MW -5 and -11 over time. All of the detections are within one order of magnitude of the NYS Groundwater Standard.

Landfill leachate indicators were above NYS groundwater and surface water standards at LF1MW-5, -6, -13, -1R, -103, LF1P-2, -5 and MWSAR03. The exceedances included TKN, TDS, color and ammonia.

The concentrations of TKN, TDS, and ammonia at the overburden wells are comparable to previous results and below the typical range of municipal landfill leachate (Lee and Jones, 1991). This reference was used during the Baseline Study of the former Griffiss AFB Landfill AOCs and is provided in Table 2-4. LF1MW-103, the bedrock well, showed higher concentrations of indicator parameters ammonia and TKN compared to the overburden wells. The ammonia and TKN concentrations detected at LF1MW-103 were still within the typical range of municipal landfill leachate. The concentrations of other indicator parameters are generally low for the bedrock well, which discounts the possibility of leachate impacts. The higher concentrations at the bedrock well may also be attributed to differences in the geochemical environment of the water-table associated with the overburden well and the bedrock well; the difference in

mineralogy between the bedrock (shale) and the overburden may account for the observed chemical differences.

Color concentrations reported during the June 2015 sampling round were higher than the previous sampling round at downgradient monitoring wells LF1MW-5, -6, -10, -12, -13, -14, -103, LF1P-2, -3, -5 and MWSAR03, upgradient well LF1MW-1R, and surface water sampling locations LF1SW-2SMC and -3. The increase may be attributed to natural conditions caused by greater rainfall and surface water runoff. Eight color exceedances occurred during the June 2015 sampling round (LF1MW-5, -6, -13, -1R, -103, LF1P-2, -5 and MWSAR03). Similar color concentrations were reported at an above average number of wells and surface water locations at all other landfills during the June 2015 round. Future monitoring events will determine whether or not this was an anomaly.

The alkalinity and hardness concentrations at downgradient monitoring wells ranged from 35 mg/L to 450 mg/L, and 25 mg/L to 450 mg/L, respectively. Alkalinity and hardness concentrations at the LF001 LTM Network monitoring wells show no trends and are stable, respectively, as shown in Figure 2-6 and Figure 2-7. Alkalinity and hardness are important indicators of the plume extent because the landfill material tends to propagate microbial activity which generates carbon dioxide. This process increases the dissolution of minerals and alkalinity which increases hardness (Baedecker and Back, 1979). The stability of these parameters suggests that the landfill plume is fairly static.

For the June 2015 sampling round, alkalinity and hardness levels throughout the LTM network exceeded the level measured in the background well, LF1MW-1R (alkalinity was 37 mg/L and hardness was 58 mg/L). The highest levels of alkalinity and hardness are present in downgradient monitoring wells LF1MW-5, -6, LF1P-2 and -3. Alkalinity levels appear to decrease as they approach the POC monitoring wells (LF1P-5 and LF1MW-13). The concentrations of leachate indicators alkalinity and hardness are plotted in Figure 2-8.

MAROS Analysis

Utilizing the results of the LTM sampling rounds, MAROS analysis was performed for the Landfill 1 AOC LTM network. Target COCs are selected for MAROS analysis based on recent VOC concentration exceedances at LF001 (Landfill 1 AOC). Results of the evaluation confirmed a decreasing trend at source monitoring wells for the selected target COCs (benzene, 1,2-dichlorobenzene, 1,4-dichlorobenzene, and chlorobenzene) (Appendix E).

Based on the results of over 50% of the tail monitoring wells, the evaluation confirmed a stable trend for 1,4-dichlorobenzene concentrations, a stable trend for chlorobenzene, no trend/non detect for benzene and non detect for 1,2-dichlorobenzene (Appendix E).

## 2.3 LTM RECOMMENDATIONS

The landfill leachate concentrations are still within or below the typical range of municipal landfill leachate (Lee and Jones, 1991) and VOC concentrations are decreasing. The current scope of annual groundwater sampling and surface water sampling is recommended for 2016;

please refer to Table 2-5 for the summary of the LF001 (Landfill 1 AOC) LTM Network. If landfill leachate indicator and/or VOC concentrations show a sustained increase in levels, changes to the LTM sampling network (i.e. increased sampling frequency and/or a return to sampling the baseline study analyte list) would be recommended to address this concern. In addition to the monitoring recommendations above, it is recommended that the hydraulic conductivity be re-evaluated prior to the next Five Year Review to confirm the groundwater flow rates reported during the 1994 RI.

Based on the landfill cap inspections, it is recommended that the frequency continue semiannually. This is a deviation from the 2013 OES Plan which recommended annual landfill cap inspections. The semiannual inspections ensure that vegetation growth on the landfill cap shows optimal coverage for erosion control and cover system stabilization. Semiannual inspections in the spring and fall ensure that nothing detrimental to the landfill cap occurred during the winter months or during the summer months which can bring heavy rains. Additional inspections or maintenance will be performed as needed, as identified in the Landfill 1 O&M Manual (Conti, January 2005).

Based on the landfill gas monitoring results, it is recommended that the frequency be reduced from semiannual to annual sampling. Landfill gas monitoring from 2011 to 2015 shows that elevated methane levels are stable or absent at all of the POC gas monitoring probes. The annual monitoring events will be conducted in the fall as higher gas concentrations have historically been reported in fall monitoring events compared to spring monitoring events. If methane gas is detected at any of the perimeter POC wells and suspected of leaving the landfill boundary during future events, there will be an increase in frequency of gas sampling events to track upward trends and migration of methane.

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# 3 LF002 (LANDFILL 2/3 AOC)

## 3.1 SITE BACKGROUND

### 3.1.1 Site History

Landfill 2/3, approximately 13 acres in size, is located on a topographic high point, east of Perimeter Road near the east-central boundary of the former Griffiss AFB. The landfills are bounded by the AFB boundary on the north, east and south sides, while areas to the west, southwest and northeast have been identified as wetlands. Figure 3-1 illustrates the landfill boundary and the location of existing monitoring wells.

The wastes at Landfill 2/3 consisted of hardfill in the southern portion of Landfill 2, on-board aircraft wastes in the northern portion of Landfill 2 and approximately 1 ton of wetted and double-bagged asbestos wastes in Landfill 3, located in the eastern portion of Landfill 2. Since Landfill 3 is situated within the boundary of Landfill 2, these two units are designated as a single AOC. Landfill 2 was in operation from 1973 to 1982, while Landfill 3 operated from 1980 to 1981. During a Landfill Cover Investigation performed in 1997 (LAW, December 1997) landfill waste was generally encountered at depths ranging from 1 to 4 ft. The total thickness of the debris was not determined. At some locations, auger borings that extended to 4 ft failed to penetrate through the cover to the landfill waste. The asbestos wastes in Landfill 3 were disposed of in an 8 foot deep pit.

The ROD for LF002 (Landfill 2/3 AOC) was signed by the USEPA on June 5, 2000. In accordance with the ROD, the landfill was re-graded and capped in summer 2003. The cap components include a gas venting layer with an 18 inch low permeability soil layer, covered by a 6 inch layer of topsoil with grass seed on top. Five-Year Reviews were conducted in 2005 and 2010. Both Five-Year Reviews indicated that the selected remedy is protective of human health and the environment.

### 3.1.2 Site Geology and Hydrogeology

Landfill 2/3 is located on a small hill of outwash, approximately 40 ft high on the eastern boundary of the base. Surface cover material consists of dark brown sandy silt with coarse gravel and cobbles. Deeper soils range from brown fine sand to brown, sandy, gravelly silt to approximately 55 ft below ground surface (bgs). Bedrock at the site is Utica Shale that was encountered at depths up to 50 ft bgs.

Groundwater flow is very gradual to the southwest in the area of Landfill 2/3. Water-level measurements in December 1998 showed the water table elevation ranged from 521.4 ft MSL in well LF2MW-3 on the northeast edge of this area, to 519.8 ft MSL at well LF2MW2-2 near the western edge of the landfill boundary. The saturated zone was encountered at depths ranging from 48.3 ft bgs in well LF2MW-6 to 17.0 ft bgs in well LF2MW2-2. Saturated thickness increases in depth from outside the west-central area of the landfill to outside the northwest part of the landfill (Law, December 1996).

The average site-specific hydraulic conductivity within the vicinity of Landfill 2/3 is 0.00215 ft per minute, with a hydraulic gradient of 0.0084 ft per foot. Estimating the porosity to be 20 percent, the groundwater flow has been calculated to be 47.46 ft per year (Law, December 1996). Groundwater flow is very gradual to the southwest in the area of Landfill 2/3.

### 3.1.3 Previous LTM Activities and Results

For readability, the hydrology setting, previous investigations, and LTM sampling plan sections have been removed from this report. These sections are provided in the 2009 Landfill AOCs LTM Report (FPM, November 2010).

LTM was initiated at the site in December 2003 in accordance with the LF002 (Landfill 2/3 AOC) Closure Plan (Conti & EA, March 2002) at six monitoring wells (LF2MW2-1, LF2MW-4, -12, -13, -14, and -100) and three surface water locations (LF2SW-1, -2, and -3). The LTM network was analyzed quarterly (routine) and annually (baseline) for NYSDEC Part 360 Parameters and VOCs from 2003 through 2005. The LTM network (groundwater and surface water monitoring) was optimized to semi-annual from 2006 through 2008, annual for 2009 and 2010 and then to biennial from 2011 through 2013. All recommendations to alter the sampling network were provided in previous Landfill AOCs LTM Reports and reviewed by the USEPA and NYSDEC.

VOCs, cyanide, mercury and phenols were analyzed until 2006 and then removed from the LTM sampling network due to their low or absent concentrations at the site. Landfill leachate indicators previously detected above the NYS Groundwater/Surface water standards included ammonia, chloride, bromide, color, TDS, TKN and nitrate. The landfill leachate indicator detections showed stable trends. TDS at LF002 has historically been detected near or below the NYS Groundwater Standard of 500 mg/L at all monitoring wells with the exception of LF2MW-100 (bedrock well). The TDS at LF2MW-100 has historically been detected above 2,000 mg/L. The TDS is higher at this well because the sampling method (bailing) produces a greater amount of suspended solids in the sample. All TDS exceedances are within one order of magnitude of the TDS standard.

Metals analysis for this site showed levels above NYS Groundwater Standards. Metals that exceed standards include barium, manganese, iron, sodium, aluminum, chromium, and nickel. However, several of the metals (e.g., manganese, iron, and sodium) are indicative of base background conditions. As a result, metals analysis was eliminated from the LF002 (Landfill 2/3 AOC) LTM network in 2001 in accordance with the LF002 (Landfill 2/3 AOC) Optimization Plan (CAPE/FPM, November 2011).

Landfill gas monitoring has been performed at Landfill 2/3 to identify the presence and concentration of methane at or near the landfill. A total of nine gas monitoring probes and 14 landfill gas vents were monitored on a quarterly basis from October 2005 until May 2010. Landfill gas sampling was optimized after the spring 2010 sampling round and is now sampled semiannually. Results from the gas sampling events at Landfill 2/3 continue to show site-wide stabilization of methane concentrations.

Since April 2005, landfill inspections and cover maintenance have been performed at Landfill 2/3. Inspections and maintenance were conducted on a quarterly basis and optimized after the spring 2010 sampling round to a semiannual basis. Landfill cover mowing is conducted on an annual basis (fall). LUC/ICs have been implemented by the ROD and are verified annually as part of the landfill cover inspection program. The fall inspections are performed in conjunction with the Base-wide LUC/IC Site Inspections.

The debris pile identified in the 2009 sampling event in the southern portion of the AOC was removed in March 2012 in association with Area of Interest (AOI) 474. A removal action was conducted in 2013 to remove approximately 60 cubic yards of metals contaminated soil. Confirmatory soil sampling results showed all contaminant concentrations were below the Title 6 of the New York Codes, Rules, and Regulations Part 375 Residential use Soil Cleanup Objectives. This AOI is not associated with LF002 (Landfill 2/3 AOC) and site closure was achieved in 2015.

Previous LTM results are provided in detail in the Spring 2009 Landfill AOCs LTM Report (FPM, November 2010), Spring 2010 Landfill AOCs LTM Report (FPM, February 2012), 2011 Landfill AOCs LTM Report (FPM/CAPE, July 2012), 2012 Landfill AOCs LTM Report (FPM/CAPE, March 2013), 2013 Landfill AOCs LTM Report (FPM/CAPE, February 2014) and the 2014 Landfill AOCs LTM Report (FPM/CAPE August 2015).

## 3.2 LF002 (LANDFILL 2/3 AOC) – 2015 SITE ACTIVITIES

This section describes the LF002 (Landfill 2/3 AOC) site activities and monitoring data for 2015. The field activities include semiannual landfill cap inspections, semiannual landfill gas monitoring, annual landfill cap mowing, and biennial groundwater and surface water sampling. The LF002 (Landfill 2/3 AOC) LTM Network sampling locations are illustrated in Figure 3-2.

### 3.2.1 Landfill Cap Inspections/Maintenance

The spring 2015 inspection was conducted in May 2015 and did not identify any major deficiencies that would jeopardize the integrity of the cover.

The fall 2015 inspection was conducted in September 2015. The annual landfill mowing event was also conducted in September 2015. The inspection did not identify any major deficiencies that would jeopardize the integrity of the cover.

The semiannual inspection reports (Post-Closure Monitoring Reports) for spring 2015 and fall 2015 can be found in Appendix A.

### 3.2.2 Landfill Gas Monitoring

Landfill gas monitoring was performed at LF002 (Landfill 2/3 AOC) to identify the presence and concentration of methane at or near the landfill (NYSDEC, November 1999). Landfill gas monitoring was conducted in May 2015 and September 2015 at nine gas monitoring probes (LF2GMP-1 through -9) and fourteen gas vents (LF2VENT- 1 through -14) for methane

concentrations, LEL for methane, oxygen levels and carbon dioxide levels. These locations are also illustrated in Figure 3-2. The semiannual Landfill 2/3 gas results can be found in Table 3-1.

Spring 2015 landfill gas readings were taken in May 2015. LEL values did not equal or exceed 100% at any of the gas monitoring probes or gas vents.

Fall 2015 landfill gas readings were taken in September 2015. LEL values equaled or exceeded 100% at two gas monitoring probes (LF2GMP-2 and -5). LEL values did not equal or exceed 100% at any of the gas vents. The highest methane concentration reported at a gas monitoring probe was 11.4 % by volume at LF2GMP-05.

### 3.2.3 Groundwater and Surface Water Monitoring

Groundwater and surface water monitoring was conducted in June 2015 at six monitoring wells (LF2MW2-1, LF2MW-4, -12, -13, -14, and -100) and three surface water location (LF2SW-1, -2 and -3) for landfill leachate indicators. Due to a poor recharge rate during the June 2015 sampling round, bedrock monitoring well LF2MW-100 was bailed dry and allowed to recharge overnight. Samples were collected within a 24-hour period from the initial bailing.

All sampling activities were performed in accordance with the Updated 2014 UFP QAPP for Performance Based-Remediation at the Former Griffiss AFB (CAPE/FPM, June 2014). All groundwater and surface water analytical data is presented in Table 3-2. Daily CQCRs completed during the June 2015 sampling round are provided in Appendix B. The complete list of analytes and the validated laboratory data are attached in Appendix C and the raw laboratory data are available in Appendix D.

#### 3.2.3.1 Groundwater Monitoring Results

Leachate indicator exceedances were reported at monitoring wells LF2MW2-1, LF2MW-12, -13, and -100 and surface water location LF2SW-1. These exceedances are summarized below:

- TDS exceeded the NYS Groundwater Standard at monitoring wells LF2MW-12 (660 mg/L) and LF2MW-100 (5,300 mg/L). The NYS Class GA Groundwater Standard of TDS is 500 mg/L.
- Ammonia exceeded the NYS Groundwater Standard at monitoring well LF2MW-100 (9.6 mg/L). The NYS Class GA Groundwater Standard of ammonia is 2 mg/L.
- Color exceeded the NYS Groundwater Standard at monitoring wells LF2MW2-1 (30 pcu), LF2MW-4 (70 pcu), LF2MW-13 (40 pcu) and LF2MW-100 (20 pcu). The NYS Class GA Groundwater Standard of color is 15 pcu.
- TKN exceeded the NYS Groundwater Standard at monitoring wells LF2MW-100 (7.6 mg/L). The NYS Class GA Groundwater Standard of TDS is 1 mg/L.
- Bromide exceeded the NYS Groundwater Standard at monitoring well LF2MW-100 (33 D mg/L). The NYS Class GA Groundwater Standard of bromide is 2 mg/L.
- Chloride exceeded the NYS Groundwater Standard at monitoring well LF2MW-100 (3,200 mg/L). The NYS Class GA Groundwater Standard of bromide is 250 mg/L.

All detected leachate indicator concentrations are within an order of magnitude compared to the previous LTM results. Additionally, the concentrations are within one order of magnitude of the NYS Class GA Groundwater Standards except for bromide and chloride at LF2MW-100 which is the LF002 bedrock well.

Synoptic Results

The following summarizes the groundwater elevations (MSL) for each monitoring well sampled at Landfill 2/3 in the June 2015 sampling round: LF2MW2-1 (522.99 ft), LF2MW-4 (525.67 ft), LF2MW-12 (520.11 ft), LF2MW-13 (521.40 ft), LF2MW-14 (531.44 ft) and LF2MW-100 (519.93 ft). Based on the groundwater elevations above, the updated average hydraulic gradient at LF001 is approximately 0.0224 ft per foot. The groundwater elevations indicate a southwesterly flow of groundwater towards the Six Mile Creek culvert (Figure 3-3).

### 3.2.3.2 Surface Water Monitoring Results

Leachate indicator exceedances were reported at all three locations.

- Color exceeded the NYS Surface water Standard at LF2SW-1 (200 pcu), -2 (150 pcu) and -3 (150 pcu). The NYS Surface water Standard for color is 15 pcu.
- TKN exceeded NYS Surface water Standard at LF2SW-1 (1.1 mg/L), -2 (2.1 mg/L) and -3 (2.1 mg/L). The NYS Surface water Standard for TKN is 1 mg/L.

### 3.2.4 Conclusions

Landfill Cap Inspections and Maintenance

The semiannual inspections have not identified any major deficiencies that would jeopardize the integrity of the cover and there is optimal vegetation cover on the cap. Inspections are also conducted following significant weather events (5-year storm events). If a significant weather event is recorded during the remainder of the year, an emergency response landfill inspection will be conducted and reported.

Landfill Gas Monitoring

Results from the spring 2015 and fall 2015 landfill gas monitoring events continue to show site-wide stabilization of methane concentrations at the site. LEL values were below 100% in the spring 2015 round and only 2 gas monitoring probe had LEL values that equaled or exceeded 100% during the fall 2015 round. There were no additional elevated methane concentrations reported during the spring 2015 or fall 2015 round. No LEL values exceeding 100% or elevated methane concentrations were reported at any of the perimeter locations which suggests that methane is isolated to the landfill and is not migrating off the property.

Groundwater and Surface Water

Landfill leachate indicators were above NYS Groundwater and Surface water Standards at LF2MW2-1, LF2MW-4, -12 -13, -100, LF2SW-1, -2 and -3. The exceedances included TKN,

color, TDS, ammonia, bromide, and chloride. Exceedances reported at the overburden monitoring wells were comparable to previous results and below the typical range of municipal landfill leachate (Lee and Jones, 1991). This reference was used during the Baseline Study of the former Griffiss AFB Landfill AOCs and is provided in Table 2-4.

Color concentrations reported during the June 2015 sampling round were higher than the previous sampling round at downgradient monitoring wells LF2MW2-1, -4, -13, -100 and surface water sampling locations LF2SW-1, -2, and -3. The increase may be attributed to natural conditions caused by greater rainfall and surface water runoff. Similar elevated color concentrations were also reported at an above average number of wells and surface water locations at all other landfills during the June 2015 round. Future monitoring events will determine whether or not this was an anomaly.

TDS, TKN, ammonia, bromide, color and chloride exceedances were detected at LF2MW-100, the LF002 bedrock well. However, ammonia, bromide and chloride were not detected at the overburden wells. Additionally, the hydraulic head is higher at bedrock well LF2MW-100 than at overburden well LF2MW-12. This indicates an upward hydraulic gradient and the leachate indicators in the bedrock groundwater cannot be attributed to vertical migration from the overburden. The higher concentrations at the bedrock well may be attributed to differences in the geochemical environment of the water-table associated with the overburden well and the bedrock well; the difference in mineralogy between the bedrock (shale) and the overburden may account for the observed chemical differences.

The alkalinity and hardness concentrations were reported from 0 mg/L to 610 mg/L and 12 mg/L to 790 mg/L, respectively. The alkalinity and hardness concentrations at each monitoring well in the LF2 LTM Network have fluctuated within an order of magnitude throughout the LTM period (2005 through 2015), demonstrating stable trends at the AOC. These concentrations are provided in Figure 3-4 (alkalinity) and 3-5 (hardness). Alkalinity and hardness are important indicators of the plume extent because the landfill material tends to propagate microbial activity which generates carbon dioxide. This process increases the dissolution of minerals and alkalinity which increases hardness (Baedecker and Back, 1979).

For the June 2015 sampling round, hardness levels throughout the LTM network exceeded the level measured in the background well, LF2MW-14 (alkalinity was non-detect and hardness was 12 mg/L). The highest levels of alkalinity and hardness were reported at downgradient well LF2MW-12. The concentrations of leachate indicators alkalinity and hardness are plotted in Figure 3-6. One leachate indicator exceeded standards at the monitoring well. TDS was detected at 660 mg/L at LF2MW-12. The NYS Class GA Groundwater Standard for TDS is 500 mg/L.

## 3.3 LTM RECOMMENDATIONS

The landfill leachate concentrations have remained stable and still within or below the typical range of municipal landfill leachate (Lee and Jones, 1991) since the 2011 sampling event. Therefore, it is recommended that the current scope of biennual groundwater sampling and

surface water sampling be optimized to sampling every 5 years. Table 3-3 provides a summary of the LF002 (Landfill 2/3 AOC) LTM Network.

Based on the landfill cap inspections, it is recommended that the frequency continue semiannually. The semiannual inspections ensure that vegetation growth on the landfill cap shows optimal coverage for erosion control and cover system stabilization. Additional inspections or maintenance will be performed as needed, as identified in the Landfill 2/3 O&M Manual (Conti, December 2004).

Based on the landfill gas monitoring results, it is recommended that the frequency be reduced from semiannual to annual sampling. Landfill gas monitoring from 2011 to 2015 shows that elevated methane levels are stable or absent at all of the POC gas monitoring probes. The annual monitoring events will be conducted in the fall as higher gas concentrations have historically been reported in fall monitoring events compared to spring monitoring events. If methane gas is detected at any of the perimeter POC wells and suspected of leaving the landfill boundary during future events, there will be an increase in frequency of gas sampling events to track upward trends and migration of methane.

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# 4 LF003 (LANDFILL 7 AOC)

## 4.1 SITE BACKGROUND

### 4.1.1 Site History

Landfill 7, approximately 11 acres, is located northeast of the main runway and south of Perimeter Road. Figure 4-1 illustrates the landfill boundary and the locations of existing monitoring wells.

The wastes at Landfill 7 consisted of domestic refuse, solid waste, liquid wastes, petroleum products, and miscellaneous Base operations waste (such as airplane parts), which were placed into four trenches in the landfill area and subsequently burned. Landfill 7 was active from 1950-1954. During a Landfill Cover Investigation performed in 1997 (LAW, December 1997), landfill waste was encountered from approximately 1.2 to 4 ft bgs. The total thickness of the debris was not determined.

The ROD for LF003 (Landfill 7 AOC) was signed by the USEPA on June 6, 2000. In accordance with the ROD, the landfill was re-graded and capped in 2002. The landfill was capped with an 18-inch low permeability soil layer, covered by a 6-inch layer of topsoil and seeded with grass. Five-Year Reviews were conducted in 2005 and 2010. Both Five-Year Reviews indicated that the selected remedy is protective of human health and the environment.

### 4.1.2 Site Geology and Hydrogeology

Landfill 7 rests on a sloping plane of low permeability Utica Shale bedrock. At the toe of the landfill, the bedrock is about 15 ft bgs. Clay glacial till overlies the Utica Shale and is found at depths ranging from 5 to 35 ft bgs. Deposits above the clay layer are comprised of unconsolidated glacial till which extends to the surface where the topography slopes to the southwest at a grade of approximately 10 percent.

The Baseline Study (FPM, July 2000) described the general south-southwest direction of groundwater flow as diverging to the west and south through the area of Landfill 7. Synoptic water-level measurements in December 1998 showed the depth to groundwater ranged from 502 ft MSL in well LF7MW-16 on the north edge of this area, to 480 ft MSL at well LF7MW-21 near the 30-inch storm drain outside the landfill boundary to the southwest. Both measurements were within 1 foot of those measured in these wells in 1993-4 (Law, December 1996). The Baseline Study also described the depth to the water table varied from a maximum of 28 ft bgs in well LF7MW-17 located at the topographic high in the center of landfill, to less than 1 foot in monitoring wells LF7MW-21 and LF7MW-23. LF7MW-23 is located within the boundary of the jurisdictional wetlands and adjacent to the 24-inch storm drain.

The average hydraulic conductivity in the vicinity of Landfill 7 was determined from monitoring well data collected during the Remedial Investigation (RI) (Law, December 1996) and calculated to be 9.04 ft per day, with a hydraulic gradient of 0.027 ft per foot. With an estimated porosity of 20 percent, groundwater was calculated to flow across the site at 445 ft per year (Law,

December 1996). The groundwater flow rate at Landfill 7 is estimated to be 445 ft per year (LAW, December 1996).

### 4.1.3 Previous LTM Activities and Results

For readability, the hydrology setting, previous investigations, and LTM sampling plan sections have been removed from this report. These sections are provided in the 2009 Landfill AOCs LTM Report (FPM, November 2010).

LTM was initiated at the site in February 2003 in accordance with the LF003 (Landfill 7 AOC) Closure Plan (Conti & EA, March 2002) at eight monitoring wells (LF7W-22, -23, -26, -27, -28, -29, -30, and -100) and two wetland surface water locations (LF7WL-3 and -4). These sampling locations are illustrated in Figure 4-2. The LTM network was analyzed quarterly (routine) and annually (baseline) for NYSDEC Part 360 Parameters and VOCs from 2003 through 2005. The LTM network (groundwater and surface water monitoring) was optimized to semi-annual from 2006 through 2008, annual for 2009 and 2010 and then to biennial from 2011 through 2013. All recommendations to alter the sampling network were provided in previous Landfill AOCs LTM Reports and reviewed by the USEPA and NYSDEC.

VOCs, mercury, PCBs and all leachate indicators were removed from the Landfill 7 LTM network analysis list in spring 2006, due to their low or absent concentrations at the site. Landfill leachate indicators previously detected above the NYS groundwater/surface water standards included color, TDS, and TKN. Landfill leachate indicator detections at monitoring wells and surface water sampling locations showed stable trends and metals analysis showed levels above NYS Groundwater Standards. Metals in exceedance include magnesium, manganese, iron, sodium, aluminum, chromium, and nickel. However, several of the metals (e.g., manganese, iron, and sodium) are indicative of base background conditions. As a result, metals analysis was eliminated from the Landfill 7 LTM network in 2001 in accordance with the LF003 (Landfill 7 AOC) Optimization Plan (CAPE/FPM, November 2011).

Since September 2003, landfill inspections and cover maintenance have been performed at Landfill 7. Inspections and maintenance were conducted on a quarterly basis and optimized after the spring 2010 sampling round to a semiannual basis. Landfill cover mowing is conducted on an annual basis (fall). LUC/ICs have been implemented by the ROD and are verified annually as part of the landfill cover inspection program. The fall inspections are performed in conjunction with the Base-wide LUC/IC Site Inspections.

Previous LTM results are provided in detail in the Spring 2009 Landfill AOCs LTM Report (FPM, November 2010), Spring 2010 Landfill AOCs LTM Report (FPM, February 2012), 2011 Landfill AOCs LTM Report (FPM/CAPE, July 2012), 2012 Landfill AOCs LTM Report (FPM/CAPE, March 2013), 2013 Landfill AOCs LTM Report (FPM/CAPE, February 2014) and the 2014 Landfill AOCs LTM Report (FPM/CAPE August 2015).

## 4.2 LF003 (LANDFILL 7 AOC) – 2015 SITE ACITIVITIES

This section describes the LF003 (Landfill 7 AOC) site activities for 2015. The site activities include semiannual landfill cap inspections, biennial groundwater and surface water sampling, and annual landfill cap mowing. There are no landfill gas monitoring requirements at Landfill 7 AOC. The LF003 (Landfill 7 AOC) LTM Network sampling locations are illustrated in Figure 4-2.

### 4.2.1 Landfill Cap Inspections/Maintenance

The spring 2015 inspection was conducted in May 2015 and did not identify any major deficiencies that would jeopardize the integrity of the cover.

The fall 2015 inspection was conducted in September 2015. The annual landfill mowing event was also conducted in September 2015. The inspection did not identify any major deficiencies that would jeopardize the integrity of the cover.

The semiannual inspection reports (Post-Closure Monitoring Reports) for spring 2015 and fall 2015 can be found in Appendix A.

### 4.2.2 Groundwater and Surface Water Monitoring

Groundwater sampling was conducted in June 2015 at eight monitoring wells (LF7MW-22, -23, -26, -27, -28, -29, -30 and -100) and one wetland surface water location (LF7WL-4). Due to the absence of water, one wetland surface water location (LF7WL-3) could not be sampled.

All groundwater monitoring analytical data is presented in Table 4-1. Daily CQCRs completed during the June 2015 sampling round are provided in Appendix B. The complete list of analytes and the validated laboratory data are attached in Appendix C and the raw laboratory data are available in Appendix D.

#### 4.2.2.1 Groundwater Monitoring Results

Due to a poor recharge rate during the June 2015 sampling round, bedrock monitoring well LF7MW-100 was bailed dry and allowed to recharge overnight. Due to lack of recharge water samples were not able to be collected for all landfill leachate indicator parameters. Samples were collected within a 24-hour period from the initial bailing.

Leachate Indicator exceedances were reported at monitoring wells LF7MW-22 and -100.

- TDS exceeded NYS Groundwater Standards at LF7MW-22 (630 mg/L). The NYS Groundwater Standard for TDS is 500 mg/L.
- Color exceeded the NYS Groundwater Standards at LF7MW-22 (180 pcu) and -28 (20 pcu). The NYS Groundwater Standard for color is 15 pcu.

Synoptic Results

The following summarizes the groundwater elevations (MSL) for each monitoring well sampled at Landfill 7 in the June 2015 sampling round: LF7MW-22 (482.84 ft), LF7MW-23 (485.79 ft), LF7MW-26 (489.61 ft), LF7MW-27 (494.90 ft), LF7MW-28 (484.27), LF7MW-29 (509.10 ft), LF7MW-30 (492.36 ft), and LF7MW-100 (460,04 ft). Based on the groundwater elevations above, the updated average hydraulic gradient at LF003 is approximately 0.027 ft per foot. The groundwater elevations show a general southwesterly flow of groundwater towards the Six Mile Creek culvert (Figure 4-3).

#### 4.2.2.2 Surface Water Monitoring Results

Color exceeded the NYS Groundwater Standards at LF7WL-4 (25 pcu). The NYS Groundwater Standard for color is 15 pcu.

## 4.3 CONCLUSIONS

Landfill Cap Inspections and Maintenance

The semiannual inspections have not identified any major deficiencies that would jeopardize the integrity of the cover and there is optimal vegetation cover on the cap. Inspections are also conducted following significant weather events (5-year storm events). If a significant weather event is recorded during the remainder of the year, an emergency response landfill inspection will be conducted and reported.

Groundwater and Surface Water

Landfill leachate indicators were above NYS Groundwater Standards at LF7MW-22 and -28. The exceedances included color and TDS. Color concentrations reported during the June 2015 sampling round were higher than the previous sampling round at downgradient monitoring wells LF7MW-22, -28 and wetland water sampling locations LF7WL-4. The increase may be attributed to natural conditions caused by greater rainfall and surface water runoff. Similar elevated color concentrations were reported at an above average number of wells and surface water locations at all other landfills during the June 2015 round. Future monitoring events will determine whether or not this was an anomaly.

The leachate indicator concentrations at the Landfill 7 AOC were comparable to previous results and below/within the typical range of municipal landfill leachate (Lee and Jones, 1991). This reference was used during the Baseline Study of the former Griffiss AFB Landfill AOCs and is provided in Table 2-4.

There were no landfill leachate exceedances observed at bedrock well LF7MW-100, It is important to note that due to a lack of water in the well at the time of sample collection, only ammonia, COD, hardness and TKN were analyzed. Historically bromide, sulfate, and TDS exceedances have been detected at LF7MW-100; however, those concentrations were still within the typical range of municipal landfill leachate. These leachate indicators were not detected at

the overburden wells during the June 2015 sampling round. The higher concentrations at the bedrock well may be attributed to differences in the geochemical environment of the water-table associated with the overburden well and the bedrock well; the difference in mineralogy between the bedrock (shale) and the overburden may account for the observed chemical differences.

The alkalinity and hardness concentrations were reported from 7.3 mg/L to 510 mg/L and 8.6 mg/L to 540 mg/L, respectively. The alkalinity and hardness concentrations at monitoring wells in the LF003 LTM Network showed stable trends. These trends are provided in Figure 4-4 (alkalinity) and 4-5 (hardness). Alkalinity and hardness are important indicators of the plume extent because the landfill material tends to propagate microbial activity which generates carbon dioxide. This process increases the dissolution of minerals and alkalinity which increases hardness (Baedecker and Back, 1979). The stability of these parameters suggests that the landfill plume is fairly static.

For the June 2015 sampling round, hardness levels throughout the LTM network exceeded the level measured in the background well, LF7MW-29 (alkalinity was 7.3 mg/L and hardness was 8.6 mg/L). The highest levels of alkalinity and hardness were reported at all downgradient wells. The concentrations of leachates indicators alkalinity and hardness are plotted in Figure 4-6. Only TDS exceeded standards at downgradient monitoring well LF7MW-22. However, this exceedance is likely a result of natural conditions in the water table throughout the base.

## 4.4 LTM RECOMMENDATIONS

The landfill leachate concentrations have remained stable and still within or below the typical range of municipal landfill leachate (Lee and Jones, 1991) since the 2011 sampling event. Therefore, it is recommended that the current scope of biennual groundwater sampling and surface water sampling be optimized to sampling every 5 years. Table 4-2 provides a summary of the LF003 (Landfill 7 AOC) LTM Network.

Based on the landfill cap inspections it is recommended that the frequency continue semiannually. The semiannual inspections ensure that vegetation growth on the landfill cap shows optimal coverage for erosion control and cover system stabilization. Additional inspections or maintenance will be performed as needed, as identified in the Landfill 7 O&M Manual (Conti, May 2004).

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# 5 LF007 (LANDFILL 5 AOC)

## 5.1 SITE BACKGROUND

### 5.1.1 Site History

Landfill 5 encompasses approximately 4 acres and is located in the south-central portion of the former Base, south of Patrick Square, immediately southwest of the unpaved access road and east of Three Mile Creek. Figure 5-1 illustrates the landfill boundary together with the location of existing monitoring wells.

The waste at Landfill 5 consisted of domestic wastes, reportedly having been burned and then buried. Approximately 18,000 CY of wastes were disposed of at the site from 1950-1960. During a Landfill Cover Investigation performed in 1997 (LAW, December1997) landfill waste was encountered from approximately 0.8 to 2.4 ft bgs. The total thickness of the debris was not determined.

The ROD for LF007 (Landfill 5 AOC) was signed by the USEPA on June 5, 2000. In accordance with the ROD, the landfill was re-graded and capped in 2002. The cap components include an 18 inch low permeability soil layer, covered by a 6 inch layer of topsoil with grass seed on top. Five-Year Reviews were conducted in 2005 and 2010. Both Five-Year Reviews indicated that the selected remedy is protective of human health and the environment.

### 5.1.2 Site Geology and Hydrogeology

Shallow site soils consist of sandy peat, silty fine sand, and sandy silt to a depth of 2 ft bgs. Deeper soils consist of fine brown sand with varying amounts of silt and gravel from 2 ft bgs to 20 ft bgs.

The Baseline Study (FPM, July 2000) indicated that the principal groundwater flow directions at Landfill 5 are to the west in the area bordering the northern part of the landfill and to the southwest in the central and southern parts of the landfill. The southern portion of the site is near the floodplain of Three Mile Creek, adjacent to wetland areas. Some groundwater drainage from Landfill 5 may flow into the wetland area and to the pond located to the southeast of the landfill site.

The average hydraulic conductivity in the vicinity of Landfill 5 was determined from monitoring well data collected during the RI (Law, December 1996) and calculated to be 30 ft per day, with a hydraulic gradient of 0.0044 ft per foot. With an estimated porosity of 20 percent, groundwater was calculated to flow across the site at 240.51 ft per year (Law, December 1996). Principal groundwater flow directions at Landfill 5 are to the west in the area bordering the northern part of the landfill and to the southwest in the central and southern parts of the landfill.

The June 2003 synoptic water-level measurements showed the depth to groundwater varied from 4.85 ft bgs in well LF5MW-5 to 20.85 ft bgs in well LF5MW-1A. The groundwater depths

reported in the Supplemental Investigation (SI) (E&E, November 1998) ranged from about 3 to 4 ft bgs in well LF5MW-4 to nearly 15 ft bgs in well LF5MW-2.

### 5.1.3 Previous LTM Activities and Results

For readability, the hydrology setting, previous investigations, and LTM sampling plan sections have been removed from this report. These sections are provided in the 2009 Landfill AOCs LTM Report (FPM, November 2010).

LTM was initiated at the site in February 2003 in accordance with the LF007 (Landfill 5 AOC) Closure Plan (Conti & EA, July 2002) at five monitoring wells (LF5MW-1A, -3, -5, -100R, and MW49D07) and three surface water locations (LF5SW-1, -2, and -3). The sampling locations are illustrated in Figure 19. The LTM network was analyzed quarterly (routine) and annually (baseline) for NYSDEC Part 360 Parameters and VOCs from 2003 through 2005. The LTM network (groundwater and surface water monitoring) was optimized to semi-annual from 2006 through 2008, annual for 2009 and 2010 and then to biennial from 2011 through 2013. All recommendations to alter the sampling network were provided in previous Landfill AOCs LTM Reports and reviewed by the USEPA and NYSDEC.

VOC and PCB analysis conducted at the site did not show any detections above standards at the overburden monitoring wells or surface water sampling locations. PCB exceedances were reported at LF5MW-100R (bedrock well) in 2005 and 2006. No PCBs were detected at this location in 2007 and 2008, however. Landfill leachate indicators previously detected above the NYS groundwater/surface water standards included ammonia, bromide, chloride, color, nitrate, sulfate, TDS, and TKN. The landfill leachate indicators detections showed stable trends before the analysis was removed from the LTM network in 2006. Metals analysis for this site showed levels above NYS Groundwater Standards. Metals detected above standards include manganese, iron, sodium, aluminum, chromium, and nickel. However, several of the metals (e.g., manganese, iron, and sodium) are indicative of base background conditions. As a result, metals analysis was eliminated from the Landfill 5 LTM network in 2001 in accordance with the LF007 (Landfill 5 AOC) Optimization Plan (CAPE/FPM, November 2011).

Landfill inspections and cover maintenance have been performed at Landfill 5 since September 2003. Inspections and maintenance were conducted on a quarterly basis and optimized after the spring 2010 sampling round to a semiannual basis. Landfill cover mowing is conducted on an annual basis (fall). LUC/ICs have been implemented by the ROD and are verified quarterly as part of the landfill cover inspection program. The fall inspections are performed in conjunction with the Base-wide LUC/IC Site Inspections.

Previous LTM results are provided in detail in the Spring 2009 Landfill AOCs LTM Report (FPM, November 2010), Spring 2010 Landfill AOCs LTM Report (FPM, February 2012), 2011 Landfill AOCs LTM Report (FPM/CAPE, July 2012), 2012 Landfill AOCs LTM Report (FPM/CAPE, March 2013), 2013 Landfill AOCs LTM Report (FPM/CAPE, February 2014) and the 2014 Landfill AOCs LTM Report (FPM/CAPE August 2015).

## 5.2 LF007 (LANDFILL 5 AOC) – 2015 SITE ACTIVITIES

This section describes the LF007 (Landfill 5 AOC) site activities for 2015. The site activities include semiannual landfill cap inspections, biennial groundwater and surface water sampling, and annual landfill cap mowing. The LF007 (Landfill 5 AOC) LTM Network sampling locations are illustrated in Figure 5-2.

### 5.2.1 Landfill Cap Inspections/Maintenance

The spring 2015 inspection was conducted in May 2015 and did not identify any major deficiencies that would jeopardize the integrity of the cover.

The fall 2015 inspection was conducted in September 2015. following landfill mowing. The annual landfill mowing event was also conducted in September 2015. The inspection did not identify any major deficiencies that would jeopardize the integrity of the cover.

The semiannual inspection reports (Post-Closure Monitoring Reports) for spring 2015 and fall 2015 can be found in Appendix A. A beaver dam was identified during a previous semiannual inspection within Three Mile Creek near LF007. During the 2015 inspections, surface water was observed downgradient of the landfill near monitoring well MW49D07. Surface water has not been observed near the landfill cap.

### 5.2.2 Groundwater and Surface Water Monitoring

Groundwater and surface water sampling was conducted in June 2015 at five monitoring wells (LF5MW-3, -5, -1A, -100 and MW49D07) and three surface water locations (LF5SW-1, -2, and -3) for landfill leachate indicators.

All groundwater and surface water monitoring analytical data is presented in Table 5-1. Daily CQCRs completed during the June 2015 sampling round are provided in Appendix B. The complete list of analytes and the validated laboratory data are attached in Appendix C and the raw laboratory data are available in Appendix D.

#### 5.2.2.1 Groundwater Monitoring Results

During the June 2015 sampling round, monitoring wells MW49D07 and LF5MW-100R were bailed dry as a result of poor recharge. Samples were collected within 24 hours of the wells being bailed dry.

Leachate Indicator exceedances were reported at monitoring wells LF5MW-1A, -3, -5, -100R and MW49D07.

- Color exceeded the NYS Groundwater Standard at LF5MW-3 (100 pcu), -5 (300 pcu) and MW49D07 (250 pcu). The NYS Groundwater Standard for color is 15 pcu.
- Chloride exceeded NYS Groundwater Standards at LF5MW-100R (10,000 mg/L). The NYS Groundwater Standard for chloride is 250 mg/L.

- TDS exceeded NYS Groundwater Standards at LF5MW-3 (970 B mg/L), -100R (16,000 mg/L) and MW49D07 (560 mg/L). The NYS Groundwater Standard for TDS is 500 mg/L. The B data qualifier indicates that the analyte was found in an associated blank, as well as in the sample.
- Bromide exceeded the NYS Groundwater Standard at LF5MW-100R (99 mg/L). The NYS Groundwater Standard for bromide is 2 mg/L.
- TKN exceeded the NYS Groundwater Standard at LF5MW-100R (22 mg/L). The NYS Groundwater Standard for TKN is 1 mg/L.
- Sulfate exceeded NYS Groundwater Standards at LF5MW-3 (290 mg/L). The NYS Groundwater Standard for sulfate is 250 mg/L.
- Ammonia exceeded NYS Groundwater Standards at LF5MW-100R (30 mg/L). The NYS Groundwater Standard for ammonia is 2 mg/L.

Synoptic Results

The following summarizes the groundwater elevations (MSL) for each monitoring well sampled at Landfill 5 in the June 2013 sampling round: LF5MW-1A (459.01 ft), LF5MW-3 (457.6 ft), LF5MW-5 (458.14 ft), LF5MW-100R (443.83 ft) and MW49D07 (457.7 ft). Based on the groundwater elevations above, the updated average hydraulic gradient at LF007 is approximately 0.0021 ft per foot. The groundwater elevations show a general southwesterly flow of groundwater towards Three Mile Creek (Figure 5-3).

#### 5.2.2.2 Surface Water Monitoring Results

Leachate indicator exceedances were reported at all three locations.

- Color exceeded the NYS Surface water Standard at LF5SW-1 (80 pcu), -2 (100 pcu) and -3 (180 pcu). The NYS Surface water Standard for color is 15 pcu.

### 5.2.3 Conclusions

Landfill Cap Inspections and Maintenance

The semiannual inspections have not identified any major deficiencies that would jeopardize the integrity of the cover and there is optimal vegetation cover on the cap. A beaver dam was identified within Three Mile Creek near LF007 (Landfill 5 AOC). Continued monitoring of the surface water near the landfill will be conducted in association with Landfill LTM inspection activities. If adverse impacts are noted, beaver trapping and dam removal will be implemented following NYSDEC requirements and permitting processes, in coordination with the property owners. Inspections are also conducted following significant weather events (5-year storm events). If a significant weather event is recorded during the remainder of the year, an emergency response landfill inspection will be conducted and reported.

Groundwater and Surface Water

Leachate indicator exceedances were reported at monitoring wells LF5MW-1A, -3, -5, -100R and MW49D07. The exceedances included ammonia, bromide, chloride, color, TDS, TKN, and

sulfate. Color concentrations reported during the June 2015 sampling round were higher than the previous sampling round at downgradient monitoring wells LF5MW-3, -5, MW49D07 and surface water sampling locations LF5SW-1, -2 and -3. The increase may be attributed to natural conditions caused by greater rainfall and surface water runoff. Similar elevated color concentrations were reported at an above average number of wells and surface water locations at all other landfills during the June 2015 round. Future monitoring events will determine whether or not this was an anomaly.

The leachate indicator concentrations at the overburden wells and surface water locations were comparable to previous results and below or within the typical range of municipal landfill leachate (Lee and Jones, 1991). This reference was used during the Baseline Study of the former Griffiss AFB Landfill AOCs and is provided in Table 2-4.

The alkalinity and hardness concentrations were reported from 26 mg/L to 440 mg/L and 54 mg/L to 1,300 D mg/L, respectively. The alkalinity and hardness concentrations at monitoring wells in the LF5 LTM Network show no trends as shown in Figure 5-4 (alkalinity) and Figure 5-5 (hardness). Alkalinity and hardness are important indicators of the plume extent because the landfill material tends to propagate microbial activity which generates carbon dioxide. This process increases the dissolution of minerals and alkalinity which increases hardness (Baedecker and Back, 1979).

For the June 2015 sampling round, alkalinity and hardness levels throughout the LTM network exceeded the level measured in the background well, LF5MW-1A (alkalinity was 240 mg/L and hardness was 170 mg/L), excluding LF5MW-5. At LF5MW-5, alkalinity was 26 mg/L and hardness was 54 mg/L. The highest levels of alkalinity and hardness coincide with monitoring wells located downgradient of the landfill. These monitoring wells include LF5MW-3, -100R, and MW49D07. Hardness concentrations at downgradient overburden well LF5MW-3 was 930 D mg/L and 1,300 D mg/L at bedrock well LF5MW-100R. These wells also showed leachate indicator detections at concentrations above the NYS Groundwater Standards. The concentrations of leachate indicators alkalinity, ammonia, hardness, TKN, TDS, and TOC are plotted in Figure 5-6.

## 5.3 LTM RECOMMENDATIONS

The landfill leachate concentrations have remained stable and still within or below the typical range of municipal landfill leachate (Lee and Jones, 1991) since the 2011 sampling event. Therefore, it is recommended that the current scope of biennual groundwater sampling and surface water sampling be optimized to sampling every 5 years. Table 5-2 provides a summary of the LF007 (Landfill 5 AOC) LTM Network.

Based on the landfill cap inspections it is recommended that the frequency continue semiannually. The semiannual inspections ensure that vegetation growth on the landfill cap shows optimal coverage for erosion control and cover system stabilization. Additional inspections or maintenance will be performed as needed, as identified in the Landfill 5 O&M Manual (Conti, May 2004).

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# 6 LF009 (LANDFILL 6 AOC)

## 6.1 SITE BACKGROUND

### 6.1.1 Site History

Landfill 6 is an unlined landfill comprising of approximately 15.7 acres located near the southern boundary of the former Griffiss AFB, between Perimeter Road and Three Mile Creek (TMC). The southern edge of the landfill is bound by a dirt access road. Figure 6-1 illustrates the landfill boundary and the locations of existing monitoring wells.

The wastes at Landfill 6 consisted of general refuse and hardfill that was buried and some of which was burned at the site. An estimated 38,000-62,000 CY of wastes were disposed at the site from 1955-1959. The total thickness of general refuse and hardfill is not known. During the 1980s, although the landfill was no longer active, an unknown quantity of fuel-contaminated soil from the tank excavations at Tank Farms 1 and 3 was disposed of in the southern portion of Landfill 6. The contaminated fill was reportedly placed in compacted 6-inch layers to a total depth of 3 ft bgs and the cap consisted of a 12-inch clay layer, covered by at least 6 inches of topsoil and seeded with grass.

The ROD for LF009 (Landfill 6 AOC) was signed by the USEPA on June 7, 2001. In accordance with the ROD, the landfill was re-graded and capped in 2004. The cap components include a 12-inch gas venting layer, a 40-mil[1] linear low density polyethylene geomembrane liner, a geocomposite drainage net, a minimum 12 inch thick barrier protection layer, and a minimum 6 inch thick layer of topsoil. A portion of the fill material used at Landfill 6 consisted of soil/debris from various on-base projects, including: approximately 52,600 CY of material from the TMC restoration project, approximately 3,000 CY of cobbles from the Apron 1 biopile remediation project and approximately 2 CY of soil from the Rainbow Creek remediation project. Five-Year Reviews were conducted in 2005 and 2010. Both Five-Year Reviews indicated that the selected remedy is protective of human health and the environment.

### 6.1.2 Site Geology and Hydrogeology

Surface cover material consists of brown silty fine sand with coarse gravel and cobbles. Deeper soils, from 2 to 74 ft bgs, consist of predominantly brown fine sand with variable silt and gravel. Landfill 6 rests on low permeability Utica Shale bedrock, which was encountered at 104 ft bgs in well LF6MW4-2R (466.13 ft MSL) (Law, December 1996).

Based on groundwater data from seven groundwater monitoring wells at the site, groundwater flows south-southwest toward Three Mile Creek. During the RI, the saturated zone was encountered at 9 to 60.5 ft bgs, with groundwater elevations declining approximately 9 ft across the site (based on water levels recorded in seven monitoring wells across the site). During a groundwater study conducted in 2000 (E&E, August 2000), the saturated zone was encountered from 2.6 ft to 64.7 ft bgs, with an average of about 19 ft bgs across the site (based on water levels recorded in 12 monitoring wells).

[1] "mil" is a thousandth of an inch

The average hydraulic conductivity in the vicinity of Landfill 6 was determined from monitoring well data collected during the RI (Law, December 1996) and calculated to be 3 ft per day, with a hydraulic gradient of 0.0057 ft per foot. With an estimated porosity of 20 percent, groundwater was calculated to flow across the site at 31.2 ft per year (Law, December 1996). Groundwater flows south-southwest toward TMC at Landfill 6.

### 6.1.3 Previous LTM Activities and Results

For readability, the hydrology setting, previous investigations, and LTM sampling plan sections have been removed from this report. These sections are provided in the 2009 Landfill AOCs LTM Report (FPM, November 2010).

LTM was initiated at the site in June 2006 in accordance with the LF009 (Landfill 6 AOC) Closure Plan (Conti & EA, December 2003) at 19 monitoring wells (775VMW-10, -18R, -20R, LF6MW-1, -12, LF6VMW-10R2, -17D, -17S, -18, -19, -20, -21, -22, -23, -24, -25, -26, TMCMW-9 and TMC-USGS-2), three surface water locations (LF6SW-1, -2, -3), and one wetland sampling location (LF6W-1). As recommended by the NYSDEC, landfill leachate sampling locations LF6LH-1 and -2 were added to the LF009 (Landfill 6 AOC) LTM network in December 2006. These sampling locations are illustrated in Figure 6-2. The LTM network was analyzed quarterly (routine) and annually (baseline) for NYSDEC Part 360 Parameters and VOCs from 2006 to 2009. The LTM network (groundwater and surface water monitoring) was optimized to semi-annual for 2010 and then to annual from 2011 through 2013. All recommendations to alter the sampling network were provided in previous Landfill AOCs LTM Reports and reviewed by the USEPA and NYSDEC.

VOCs detected above the NYS groundwater/surface water standards include trichloroethene (TCE), cis-1,2 dichloroethene (DCE), trans-1,2 DCE, and vinyl chloride (VC). Exceedances occur at monitoring wells 775VMW-10, LF6MW-12, and LF6VMW-26. Landfill leachate indicators detected above associated standards included chloride, color, TDS, and TKN.

Landfill gas monitoring has been performed at the site to identify the presence and concentration of methane at or near the landfill. A total of 13 gas monitoring probes and 16 landfill gas vents were monitored on a quarterly basis from October 2005 until October 2009. Landfill gas sampling was optimized after the October 2009 sampling round to semiannual. Results from the gas sampling events at LF009 (Landfill 6 AOC) showed elevated methane concentrations throughout the landfill, but these levels have declined.

Landfill inspections and cover maintenance have been performed at the site since 2006. Inspections and maintenance were conducted on a quarterly basis and optimized after the spring 2010 sampling round to a semiannual basis. Landfill cover mowing is conducted on an annual basis (fall). LUC/ICs have been implemented by the ROD and are verified annually as part of the landfill cover inspection program. The fall inspections are performed in conjunction with the Base-wide LUC/IC Site Inspections.

Previous LTM results are provided in detail in the Spring 2009 Landfill AOCs LTM Report (FPM, November 2010), Spring 2010 Landfill AOCs LTM Report (FPM, February 2012), 2011 Landfill AOCs LTM Report (FPM/CAPE, July 2012), 2012 Landfill AOCs LTM Report (FPM/CAPE, March 2013), 2013 Landfill AOCs LTM Report (FPM/CAPE, February 2014) and the 2014 Landfill AOCs LTM Report (FPM/CAPE August 2015).

## 6.2 LF009 (LANDFILL 6 AOC) – 2015 SITE ACTIVITIES

This section describes the LF009 (Landfill 6 AOC) site activities and monitoring data for 2015. The field activities include semiannual landfill cap inspections, semiannual landfill gas monitoring, annual landfill cap mowing, and annual groundwater and surface water sampling. The Landfill 6 AOC LTM Network sampling locations are illustrated in Figure 6-2.

### 6.2.1 Landfill Cap Inspections/Maintenance

The spring 2015 inspection was conducted in May 2015 and did not identify any major deficiencies that would jeopardize the integrity of the cover.

The fall 2015 inspection was conducted in September 2015 following landfill mowing. The annual landfill mowing event was conducted in September 2015. The inspection did not identify any major deficiencies that would jeopardize the integrity of the cover.

The semiannual inspection reports (Post-Closure Monitoring Reports) for spring 2015 and fall 2015 can be found in Appendix A. It was also confirmed that the beaver dam in Three Mile Creek does not impact LF009 (Landfill 6 AOC).

### 6.2.2 Landfill Gas Monitoring

Landfill gas monitoring was conducted at 13 gas monitoring probes (LF6GMP-1 through -13) and sixteen gas vents (LF6VENT-1 through -16) in May 2015 and September 2015 for methane concentrations, LEL for methane, oxygen concentrations and carbon dioxide concentrations. These locations are also illustrated in Figure 6-2. The semiannual LF009 (Landfill 6 AOC) gas results are presented in Table 6-1.

Landfill gas readings were taken in May 2015. There were no LEL values that equaled or exceeded 100% at any of the thirteen gas monitoring probes or the sixteen gas vents. There were no elevated methane concentrations recorded at any of the gas monitoring probes or gas vents.

Landfill gas readings were also taken in September 2015. There were no LEL values that equaled or exceeded 100% at any of the thirteen gas monitoring probes. There were no elevated methane concentrations recorded at any of the gas monitoring probes or the gas vents.

### 6.2.3 Groundwater and Surface Water Monitoring

Groundwater and surface water monitoring was conducted in June 2015 at 19 monitoring wells (LF6MW-1, -12, LF6VMW-10R2, -17S, -17D, -18, -19, -20, -21, -22, -23, -24, -25, -26,

775VMW-10, -18R, -20R, TMCMW-9 and TMC-USGS-2), two leachate locations (LF6LH-1 and -2), one wetland location (LF6W-1) and three surface water locations (LF6SW-1, -2 and -3) for landfill leachate indicators in June 2015. Additionally, VOC analysis was performed at monitoring wells 775VMW-10, LF6VMW-12, -24, -25, -26, and TMCMW-9, surface water locations LF6SW-1, -2, -3, wetland sample LF6W-1. These locations are also illustrated in Figure 6-2. LF6MW-12 was not sampled in the June 2015 sampling round. Remnants of a 2013 vegetable oil injection (that occurred in the immediate vicinity LF6MW-12 as part of the SD052-04 Landfill 6 OU) were observed on top of the water column at LF6MW-12. This did not allow for a proper top of water measurement and made it difficult to properly monitor drawdown of the water column during low-flow sampling.

All sampling activities were performed in accordance with the Updated 2014 UFP QAPP for Performance Based-Remediation at the Former Griffiss AFB (CAPE/FPM, June 2014). All groundwater and surface water monitoring analytical data, which are presented in Table 6-2. Daily CQCRs completed during the June 2015 sampling round is provided in Appendix B. The complete list of analytes and the validated laboratory data are attached in Appendix C and the raw laboratory data are available in Appendix D.

#### 6.2.3.1 Groundwater Monitoring Results

VOCs:

Monitoring wells with VOC exceedances included 775VMW-10 and LF6VMW-26.

- TCE exceeded the NYS Groundwater Standards at monitoring well 775VMW-10 (33.0 µg/L). The NYS Groundwater Standard for TCE is 5 µg/L.
- cis-1,2 DCE exceeded the NYS Groundwater Standards at monitoring well LF6MW-26 (95 µg/L). The NYS Groundwater Standard for cis-1,2 DCE is 5 µg/L.

These VOC exceedances are addressed under the SD052-04 Landfill 6 Operable Unit (On-base Groundwater Site). The ROD for this site was issued by the Air Force in December 2008 and signed by the USEPA in March 2009. The selected remedy has been implemented. The latest performance monitoring results are provided in the Draft Performance Monitoring Report for On-Base Groundwater AOCs (FPM, July 2015).

Leachate Indicators

Monitoring wells with leachate indicator exceedances included 775VMW-18R, LF6MW-1, LF6VMW-10R2, -20, -21, -24, -26, TMC-USGS-2 and TMCMW-9.

- TDS exceeded the NYS Groundwater Standards at monitoring well LF6MW-1 (2,600 mg/L), LF6VMW-24 (770 mg/L), LF6VMW-26 (550 mg/L), and TMCMW-9 (640 B mg/L). The NYS Groundwater Standard for TDS is 500 mg/L.
- Chloride exceeded the NYS Groundwater Standards at monitoring wells 775VMW-18R (440 mg/L), LF6MW-1 (1,400 mg/L), and LF6VMW-24 (330 mg/L). The NYS Groundwater Standard for chloride is 250 mg/L.

- Color exceeded the NYS Groundwater Standards at monitoring wells LF6VMW-10R2 (250 pcu), -20 (500 pcu), -21 (180 pcu) and TMC-USGS-2 (50 pcu). The NYS Groundwater Standard for color is 15 pcu.
- TKN exceeded the NYS Groundwater Standard at LF6VMW-20 (1.5 mg/L) The NYS Groundwater Standard for TKN is 1mg/L.

Synoptic Results

The following summarizes the groundwater elevations (above MSL) for each monitoring well sampled at LF009 (Landfill 6 AOC) in the June 2015 sampling round: 775VMW-10 (457.43 ft), -18R (458.91 ft), -20R (456.20 ft), LF6MW-1 (456.98 ft), -12 (453.03 ft), LF6VMW-10R2 (453.56 ft), -17D (454.64 ft), -17S (456.37 ft), -18 (451.98 ft), -19 (452.77 ft), -20 (453.69 ft), -21 (454.71 ft), -22 (453.67 ft), -23 (453.91 ft), -24 (453.76 ft), -25 (454.82 ft), -26 (452.96 ft), TMCMW-9 (454.81 ft) and TMC-USGS-2 (450.96 ft). Based on the groundwater elevations above, the updated average hydraulic gradient at LF009 is approximately 0.0059 ft per foot. The groundwater contours are illustrated in Figure 6-3.

### 6.2.3.2 Surface Water Monitoring Results

VOCs

No VOC exceedances were reported.

Leachate Indicators

Color exceeded the NYS Groundwater Standards at sampling locations LF6SW-1 (130 pcu), -2 (100 pcu), -3 (100 pcu), and LF6LH-1 (100 pcu). The NYS Groundwater Standard for color is 15 pcu.

### 6.2.4 Conclusions

Landfill Cap Inspections and Maintenance

The semiannual inspections have not identified any major deficiencies that would jeopardize the integrity of the cover and there is optimal vegetation cover on the cap. Inspections are also conducted following significant weather events (5-year storm events). If a significant weather event is recorded during the remainder of the year, an emergency response landfill inspection will be conducted and reported.

Landfill Gas Monitoring

Spring 2015 landfill gas readings were taken in May 2015. LEL values did not equal or exceed 100% at any of the gas monitoring probes or gas vents.

Fall 2015 landfill gas readings were taken in September 2015. LEL values did not equal or exceed 100% at any of the gas monitoring probes or gas vents.

Groundwater and Surface Water

As listed in the final Remedial Action (RA) Work Plan (WP) (Parsons, July 2008), the selected remedy for SD052-04 Landfill 6 Operable Unit is enhanced bioremediation. This process is intended to increase biodegradation of the groundwater contaminants by injecting a vegetable oil emulsion into the ground upgradient of monitoring well LF6MW-12. The vegetable oil emulsion accelerates the natural breakdown of the chemicals, reducing the concentration of contaminants. To assess the effectiveness of the injections, semiannual performance sampling is conducted independent from the LF009 (Landfill 6 AOC) LTM sampling. Performance monitoring reports are issued independently of this report.

The relatively high concentrations of cis-1,2-DCE and TCE found at monitoring wells LF6MW-12 (historically, since this well was not sampled this round) and LF6VMW-26 do not appear to be directly impacting downgradient surface water locations along Three Mile Creek. TCE detections were previously recorded at surface water sampling locations LF6SW-1 and -2, but they were one-time occurrences with concentrations well below their respective reporting limits. Daughter compounds associated with the breakdown of TCE have not been detected at any of the three surface water sampling locations since surface water sampling began in July 2006. The TCE plume identified at SD052-04 Landfill 6 Operable Unit in the Spring 2015 performance monitoring event is illustrated in Figure 6-2.

Landfill leachate indicators were above NYS Groundwater and Surface Water Standards at 775VMW-18R, LF6MW-1, LF6VMW-10R2, -20, -21, -24, -26, TMCMW-9, TMC-USGS-2, LF6LH-1, and LF6SW-1, -2 and -3. The exceedances included color, chloride, TDS, and TKN.

Color concentrations reported during the June 2015 sampling round were higher than the previous sampling round at downgradient monitoring wells LF6VMW-10R2, -20, -21, TMC-USGS-2, surface water sampling locations LF6SW-1, -2, -3 and wetland sampling location LF6LH-1. The increase may be attributed to natural conditions caused by greater rainfall and surface water runoff. Similar elevated color concentrations were reported at an above average number of wells and surface water locations at all other landfills during the June 2015 round. Future monitoring events will determine whether or not this was an anomaly.

All concentrations of leachate indicators at the overburden wells and surface water locations were comparable to previous results and were below/within the typical range of municipal landfill leachate (Lee and Jones, 1991).

This reference was used during the Baseline Study of the former Griffiss AFB Landfill AOCs and is provided in Table 2-4. The leachate indicators at 775VMW-18R, LF6MW-1, LF6VMW-24, -26, and TMCMW-9 are not believed to be associated with landfill leachate. 775VMW-18R and LF6MW-1 are upgradient wells. The leachate indicators at LF6VMW-10R2, -20, -21, -24, and TMCMW-9 are believed to be associated with the Building 775 and Landfill 6 TCE plume. Monitoring wells LF6VMW-10R2, -24 and TMCMW-9 are located adjacent to the plume. This plume is addressed under SD052-04 (Landfill 6 Operable Unit). The leachate indicators were detected in surface water samples at similar concentrations as previous LTM rounds. Color

concentrations were slightly elevated at LF6SW-1, -2, -3 and LF6LH-1, but color exceedances have occurred at all these locations in previous rounds. Any trend at this location will be confirmed with additional annual LTM results.

The alkalinity and hardness concentrations were reported from 8.3 mg/L to 440 mg/L, and 26 mg/L to 500 mg/L, respectively. Alkalinity and hardness are important indicators of the plume extent because the landfill material tends to propagate microbial activity which generates carbon dioxide. This process increases the dissolution of minerals and alkalinity which increases hardness (Baedecker and Back, 1979). The highest hardness concentration detected at a monitoring well was 500 mg/L (LF6MW-1). The alkalinity and hardness concentrations at monitoring wells in the LF009 (Landfill 6 AOC) LTM Network showed sporadic trends as shown in Figure 6-4 (alkalinity) and 6-5 (hardness).

For the June 2015 sampling round, hardness levels throughout the LTM network were similar to the levels measured in the background/upgradient wells. The concentrations of leachate indicators alkalinity and hardness are plotted in Figure 6-6.

## 6.3 LTM RECOMMENDATIONS

Based on the groundwater and surface water LTM results, the landfill leachate concentrations are still within or below the typical range of municipal landfill leachate (Lee and Jones, 1991). VOC contamination detected during the LF009 (Landfill 6 AOC) LTM events is associated with SD052-04 (Landfill 6 OU). VOCs are also monitored under SD052-04 (Landfill 6 OU) on a semi-annual basis. The current scope of annual groundwater sampling and surface water sampling for landfill leachate indicators is recommended for 2016. It is recommended that VOC analysis be eliminated from the LF006 (Landfill 6 AOC) LTM network. VOCs will be monitored under the associated SD052-04 (Landfill 6 OU); please refer to Table 6-4 for the summary of the LF009 (Landfill 6 AOC) LTM Network.

Based on the landfill cap inspections, it is recommended that the frequency continue semiannually. The semiannual inspections ensure that vegetation growth on the landfill cap shows optimal coverage for erosion control and cover system stabilization. Additional inspections or maintenance will be performed as needed, as identified in the Landfill 6 O&M Manual (Conti, December 2006).

Based on the landfill gas monitoring results, it is recommended that the frequency be reduced from semiannual to annual sampling. Landfill gas monitoring from 2011 to 2015 shows that elevated methane levels are stable or absent at all of the POC gas monitoring probes. The annual monitoring events will be conducted in the fall as higher gas concentrations have historically been reported in fall monitoring events compared to spring monitoring events. If methane gas is detected at any of the perimeter POC wells and suspected of leaving the landfill boundary during future events, there will be an increase in frequency of gas sampling events to track upward trends and migration of methane.

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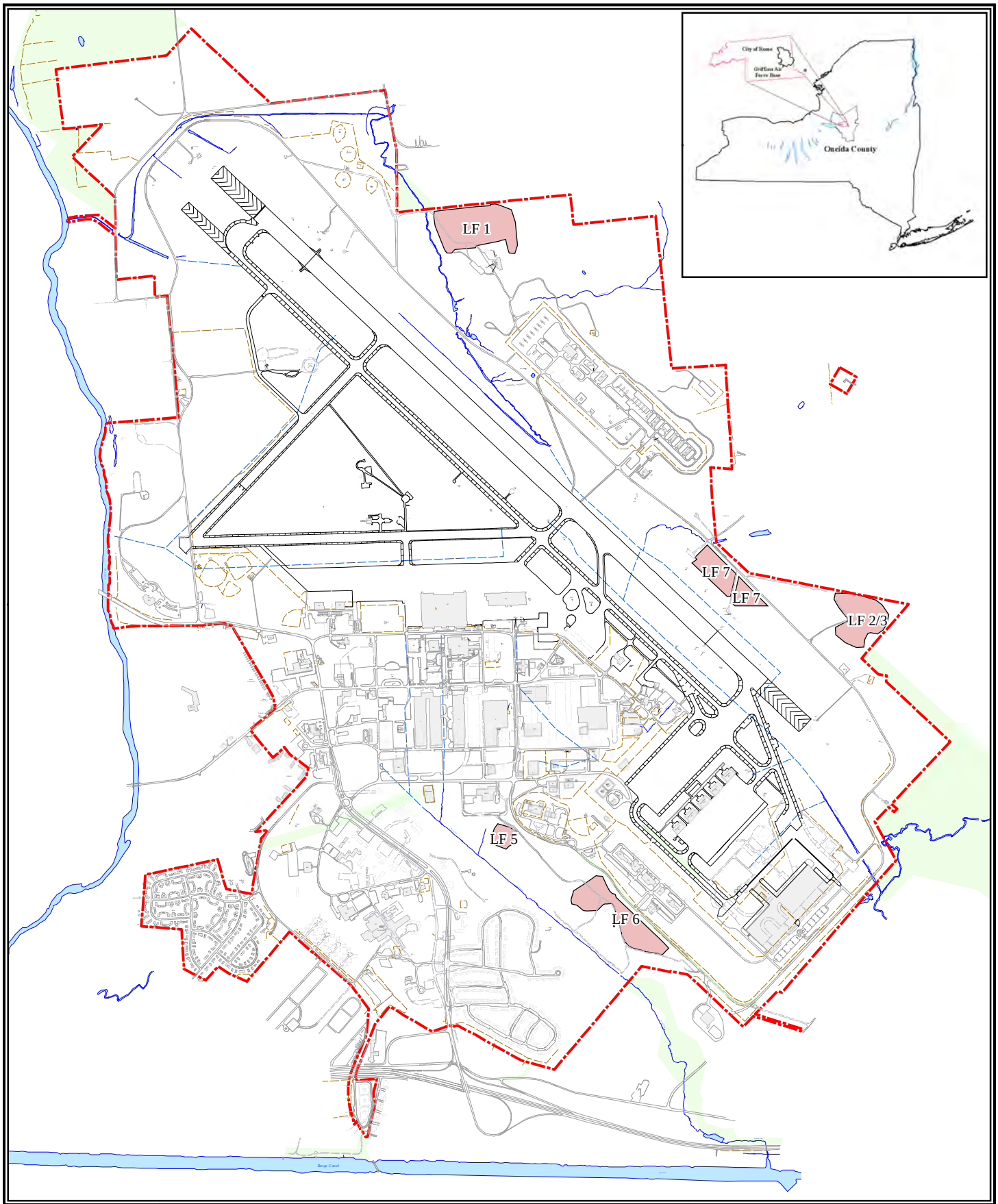
# FIGURES




Site Location

**Key to Features**

- Removed Road/Airfield
- Existing Road/Airfield
- Base Boundary
- Fenceline
- Storm Drain
- Surface Water
- Landfills
- Easement
- Demolished Facility
- Existing Facility

5 0 5
Kilometers

2,000 1,000 0 2,000
Feet

N

**NOTE:**
This project is the result of digital analyses performed on a variety of databases provided and maintained by several public and private agencies. The accuracy of the information presented is limited to the collective accuracy of this map. However, it is intended for planning purposes only and should not be considered exact. A field inspection and locate is required. FPM Remediations Inc. makes no claims regarding the accuracy of the information depicted herein.

**Date Saved:** 11/20/2015

# Figure 1-1
# Former Griffiss Air Force Base Base with Landfill Locations

2015

FPM Remediations, Inc.

UNITED STATES AIR FORCE
GRIFFISS AIR FORCE BASE
ROME, NEW YORK

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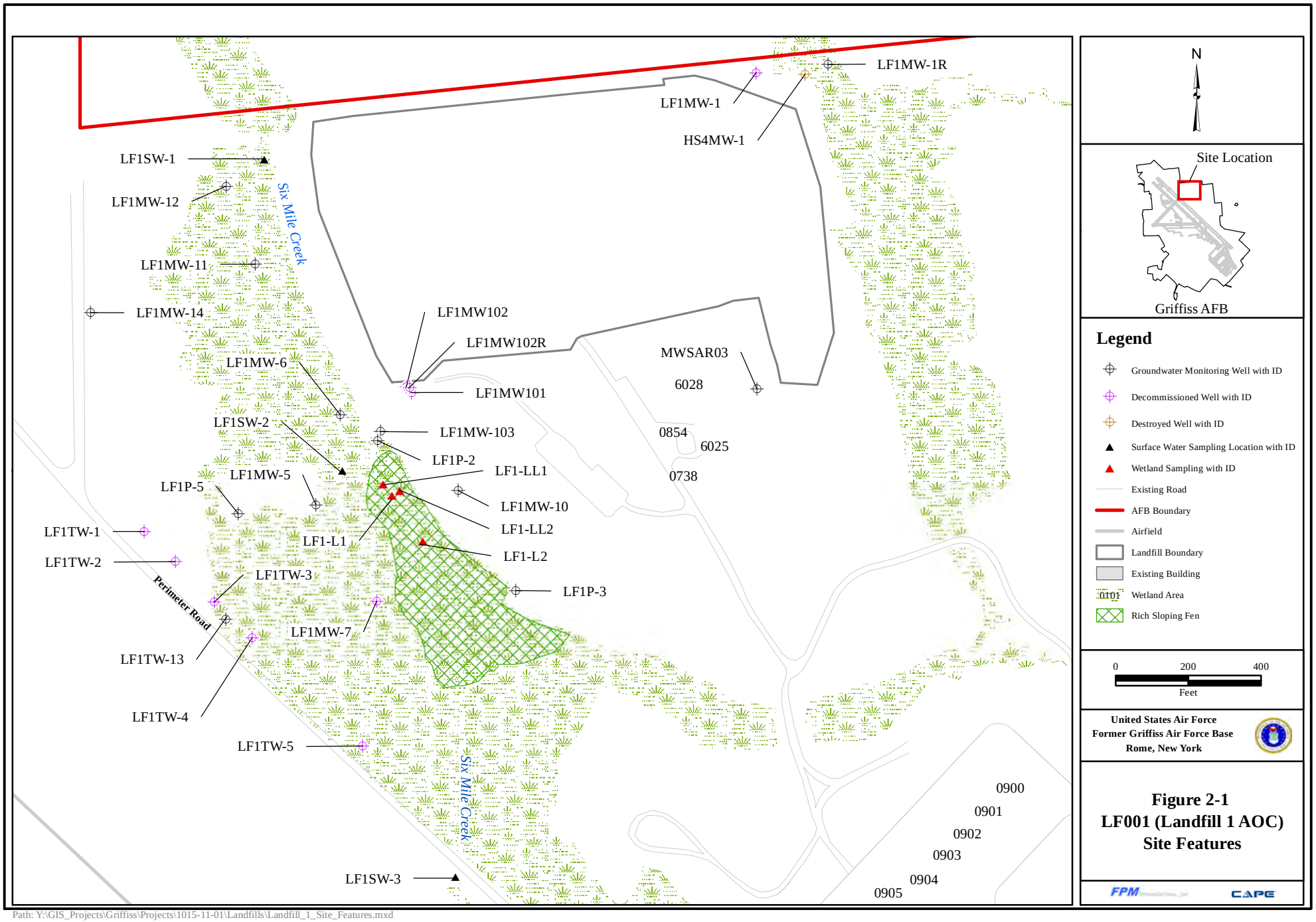


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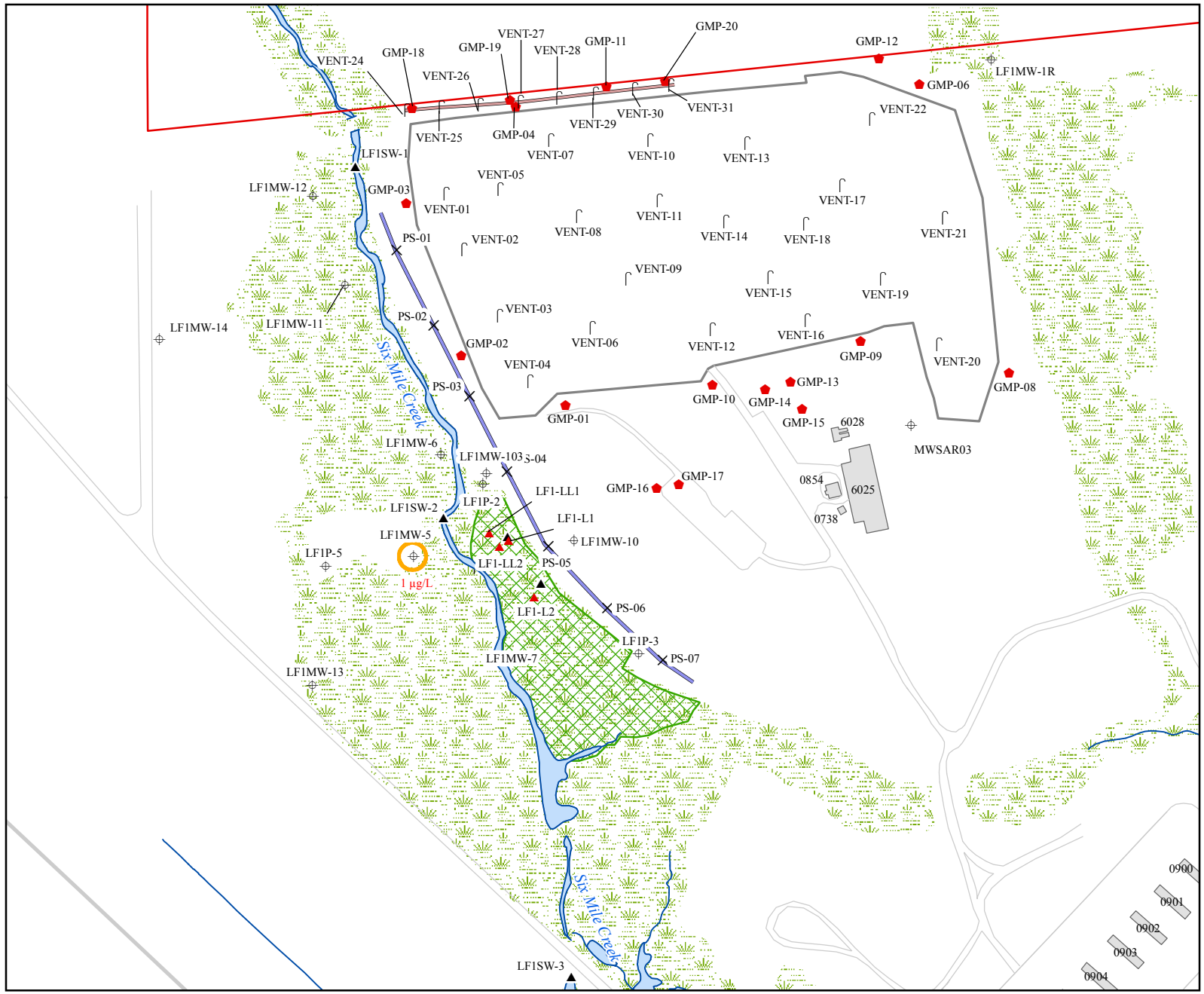


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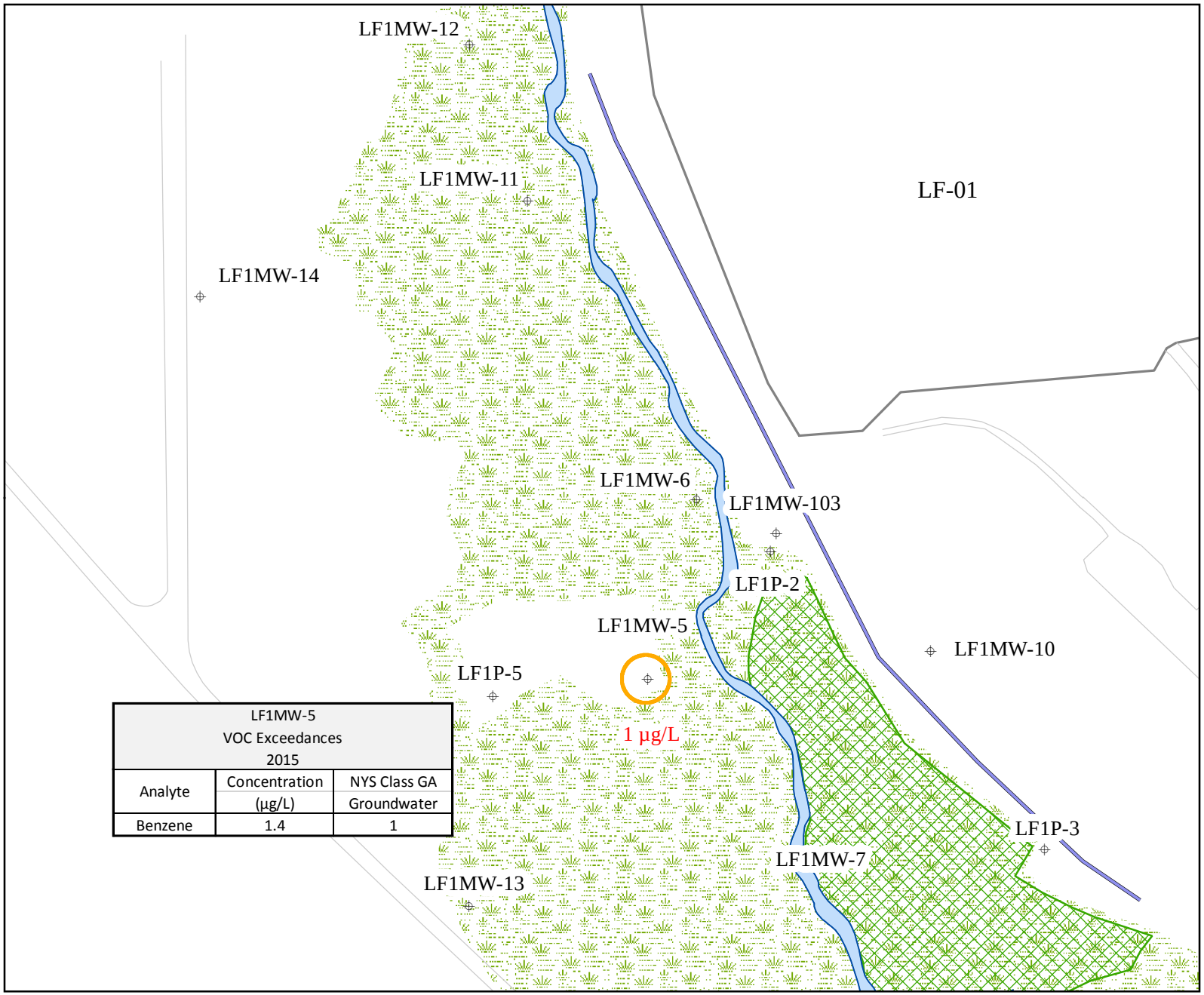


| LF1MW-5 VOC Exceedances 2015 | | |
|---|---|---|
| Analyte | Concentration (µg/L) | NYS Class GA Groundwater |
| Benzene | 1.4 | 1 |

N

Site Location

Griffiss AFB

**Legend**

- Groundwater Monitoring Well with ID
- Leachate Collection Trench
- Passive Gas Collection Trench
- AFB Boundary
- Surface Water
- Existing Road
- Airfield
- Landfill Boundary
- VOC Contamination Plume (June 2014)
- Existing Building
- Rich Sloping Fen
- Wetland Area

0 100 200

Feet

United States Air Force
Former Griffiss Air Force Base
Rome, New York

**Figure 2-3**
**LF001 (Landfill 1 AOC)**
**VOC Exceedances**

FPM CAPE

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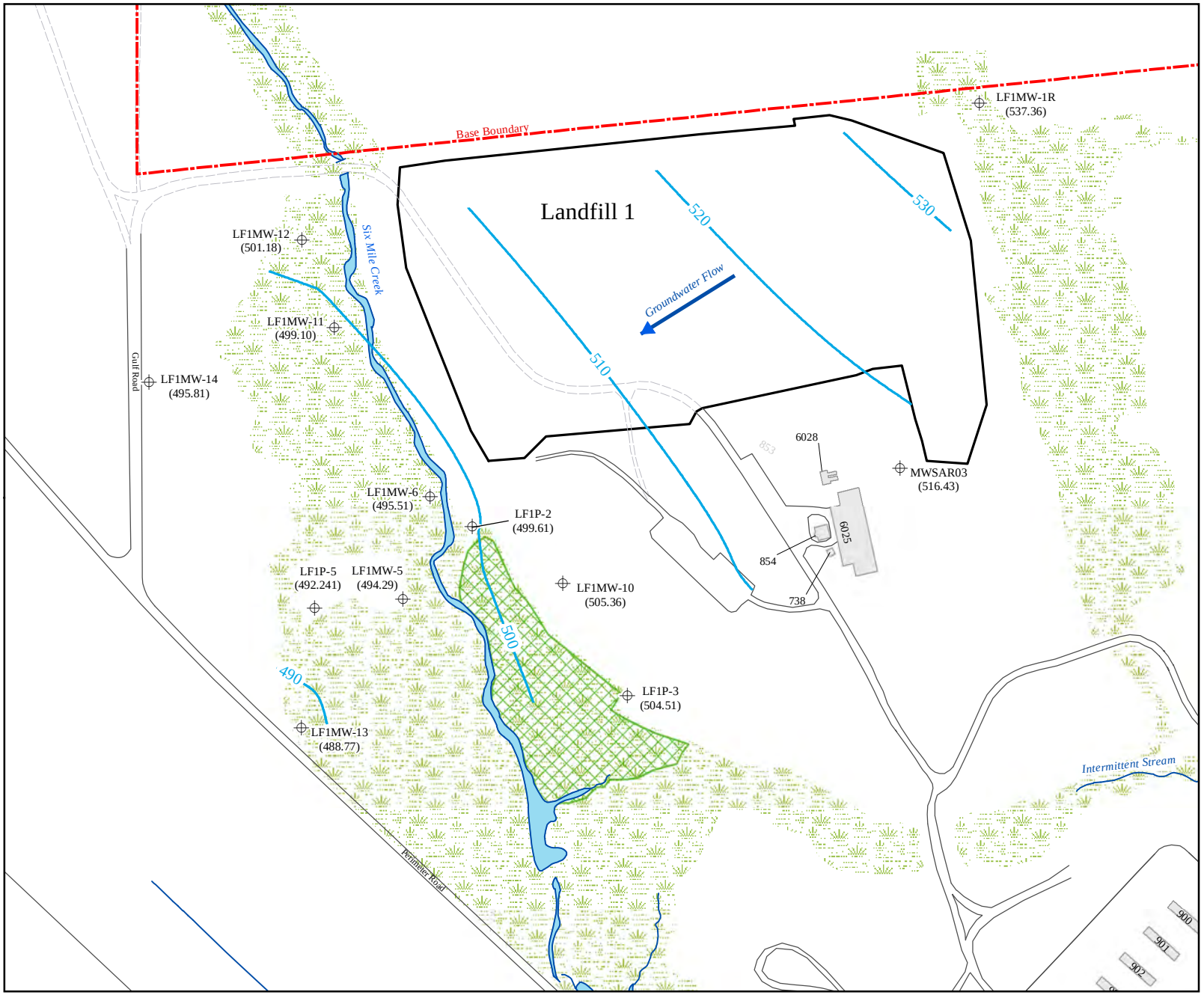


N

Site Location

## Legend

- Groundwater Sampling Location with ID
- Groundwater Flow
- Groundwater Contour 2015 (Ft AMSL)
- Base Boundary
- Surface Water
- Removed Road
- Existing Road /Airfield
- Six Mile Creek
- Landfill 1 Boundary
- Building
- Rich Sloping Fen
- Wetland Area

0 200 400
Feet

**United States Air Force**
**Former Griffiss Air Force Base**
**Rome, New York**

**Figure 2-4**
**Landfill 1 AOC**
**Groundwater Contours**

FPM Remediation, Inc.
CAPE

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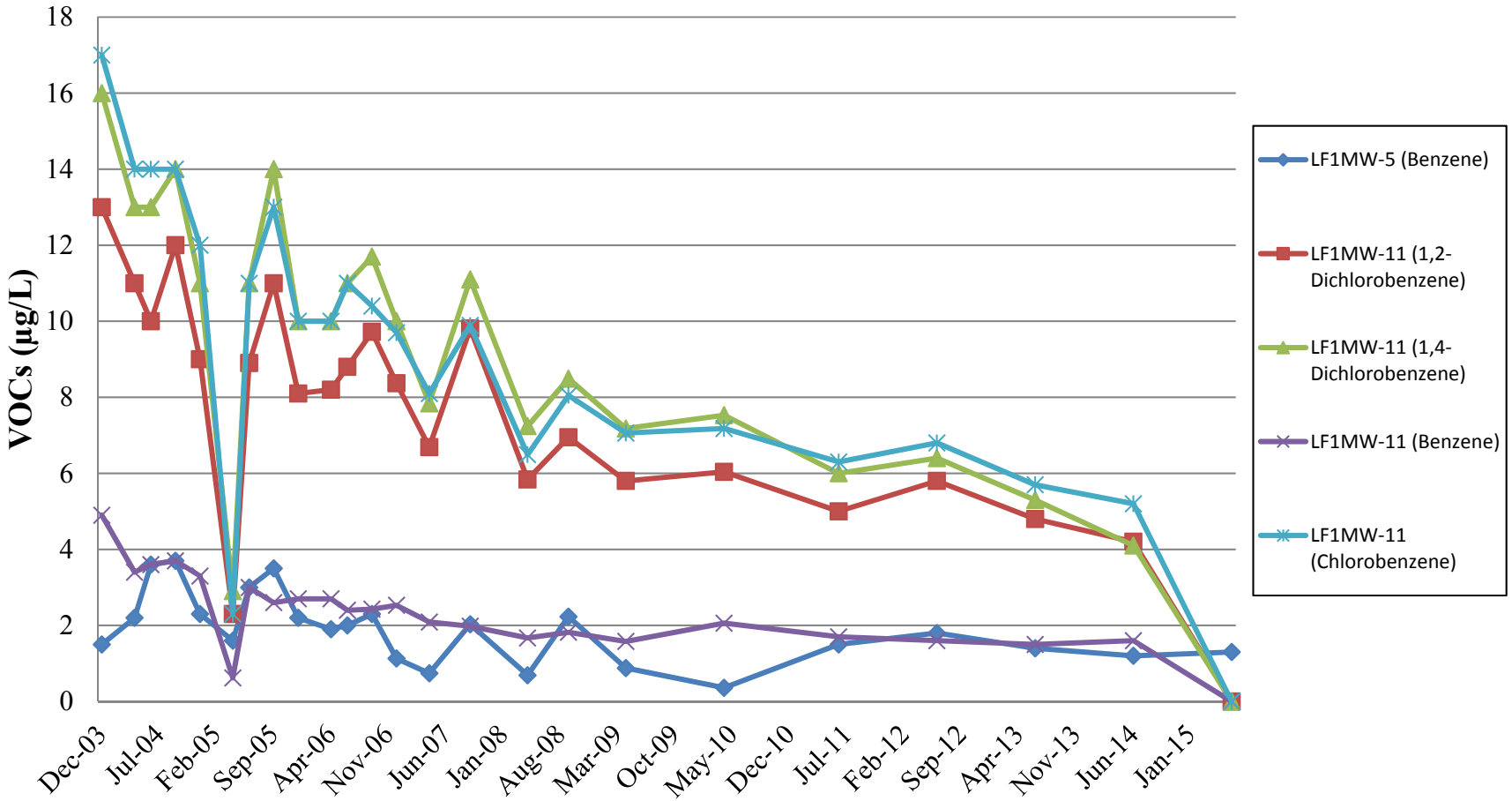
# Figure 2-5
# LF001 (Landfill 1 AOC)
# VOC Exceedance Trends*




**Sampling Round**

* - This graph only depicts the MWs and associated compounds at LF1 that currently show VOC exceedances.

**Figure 2-6**
**LF001 (Landfill 1 AOC)**
**Alkalinity Concentration Trends**

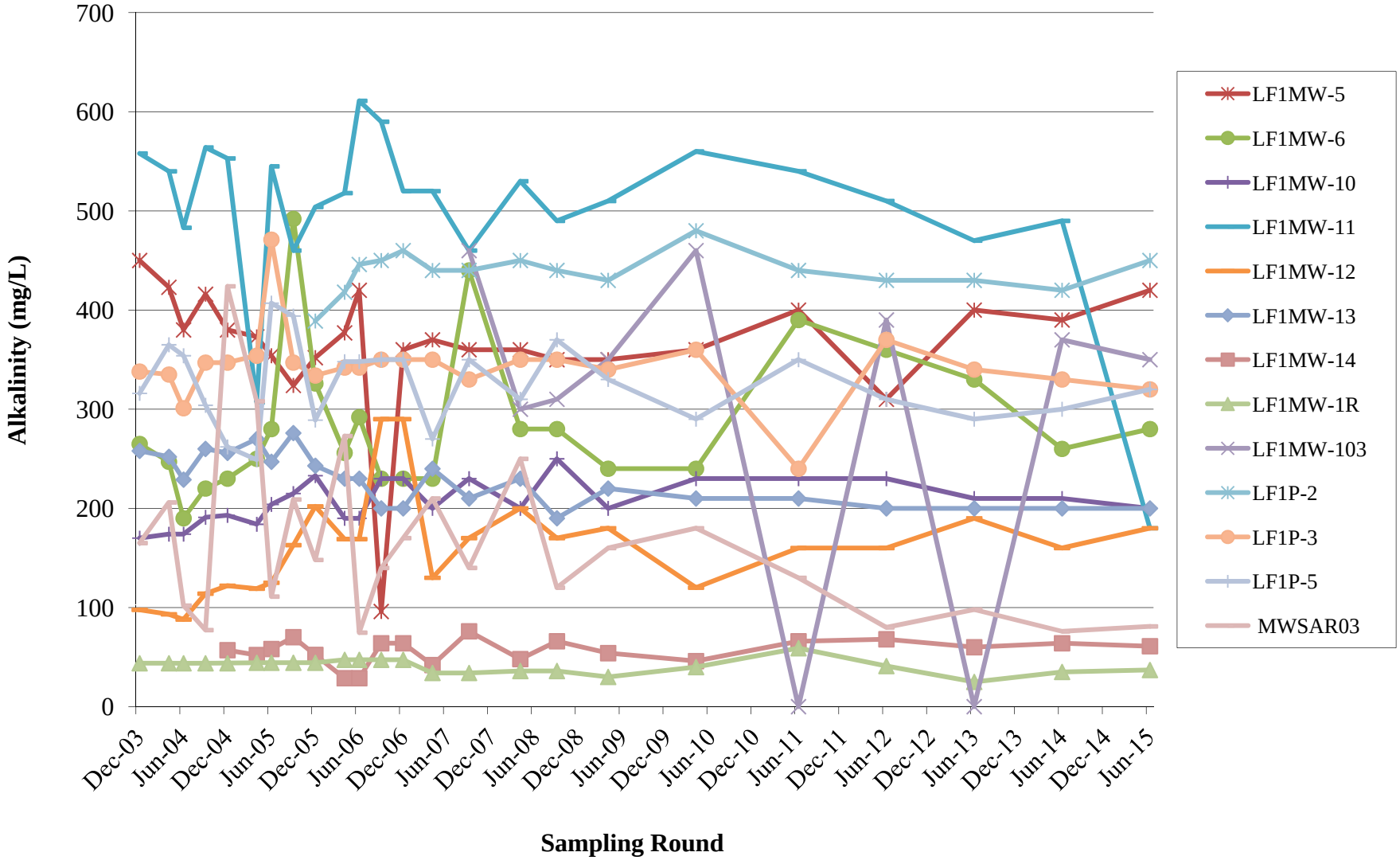
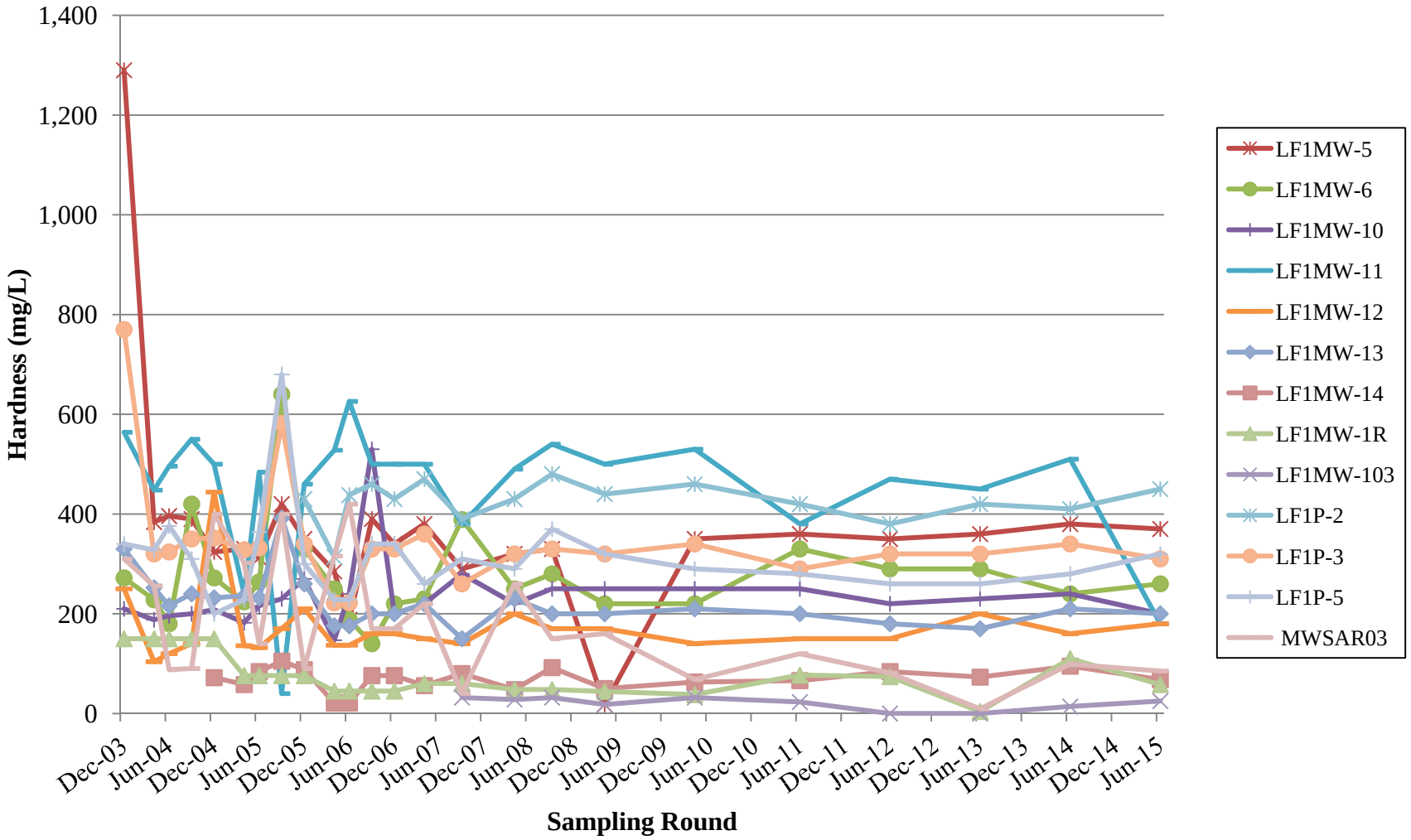
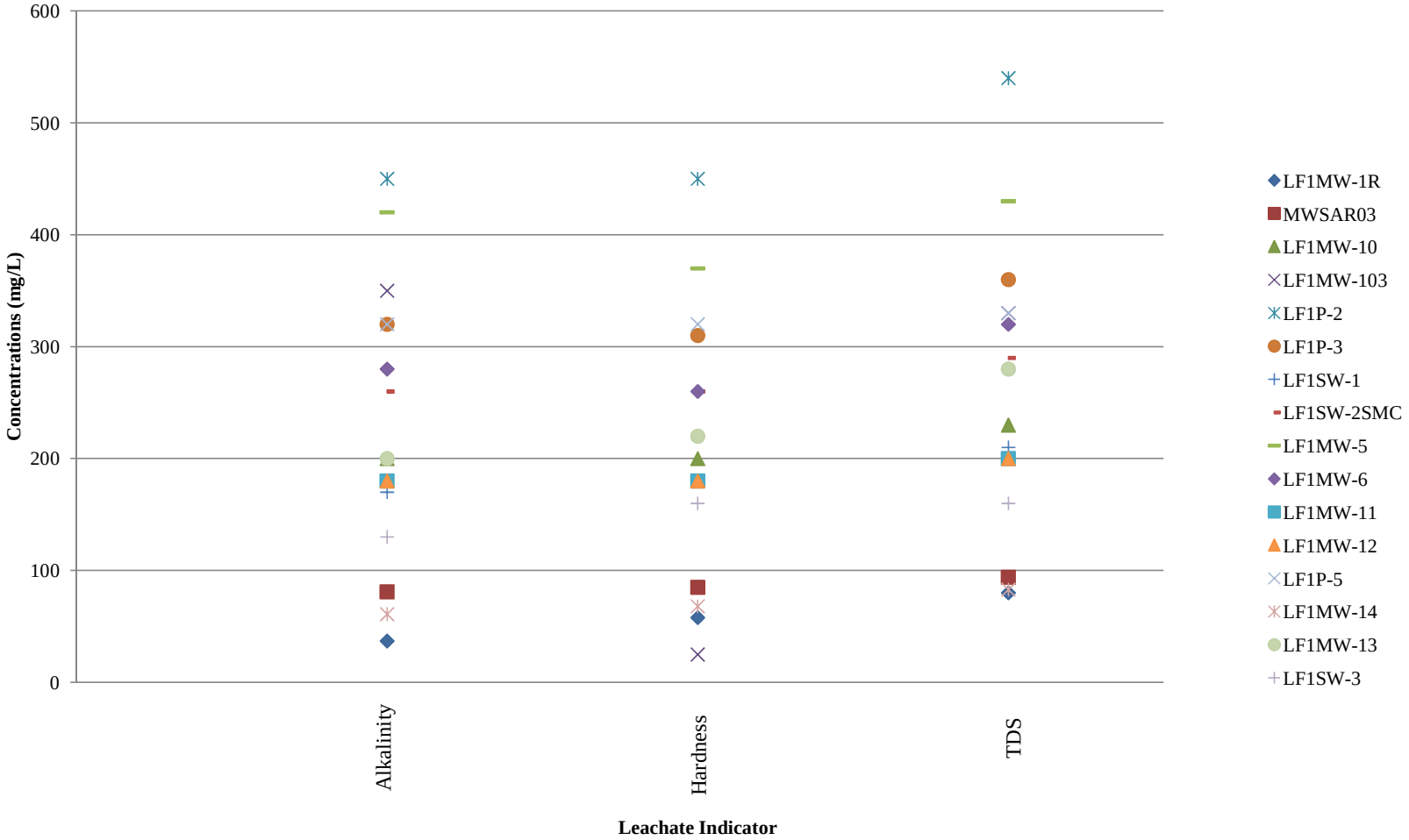
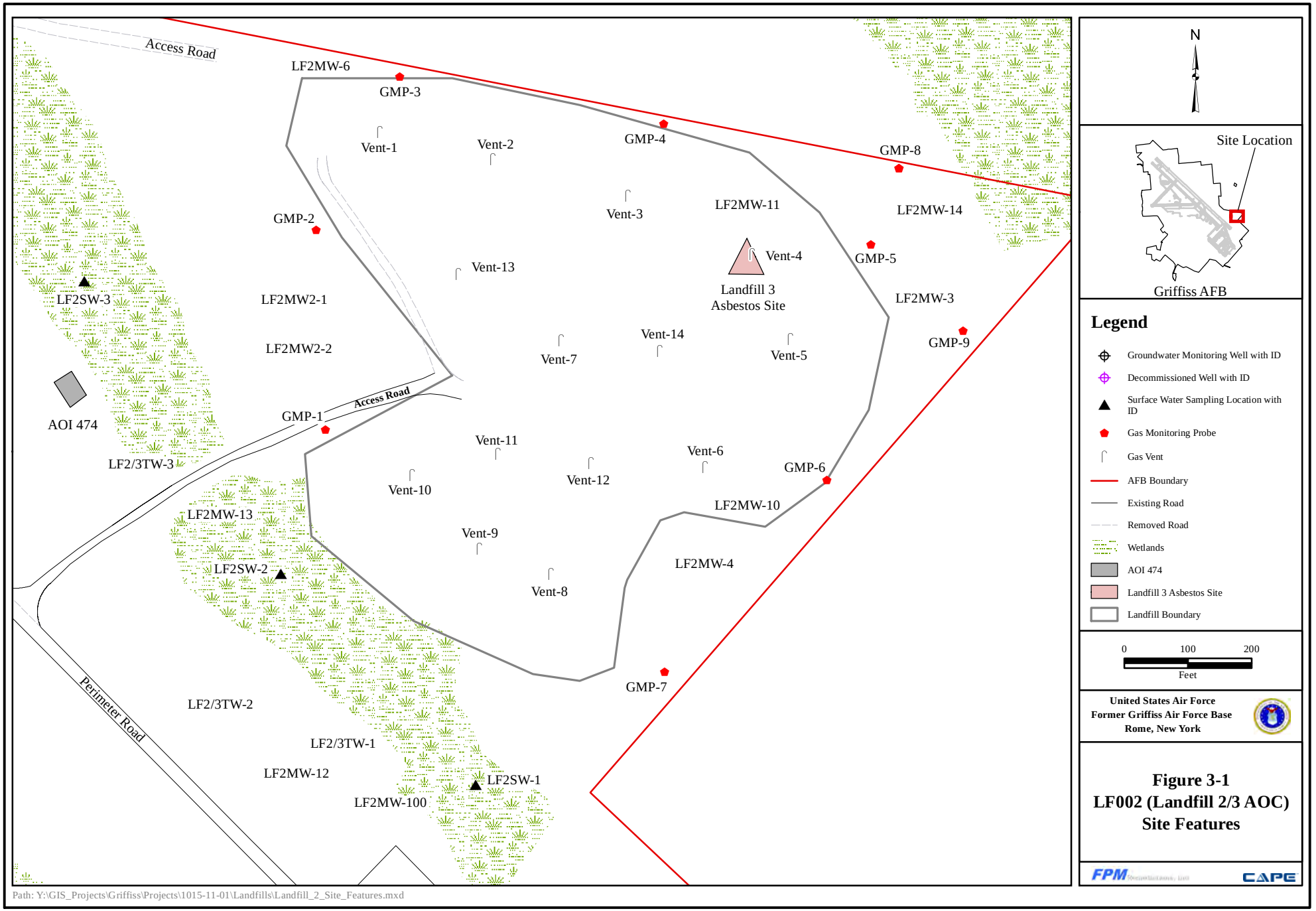


**Figure 2-7**
**LF001 (Landfill 1 AOC)**
**Hardness Concentration Trends**



# Figure 2-8
# LF001 (Landfill 1 AOC)
# Leachate Indicator Concentrations (2015)



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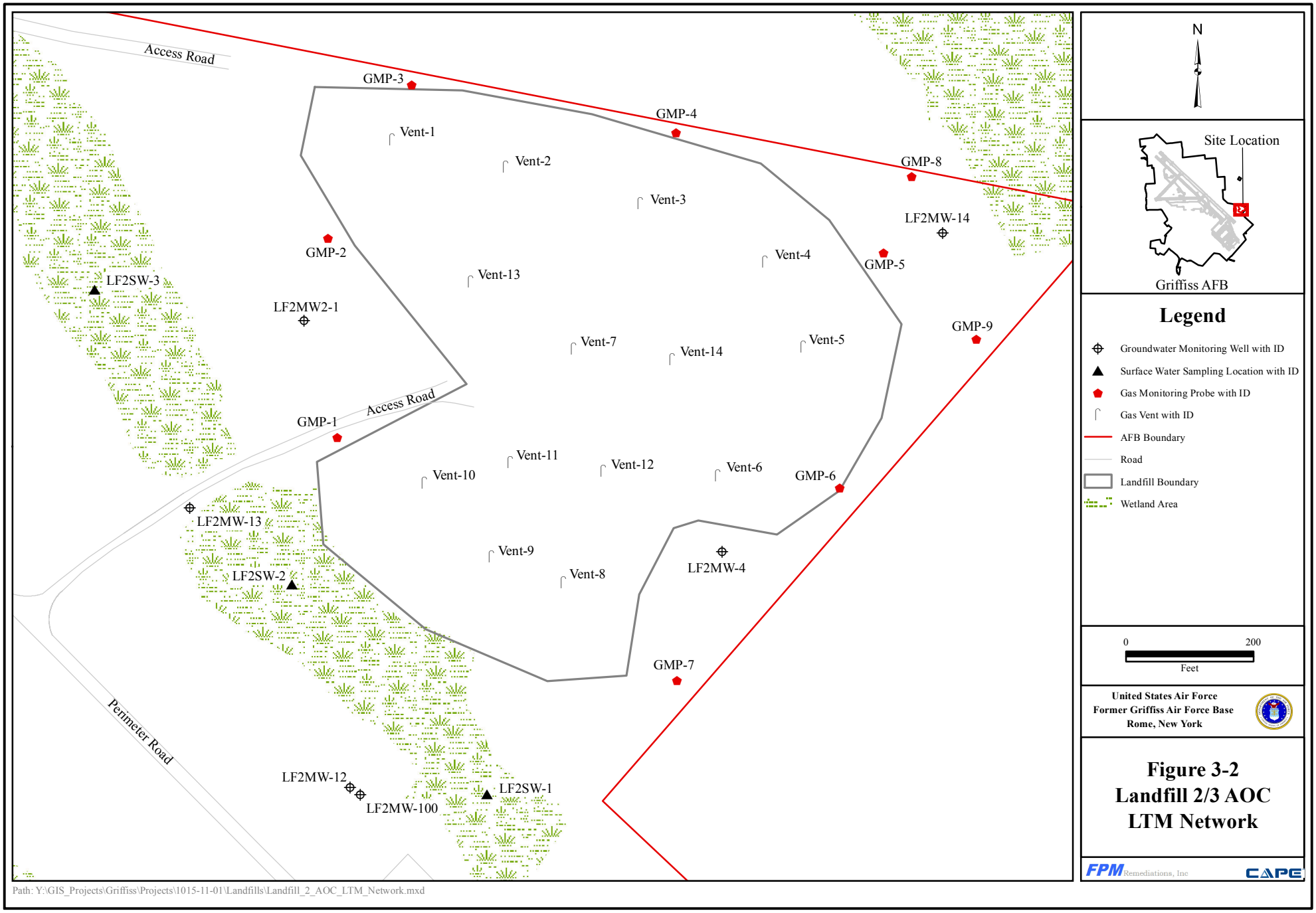


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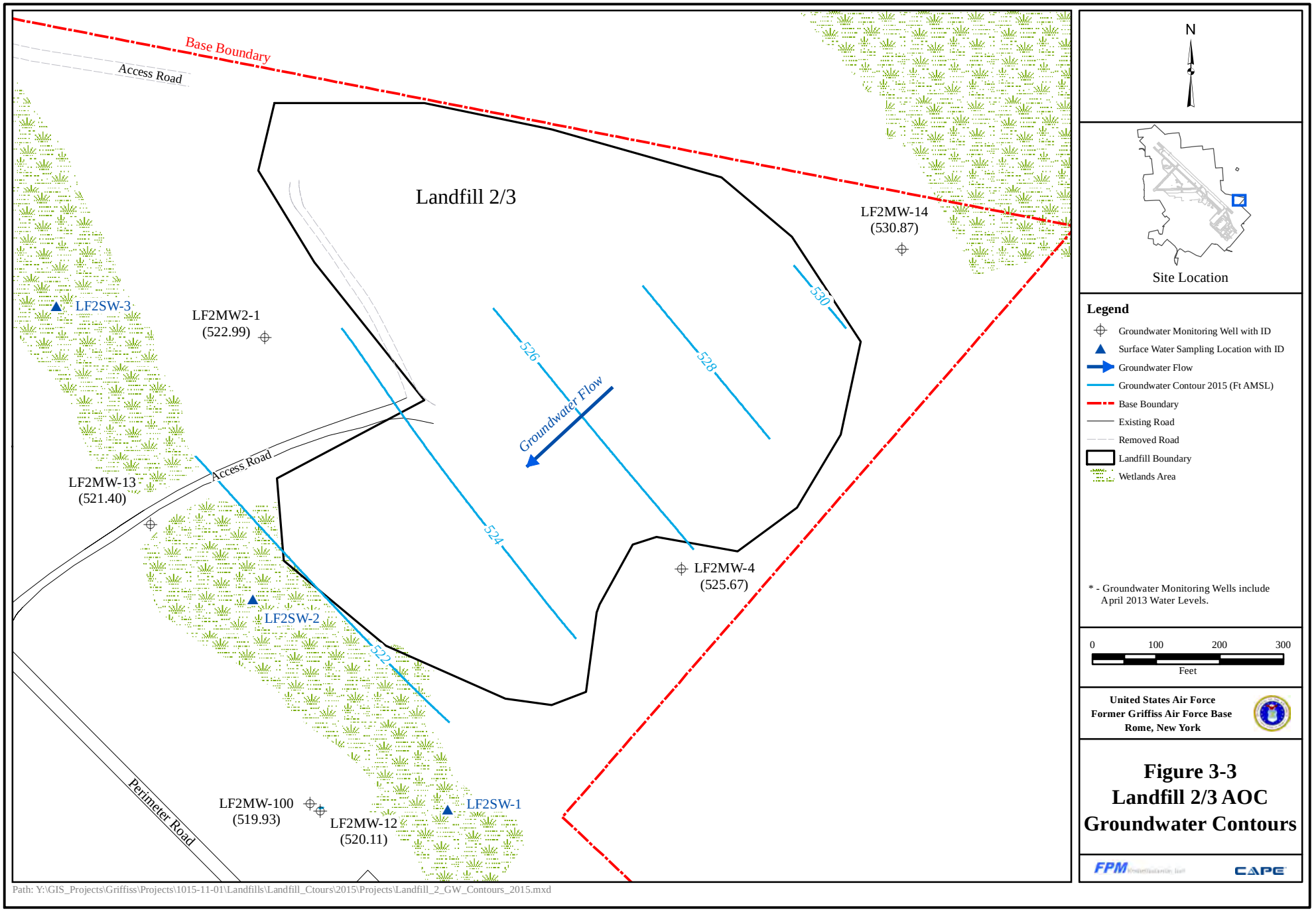


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**Figure 3-4**
**Landfill 2/3 AOC Alkalinity Concentration Trends**

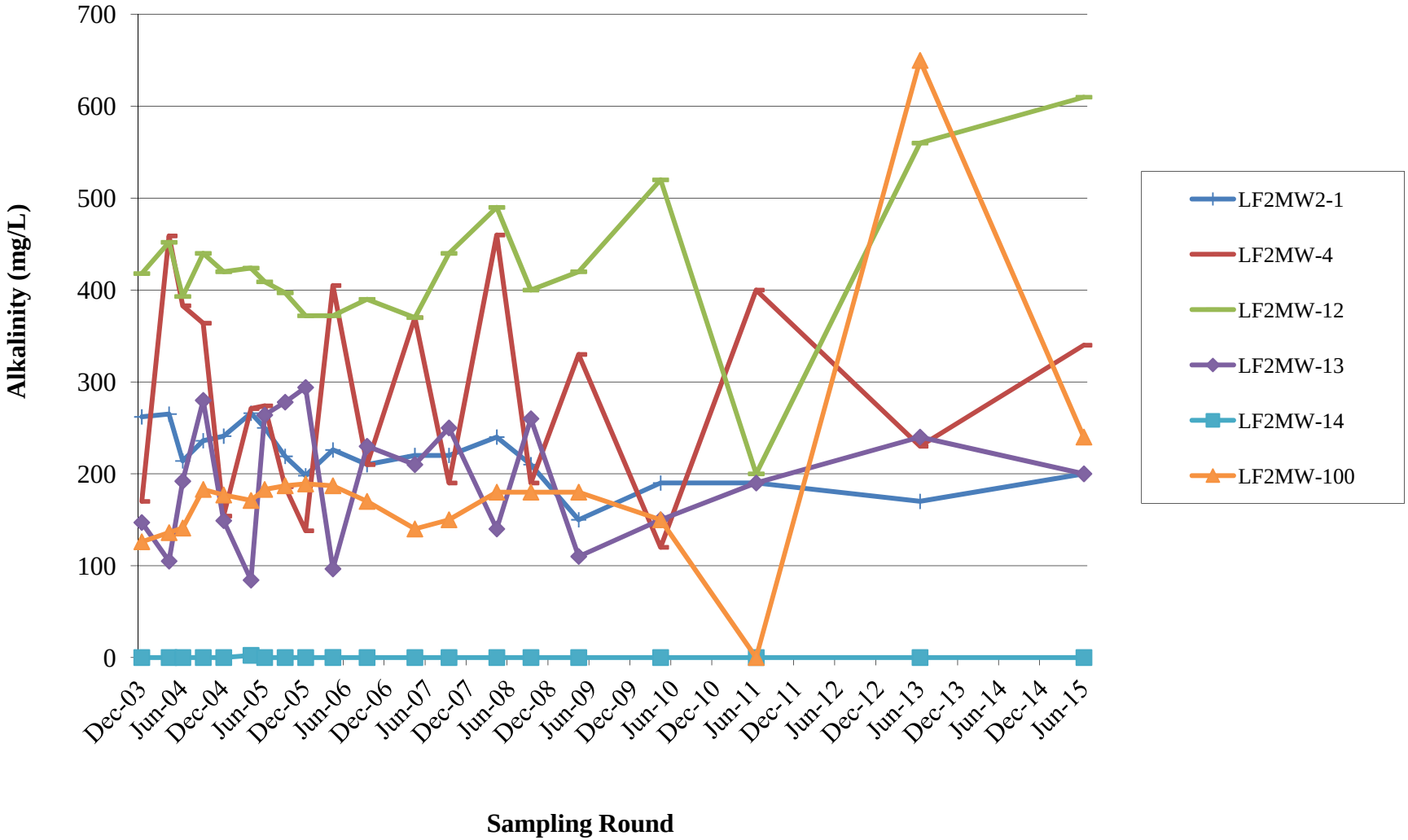
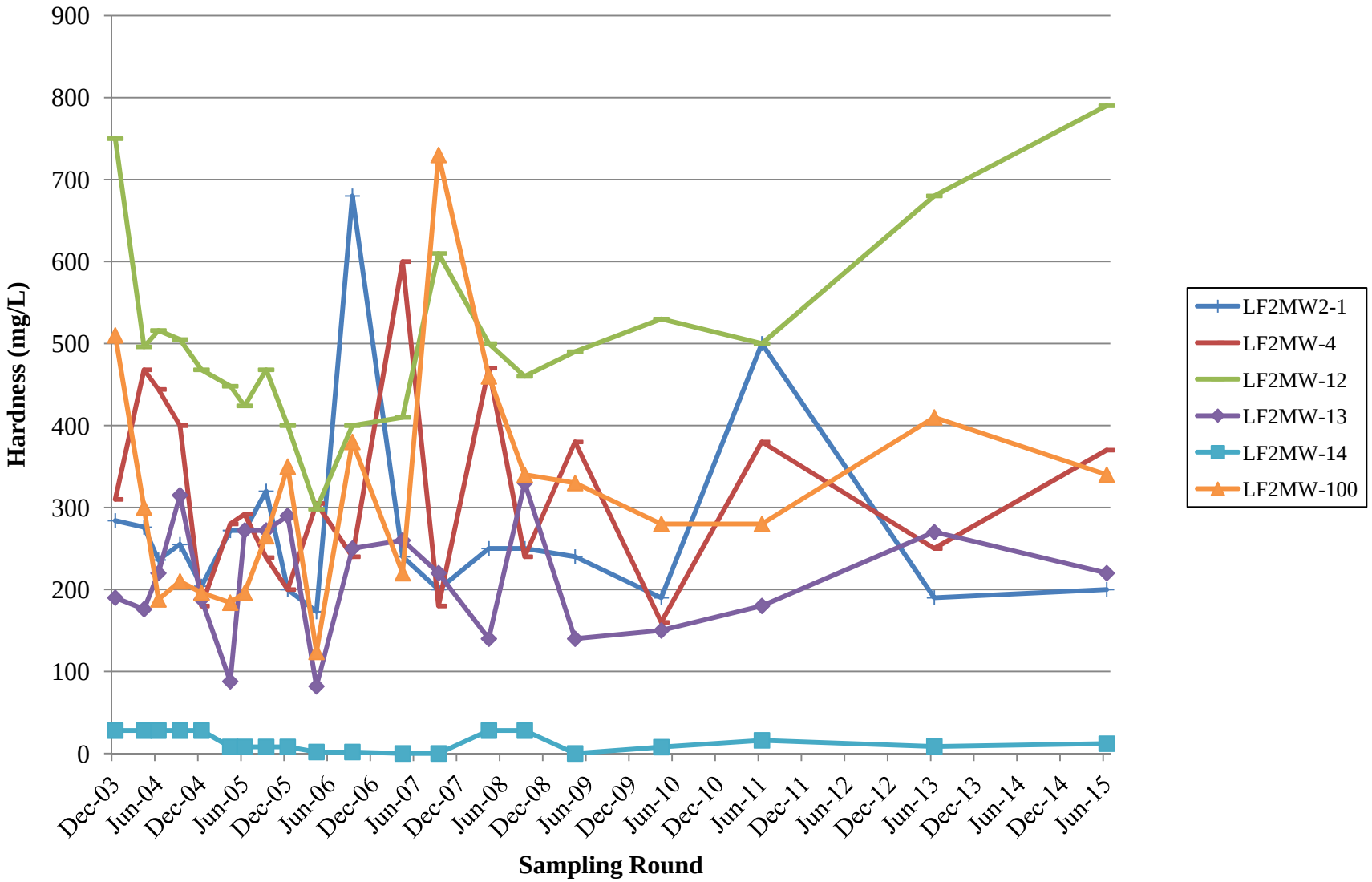
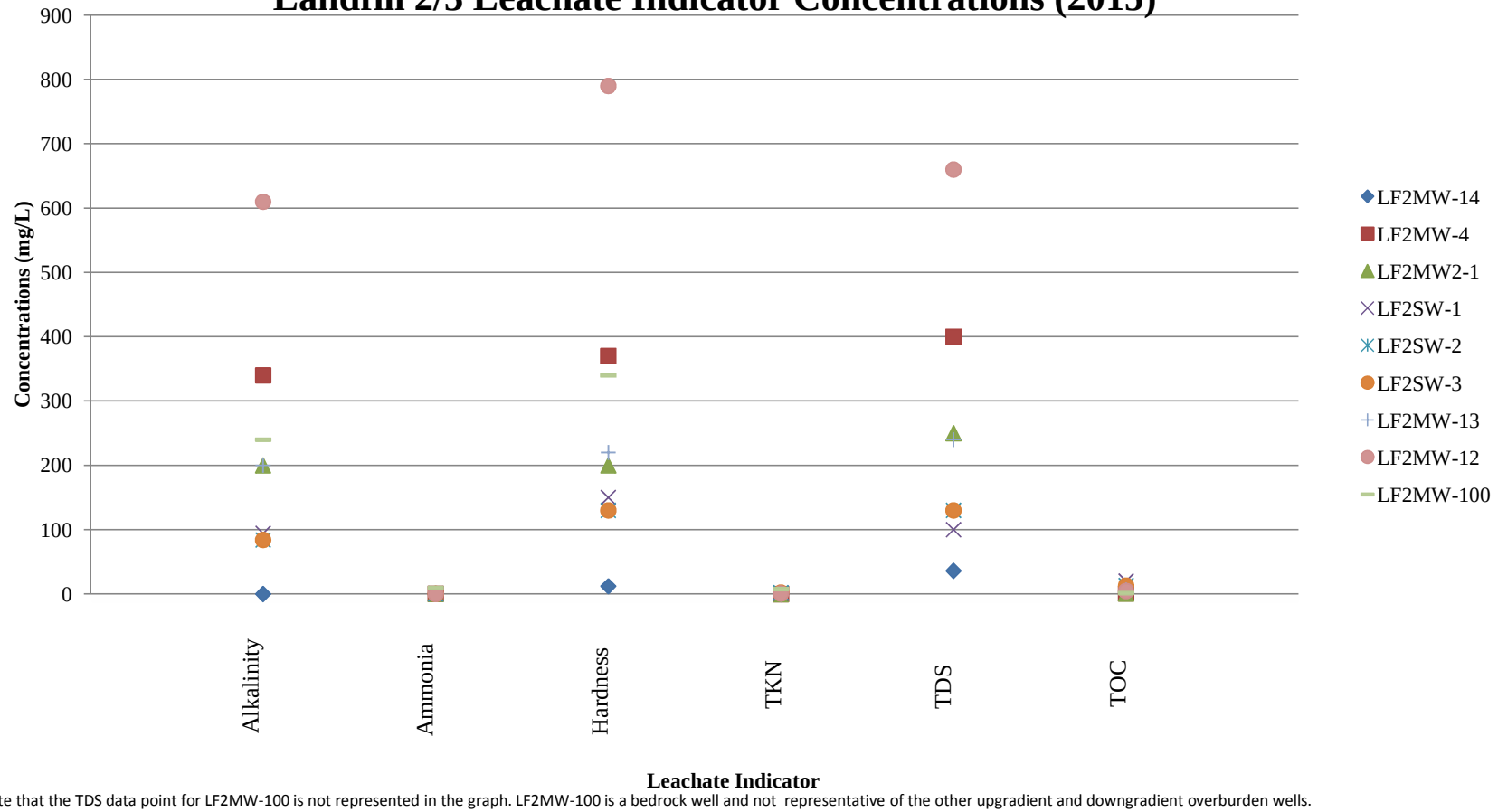


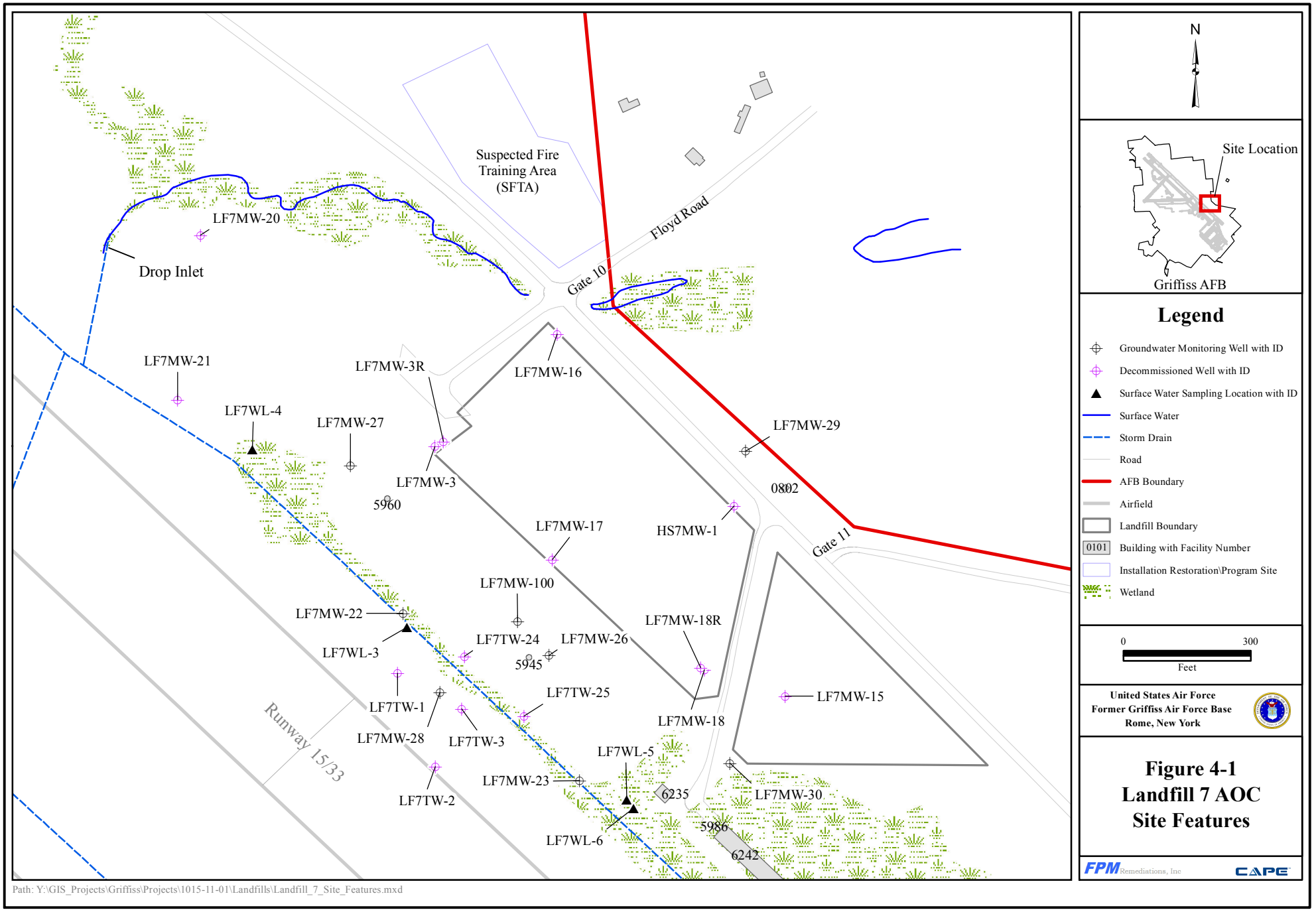
**Figure 3-5**
**Landfill 2/3 AOC Hardness Concentration Trends**



# Figure 3-6
# Landfill 2/3 Leachate Indicator Concentrations (2015)




* - Please note that the TDS data point for LF2MW-100 is not represented in the graph. LF2MW-100 is a bedrock well and not representative of the other upgradient and downgradient overburden wells.

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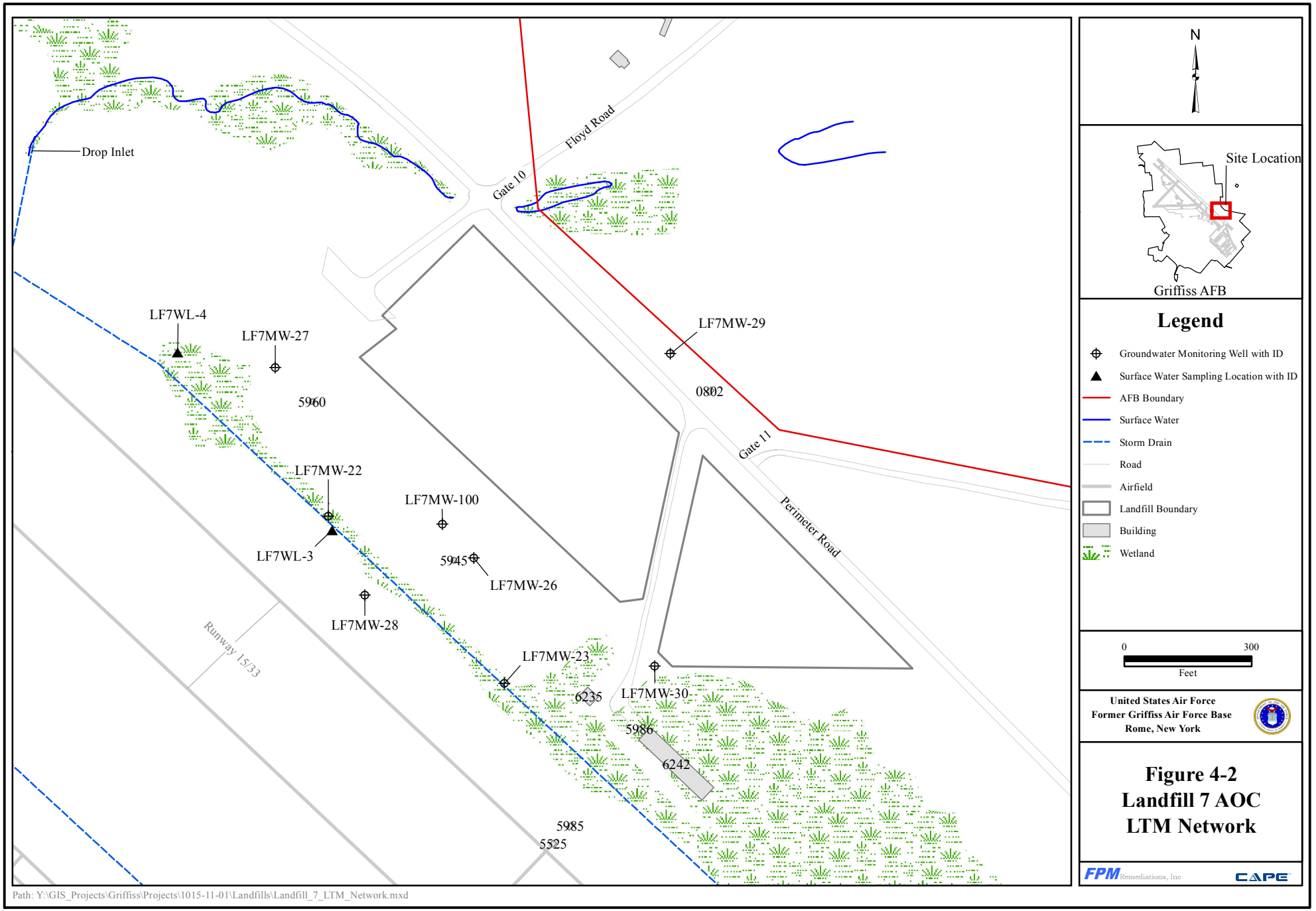


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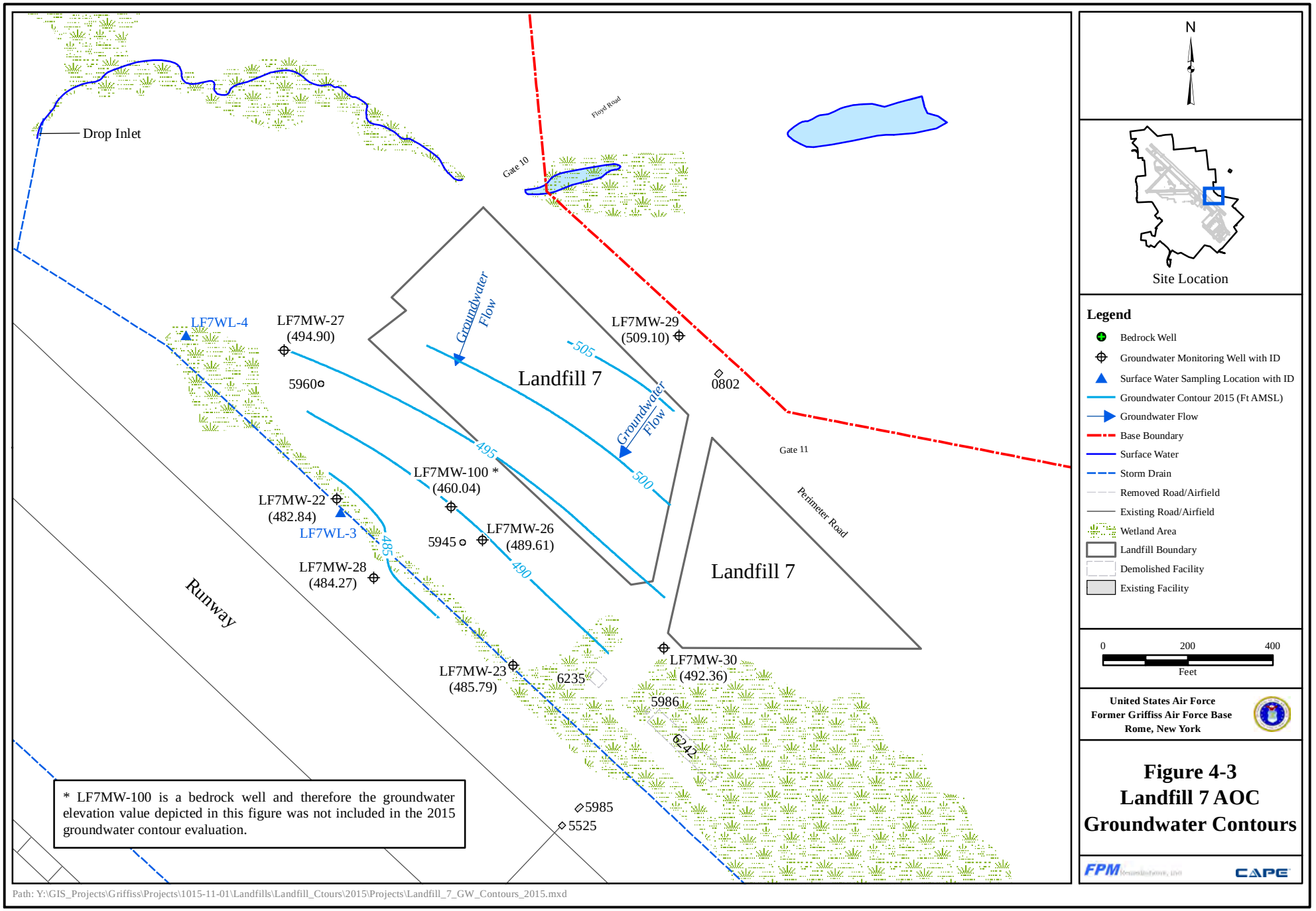


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# Figure 4-4
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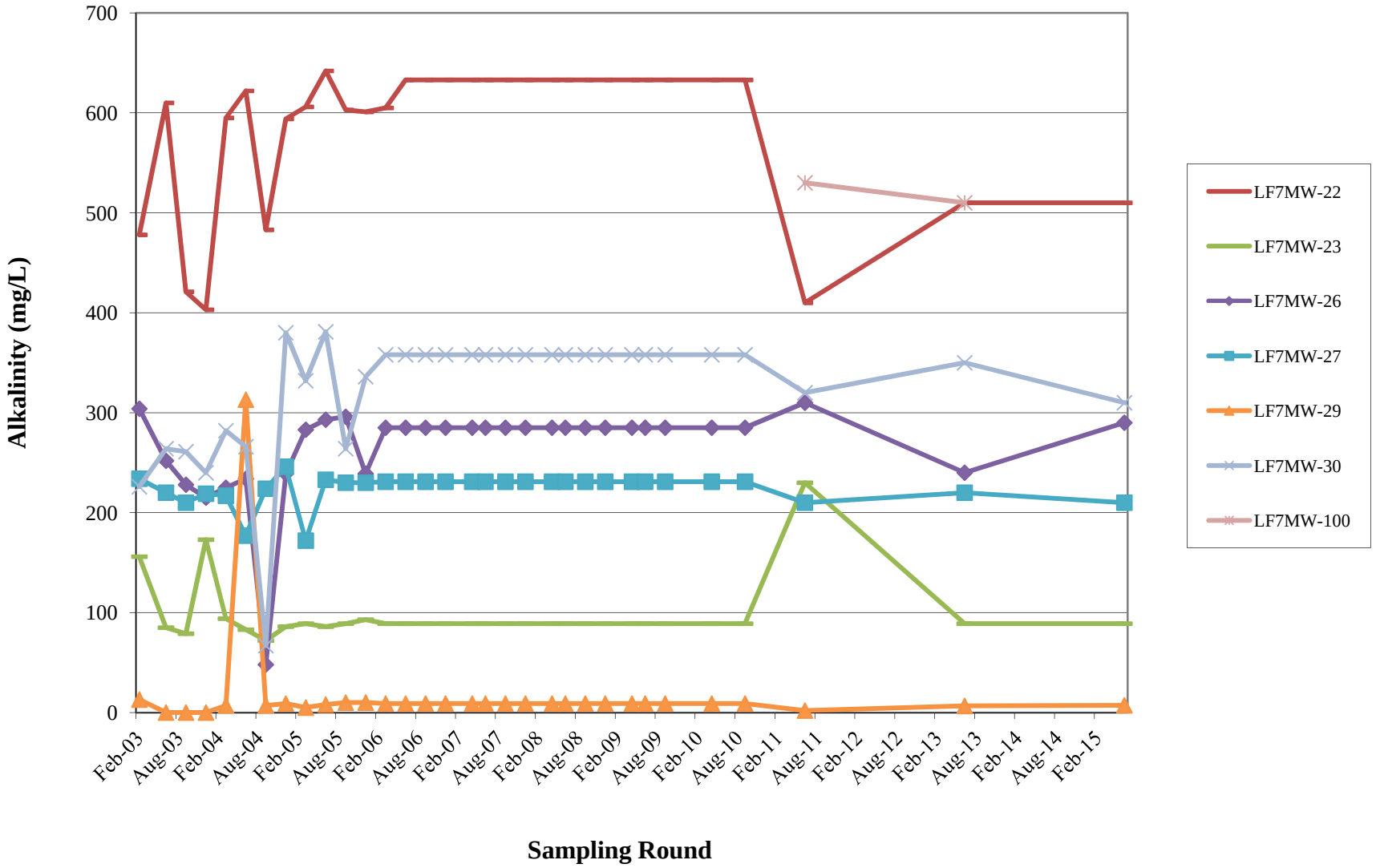

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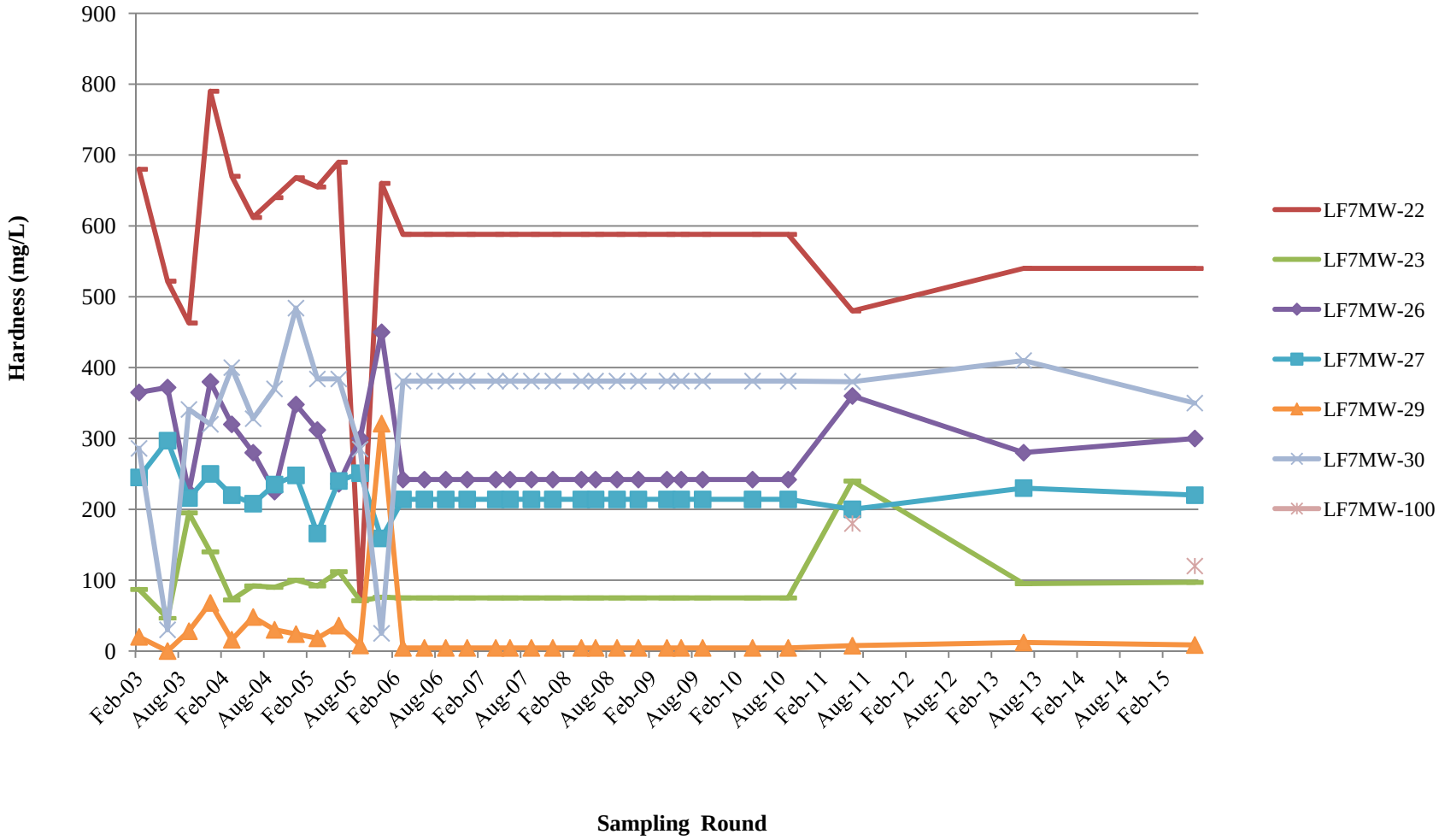

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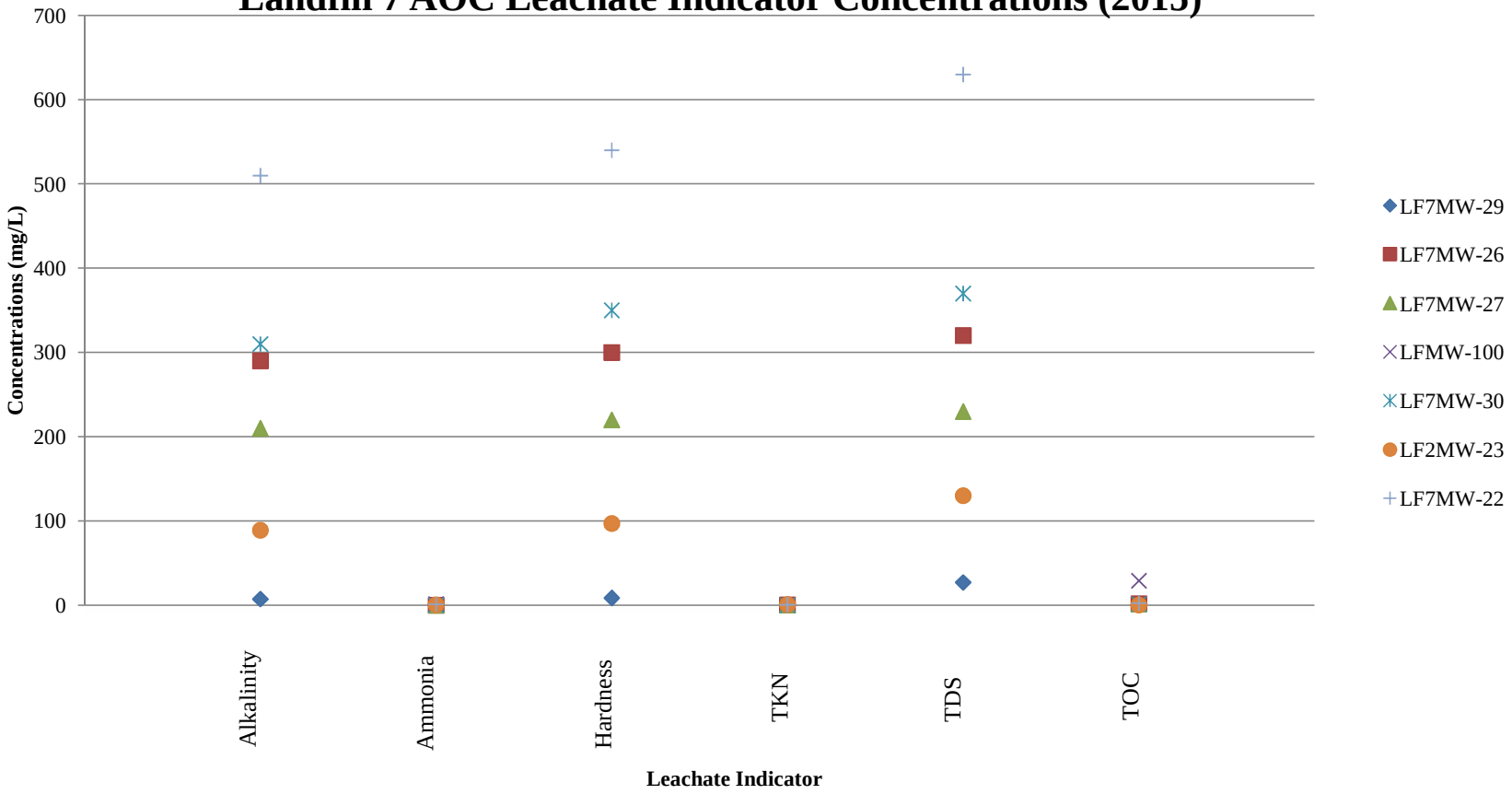

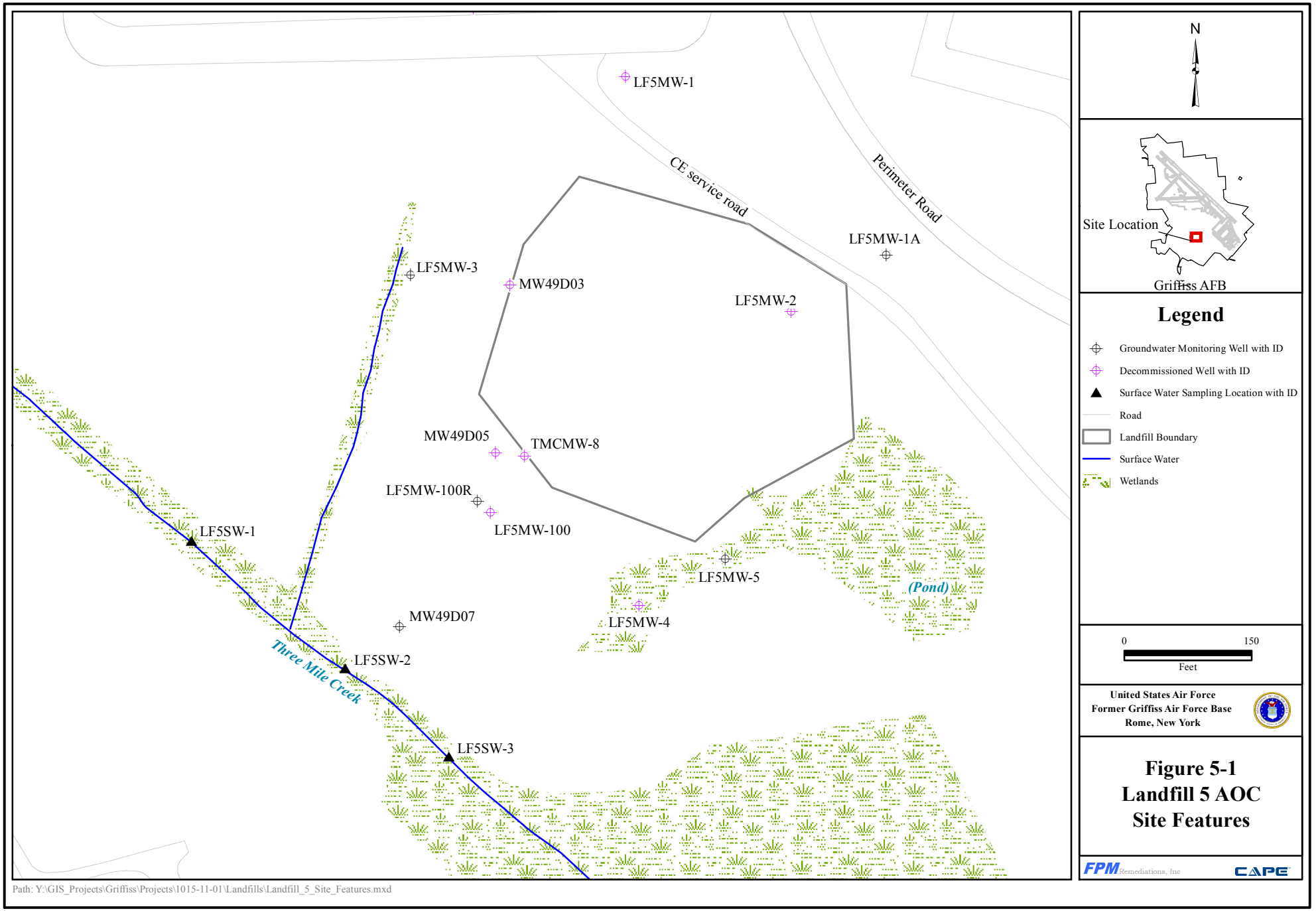


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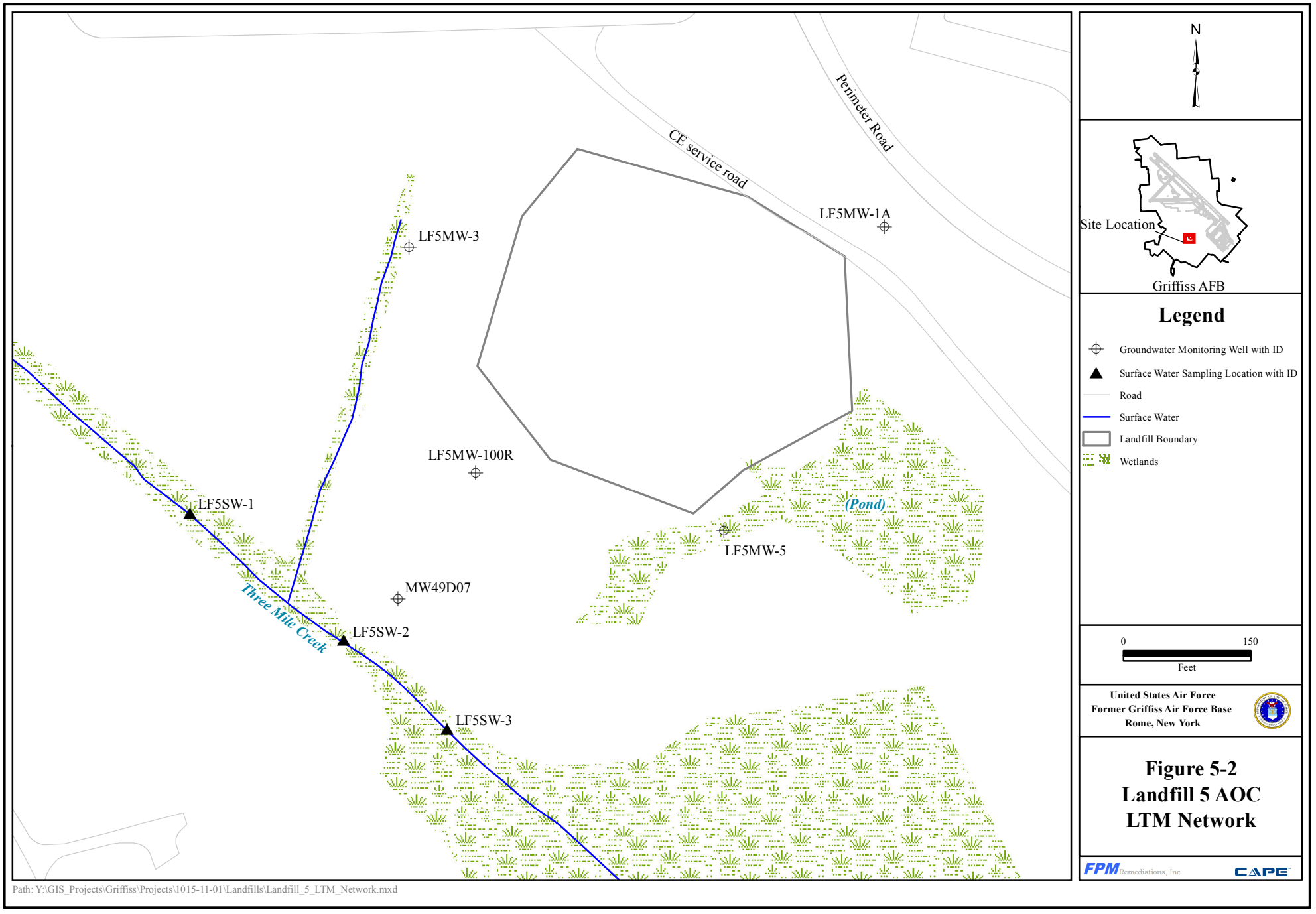
N
Perimeter Road
CE service road
LF5MW-1A
LF5MW-3
LF5MW-100R
LF5SW-1
(Pond)
LF5MW-5
MW49D07
Three Mile Creek
LF5SW-2
LF5SW-3
Site Location
Griffiss AFB
Legend
Groundwater Monitoring Well with ID
Surface Water Sampling Location with ID
Road
Surface Water
Landfill Boundary
Wetlands
0
150
Feet
United States Air Force
Former Griffiss Air Force Base
Rome, New York
Figure 5-2
Landfill 5 AOC
LTM Network
FPM Remediations, Inc
CAPE
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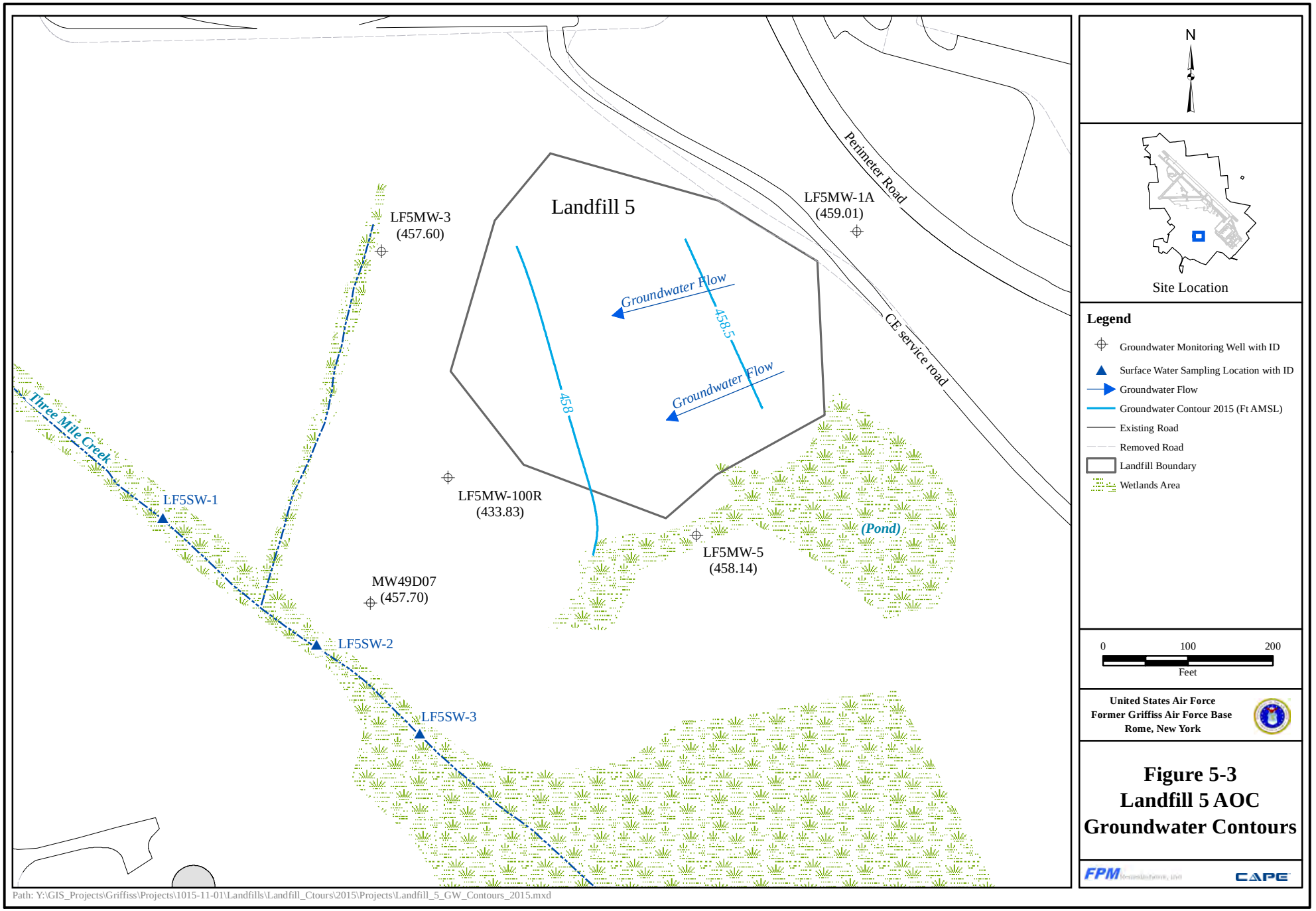


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**Figure 5-4**
**Landfill 5 AOC Alkalinity Concentration Trends**

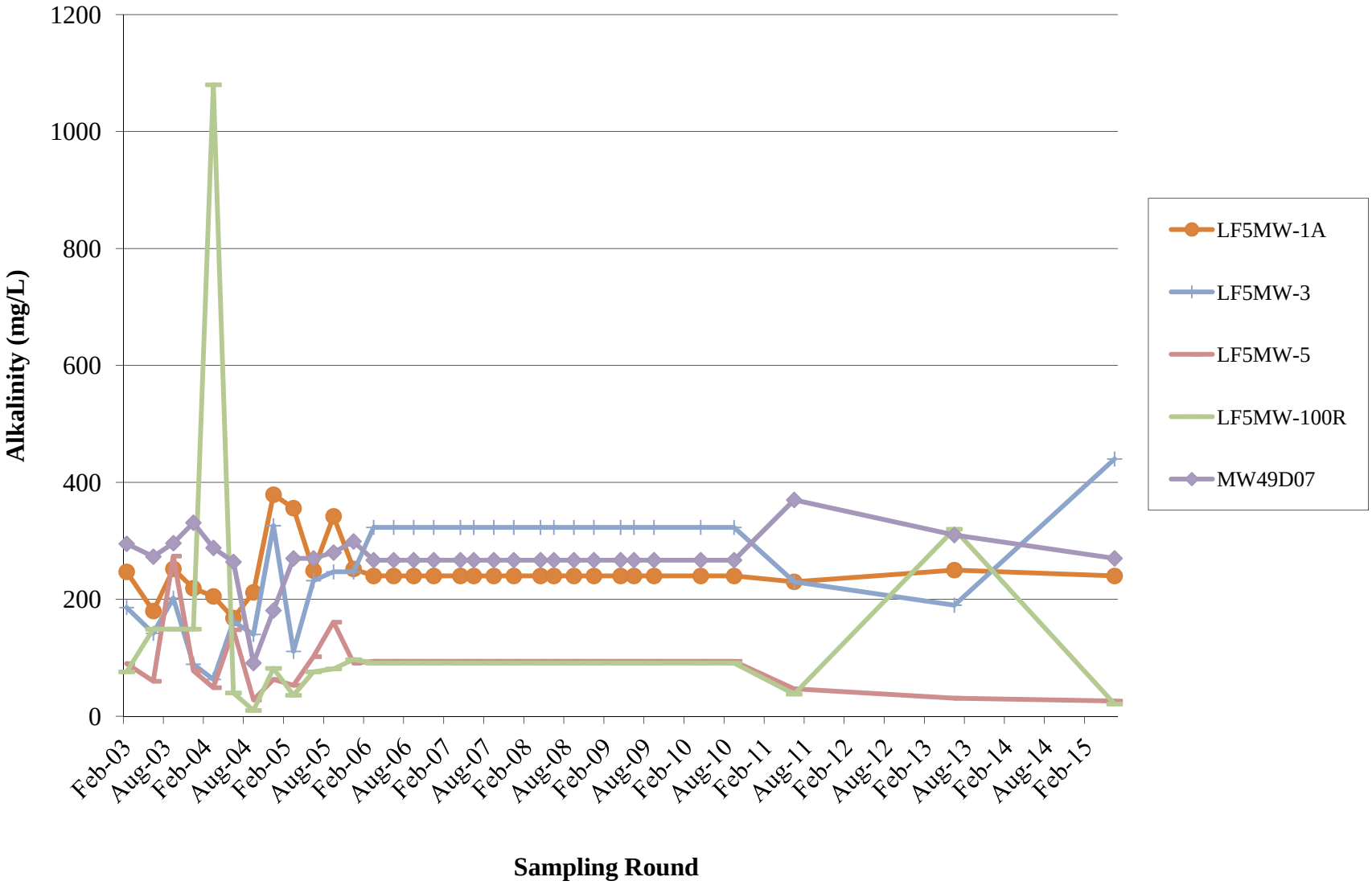


**Figure 5-5**
**Landfill 5 AOC Hardness Concentration Trends**

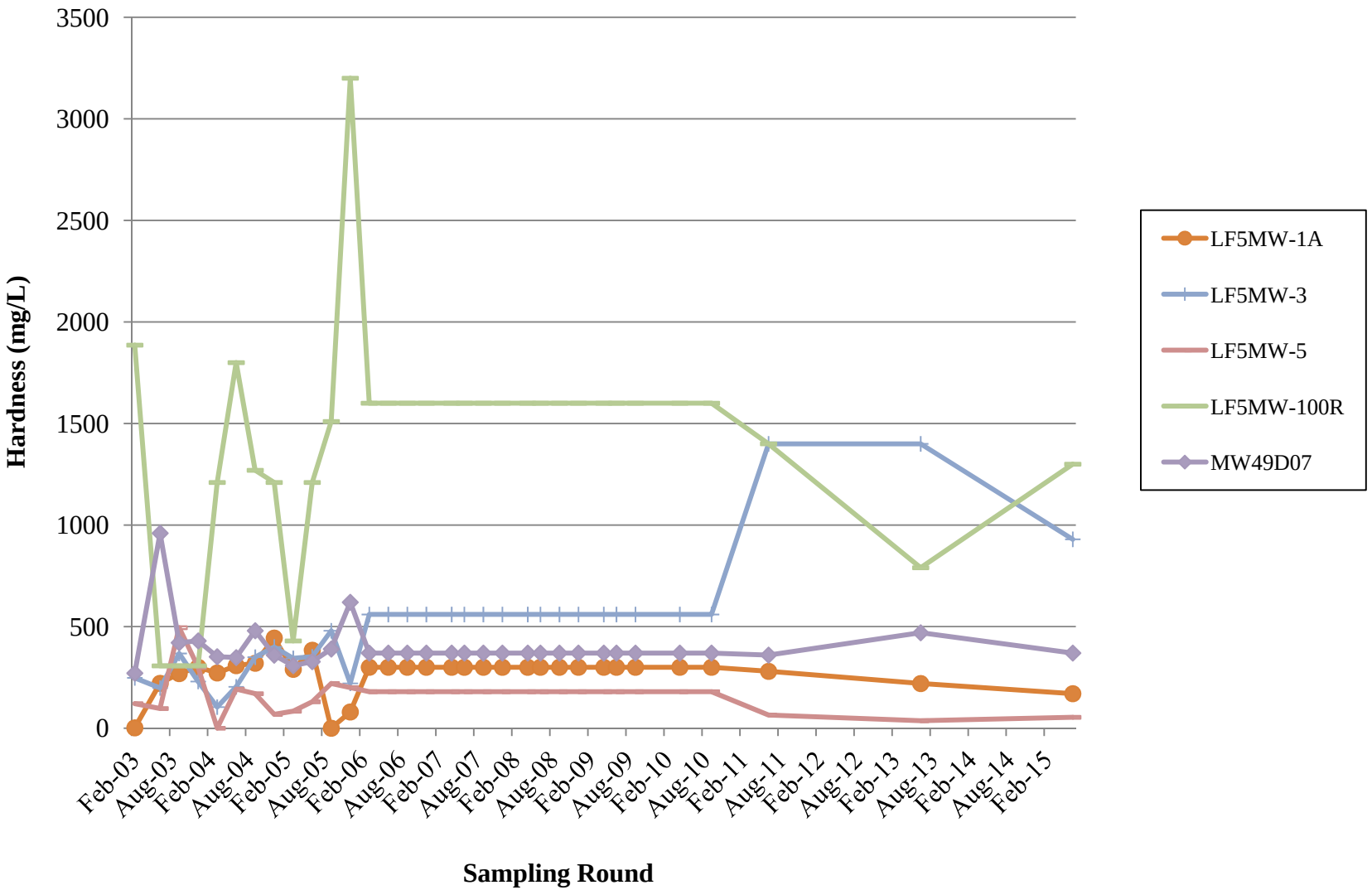
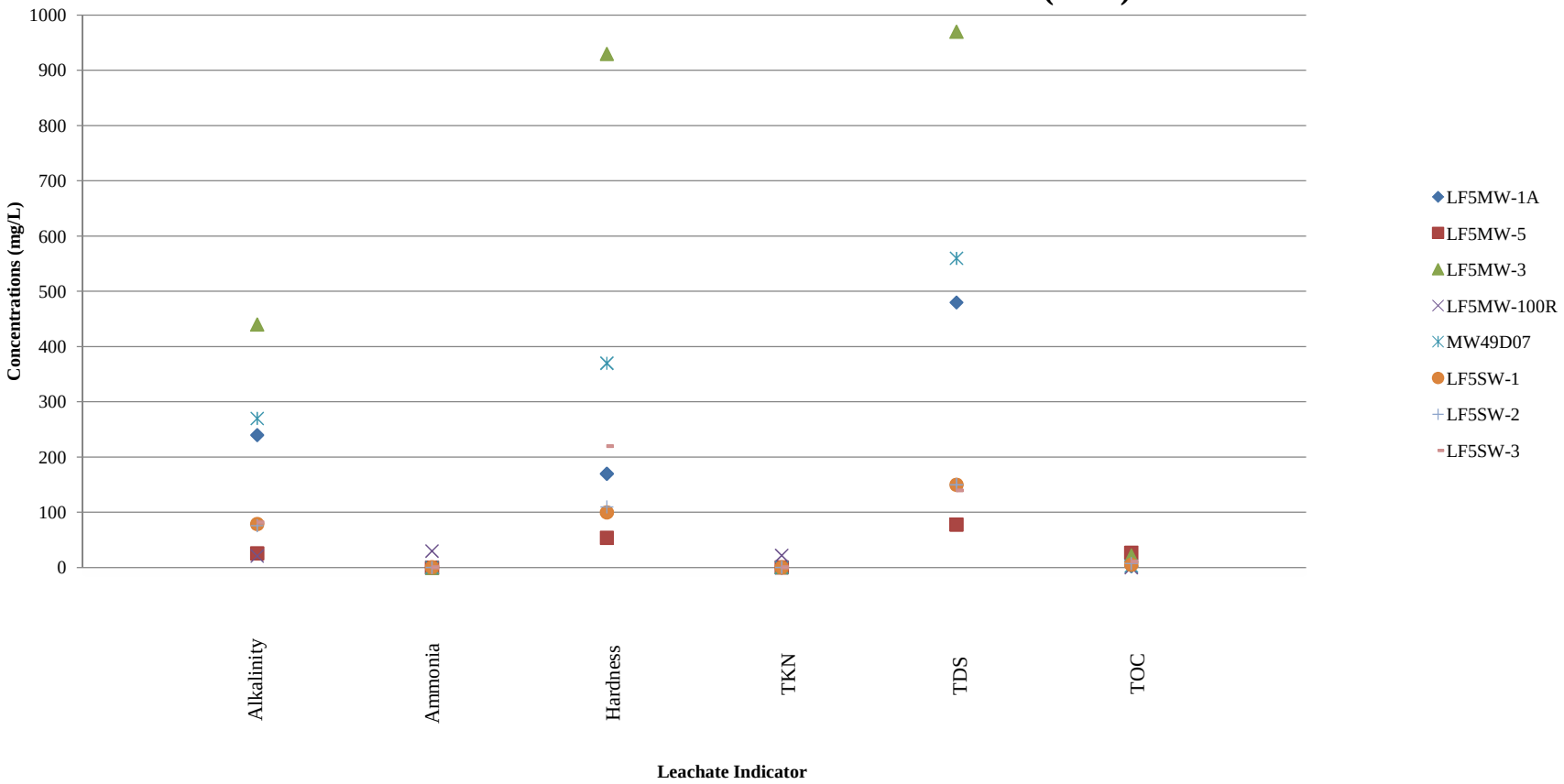
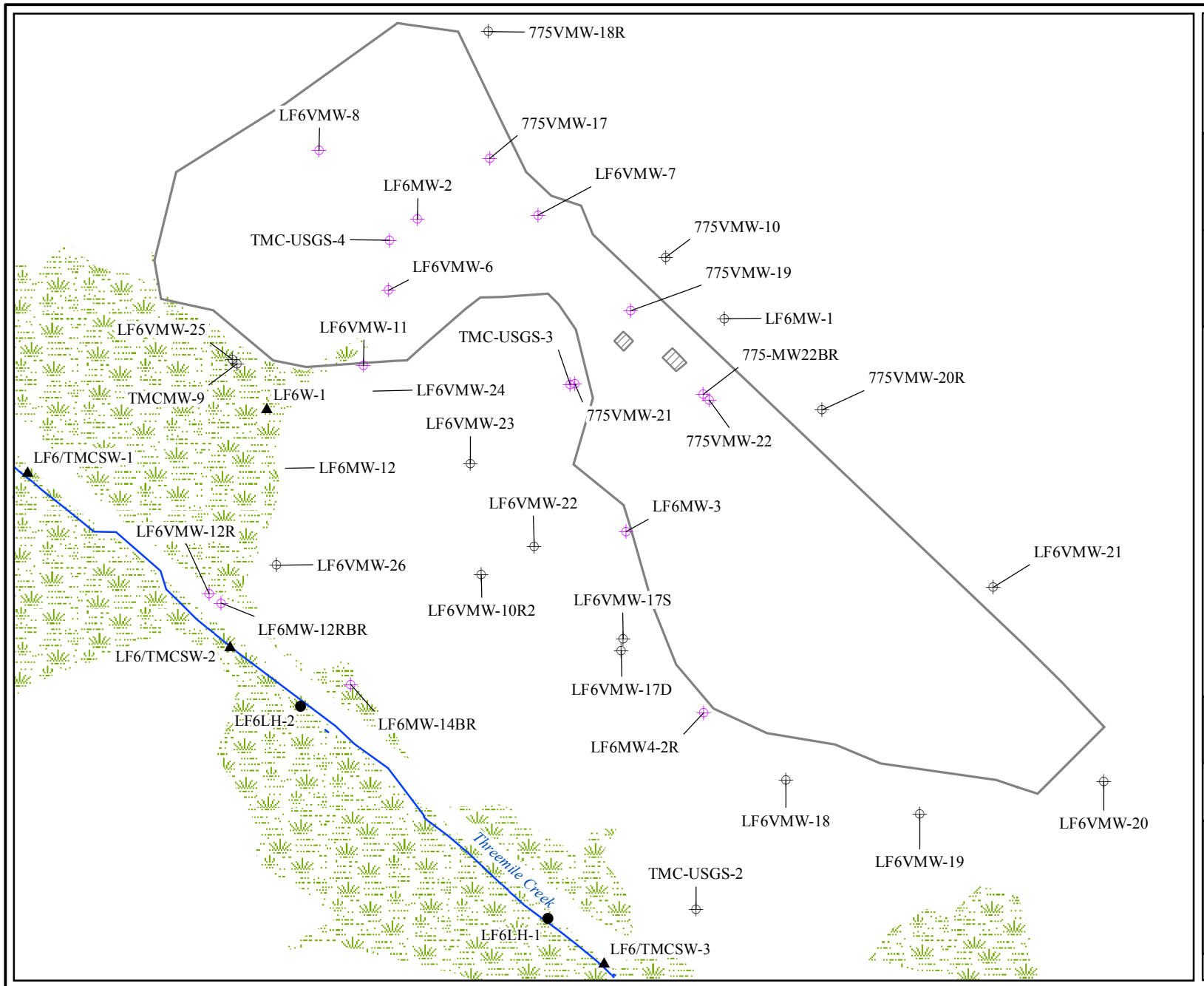
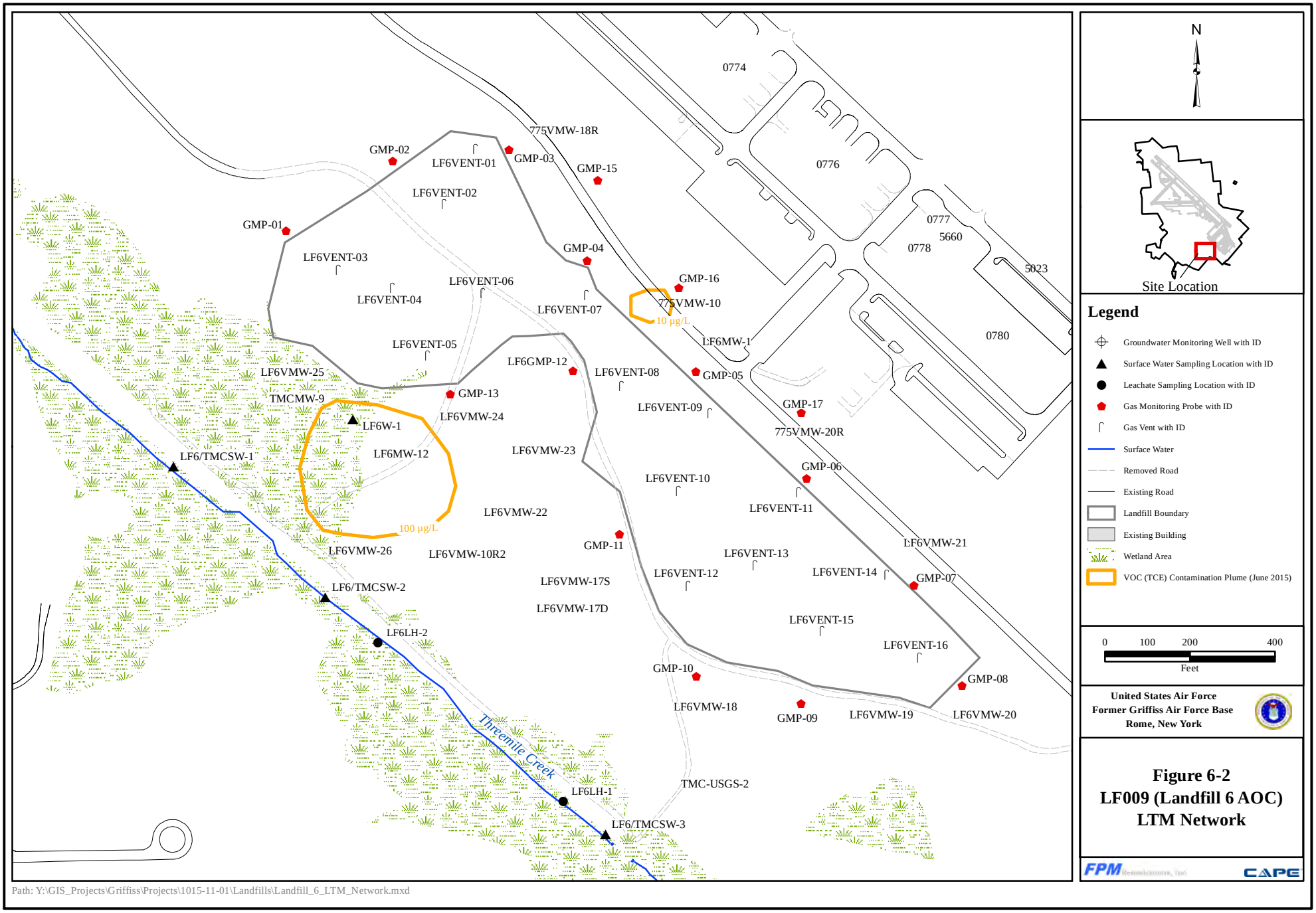


**Figure 5-6**
**Landfill 5 AOC Leachate Indicator Concentrations (2015)**

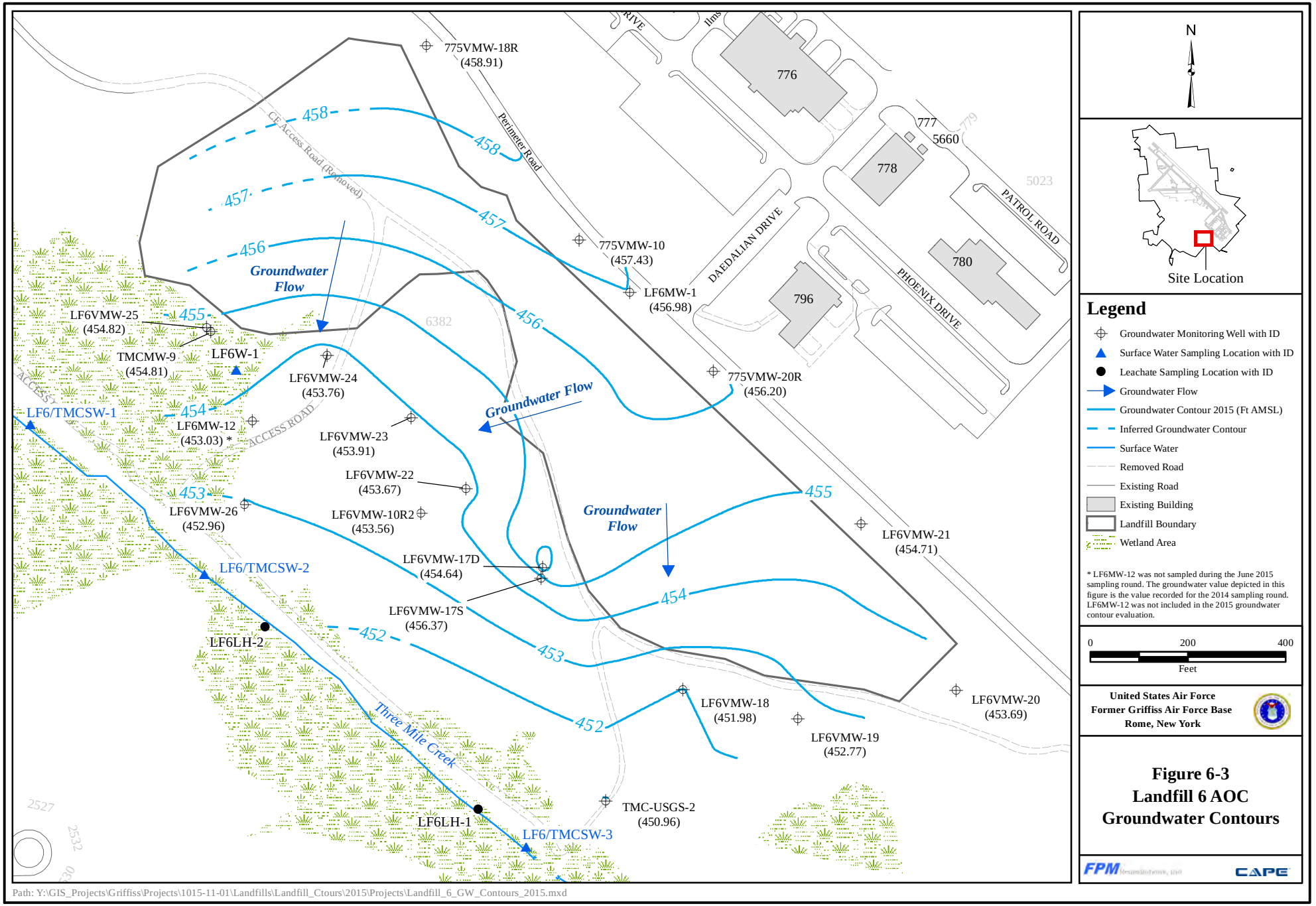





Path: Y:\GIS_Projects\Griffiss\Projects\1015-11-01\Landfills\Landfill_6_Site_Features.mxd




Path: Y:\GIS_Projects\Griffiss\Projects\1015-11-01\Landfills\Landfill_6_LTM_Network.mxd




N

Site Location

## Legend

- Groundwater Monitoring Well with ID
- Surface Water Sampling Location with ID
- Leachate Sampling Location with ID
- Groundwater Flow
- Groundwater Contour 2015 (Ft AMSL)
- Inferred Groundwater Contour
- Surface Water
- Removed Road
- Existing Road
- Existing Building
- Landfill Boundary
- Wetland Area

* LF6MW-12 was not sampled during the June 2015 sampling round. The groundwater value depicted in this figure is the value recorded for the 2014 sampling round. LF6MW-12 was not included in the 2015 groundwater contour evaluation.

0 200 400
Feet

**United States Air Force**
**Former Griffiss Air Force Base**
**Rome, New York**

# Figure 6-3
# Landfill 6 AOC
# Groundwater Contours

FPM Remediation, LLC
CAPE

Path: Y:\GIS_Projects\Griffiss\Projects\1015-11-01\Landfills\Landfill_Ctours\2015\Projects\Landfill_6_GW_Contours_2015.mxd

**Figure 6-4**
**LF009 (Landfill 6 AOC)**
**Total VOC Concentration Trends**

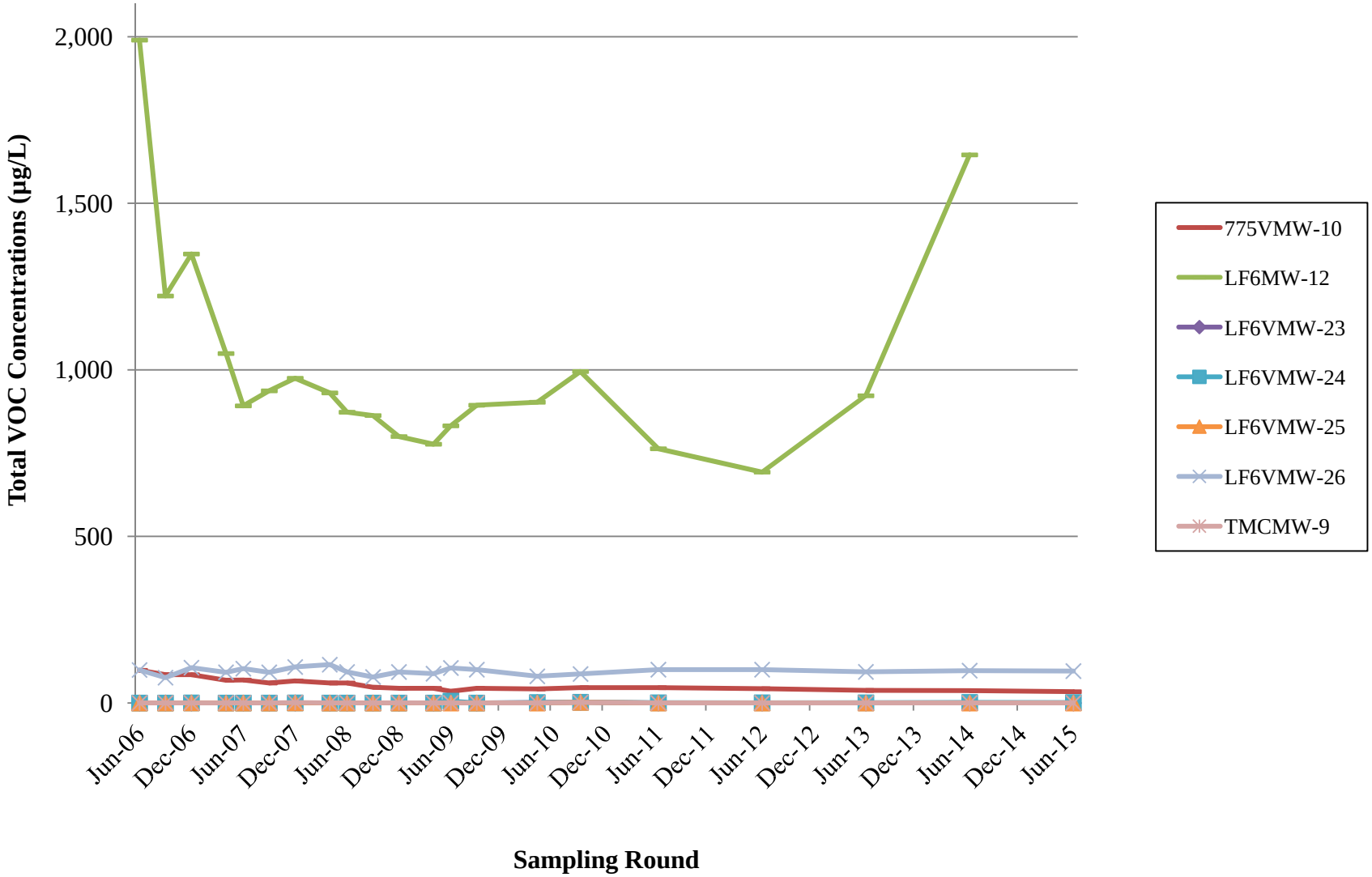


**Figure 6-5**
**LF009 (Landfill 6 AOC)**
**Alkalinity Concentration Trends**

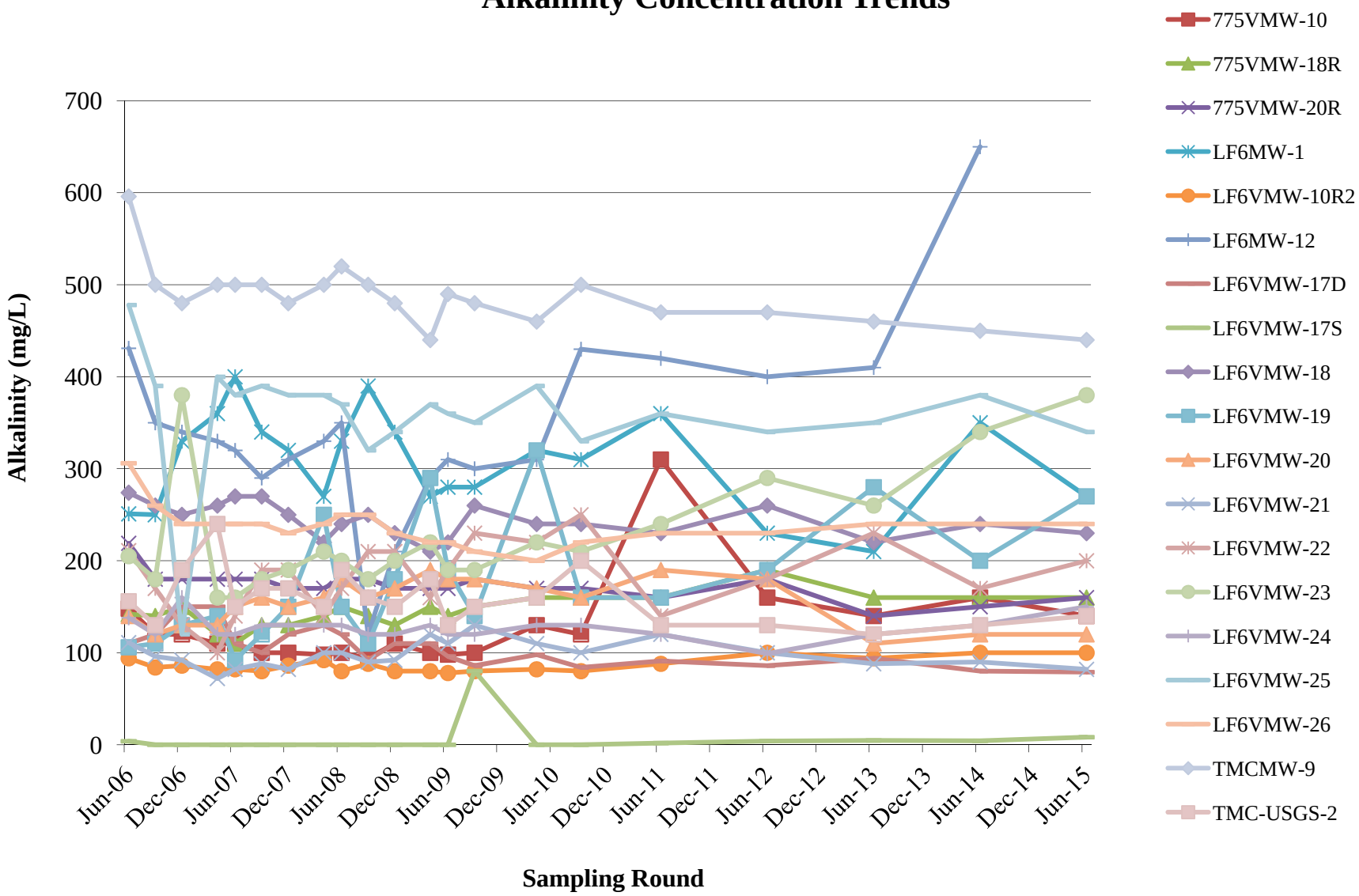


**Figure 6-6**
**LF009 (Landfill 6 AOC)**
**Hardness Concentration Trends**

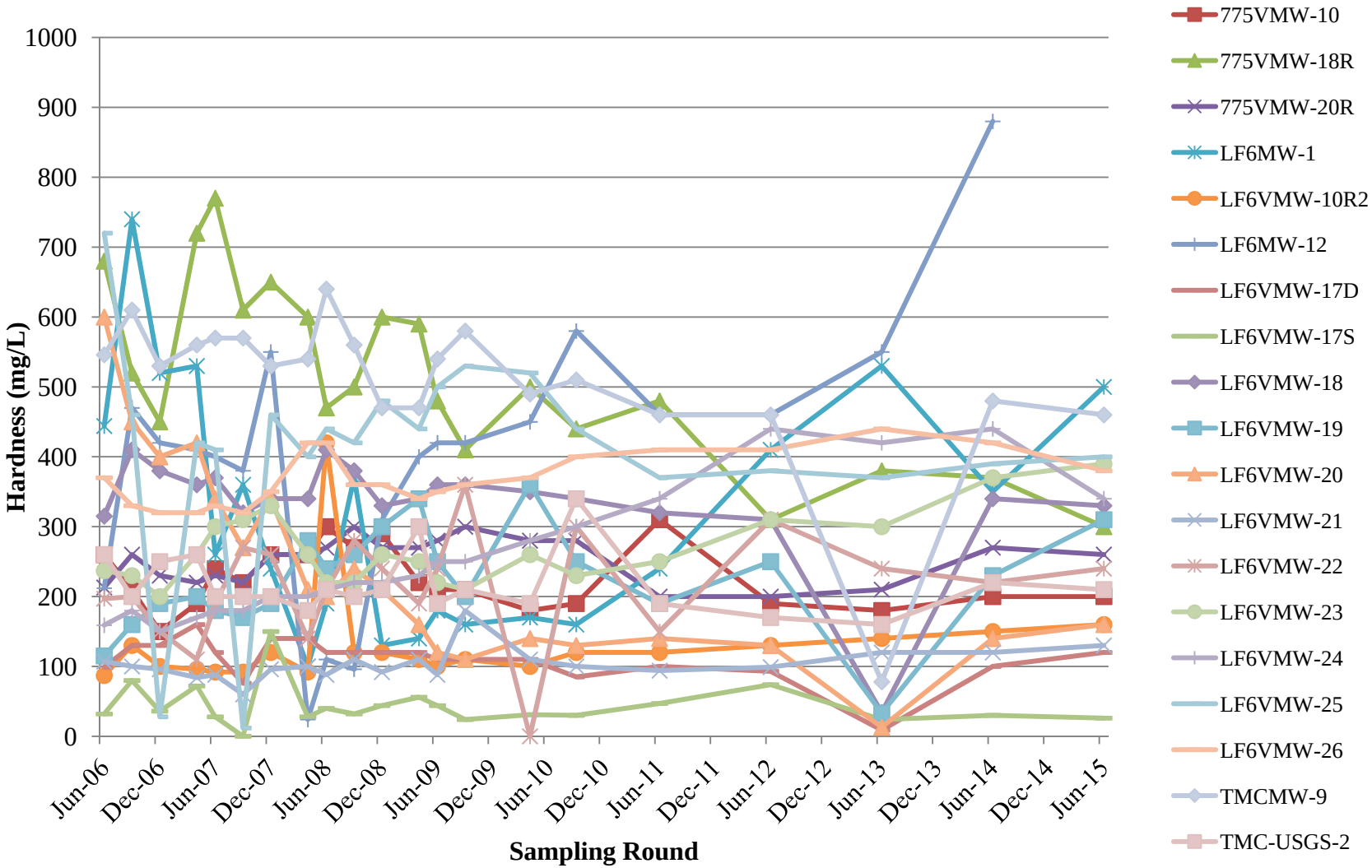
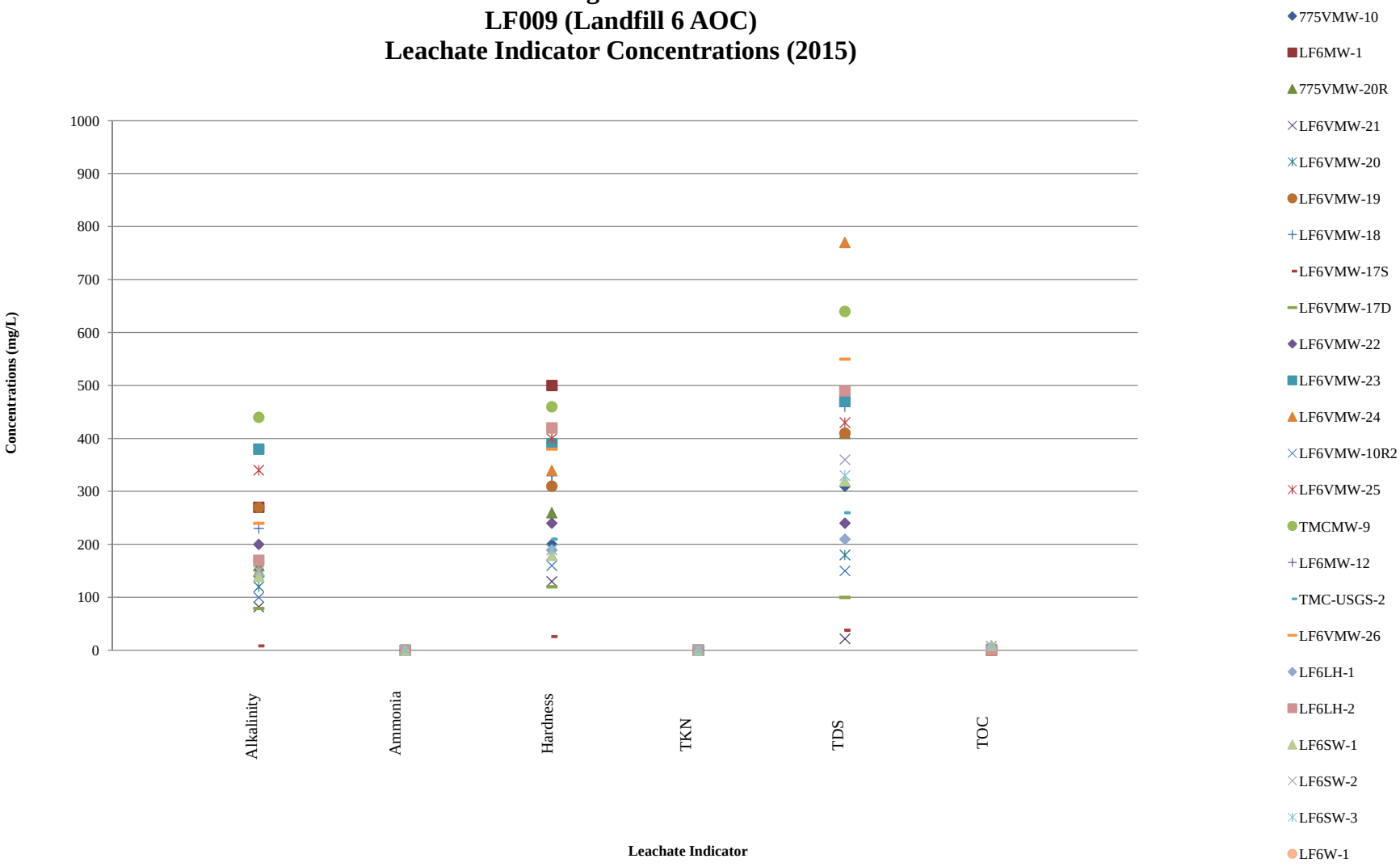


**Figure 6-7**
**LF009 (Landfill 6 AOC)**
**Leachate Indicator Concentrations (2015)**



# TABLES

**Table 2-1**
**LF001 (Landfill 1 AOC) Gas Monitoring Results**

| Sample Location | 27-Sep-04 | | | | 4-Oct-04 | | | | 5-Nov-04 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Barometric Pressure (in.) = 29.68 | | | | Barometric Pressure (in.) = 29.41 | | | | Barometric Pressure (in.) = 29.11 | | | |
| | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) |
| LF1GMP-01 | >100 | 58.3 | 2.3 | 32.5 | --- | --- | --- | --- | --- | --- | --- | --- |
| LF1GMP-02 | >100 | 48.5 | 0.0 | 35.3 | --- | --- | --- | --- | --- | --- | --- | --- |
| LF1GMP-03 | >100 | 64.5 | 0.0 | 35.3 | --- | --- | --- | --- | --- | --- | --- | --- |
| LF1GMP-04 | >100 | 63.8 | 0.0 | 36.4 | --- | --- | --- | --- | >100 | 56.6 | 0.5 | 42.7 |
| LF1GMP-06 | >100 | 76.4 | 0.0 | 10.6 | --- | --- | --- | --- | >100 | 74.8 | 0.2 | 7.7 |
| LF1GMP-08 | >100 | 15.3 | 0.5 | 18.8 | --- | --- | --- | --- | --- | --- | --- | --- |
| LF1GMP-09 | >100 | 53.3 | 0.1 | 29.0 | --- | --- | --- | --- | --- | --- | --- | --- |
| LF1GMP-10 | >100 | 35.4 | 1.9 | 30.2 | --- | --- | --- | --- | --- | --- | --- | --- |
| LF1GMP-11 | NI | NI | NI | NI | NI | NI | NI | NI | >100 | 40.6 | 2.4 | 33.5 |
| LF1GMP-12 | NI | NI | NI | NI | NI | NI | NI | NI | 0 | 0.0 | 19.4 | 2.6 |
| LF1GMP-13 | NI | NI | NI | NI | NI | NI | NI | NI | 0 | 0.0 | 17.9 | 0.5 |
| LF1GMP-14 | NI | NI | NI | NI | NI | NI | NI | NI | 0 | 0.0 | 19.0 | 1.1 |
| LF1GMP-15 | NI | NI | NI | NI | NI | NI | NI | NI | 0 | 0.0 | 19.9 | 0.9 |
| LF1GMP-16 | NI | NI | NI | NI | NI | NI | NI | NI | 0 | 0.0 | 18.5 | 2.6 |
| LF1GMP-17 | NI | NI | NI | NI | NI | NI | NI | NI | 0 | 0.0 | 18.3 | 1.9 |
| LF1GMP-18 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| LF1GMP-19 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| LF1GMP-20 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| LF1GV-01 | --- | --- | --- | --- | >100 | 7.2 | 19.2 | 4.4 | --- | --- | --- | --- |
| LF1GV-02 | --- | --- | --- | --- | >100 | 14.8 | 16.7 | 10.4 | --- | --- | --- | --- |
| LF1GV-03 | --- | --- | --- | --- | >100 | 19.0 | 4.6 | 13.8 | --- | --- | --- | --- |
| LF1GV-04 | --- | --- | --- | --- | >100 | 35.0 | 6.2 | 27.0 | --- | --- | --- | --- |
| LF1GV-05 | --- | --- | --- | --- | >100 | 17.6 | 15.8 | 12.7 | --- | --- | --- | --- |
| LF1GV-06 | --- | --- | --- | --- | >100 | 33.0 | 10.5 | 21.7 | --- | --- | --- | --- |
| LF1GV-07 | --- | --- | --- | --- | >100 | 11.5 | 18.2 | 7.6 | --- | --- | --- | --- |
| LF1GV-08 | --- | --- | --- | --- | >100 | 33.5 | 10.6 | 19.9 | --- | --- | --- | --- |
| LF1GV-09 | --- | --- | --- | --- | >100 | 6.9 | 19.2 | 3.9 | --- | --- | --- | --- |
| LF1GV-10 | --- | --- | --- | --- | >100 | 22.6 | 13.9 | 16.9 | --- | --- | --- | --- |
| LF1GV-11 | --- | --- | --- | --- | >100 | 8.9 | 19.1 | 4.5 | --- | --- | --- | --- |
| LF1GV-12 | --- | --- | --- | --- | >100 | 18.2 | 15.2 | 12.8 | --- | --- | --- | --- |
| LF1GV-13 | --- | --- | --- | --- | >100 | 55.4 | 0.6 | 42.1 | --- | --- | --- | --- |
| LF1GV-14 | --- | --- | --- | --- | >100 | 11.9 | 18.1 | 6.9 | --- | --- | --- | --- |
| LF1GV-15 | --- | --- | --- | --- | >100 | 11.5 | 18.2 | 6.1 | --- | --- | --- | --- |
| LF1GV-16 | --- | --- | --- | --- | >100 | 20.6 | 12.0 | 12.7 | --- | --- | --- | --- |
| LF1GV-17 | --- | --- | --- | --- | >100 | 12.0 | 18.8 | 5.0 | --- | --- | --- | --- |
| LF1GV-18 | --- | --- | --- | --- | >100 | 11.4 | 17.8 | 7.5 | --- | --- | --- | --- |
| LF1GV-19 | --- | --- | --- | --- | >100 | 8.7 | 18.5 | 4.7 | --- | --- | --- | --- |
| LF1GV-20 | --- | --- | --- | --- | >100 | 11.8 | 16.0 | 7.0 | --- | --- | --- | --- |
| LF1GV-21 | --- | --- | --- | --- | >100 | 34.5 | 15.1 | 9.1 | --- | --- | --- | --- |
| LF1GV-22 | --- | --- | --- | --- | >100 | 14.5 | 17.3 | 5.9 | --- | --- | --- | --- |
| LF1GV-23 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| LF1GV-24 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| LF1GV-25 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| LF1GV-26 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| LF1GV-27 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| LF1GV-28 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| LF1GV-29 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| LF1GV-30 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| LF1GV-31 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |

**Table 2-1**
**LF001 (Landfill 1 AOC) Gas Monitoring Results**

| Sample Location | 8-Nov-04 | | | | 11-Nov-04 | | | | 16-Nov-04 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Barometric Pressure (in.) = 29.60 | | | | Barometric Pressure (in.) = 29.79 | | | | Barometric Pressure (in.) = 29.83 | | | |
| | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) |
| LF1GMP-01 | --- | --- | --- | --- | >100 | 8.6 | 17.5 | 4.5 | --- | --- | --- | --- |
| LF1GMP-02 | --- | --- | --- | --- | >100 | 27.0 | 8.9 | 15.7 | --- | --- | --- | --- |
| LF1GMP-03 | --- | --- | --- | --- | >100 | 36.3 | 6.6 | 25.2 | --- | --- | --- | --- |
| LF1GMP-04 | >100 | 52.0 | 3.6 | 41.8 | >100 | 52.0 | 2.8 | 36.7 | --- | --- | --- | --- |
| LF1GMP-06 | >100 | 64.3 | 3.2 | 6.6 | >100 | 58.8 | 4.1 | 5.7 | --- | --- | --- | --- |
| LF1GMP-08 | --- | --- | --- | --- | 0 | 0.0 | 0.3 | 13.2 | --- | --- | --- | --- |
| LF1GMP-09 | --- | --- | --- | --- | >100 | 39.4 | 5.3 | 16.1 | --- | --- | --- | --- |
| LF1GMP-10 | --- | --- | --- | --- | >100 | 26.0 | 1.3 | 21.0 | --- | --- | --- | --- |
| LF1GMP-11 | >100 | 40.0 | 0.0 | 35.2 | >100 | 30.2 | 2.4 | 27.0 | --- | --- | --- | --- |
| LF1GMP-12 | 0 | 0.0 | 18.2 | 3.5 | 0 | 0.0 | 18.8 | 3.4 | --- | --- | --- | --- |
| LF1GMP-13 | 0 | 0.0 | 18.4 | 1.0 | --- | --- | --- | --- | --- | --- | --- | --- |
| LF1GMP-14 | 0 | 0.0 | 18.6 | 0.9 | --- | --- | --- | --- | --- | --- | --- | --- |
| LF1GMP-15 | 0 | 0.0 | 19.1 | 0.9 | --- | --- | --- | --- | --- | --- | --- | --- |
| LF1GMP-16 | 0 | 0.0 | 17.1 | 3.3 | --- | --- | --- | --- | --- | --- | --- | --- |
| LF1GMP-17 | 0 | 0.0 | 18.3 | 1.9 | --- | --- | --- | --- | --- | --- | --- | --- |
| LF1GMP-18 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| LF1GMP-19 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| LF1GMP-20 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| LF1GV-01 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| LF1GV-02 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| LF1GV-03 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| LF1GV-04 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| LF1GV-05 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| LF1GV-06 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| LF1GV-07 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| LF1GV-08 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| LF1GV-09 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| LF1GV-10 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| LF1GV-11 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| LF1GV-12 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| LF1GV-13 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| LF1GV-14 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| LF1GV-15 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| LF1GV-16 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| LF1GV-17 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| LF1GV-18 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| LF1GV-19 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| LF1GV-20 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| LF1GV-21 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| LF1GV-22 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| LF1GV-23 | NI | NI | NI | NI | NI | NI | NI | NI | >100 | 38.6 | 12.5 | 14.2 |
| LF1GV-24 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| LF1GV-25 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| LF1GV-26 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| LF1GV-27 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| LF1GV-28 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| LF1GV-29 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| LF1GV-30 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| LF1GV-31 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |

**Table 2-1**
**LF001 (Landfill 1 AOC) Gas Monitoring Results**

| Sample Location | 16-Dec-04 | | | | 17-Jan-05 | | | | 17-Feb-05 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Barometric Pressure (in.) = 29.73 | | | | Barometric Pressure (in.) = 29.77 | | | | Barometric Pressure (in.) = 29.34 | | | |
| | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) |
| LF1GMP-01 | >100 | 98.4 | 1.6 | 0.0 | >100 | 98.8 | 0.4 | 0.8 | >100 | 99.8 | 0.2 | 0.0 |
| LF1GMP-02 | >100 | 52.1 | 0.0 | 25.2 | >100 | 46.6 | 0.2 | 21.4 | >100 | 40.2 | 0.2 | 22.4 |
| LF1GMP-03 | >100 | 54.1 | 0.0 | 37.1 | >100 | 40.8 | 0.4 | 30.8 | >100 | 30.2 | 0.2 | 31.0 |
| LF1GMP-04 | >100 | 34.2 | 4.7 | 21.5 | >100 | 61.4 | 0.4 | 38.0 | >100 | 60.4 | 0.5 | 39.1 |
| LF1GMP-06 | >100 | 77.6 | 0.0 | 3.9 | >100 | 62.8 | 0.8 | 2.6 | >100 | 69.0 | 0.5 | 2.7 |
| LF1GMP-08 | 10 | 0.5 | 20.9 | 0.0 | 0 | 0.0 | 5.5 | 11.0 | 0 | 0.0 | 6.7 | 9.8 |
| LF1GMP-09 | >100 | 41.4 | 0.2 | 19.2 | >100 | 38.6 | 1.7 | 14.9 | >100 | 47.2 | 0.0 | 18.2 |
| LF1GMP-10 | >100 | 33.9 | 0.0 | 29.3 | >100 | 26.4 | 0.2 | 21.8 | >100 | 24.0 | 0.1 | 24.1 |
| LF1GMP-11 | >100 | 18.1 | 0.0 | 19.6 | >100 | 8.8 | 0.3 | 17.2 | >100 | 7.9 | 0.1 | 18.8 |
| LF1GMP-12 | 4 | 0.2 | 18.7 | 2.5 | 0 | 0.0 | 19.3 | 1.7 | 0 | 0.0 | 19.0 | 1.8 |
| LF1GMP-13 | 10 | 0.5 | 15.8 | 0.3 | 0 | 0.0 | 16.2 | 1.0 | 0 | 0.0 | 16.4 | 1.2 |
| LF1GMP-14 | 4 | 0.2 | 17.3 | 0.4 | 0 | 0.0 | 18.1 | 0.2 | 0 | 0.0 | 18.6 | 0.2 |
| LF1GMP-15 | 4 | 0.2 | 19.1 | 0.8 | 0 | 0.0 | 19.3 | 0.3 | 0 | 0.0 | 20.1 | 0.2 |
| LF1GMP-16 | 0 | 0.0 | 17.6 | 2.6 | 0 | 0.0 | 17.6 | 2.2 | 0 | 0.0 | 17.7 | 2.3 |
| LF1GMP-17 | 0 | 0.0 | 18.3 | 1.7 | 0 | 0.0 | 18.3 | 1.4 | 0 | 0.0 | 18.6 | 1.4 |
| LF1GMP-18 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| LF1GMP-19 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| LF1GMP-20 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| LF1GV-01 | >100 | 14.4 | 0.1 | 17.3 | >100 | 9.4 | 12.7 | 9.0 | 62 | 3.1 | 14.4 | 6.5 |
| LF1GV-02 | >100 | 13.8 | 1.0 | 20.2 | >100 | 9.0 | 10.5 | 12.0 | 56 | 2.8 | 10.3 | 9.2 |
| LF1GV-03 | 50 | 2.5 | 3.6 | 11.3 | 10 | 0.5 | 18.6 | 1.6 | 2 | 0.1 | 15.8 | 3.3 |
| LF1GV-04 | >100 | 11.5 | 1.9 | 18.5 | 62 | 3.1 | 15.9 | 5.5 | 4 | 0.2 | 15.5 | 4.0 |
| LF1GV-05 | >100 | 20.4 | 0.0 | 23.0 | >100 | 13.5 | 10.4 | 12.7 | 88 | 4.4 | 11.0 | 8.6 |
| LF1GV-06 | >100 | 16.8 | 0.0 | 23.3 | >100 | 21.1 | 1.5 | 20.7 | 16 | 0.8 | 6.1 | 12.4 |
| LF1GV-07 | >100 | 19.0 | 0.1 | 24.4 | >100 | 20.3 | 5.6 | 18.9 | >100 | 9.9 | 10.9 | 12.9 |
| LF1GV-08 | >100 | 26.7 | 0.1 | 23.1 | >100 | 21.2 | 3.5 | 18.6 | 64 | 3.2 | 5.8 | 12.7 |
| LF1GV-09 | >100 | 6.4 | 1.9 | 14.6 | >100 | 20.1 | 4.2 | 14.9 | 64 | 3.2 | 14.9 | 5.8 |
| LF1GV-10 | >100 | 17.1 | 1.3 | 22.8 | >100 | 16.5 | 5.6 | 18.6 | 48 | 2.4 | 10.7 | 9.3 |
| LF1GV-11 | >100 | 17.0 | 0.7 | 16.1 | >100 | 14.6 | 10.3 | 10.7 | 46 | 2.3 | 16.6 | 3.3 |
| LF1GV-12 | >100 | 12.7 | 1.2 | 20.2 | >100 | 18.4 | 2.6 | 18.3 | 12 | 0.6 | 12.1 | 6.6 |
| LF1GV-13 | >100 | 21.9 | 1.2 | 27.5 | >100 | 16.9 | 1.4 | 20.4 | >100 | 10.3 | 1.1 | 20.1 |
| LF1GV-14 | >100 | 27.4 | 1.1 | 19.3 | >100 | 26.6 | 4.9 | 15.0 | >100 | 11.3 | 12.1 | 8.4 |
| LF1GV-15 | >100 | 7.1 | 0.8 | 14.3 | >100 | 9.5 | 6.4 | 10.9 | 24 | 1.2 | 13.9 | 5.2 |
| LF1GV-16 | 68 | 3.4 | 5.2 | 8.2 | 80 | 4.0 | 8.9 | 7.1 | 0 | 0.0 | 16.6 | 3.0 |
| LF1GV-17 | >100 | 14.9 | 5.2 | 14.2 | >100 | 25.1 | 6.1 | 12.5 | >100 | 19.1 | 9.9 | 12.1 |
| LF1GV-18 | >100 | 29.0 | 0.8 | 22.6 | >100 | 27.2 | 4.4 | 15.7 | >100 | 16.1 | 7.4 | 12.9 |
| LF1GV-19 | >100 | 9.1 | 0.2 | 16.3 | >100 | 12.6 | 6.1 | 12.5 | 46 | 2.3 | 11.4 | 7.9 |
| LF1GV-20 | >100 | 14.8 | 1.8 | 15.9 | >100 | 12.5 | 5.5 | 11.7 | 72 | 3.6 | 13.8 | 4.6 |
| LF1GV-21 | >100 | 34.2 | 0.8 | 18.0 | >100 | 37.6 | 1.9 | 14.0 | >100 | 26.9 | 2.6 | 13.2 |
| LF1GV-22 | >100 | 23.6 | 1.1 | 19.4 | >100 | 24.8 | 2.5 | 16.1 | >100 | 16.2 | 6.2 | 14.1 |
| LF1GV-23 | 16 | 0.8 | 15.9 | 2.1 | 2 | 0.1 | 20.2 | 0.4 | 2 | 0.1 | 17.8 | 1.6 |
| LF1GV-24 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| LF1GV-25 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| LF1GV-26 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| LF1GV-27 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| LF1GV-28 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| LF1GV-29 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| LF1GV-30 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| LF1GV-31 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |

**Table 2-1**
**LF001 (Landfill 1 AOC) Gas Monitoring Results**

| Sample Location | 24-Mar-05 | | | | 28-Apr-05 | | | | 26-May-05 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Barometric Pressure (in.) = 30.00 | | | | Barometric Pressure (in.) = 29.28 | | | | Barometric Pressure (in.) = 29.23 | | | |
| | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) |
| LF1GMP-01 | 0 | 0.0 | 21.0 | 0.0 | >100 | 52.1 | 4.2 | 26.8 | >100 | 67.5 | 0.6 | 26.5 |
| LF1GMP-02 | >100 | 32.5 | 0.8 | 21.5 | >100 | 24.8 | 6.2 | 17.7 | >100 | 33.5 | 1.0 | 21.0 |
| LF1GMP-03 | >100 | 25.1 | 0.6 | 30.1 | >100 | 27.2 | 0.5 | 30.3 | >100 | 30.8 | 0.4 | 30.1 |
| LF1GMP-04 | >100 | 59.5 | 0.4 | 40.1 | >100 | 57.5 | 0.5 | 36.7 | >100 | 54.5 | 0.9 | 35.6 |
| LF1GMP-06 | >100 | 62.5 | 0.5 | 2.2 | >100 | 65.5 | 0.8 | 2.5 | >100 | 64.5 | 0.7 | 3.5 |
| LF1GMP-08 | 0 | 0.0 | 11.6 | 6.6 | 0 | 0.0 | 4.7 | 11.4 | 0 | 0.0 | 11.2 | 7.5 |
| LF1GMP-09 | >100 | 44.3 | 0.8 | 17.0 | >100 | 32.3 | 2.2 | 17.5 | >100 | 38.9 | 0.8 | 19.2 |
| LF1GMP-10 | >100 | 18.4 | 0.2 | 22.4 | >100 | 16.6 | 2.1 | 23.2 | >100 | 17.3 | 1.6 | 24.3 |
| LF1GMP-11 | >100 | 5.9 | 1.0 | 19.0 | >100 | 9.0 | 0.7 | 19.1 | >100 | 6.6 | 0.7 | 20.1 |
| LF1GMP-12 | 0 | 0.0 | 18.4 | 2.2 | 0 | 0.0 | 19.4 | 1.5 | 0 | 0.0 | 19.6 | 1.6 |
| LF1GMP-13 | 0 | 0.0 | 15.7 | 1.5 | 0 | 0.0 | 16.6 | 1.9 | 0 | 0.0 | 18.9 | 1.5 |
| LF1GMP-14 | 0 | 0.0 | 18.4 | 0.3 | 2 | 0.1 | 19.1 | 0.5 | 0 | 0.0 | 20.2 | 0.5 |
| LF1GMP-15 | 0 | 0.0 | 20.0 | 0.0 | 2 | 0.1 | 19.5 | 0.4 | 2 | 0.1 | 19.8 | 0.4 |
| LF1GMP-16 | 0 | 0.0 | 17.3 | 2.4 | 0 | 0.0 | 17.8 | 2.9 | 0 | 0.0 | 18.2 | 2.7 |
| LF1GMP-17 | 0 | 0.0 | 18.7 | 1.3 | 0 | 0.0 | 18.7 | 1.5 | 0 | 0.0 | 18.4 | 1.8 |
| LF1GMP-18 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| LF1GMP-19 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| LF1GMP-20 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| LF1GV-01 | 12 | 0.6 | 20.2 | 0.9 | >100 | 6.6 | 14.2 | 9.9 | >100 | 17.9 | 12.1 | 14.4 |
| LF1GV-02 | 10 | 0.5 | 19.9 | 1.0 | 46 | 2.3 | 15.2 | 7.1 | >100 | 24.1 | 9.6 | 17.4 |
| LF1GV-03 | 0 | 0.0 | 21.0 | 0.0 | 2 | 0.1 | 21.0 | 0.0 | >100 | 36.1 | 0.3 | 30.4 |
| LF1GV-04 | 0 | 0.0 | 21.0 | 0.0 | 4 | 0.2 | 21.0 | 0.0 | >100 | 26.6 | 5.1 | 23.6 |
| LF1GV-05 | 4 | 0.2 | 20.8 | 0.3 | >100 | 5.3 | 16.0 | 7.6 | >100 | 28.2 | 6.2 | 23.9 |
| LF1GV-06 | 0 | 0.0 | 21.2 | 0.0 | 16 | 0.8 | 13.5 | 7.2 | >100 | 35.4 | 0.8 | 30.4 |
| LF1GV-07 | 4 | 0.2 | 21.0 | 0.2 | >100 | 5.0 | 16.9 | 7.1 | >100 | 26.1 | 8.4 | 21.6 |
| LF1GV-08 | 0 | 0.0 | 21.0 | 0.0 | 20 | 1.5 | 15.0 | 5.2 | >100 | 37.0 | 1.8 | 26.4 |
| LF1GV-09 | 0 | 0.0 | 21.1 | 0.0 | >100 | 7.1 | 11.9 | 9.8 | >100 | 35.2 | 4.2 | 23.9 |
| LF1GV-10 | 0 | 0.0 | 21.1 | 0.0 | 0 | 0.0 | 20.4 | 0.9 | >100 | 5.3 | 17.5 | 4.5 |
| LF1GV-11 | 0 | 0.0 | 21.2 | 0.0 | 48 | 2.4 | 18.3 | 3.1 | >100 | 5.8 | 17.9 | 3.6 |
| LF1GV-12 | 0 | 0.0 | 21.2 | 0.0 | 6 | 0.3 | 17.3 | 3.6 | >100 | 32.1 | 1.7 | 30.3 |
| LF1GV-13 | 0 | 0.0 | 21.1 | 0.0 | 14 | 0.7 | 17.3 | 3.5 | >100 | 25.9 | 2.7 | 23.5 |
| LF1GV-14 | 0 | 0.0 | 21.3 | 0.0 | 14 | 0.7 | 20.1 | 0.6 | >100 | 31.2 | 6.2 | 19.8 |
| LF1GV-15 | 0 | 0.0 | 20.9 | 0.0 | 54 | 2.7 | 9.6 | 9.6 | >100 | 17.4 | 5.8 | 17.5 |
| LF1GV-16 | 0 | 0.0 | 19.5 | 0.9 | 0 | 0.0 | 20.9 | 0.0 | 50 | 2.5 | 2.7 | 14.6 |
| LF1GV-17 | 80 | 4.0 | 18.8 | 2.2 | 46 | 2.3 | 19.5 | 1.4 | >100 | 26.6 | 9.6 | 15.5 |
| LF1GV-18 | 18 | 0.9 | 19.9 | 1.0 | 14 | 0.7 | 20.1 | 0.7 | >100 | 22.1 | 9.7 | 15.4 |
| LF1GV-19 | 4 | 0.2 | 18.9 | 1.5 | 0 | 0.0 | 21.0 | 0.0 | >100 | 17.4 | 1.7 | 20.3 |
| LF1GV-20 | 0 | 0.0 | 20.8 | 0.2 | 8 | 0.4 | 20.1 | 0.7 | >100 | 8.2 | 13.5 | 7.1 |
| LF1GV-21 | 46 | 2.3 | 19.7 | 0.9 | 70 | 3.5 | 19.0 | 1.7 | >100 | 43.1 | 3.6 | 18.4 |
| LF1GV-22 | >100 | 5.1 | 18.2 | 3.0 | 36 | 1.8 | 19.5 | 1.3 | >100 | 34.5 | 5.2 | 20.8 |
| LF1GV-23 | 0 | 0.0 | 21.1 | 0.0 | 0 | 0.0 | 20.0 | 0.6 | 48 | 2.4 | 15.3 | 6.1 |
| LF1GV-24 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| LF1GV-25 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| LF1GV-26 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| LF1GV-27 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| LF1GV-28 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| LF1GV-29 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| LF1GV-30 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| LF1GV-31 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |

**Table 2-1**
**LF001 (Landfill 1 AOC) Gas Monitoring Results**

| Sample Location | 23-Jun-05 | | | | 2-Aug-05 | | | | 29-Aug-05 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Barometric Pressure (in.) = 29.61 | | | | Barometric Pressure (in.) = 29.55 | | | | Barometric Pressure (in.) = 29.50 | | | |
| | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) |
| LF1GMP-01 | >100 | 74.4 | 0.9 | 24.2 | >100 | 50.0 | 0.1 | 32.2 | >100 | 100.0 | 0.0 | 0.0 |
| LF1GMP-02 | >100 | 34.8 | 1.1 | 27.5 | >100 | 43.5 | 1.0 | 28.9 | >100 | 47.6 | 0.5 | 30.0 |
| LF1GMP-03 | >100 | 37.0 | 1.1 | 40.4 | >100 | 50.1 | 0.4 | 39.1 | >100 | 60.3 | 0.1 | 39.6 |
| LF1GMP-04 | >100 | 52.1 | 1.7 | 44.2 | >100 | 50.2 | 0.4 | 39.1 | >100 | 60.3 | 0.3 | 39.4 |
| LF1GMP-06 | >100 | 63.1 | 1.2 | 4.4 | >100 | 65.1 | 0.9 | 5.8 | >100 | 76.2 | 0.1 | 7.0 |
| LF1GMP-08 | 0 | 0.0 | 11.7 | 7.4 | 0 | 0.0 | 14.8 | 5.5 | 0 | 0.0 | 11.8 | 7.5 |
| LF1GMP-09 | >100 | 35.3 | 1.2 | 24.1 | >100 | 39.8 | 0.8 | 24.4 | >100 | 58.4 | 0.1 | 33.2 |
| LF1GMP-10 | >100 | 14.4 | 2.9 | 24.5 | >100 | 13.5 | 3.4 | 22.5 | >100 | 18.5 | 2.6 | 28.8 |
| LF1GMP-11 | >100 | 11.5 | 1.2 | 23.2 | >100 | 9.6 | 1.1 | 22.0 | >100 | 18.8 | 0.3 | 30.4 |
| LF1GMP-12 | 0 | 0.0 | 18.8 | 2.2 | 0 | 0.0 | 19.4 | 1.7 | 0 | 0.0 | 18.8 | 2.0 |
| LF1GMP-13 | 0 | 0.0 | 19.1 | 1.1 | 0 | 0.0 | 19.1 | 1.1 | 0 | 0.0 | 18.7 | 1.7 |
| LF1GMP-14 | 0 | 0.0 | 19.9 | 0.5 | 0 | 0.0 | 19.6 | 0.6 | 0 | 0.0 | 19.0 | 1.2 |
| LF1GMP-15 | 0 | 0.0 | 20.0 | 0.5 | 0 | 0.0 | 19.8 | 0.1 | 0 | 0.0 | 19.4 | 1.0 |
| LF1GMP-16 | 0 | 0.0 | 17.8 | 2.8 | 0 | 0.0 | 17.7 | 3.2 | 0 | 0.0 | 17.2 | 3.0 |
| LF1GMP-17 | 0 | 0.0 | 17.9 | 2.5 | 0 | 0.0 | 17.1 | 3.3 | 0 | 0.0 | 16.6 | 3.2 |
| LF1GMP-18 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| LF1GMP-19 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| LF1GMP-20 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| LF1GV-01 | >100 | 21.3 | 1.0 | 31.9 | >100 | 27.8 | 4.7 | 29.4 | >100 | 58.4 | 0.0 | 41.6 |
| LF1GV-02 | >100 | 21.3 | 1.2 | 30.0 | >100 | 19.3 | 4.1 | 24.5 | >100 | 59.7 | 0.0 | 40.3 |
| LF1GV-03 | >100 | 8.4 | 2.4 | 22.0 | 40 | 2.0 | 14.3 | 6.7 | >100 | 50.2 | 0.0 | 46.4 |
| LF1GV-04 | >100 | 8.0 | 6.2 | 20.1 | >100 | 10.0 | 13.4 | 9.5 | >100 | 40.8 | 0.1 | 41.0 |
| LF1GV-05 | >100 | 22.1 | 1.0 | 31.4 | >100 | 26.4 | 4.1 | 28.3 | >100 | 58.6 | 0.0 | 41.4 |
| LF1GV-06 | >100 | 10.0 | 1.3 | 23.0 | 8 | 0.4 | 13.1 | 6.5 | >100 | 62.2 | 0.0 | 37.8 |
| LF1GV-07 | >100 | 24.3 | 1.0 | 34.1 | >100 | 24.1 | 5.8 | 25.1 | >100 | 60.7 | 0.0 | 39.3 |
| LF1GV-08 | >100 | 15.1 | 1.1 | 23.6 | >100 | 6.2 | 9.3 | 11.4 | >100 | 55.4 | 0.0 | 40.8 |
| LF1GV-09 | >100 | 8.1 | 1.5 | 22.2 | >100 | 11.1 | 14.8 | 9.1 | >100 | 40.2 | 4.0 | 55.8 |
| LF1GV-10 | >100 | 15.7 | 3.8 | 23.8 | >100 | 16.4 | 7.4 | 19.7 | >100 | 59.5 | 0.0 | 40.5 |
| LF1GV-11 | >100 | 14.8 | 2.0 | 21.9 | >100 | 7.0 | 16.5 | 5.4 | >100 | 45.8 | 3.3 | 33.1 |
| LF1GV-12 | >100 | 8.6 | 1.5 | 22.4 | 50 | 2.5 | 7.4 | 3.8 | >100 | 55.0 | 0.3 | 44.9 |
| LF1GV-13 | >100 | 20.6 | 1.0 | 26.2 | >100 | 15.9 | 2.9 | 21.2 | >100 | 52.1 | 0.0 | 41.2 |
| LF1GV-14 | >100 | 30.7 | 4.2 | 27.5 | >100 | 16.9 | 12.3 | 13.1 | >100 | 45.5 | 4.4 | 37.2 |
| LF1GV-15 | >100 | 16.0 | 6.6 | 20.2 | >100 | 15.0 | 12.8 | 13.5 | >100 | 46.1 | 4.9 | 38.3 |
| LF1GV-16 | 18 | 0.9 | 6.7 | 13.5 | 60 | 3.0 | 14.9 | 5.3 | >100 | 36.0 | 4.3 | 30.1 |
| LF1GV-17 | >100 | 32.5 | 5.3 | 26.2 | >100 | 12.8 | 14.0 | 11.4 | >100 | 42.9 | 3.9 | 33.5 |
| LF1GV-18 | >100 | 22.1 | 7.4 | 20.7 | >100 | 22.3 | 9.0 | 17.5 | >100 | 49.0 | 3.3 | 41.1 |
| LF1GV-19 | >100 | 12.3 | 2.8 | 22.3 | >100 | 9.3 | 11.7 | 11.3 | >100 | 36.8 | 6.1 | 30.7 |
| LF1GV-20 | >100 | 10.3 | 6.2 | 15.4 | 80 | 4.0 | 15.7 | 4.5 | >100 | 26.5 | 4.2 | 23.3 |
| LF1GV-21 | >100 | 24.8 | 7.5 | 15.4 | >100 | 11.3 | 14.2 | 5.3 | >100 | 38.3 | 6.7 | 20.8 |
| LF1GV-22 | >100 | 27.8 | 0.9 | 25.8 | >100 | 9.0 | 16.2 | 6.3 | >100 | 46.8 | 3.1 | 32.2 |
| LF1GV-23 | 42 | 2.1 | 14.9 | 6.2 | 0 | 0.0 | 20.2 | 0.1 | >100 | 19.9 | 6.6 | 25.7 |
| LF1GV-24 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| LF1GV-25 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| LF1GV-26 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| LF1GV-27 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| LF1GV-28 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| LF1GV-29 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| LF1GV-30 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| LF1GV-31 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |

**Table 2-1**
**LF001 (Landfill 1 AOC) Gas Monitoring Results**

| Sample Location | 7-Oct-05 | | | | 15-Nov-05 | | | | 28-Nov-05 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Barometric Pressure (in.) = 29.87 | | | | Barometric Pressure (in.) = 30.13 | | | | Barometric Pressure (in.) = 30.06 | | | |
| | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) |
| LF1GMP-01 | 12 | 0.6 | 20.5 | 0.3 | >100 | 66.3 | 11.3 | 13.4 | >100 | 20.4 | 16.9 | 5.9 |
| LF1GMP-02 | >100 | 48.4 | 0.4 | 26.2 | >100 | 52.3 | 0.8 | 20.9 | >100 | 55.4 | 0.5 | 25.1 |
| LF1GMP-03 | >100 | 52.3 | 0.0 | 42.9 | >100 | 54.8 | 0.3 | 36.0 | >100 | 41.2 | 5.5 | 28.9 |
| LF1GMP-04 | >100 | 49.7 | 0.7 | 45.9 | >100 | 39.7 | 0.0 | 32.1 | 36 | 1.8 | 8.8 | 13.3 |
| LF1GMP-06 | >100 | 70.5 | 0.3 | 8.3 | >100 | 73.9 | 0.0 | 5.9 | >100 | 81.3 | 0.5 | 6.1 |
| LF1GMP-08 | 0 | 0.0 | 6.0 | 10.0 | >100 | 6.8 | 0.7 | 15.5 | 10 | 0.5 | 3.7 | 17.8 |
| LF1GMP-09 | >100 | 58.8 | 0.3 | 30.7 | >100 | 44.8 | 0.1 | 19.0 | >100 | 49.2 | 0.9 | 21.0 |
| LF1GMP-10 | >100 | 20.3 | 1.8 | 25.8 | >100 | 27.4 | 0.8 | 24.6 | >100 | 29.9 | 0.8 | 28.4 |
| LF1GMP-11 | 54 | 2.7 | 0.4 | 21.8 | 4 | 0.2 | 0.1 | 13.8 | 4 | 0.2 | 12.8 | 6.0 |
| LF1GMP-12 | 0 | 0.0 | 18.9 | 2.3 | 0 | 0.0 | 18.6 | 2.6 | 0 | 0.0 | 19.8 | 1.2 |
| LF1GMP-13 | 0 | 0.0 | 17.3 | 1.9 | 0 | 0.0 | 10.8 | 4.0 | 0 | 0.0 | 19.7 | 1.2 |
| LF1GMP-14 | 0 | 0.0 | 17.4 | 1.8 | 0 | 0.0 | 13.1 | 2.5 | 0 | 0.0 | 14.4 | 2.9 |
| LF1GMP-15 | 0 | 0.0 | 19.3 | 0.8 | 0 | 0.0 | 18.7 | 0.7 | 0 | 0.0 | 19.0 | 0.8 |
| LF1GMP-16 | 0 | 0.0 | 17.8 | 2.7 | 0 | 0.0 | 17.5 | 2.8 | 0 | 0.0 | 18.1 | 2.6 |
| LF1GMP-17 | 0 | 0.0 | 17.5 | 2.7 | 0 | 0.0 | 18.0 | 2.3 | 0 | 0.0 | 18.5 | 2.1 |
| LF1GMP-18 | >100 | 9.1 | 5.0 | 5.0 | 0 | 0.0 | 19.6 | 0.3 | 0 | 0.0 | 20.8 | 0.0 |
| LF1GMP-19 | >100 | 7.9 | 3.7 | 22.7 | 90 | 4.5 | 0.8 | 11.0 | 64 | 3.2 | 1.4 | 10.5 |
| LF1GMP-20 | 0 | 0.0 | 20.4 | 0.0 | 0 | 0.0 | 20.5 | 0.0 | 4 | 0.2 | 20.7 | 0.0 |
| LF1GV-01 | >100 | 38.6 | 3.8 | 34.3 | >100 | 40.8 | 0.9 | 29.8 | >100 | 16.7 | 1.5 | 20.0 |
| LF1GV-02 | >100 | 23.0 | 10.6 | 19.3 | >100 | 38.0 | 0.1 | 28.1 | >100 | 14.8 | 3.2 | 19.4 |
| LF1GV-03 | >100 | 8.2 | 16.8 | 6.4 | >100 | 29.8 | 0.0 | 25.3 | >100 | 10.0 | 1.2 | 16.8 |
| LF1GV-04 | 8 | 0.4 | 20.5 | 0.2 | >100 | 27.0 | 1.0 | 25.6 | >100 | 17.1 | 1.2 | 21.4 |
| LF1GV-05 | >100 | 46.1 | 0.3 | 42.6 | >100 | 38.9 | 0.0 | 29.0 | >100 | 24.7 | 0.8 | 27.0 |
| LF1GV-06 | >100 | 56.5 | 0.2 | 39.2 | >100 | 42.2 | 0.1 | 27.0 | >100 | 27.1 | 0.8 | 26.6 |
| LF1GV-07 | >100 | 50.2 | 0.3 | 45.3 | >100 | 42.2 | 0.7 | 30.0 | >100 | 32.0 | 0.2 | 32.6 |
| LF1GV-08 | >100 | 49.6 | 0.6 | 33.2 | >100 | 40.1 | 1.0 | 23.9 | >100 | 33.5 | 2.0 | 23.0 |
| LF1GV-09 | >100 | 32.4 | 4.0 | 27.3 | >100 | 33.6 | 0.8 | 22.4 | >100 | 12.3 | 1.8 | 16.7 |
| LF1GV-10 | >100 | 49.3 | 0.3 | 44.7 | >100 | 38.5 | 0.3 | 29.8 | >100 | 25.5 | 0.5 | 29.0 |
| LF1GV-11 | >100 | 28.4 | 6.1 | 23.1 | >100 | 34.2 | 1.2 | 22.4 | >100 | 18.4 | 6.9 | 15.2 |
| LF1GV-12 | >100 | 16.0 | 13.4 | 12.3 | >100 | 29.3 | 0.1 | 24.5 | >100 | 15.1 | 0.5 | 21.5 |
| LF1GV-13 | >100 | 45.8 | 0.3 | 37.5 | >100 | 30.9 | 0.3 | 25.9 | >100 | 25.2 | 0.7 | 30.6 |
| LF1GV-14 | >100 | 34.6 | 6.2 | 25.1 | >100 | 39.8 | 1.6 | 23.5 | >100 | 23.4 | 6.6 | 16,7 |
| LF1GV-15 | >100 | 16.4 | 11.2 | 13.3 | >100 | 18.7 | 5.5 | 14.9 | 14 | 0.7 | 20.3 | 0.4 |
| LF1GV-16 | >100 | 20.9 | 9.6 | 15.2 | >100 | 17.9 | 0.3 | 16.8 | 0 | 0.0 | 20.8 | 0.0 |
| LF1GV-17 | >100 | 27.8 | 9.7 | 20.2 | >100 | 37.4 | 3.5 | 19.0 | >100 | 18.3 | 6.3 | 13.2 |
| LF1GV-18 | >100 | 37.7 | 5.3 | 27.9 | >100 | 31.2 | 3.7 | 18.5 | >100 | 24.5 | 3.7 | 18.3 |
| LF1GV-19 | >100 | 15.6 | 12.1 | 12.4 | >100 | 24.8 | 2.8 | 17.0 | 0 | 0.0 | 20.7 | 0.1 |
| LF1GV-20 | >100 | 15.2 | 10.9 | 11.8 | >100 | 24.8 | 4.3 | 15.7 | 0 | 0.0 | 20.7 | 0.1 |
| LF1GV-21 | >100 | 22.8 | 12.6 | 11.2 | >100 | 39.7 | 2.6 | 16.0 | >100 | 21.8 | 10.9 | 10.4 |
| LF1GV-22 | >100 | 28.4 | 5.6 | 19.9 | >100 | 35.7 | 1.7 | 20.0 | >100 | 14.5 | 12.6 | 9.3 |
| LF1GV-23 | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned |
| LF1GV-24 | >100 | 26.1 | 0.0 | 31.4 | 0 | 0.0 | 20.6 | 0.0 | 2 | 0.1 | 20.9 | 0.0 |
| LF1GV-25 | >100 | 30.8 | 36.0 | 0.3 | >100 | 5.3 | 9.4 | 9.6 | 2 | 0.1 | 19.3 | 0.9 |
| LF1GV-26 | 0 | 0.0 | 20.5 | 0.0 | >100 | 13.1 | 2.3 | 19.3 | 22 | 1.1 | 14.8 | 5.5 |
| LF1GV-27 | >100 | 31.2 | 1.8 | 35.2 | >100 | 22.0 | 2.4 | 22.8 | 10 | 0.5 | 13.1 | 4.8 |
| LF1GV-28 | >100 | 9.4 | 10.2 | 15.0 | >100 | 5.3 | 16.9 | 1.4 | 36 | 1.8 | 8.9 | 13.1 |
| LF1GV-29 | >100 | 13.1 | 5.9 | 20.1 | >100 | 13.0 | 0.3 | 19.5 | 10 | 0.5 | 13.1 | 4.8 |
| LF1GV-30 | >100 | 6.4 | 11.3 | 10.5 | 64 | 3.2 | 5.4 | 11.6 | 8 | 0.4 | 12.2 | 5.6 |
| LF1GV-31 | >100 | 21.3 | 0.4 | 26.7 | 0 | 0 | 20.6 | 9.0 | 10 | 0.5 | 18.3 | 17.5 |

**Table 2-1**
**LF001 (Landfill 1 AOC) Gas Monitoring Results**

| Sample Location | 9-Jan-06 | | | | 30-Mar-06 | | | | 11-Jul-06 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Barometric Pressure (in.) = 29.79 | | | | Barometric Pressure (in.) = 30.22 | | | | Barometric Pressure (in.) = 30.01 - 30.12 | | | |
| | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) |
| LF1GMP-01 | >100 | 98.0 | 0.0 | 2.0 | >100 | >100 | 0.2 | 31.2 | >100 | 31.6 | 9.5 | 14.3 |
| LF1GMP-02 | >100 | 50.0 | 0.2 | 20.4 | >100 | 45.0 | 0.4 | 19.2 | 14 | 0.7 | 18.5 | 0.4 |
| LF1GMP-03 | >100 | 42.2 | 2.5 | 30.1 | >100 | 33.2 | 0.7 | 28.2 | 0 | 0.0 | 20.2 | 0.0 |
| LF1GMP-04 | >100 | 38.9 | 2.8 | 33.2 | >100 | 26.4 | 3.4 | 24.4 | >100 | 42.7 | 2.0 | 37.3 |
| LF1GMP-06 | >100 | 77.1 | 0.0 | 3.2 | >100 | 61.3 | 0.0 | 1.6 | >100 | 62.9 | 0.3 | 0.9 |
| LF1GMP-08 | >100 | 5.6 | 0.0 | 15.7 | 0 | 0.0 | 17.2 | 3.6 | 0 | 0.0 | 20.6 | 0.0 |
| LF1GMP-09 | >100 | 33.1 | 1.4 | 11.6 | 100 | 5.0 | 12.6 | 2.4 | 0 | 0.0 | 20.5 | 0.0 |
| LF1GMP-10 | >100 | 21.6 | 6.9 | 19.0 | >100 | 24.7 | 0.0 | 23.4 | 0 | 0.0 | 20.9 | 0.0 |
| LF1GMP-11 | 0 | 0.0 | 7.7 | 8.0 | 0 | 0.0 | 15.5 | 3.5 | 0 | 0.0 | 20.6 | 0.0 |
| LF1GMP-12 | 0 | 0.0 | 19.4 | 2.0 | 0 | 0.0 | 19.7 | 1.1 | 0 | 0.0 | 20.4 | 0.1 |
| LF1GMP-13 | 12 | 0.6 | 5.7 | 6.0 | 0 | 0.0 | 9.0 | 5.1 | 0 | 0.0 | 20.9 | 0.0 |
| LF1GMP-14 | 0 | 0.0 | 14.1 | 2.1 | 0 | 0.0 | 18.0 | 1.3 | 0 | 0.0 | 19.2 | 0.4 |
| LF1GMP-15 | 0 | 0.0 | 20.4 | 0.0 | 0 | 0.0 | 19.2 | 0.5 | 0 | 0.0 | 20.7 | 0.0 |
| LF1GMP-16 | 0 | 0.0 | 17.6 | 2.6 | 0 | 0.0 | 19.0 | 1.9 | 0 | 0.0 | 19.9 | 0.3 |
| LF1GMP-17 | 0 | 0.0 | 17.8 | 2.2 | 0 | 0.0 | 19.5 | 1.5 | 0 | 0.0 | 18.0 | 2.5 |
| LF1GMP-18 | 0 | 0.0 | 20.6 | 0.0 | 0 | 0.0 | 20.8 | 0.0 | 0 | 0.0 | 20.9 | 0.0 |
| LF1GMP-19 | 4 | 0.2 | 0.9 | 4.2 | 0 | 0.0 | 10.0 | 2.7 | >100 | 7.0 | 9.5 | 10.0 |
| LF1GMP-20 | 0 | 0.0 | 20.2 | 0.2 | 0 | 0.0 | 20.7 | 0.0 | 2 | 0.1 | 20.5 | 0.0 |
| LF1GV-01 | 42 | 2.1 | 19.7 | 1.7 | >100 | 6.5 | 17.3 | 5.2 | 2 | 1.1 | 17.3 | 4.0 |
| LF1GV-02 | 2 | 0.1 | 20.7 | 0.0 | >100 | 6.4 | 16.0 | 5.5 | 26 | 1.3 | 5.2 | 18.2 |
| LF1GV-03 | 18 | 0.9 | 20.3 | 0.7 | >100 | 20.2 | 3.0 | 20.9 | 20 | 1.0 | 13.7 | 5.6 |
| LF1GV-04 | >100 | 5.1 | 18.1 | 4.0 | >100 | 13.8 | 8.7 | 14.0 | 0 | 0.0 | 19.0 | 1.0 |
| LF1GV-05 | 0 | 0.0 | 20.6 | 0.0 | >100 | 15.8 | 12.3 | 12.1 | 22 | 1.1 | 18.1 | 2.8 |
| LF1GV-06 | 0 | 0.0 | 20.4 | 0.0 | >100 | 14.2 | 9.6 | 14.4 | 28 | 1.4 | 8.8 | 10.1 |
| LF1GV-07 | 88 | 4.4 | 18.8 | 2.9 | >100 | 16.2 | 16.0 | 11.5 | 12 | 0.6 | 20.2 | 0.4 |
| LF1GV-08 | 0 | 0.0 | 20.6 | 0.0 | >100 | 21.4 | 9.4 | 14.5 | 36 | 1.8 | 18.1 | 2.3 |
| LF1GV-09 | 26 | 1.3 | 19.8 | 1.1 | >100 | 21.0 | 10.8 | 11.8 | 32 | 1.6 | 17.3 | 3.2 |
| LF1GV-10 | 0 | 0.0 | 20.5 | 0.0 | >100 | 15.7 | 9.3 | 15.0 | 0 | 0.0 | 20.7 | 0.1 |
| LF1GV-11 | 56 | 2.8 | 19.0 | 2.1 | >100 | 6.4 | 17.1 | 4.1 | 2 | 0.1 | 20.9 | 0.0 |
| LF1GV-12 | 0 | 0.0 | 20.4 | 0.0 | >100 | 12.2 | 10.4 | 12.6 | 0 | 0.0 | 20.4 | 0.0 |
| LF1GV-13 | 0 | 0.0 | 20.3 | 0.0 | >100 | 16.0 | 19.8 | 2.8 | >100 | 7.8 | 1.6 | 20.0 |
| LF1GV-14 | 50 | 2.5 | 19.3 | 1.5 | >100 | 5.2 | 18.7 | 2.5 | 52 | 2.6 | 19.7 | 1.1 |
| LF1GV-15 | 0 | 0.0 | 20.3 | 0.0 | 26 | 1.3 | 18.7 | 1.7 | 2 | 0.1 | 20.6 | 0.0 |
| LF1GV-16 | 0 | 0.0 | 20.3 | 0.0 | 0 | 0.0 | 19.3 | 0.8 | 0 | 0.0 | 20.9 | 0.0 |
| LF1GV-17 | >100 | 12.6 | 16.2 | 5.7 | >100 | 10.5 | 17.1 | 4.4 | 18 | 0.9 | 20.1 | 0.5 |
| LF1GV-18 | >100 | 12.3 | 15.6 | 6.1 | 74 | 3.7 | 18.5 | 2.2 | 8 | 0.4 | 20.4 | 0.2 |
| LF1GV-19 | 4 | 0.2 | 20.3 | 0.2 | 44 | 2.2 | 18.6 | 1.8 | 0 | 0.0 | 20.9 | 0.0 |
| LF1GV-20 | 0 | 0.0 | 20.1 | 0.3 | >100 | 7.0 | 15.4 | 3.7 | 0 | 0.0 | 20.8 | 0.0 |
| LF1GV-21 | >100 | 9.1 | 17.5 | 3.1 | >100 | 16.1 | 16.5 | 4.0 | 0 | 0.0 | 20.7 | 0.0 |
| LF1GV-22 | >100 | 10.5 | 15.3 | 9.5 | 94 | 4.7 | 19.1 | 2.0 | 12 | 0.6 | 19.9 | 0.4 |
| LF1GV-23 | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned |
| LF1GV-24 | 0 | 0.0 | 20.7 | 0.0 | 0 | 0.0 | 21.1 | 0.0 | >100 | 8.5 | 16.7 | 3.9 |
| LF1GV-25 | 0 | 0.0 | 20.6 | 0.0 | 0 | 0.0 | 20.1 | 0.5 | 12 | 0.6 | 19.6 | 0.2 |
| LF1GV-26 | 0 | 0.0 | 20.6 | 0.0 | 6 | 0.3 | 19.3 | 0.8 | 4 | 0.2 | 20.2 | 0.0 |
| LF1GV-27 | >100 | 10.0 | 15.3 | 7.8 | 66 | 3.7 | 18.0 | 2.6 | 0 | 0.0 | 20.4 | 0.0 |
| LF1GV-28 | 0 | 0.0 | 20.5 | 0.0 | 0 | 0.0 | 20.9 | 0.2 | 0 | 0.0 | 20.6 | 0.0 |
| LF1GV-29 | 86 | 4.3 | 10.3 | 8.6 | 0 | 0.0 | 20.9 | 0.2 | 0 | 0.0 | 20.7 | 0.0 |
| LF1GV-30 | 12 | 0.6 | 19.7 | 0.7 | 0 | 0.0 | 19.2 | 1.1 | 0 | 0.2 | 20.3 | 0.2 |
| LF1GV-31 | 0 | 0 | 20.5 | 0 | 0 | 0 | 21.1 | 0 | 0 | 0.0 | 20.2 | 0.2 |

**Table 2-1**
**LF001 (Landfill 1 AOC) Gas Monitoring Results**

| Sample Location | 9-Oct-06 | | | | 3-Jan-07 | | | | 31-May-07 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Barometric Pressure (in.) = 29.43 - 29.47 | | | | Barometric Pressure (in.) = 29.42 - 29.47 | | | | Barometric Pressure (in.) = 29.40 - 29.44 | | | |
| | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) |
| LF1GMP-01 | 56 | 2.8 | 19.1 | 1.6 | >100 | 51.5 | 3.2 | 21.4 | >100 | 56.2 | 0.7 | 27.8 |
| LF1GMP-02 | >100 | 26.5 | - | 18.7 | 0 | 0.0 | 5.1 | 5.4 | >100 | 27.2 | 0.6 | 20.7 |
| LF1GMP-03 | >100 | 49.6 | - | 33.8 | >100 | 29.2 | - | 22.9 | >100 | 37.5 | 0.4 | 31.9 |
| LF1GMP-04 | >100 | 57.3 | - | 40.0 | >100 | 19.5 | 0.0 | 24.3 | >100 | 60.0 | 0.4 | 32.6 |
| LF1GMP-06 | >100 | 73.1 | - | 8.6 | >100 | 11.9 | - | 4.8 | >100 | 59.4 | 0.5 | 5.8 |
| LF1GMP-08 | 0 | 0.0 | 20.4 | 0.3 | 0 | 0.0 | 9.9 | 7.0 | 0 | 0.0 | 20.9 | 0.0 |
| LF1GMP-09 | >100 | 33.4 | - | 19.7 | >100 | 6.4 | 1.8 | 6.7 | >100 | 12.0 | 13.0 | 5.7 |
| LF1GMP-10 | >100 | 23.0 | - | 25.3 | 89 | 4.5 | 14.1 | 5.7 | 10 | 0.4 | 20.2 | 0.4 |
| LF1GMP-11 | 0 | 0.0 | 21.0 | 0.1 | 0 | 0.0 | 20.7 | 0.2 | 0 | 0.0 | 20.9 | 0.0 |
| LF1GMP-12 | 0 | 0.0 | 20.9 | 0.2 | 0 | 0.0 | 19.8 | 1.9 | 0 | 0.0 | 20.9 | 0.0 |
| LF1GMP-13 | 0 | 0.0 | 1.3 | 11.6 | 0 | 0.0 | 18.9 | 1.4 | 0 | 0.0 | 20.9 | 0.0 |
| LF1GMP-14 | 0 | 0.0 | 15.0 | 3.3 | 0 | 0.0 | 17.5 | 1.7 | 0 | 0.0 | 20.7 | 0.3 |
| LF1GMP-15 | 0 | 0.0 | 20.1 | 0.6 | 0 | 0.0 | 20.4 | 0.4 | 0 | 0.0 | 20.9 | 0.0 |
| LF1GMP-16 | 0 | 0.0 | 20.5 | 0.5 | 0 | 0.0 | 18.0 | 2.4 | 0 | 0.0 | 19.2 | 1.7 |
| LF1GMP-17 | 0 | 0.0 | 18.0 | 2.9 | 0 | 0.0 | 18.6 | 2.0 | 0 | 0.0 | 18.9 | 1.6 |
| LF1GMP-18 | 0 | 0.0 | 17.4 | 2.8 | 0 | 0.0 | 20.9 | 0.2 | 0 | 0.0 | 6.8 | 4.8 |
| LF1GMP-19 | 46 | 2.3 | 12.1 | 6.0 | 0 | 0.0 | 4.2 | 1.6 | 0 | 0.0 | 12.0 | 3.8 |
| LF1GMP-20 | 2 | 0.1 | 20.8 | 0.1 | 0 | 0.0 | 20.9 | 0.1 | 0 | 0.0 | 20.6 | 0.0 |
| LF1GV-01 | 70 | 3.5 | 20.0 | 3.4 | 2 | 0.1 | 20.9 | 0.2 | >100 | 14.8 | 14.2 | 12.4 |
| LF1GV-02 | >100 | 7.7 | 17.6 | 6.3 | 0 | 0.0 | 20.8 | 0.2 | >100 | 15.4 | 13.8 | 11.6 |
| LF1GV-03 | >100 | 11.3 | 15.8 | 9.2 | 0 | 0.0 | 21.0 | 0.1 | >100 | 11.0 | 15.4 | 8.4 |
| LF1GV-04 | >100 | 6.7 | 17.6 | 5.7 | 0 | 0.0 | 20.9 | 0.1 | 42 | 2.1 | 20.0 | 1.2 |
| LF1GV-05 | >100 | 5.2 | 18.7 | 4.6 | 9 | 0.5 | 20.8 | 0.2 | >100 | 30.5 | 6.9 | 25.2 |
| LF1GV-06 | >100 | 24.4 | 6.8 | 19.8 | 0 | 0.0 | 20.9 | 0.0 | 84 | 4.2 | 18.6 | 2.8 |
| LF1GV-07 | >100 | 11.5 | 16.2 | 9.8 | 39 | 2.0 | 19.8 | 1.7 | >100 | 18.6 | 13.6 | 13.9 |
| LF1GV-08 | >100 | 14.0 | 15.3 | 9.0 | >100 | 6.9 | 17.0 | 4.8 | 26 | 1.3 | 20.8 | 0.3 |
| LF1GV-09 | >100 | 9.9 | 16.7 | 6.9 | 39 | 2.0 | 19.2 | 1.7 | 20 | 1.0 | 20.8 | 0.2 |
| LF1GV-10 | >100 | 20.3 | 11.9 | 18.4 | 0 | 0.0 | 20.9 | 0.1 | >100 | 7.1 | 7.2 | 5.5 |
| LF1GV-11 | >100 | 5.0 | 18.3 | 4.1 | 34 | 1.7 | 19.6 | 1.1 | 22 | 1.1 | 20.8 | 0.3 |
| LF1GV-12 | 0 | 0.0 | 20.7 | 0.1 | >100 | 5.4 | 16.0 | 4.5 | >100 | 5.9 | 18.0 | 4.6 |
| LF1GV-13 | >100 | 16.5 | 11.5 | 14.4 | 0 | 0.0 | 20.8 | 0.1 | >100 | 27.1 | 2.2 | 23.1 |
| LF1GV-14 | >100 | 6.6 | 17.8 | 5.1 | 20 | 1.0 | 20.0 | 0.6 | 96 | 4.8 | 1.8 | 19.4 |
| LF1GV-15 | 4 | 0.2 | 20.7 | 0.3 | 13 | 0.7 | 19.9 | 1.0 | 46 | 2.3 | 19.4 | 1.6 |
| LF1GV-16 | 61 | 3.1 | 18.6 | 2.4 | 9 | 0.4 | 18.2 | 1.8 | 0 | 0.0 | 21.0 | 0.0 |
| LF1GV-17 | 20 | 1.0 | 20.1 | 1.1 | >100 | 6.0 | 16.7 | 3.6 | >100 | 7.6 | 18.2 | 3.5 |
| LF1GV-18 | 84 | 4.2 | 19.0 | 3.0 | 53 | 2.7 | 17.9 | 2.2 | 42 | 2.1 | 20.2 | 0.8 |
| LF1GV-19 | 7 | 0.3 | 20.5 | 0.5 | 25 | 1.3 | 18.8 | 1.5 | 6 | 0.3 | 20.8 | 0.0 |
| LF1GV-20 | 80 | 4.0 | 18.1 | 2.8 | 40 | 2.0 | 18.7 | 1.7 | 50 | 2.5 | 18.8 | 1.8 |
| LF1GV-21 | >100 | 17.8 | 14.4 | 5.9 | >100 | 6.7 | 17.3 | 2.6 | >100 | 10.0 | 18.0 | 2.2 |
| LF1GV-22 | 83 | 4.1 | 18.7 | 2.9 | 50 | 2.6 | 18.8 | 1.9 | >100 | 8.9 | 18.0 | 3.0 |
| LF1GV-23 | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned |
| LF1GV-24 | 0 | 0.0 | 20.9 | 0.2 | 0 | 0.0 | 20.9 | 0.1 | 8 | 0.4 | 1.1 | 16.7 |
| LF1GV-25 | 12 | 0.6 | 20.5 | 1.1 | 31 | 1.6 | 15.0 | 3.6 | 14 | 0.7 | 17.4 | 2.5 |
| LF1GV-26 | >100 | 15.6 | 13.7 | 8.7 | 0 | 0.0 | 20.9 | 0.1 | 0 | 0.0 | 20.7 | 0.0 |
| LF1GV-27 | >100 | 33.4 | 1.7 | 27.2 | 0 | 0.0 | 20.9 | 0.1 | 0 | 0.0 | 20.9 | 0.0 |
| LF1GV-28 | 0 | 0.0 | 21.0 | 0.1 | 0 | 0.0 | 20.9 | 0.1 | 0 | 0.0 | 20.9 | 0.0 |
| LF1GV-29 | >100 | 13.8 | 11.4 | 11.2 | 0 | 0.0 | 20.9 | 0.1 | 0 | 0.0 | 21.1 | 0.0 |
| LF1GV-30 | 0 | 0.0 | 21.1 | 0.0 | 0 | 0.0 | 20.9 | 0.1 | 0 | 0.0 | 19.4 | 0.9 |
| LF1GV-31 | 0 | 0.0 | 20.9 | 0.1 | 0 | 0.0 | 20.9 | 0.1 | 1 | 0.1 | 12.9 | 5.6 |

**Table 2-1**
**LF001 (Landfill 1 AOC) Gas Monitoring Results**

| Sample Location | 30-Jul-07 | | | | 6-Oct-07 | | | | 23-Jan-08 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Barometric Pressure (in.) = 29.38 - 29.46 | | | | Barometric Pressure (in.) = 30.19 | | | | Barometric Pressure (in.) = 29.37-29.53 | | | |
| | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) |
| LF1GMP-01 | 18 | 0.8 | 19.4 | 1.4 | >100 | 99.9 | 0.2 | 0.0 | >100 | 81.0 | 0.9 | 27.3 |
| LF1GMP-02 | 0 | 0.0 | 20.0 | 0.4 | >100 | 29.4 | 0.2 | 17.9 | 0 | 0.0 | 21.2 | 0.0 |
| LF1GMP-03 | >100 | 34.3 | 0.4 | 31.0 | >100 | 49.9 | 0.1 | 39.3 | >100 | 34.8 | 0.0 | 29.2 |
| LF1GMP-04 | >100 | 50.7 | 0.1 | 39.1 | >100 | 51.7 | 0.2 | 47.4 | 0 | 0.0 | 20.0 | 0.2 |
| LF1GMP-06 | >100 | 74.2 | 0.2 | 7.4 | >100 | 65.9 | 0.3 | 10.3 | >100 | 45.7 | 0.0 | 4.0 |
| LF1GMP-08 | 0 | 0.0 | 20.9 | 0.0 | 0 | 0.0 | 16.4 | 3.0 | 0 | 0.0 | 19.0 | 2.2 |
| LF1GMP-09 | >100 | 16.0 | 2.1 | 12.4 | >100 | 41.5 | 0.3 | 23.8 | 0 | 0.0 | 20.6 | 0.1 |
| LF1GMP-10 | >100 | 7.2 | 1.4 | 16.7 | >100 | 14.5 | 0.1 | 23.0 | >100 | 20.0 | 0.2 | 21.7 |
| LF1GMP-11 | 0 | 0.0 | 17.7 | 2.2 | 0 | 0.0 | 17.7 | 2.7 | 0 | 0.0 | 21.3 | 0.1 |
| LF1GMP-12 | 0 | 0.0 | 20.8 | 0.3 | 0 | 0.0 | 20.8 | 0.0 | 0 | 0.0 | 19.6 | 2.1 |
| LF1GMP-13 | 0 | 0.0 | 15.0 | 4.2 | 0 | 0.0 | 12.5 | 5.3 | 0 | 0.0 | 17.1 | 2.3 |
| LF1GMP-14 | 0 | 0.0 | 19.4 | 1.3 | 0 | 0.0 | 18.8 | 1.3 | 0 | 0.0 | 19.5 | 0.8 |
| LF1GMP-15 | 0 | 0.0 | 20.1 | 0.5 | 0 | 0.0 | 19.6 | 1.0 | 0 | 0.0 | 20.4 | 0.6 |
| LF1GMP-16 | 0 | 0.0 | 20.2 | 0.3 | 0 | 0.0 | 18.8 | 2.3 | 3 | 0.2 | 19.2 | 2.2 |
| LF1GMP-17 | 0 | 0.0 | 18.0 | 2.8 | 0 | 0.0 | 18.9 | 2.3 | 1 | 0.1 | 19.3 | 2.0 |
| LF1GMP-18 | 0 | 0.0 | 13.2 | 6.5 | 4 | 0.2 | 14.3 | 6.0 | 0 | 0.0 | 21.3 | 0.1 |
| LF1GMP-19 | 0 | 0.0 | 20.4 | 0.3 | 0 | 0.0 | 19.1 | 1.7 | 4 | 0.2 | 17.7 | 2.5 |
| LF1GMP-20 | 0 | 0.0 | 21.0 | 0.0 | 0 | 0.0 | 20.8 | 0.0 | 4 | 0.2 | 21.0 | 0.1 |
| LF1GV-01 | >100 | 6.9 | 17.1 | 5.9 | >100 | 21.7 | 10.4 | 20.7 | 0 | 0.0 | 21.3 | 0.1 |
| LF1GV-02 | >100 | 25.5 | 7.1 | 22.8 | >100 | 34.1 | 4.5 | 31.2 | 0 | 0.0 | 21.0 | 0.0 |
| LF1GV-03 | >100 | 25.7 | 2.8 | 26.5 | >100 | 35.3 | 0.1 | 36.0 | 0 | 0.0 | 21.2 | 0.0 |
| LF1GV-04 | >100 | 7.3 | 12.1 | 11.4 | >100 | 27.6 | 1.8 | 31.3 | 0 | 0.0 | 20.5 | 0.1 |
| LF1GV-05 | >100 | 31.1 | 4.5 | 29.4 | >100 | 38.8 | 5.5 | 31.0 | 0 | 0.0 | 19.4 | 0.1 |
| LF1GV-06 | >100 | 20.0 | 2.8 | 22.7 | >100 | 40.8 | 0.1 | 35.1 | 0 | 0.0 | 21.4 | 0.0 |
| LF1GV-07 | >100 | 24.0 | 10.2 | 18.2 | >100 | 33.0 | 5.7 | 30.2 | 12 | 0.8 | 20.5 | 1.2 |
| LF1GV-08 | >100 | 16.8 | 10.9 | 13.1 | >100 | 20.4 | 10.7 | 14.0 | 24 | 1.2 | 19.4 | 1.1 |
| LF1GV-09 | 76 | 3.8 | 18.6 | 3.1 | >100 | 25.6 | 8.2 | 20.9 | 2 | 0.1 | 20.0 | 0.4 |
| LF1GV-10 | >100 | 5.8 | 17.2 | 5.2 | >100 | 17.5 | 12.5 | 15.4 | 9 | 0.5 | 17.8 | 2.9 |
| LF1GV-11 | >100 | 5.5 | 18.0 | 3.8 | >100 | 9.4 | 15.2 | 7.2 | 1 | 0.1 | 20.3 | 0.2 |
| LF1GV-12 | >100 | 6.0 | 15.4 | 6.7 | >100 | 30.1 | 3.2 | 29.7 | 7 | 0.4 | 19.6 | 0.8 |
| LF1GV-13 | >100 | 25.3 | 0.5 | 25.5 | >100 | 31.9 | 0.9 | 31.7 | 14 | 0.8 | 18.9 | 2.3 |
| LF1GV-14 | >100 | 6.2 | 18.4 | 3.6 | >100 | 20.1 | 10.6 | 16.4 | 4 | 0.2 | 20.3 | 0.4 |
| LF1GV-15 | >100 | 10.4 | 14.9 | 8.0 | >100 | 11.6 | 13.7 | 9.7 | 0 | 0.0 | 20.4 | 0.2 |
| LF1GV-16 | 46 | 2.3 | 9.9 | 9.8 | >100 | 14.7 | 7.1 | 14.2 | 0 | 0.0 | 20.5 | 0.1 |
| LF1GV-17 | >100 | 14.2 | 14.8 | 9.0 | >100 | 5.8 | 18.3 | 3.7 | 2 | 0.1 | 20.8 | 0.2 |
| LF1GV-18 | >100 | 7.7 | 19.4 | 4.9 | >100 | 14.5 | 15.3 | 9.1 | 0 | 0.0 | 20.6 | 0.3 |
| LF1GV-19 | >100 | 7.0 | 16.0 | 5.4 | >100 | 12.8 | 12.9 | 9.2 | 0 | 0.0 | 20.8 | 0.2 |
| LF1GV-20 | >100 | 7.3 | 12.6 | 6.8 | >100 | 10.9 | 11.4 | 8.3 | 0 | 0.0 | 20.7 | 0.2 |
| LF1GV-21 | >100 | 12.0 | 16.5 | 4.3 | >100 | 17.6 | 6.8 | 14.4 | 17 | 0.9 | 20.2 | 0.6 |
| LF1GV-22 | >100 | 15.2 | 14.2 | 8.6 | >100 | 6.6 | 17.1 | 4.4 | 13 | 0.7 | 20.2 | 1.0 |
| LF1GV-23 | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned |
| LF1GV-24 | >100 | 9.3 | 6.2 | 17.5 | >100 | 14.4 | 2.2 | 22.4 | 0 | 0.0 | 21.2 | 0.0 |
| LF1GV-25 | 2 | 0.1 | 20.5 | 0.2 | >100 | 12.5 | 11.8 | 13.4 | 0 | 0.0 | 20.2 | 0.1 |
| LF1GV-26 | 0 | 0.0 | 20.9 | 0.0 | >100 | 7.2 | 15.3 | 12.9 | 1 | 0.1 | 19.0 | 1.6 |
| LF1GV-27 | 0 | 0.0 | 21.0 | 0.0 | >100 | 13.1 | 11.0 | 16.8 | 0 | 0.0 | 20.1 | 0.1 |
| LF1GV-28 | 0 | 0.0 | 21.2 | 0.0 | 40 | 2.0 | 14.6 | 5.5 | 0 | 0.0 | 21.3 | 0.1 |
| LF1GV-29 | 0 | 0.0 | 21.0 | 0.0 | 0 | 0.0 | 21.0 | 0.0 | 0 | 0.0 | 20.3 | 1.0 |
| LF1GV-30 | 0 | 0.0 | 20.9 | 0.1 | 2 | 1.0 | 20.8 | 0.0 | 0 | 0.0 | 20.9 | 0.3 |
| LF1GV-31 | 0 | 0.0 | 21.0 | 0.0 | >100 | 7.7 | 1.7 | 19 | 0 | 0.0 | 21.3 | 0.1 |

**Table 2-1**
**LF001 (Landfill 1 AOC) Gas Monitoring Results**

| Sample Location | 17-Apr-08 | | | | 1-Jul-08 | | | | 17-Nov-08 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Barometric Pressure (in.) = 30.01-30.20 | | | | Barometric Pressure (in.) = 29.29 - 29.40 | | | | Barometric Pressure (in.) = 29.38-29.41 | | | |
| | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) |
| LF1GMP-01 | >100 | 36.1 | 1.8 | 21.8 | >100 | 10.6 | 11.7 | 8.9 | 2 | 0.1 | 21.3 | 0.1 |
| LF1GMP-02 | >100 | 7.2 | 0.3 | 14.4 | 34 | 1.8 | 6.6 | 5.1 | 0 | 0.0 | 21.4 | 0.0 |
| LF1GMP-03 | >100 | 17.9 | 0.3 | 21.6 | >100 | 30.0 | 0.2 | 27.8 | >100 | 5.9 | 18.0 | 4.3 |
| LF1GMP-04 | >100 | 15.7 | 5.4 | 17.5 | >100 | 28.4 | 0.0 | 32.9 | 0 | 0.0 | 21.6 | 0.0 |
| LF1GMP-06 | >100 | 21.3 | 0.7 | 4.4 | >100 | 24.2 | 0.9 | 7.7 | 0 | 0.0 | 21.7 | 0.1 |
| LF1GMP-08 | 0 | 0.0 | 15.6 | 2.4 | 0 | 0.0 | 16.9 | 3.7 | 1 | 0.0 | 21.6 | 0.1 |
| LF1GMP-09 | >100 | 10.0 | 1.2 | 7.7 | >100 | 20.9 | 0.4 | 16.0 | 1 | 0.0 | 21.5 | 0.0 |
| LF1GMP-10 | >100 | 8.4 | 1.2 | 13.3 | 80 | 3.9 | 15.1 | 4.0 | 0 | 0.0 | 21.0 | 0.0 |
| LF1GMP-11 | 0 | 0.0 | 18.9 | 0.4 | 0 | 0.0 | 17.4 | 3.8 | 0 | 0.0 | 21.7 | 0.1 |
| LF1GMP-12 | 0 | 0.0 | 18.8 | 0.9 | 0 | 0.0 | 20.6 | 1.7 | 0 | 0.0 | 19.6 | 2.8 |
| LF1GMP-13 | 0 | 0.0 | 21.0 | 0.3 | 0 | 0.1 | 19.1 | 1.8 | 2 | 0.1 | 21.4 | 0.1 |
| LF1GMP-14 | 0 | 0.0 | 20.2 | 0.2 | 0 | 0.0 | 21.2 | 0.3 | 2 | 0.1 | 19.7 | 0.6 |
| LF1GMP-15 | 0 | 0.0 | 18.0 | 0.8 | 0 | 0.0 | 21.1 | 0.3 | 1 | 0.0 | 21.6 | 0.1 |
| LF1GMP-16 | 0 | 0.0 | 19.1 | 1.4 | 4 | 0.3 | 19.9 | 2.1 | 0 | 0.0 | 21.2 | 0.1 |
| LF1GMP-17 | 0 | 0.0 | 19.4 | 1.4 | 5 | 0.3 | 19.3 | 2.1 | 0 | 0.0 | 19.5 | 1.6 |
| LF1GMP-18 | 0 | 0.0 | 20.2 | 0.0 | 0 | 0.0 | 6.1 | 11.6 | 0 | 0.0 | 21.6 | 0.0 |
| LF1GMP-19 | 4 | 0.2 | 18.0 | 0.8 | 0 | 0.0 | 17.5 | 2.9 | 0 | 0.0 | 21.6 | 0.1 |
| LF1GMP-20 | 2 | 0.1 | 20.0 | 0.0 | 0 | 0.0 | 21.9 | 0.7 | 0 | 0.0 | 21.7 | 0.0 |
| LF1GV-01 | >100 | 9.4 | 12.8 | 9.1 | >100 | 6.4 | 13.1 | 17.1 | 0 | 0.0 | 21.3 | 0.1 |
| LF1GV-02 | >100 | 17.1 | 4.6 | 17.4 | 90 | 4.5 | 12.9 | 13.0 | 2 | 0.1 | 21.3 | 0.1 |
| LF1GV-03 | >100 | 22.7 | 0.4 | 23.6 | >100 | 9.2 | 2.9 | 23.0 | 2 | 0.1 | 21.3 | 0.1 |
| LF1GV-04 | >100 | 17.7 | 4.3 | 19.7 | 0 | 0.0 | 21.2 | 0.0 | 3 | 0.1 | 21.3 | 0.1 |
| LF1GV-05 | >100 | 14.8 | 10.8 | 13.1 | >100 | 17.3 | 1.1 | 31.3 | 0 | 0.0 | 20.9 | 0.0 |
| LF1GV-06 | >100 | 21.2 | 0.4 | 24.4 | 0 | 0.0 | 21.2 | 0.1 | 0 | 0.0 | 20.2 | 0.1 |
| LF1GV-07 | >100 | 10.5 | 13.8 | 9.2 | >100 | 8.0 | 13.0 | 12.0 | 0 | 0.0 | 20.7 | 0.1 |
| LF1GV-08 | >100 | 20.8 | 9.3 | 12.7 | 63 | 3.2 | 18.6 | 4.0 | 0 | 0.0 | 20.5 | 0.1 |
| LF1GV-09 | >100 | 14.7 | 11.3 | 10.4 | 0 | 0.0 | 20.6 | 2.2 | 0 | 0.0 | 20.3 | 0.1 |
| LF1GV-10 | >100 | 11.2 | 9.9 | 11.5 | 18 | 0.9 | 15.9 | 6.2 | 0 | 0.0 | 21.2 | 0.0 |
| LF1GV-11 | >100 | 13.2 | 11.2 | 9.6 | 55 | 2.7 | 16.5 | 5.5 | 0 | 0.0 | 21.3 | 0.0 |
| LF1GV-12 | >100 | 15.6 | 7.1 | 14.9 | 0 | 0.0 | 21.4 | 0.1 | 0 | 0.0 | 21.3 | 0.0 |
| LF1GV-13 | >100 | 17.4 | 0.1 | 20.4 | 90 | 4.5 | 2.0 | 21.8 | 0 | 0.0 | 21.3 | 0.1 |
| LF1GV-14 | >100 | 13.5 | 11.0 | 9.5 | 47 | 2.4 | 18.8 | 3.8 | 0 | 0.0 | 21.4 | 0.1 |
| LF1GV-15 | 76 | 3.8 | 14.2 | 5.1 | 47 | 2.4 | 14.4 | 6.5 | 0 | 0.0 | 21.4 | 0.1 |
| LF1GV-16 | 4.0 | 0.2 | 17.3 | 1.6 | 0.0 | 0.0 | 20.6 | 1.1 | 0.0 | 0.0 | 21.3 | 0.1 |
| LF1GV-17 | >100 | 13.9 | 13.1 | 8.0 | 53 | 2.7 | 18.2 | 3.8 | 2 | 0.1 | 21.2 | 0.0 |
| LF1GV-18 | >100 | 8.4 | 14.5 | 5.7 | 23 | 1.1 | 19.8 | 2.7 | 0 | 0.0 | 21.3 | 0.0 |
| LF1GV-19 | >100 | 11.5 | 7.7 | 9.8 | 12 | 0.7 | 19.0 | 2.4 | 2 | 0.1 | 21.3 | 0.1 |
| LF1GV-20 | 82 | 4.1 | 16.8 | 2.8 | 5 | 0.3 | 18.6 | 2.4 | 0 | 0.0 | 21.3 | 0.0 |
| LF1GV-21 | >100 | 16.4 | 12.4 | 6.4 | 65 | 3.4 | 18.0 | 3.8 | 0 | 0.0 | 21.3 | 0.0 |
| LF1GV-22 | >100 | 11.2 | 12.7 | 7.4 | 69 | 3.5 | 15.7 | 6.0 | 2 | 0.1 | 21.2 | 0.1 |
| LF1GV-23 | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned |
| LF1GV-24 | 2 | 0.1 | 16.7 | 1.8 | 17 | 0.9 | 14.8 | 20.1 | 0 | 0.0 | 21.0 | 0.0 |
| LF1GV-25 | 6 | 0.3 | 16.5 | 2.1 | 0 | 0.0 | 21.3 | 1.0 | 0 | 0.0 | 18.6 | 2.7 |
| LF1GV-26 | 2 | 0.1 | 20.7 | 0.0 | 0 | 0.0 | 21.4 | 0.7 | 0 | 0.0 | 21.1 | 0.1 |
| LF1GV-27 | 16 | 0.8 | 18.9 | 1.1 | 0 | 0.0 | 21.2 | 1.2 | 11 | 0.6 | 21.0 | 1.1 |
| LF1GV-28 | 0 | 0.0 | 20.7 | 0.1 | 0 | 0.0 | 21.6 | 0.8 | 0 | 0.0 | 21.0 | 0.0 |
| LF1GV-29 | 2 | 0.1 | 18.4 | 0.9 | 0 | 0.0 | 19.1 | 2.1 | 0 | 0.0 | 20.9 | 0.2 |
| LF1GV-30 | 0 | 0.0 | 19.7 | 0.0 | 0 | 0.0 | 20.6 | 1.8 | 0 | 0.0 | 20.9 | 0.1 |
| LF1GV-31 | 0 | 0.0 | 19.8 | 0.1 | 0 | 0.0 | 21.0 | 0.9 | 0 | 0.0 | 21.1 | 0.0 |

**Table 2-1**
**LF001 (Landfill 1 AOC) Gas Monitoring Results**

| Sample Location | 20-Jan-09 | | | | 24-Apr-09 | | | | 9-Jul-09 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Barometric Pressure (in.) = 28.95-29.88 | | | | Barometric Pressure (in.) = 29.51-29.58 | | | | Barometric Pressure (in.) = 29.56-29.66 | | | |
| | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) |
| LF1GMP-01 | >100 | 59.0 | 1.9 | 20.3 | >100 | 7.6 | 13.2 | 5.8 | >100 | 26.8 | 4.1 | 17.9 |
| LF1GMP-02 | 91 | 4.5 | 1.7 | 10.2 | 0 | 0.0 | 20.7 | 0.2 | 34 | 1.7 | 6.4 | 3.7 |
| LF1GMP-03 | >100 | 38.2 | 1.7 | 26.6 | >100 | 14.5 | 7.7 | 11.9 | >100 | 24.8 | 6.8 | 19.5 |
| LF1GMP-04 | 0 | 0.0 | 21.3 | 0.1 | 12 | 0.6 | 18.8 | 1.0 | >100 | 10.3 | 5.8 | 15.9 |
| LF1GMP-06 | 0 | 0.0 | 20.3 | 0.2 | 0 | 0.0 | 20.1 | 0.1 | 94 | 4.7 | 6.4 | 3.3 |
| LF1GMP-08 | 0 | 0.0 | 21.3 | 0.2 | 0 | 0.0 | 20.8 | 0.1 | 0 | 0.0 | 18.0 | 2.3 |
| LF1GMP-09 | >100 | 8.6 | 11.9 | 5.3 | 23 | 1.1 | 17.6 | 0.2 | >100 | 15.5 | 0.3 | 10.2 |
| LF1GMP-10 | >100 | 14.4 | 1.3 | 20.1 | 62 | 3.1 | 12.2 | 3.6 | 0 | 0.0 | 20.7 | 0.0 |
| LF1GMP-11 | 0 | 0.0 | 21.4 | 0.1 | 0 | 0.0 | 19.6 | 0.7 | 0 | 0.0 | 17.2 | 1.5 |
| LF1GMP-12 | 0 | 0.0 | 20.3 | 0.2 | 0 | 0.0 | 20.0 | 1.1 | 0 | 0.0 | 19.9 | 0.0 |
| LF1GMP-13 | 0 | 0.0 | 19.5 | 1.5 | 0 | 0.0 | 19.7 | 0.4 | 0 | 0.0 | 19.4 | 0.9 |
| LF1GMP-14 | 0 | 0.0 | 20.7 | 0.9 | 0 | 0.0 | 20.9 | 0.0 | 0 | 0.0 | 19.2 | 1.2 |
| LF1GMP-15 | 0 | 0.0 | 21.7 | 0.3 | 0 | 0.0 | 20.2 | 0.3 | 0 | 0.0 | 17.7 | 1.6 |
| LF1GMP-16 | 0 | 0.0 | 18.3 | 2.2 | 0 | 0.0 | 20.1 | 1.4 | 0 | 0.0 | 18.7 | 1.7 |
| LF1GMP-17 | 1 | 0.1 | 20.0 | 0.3 | 0 | 0.0 | 20.0 | 1.7 | 0 | 0.0 | 18.1 | 2.3 |
| LF1GMP-18 | 13 | 0.6 | 20.8 | 0.6 | 0 | 0.0 | 21.0 | 0.0 | 0 | 0.0 | 19.4 | 0.3 |
| LF1GMP-19 | 0 | 0.0 | 21.1 | 0.1 | 0 | 0.0 | 19.5 | 1.1 | 0 | 0.0 | 19.6 | 5.6 |
| LF1GMP-20 | 0 | 0.0 | 21.1 | 0.1 | 0 | 0.0 | 20.9 | 0.0 | 0 | 0.0 | 19.5 | 0.0 |
| LF1GV-01 | 8 | 0.4 | 21.0 | 0.8 | 2 | 0.1 | 20.0 | 0.5 | 0 | 0.0 | 20.2 | 0.1 |
| LF1GV-02 | 8 | 0.4 | 20.6 | 1.1 | 2 | 0.1 | 19.8 | 1.2 | 0 | 0.0 | 19.7 | 0.1 |
| LF1GV-03 | 8 | 0.4 | 20.6 | 0.9 | 14 | 0.7 | 14.9 | 4.6 | 1 | 0.0 | 17.5 | 1.3 |
| LF1GV-04 | 14 | 0.7 | 20.0 | 1.4 | 2 | 0.1 | 19.4 | 1.4 | 2 | 0.1 | 16.5 | 2.9 |
| LF1GV-05 | 0 | 0.0 | 21.0 | 0.0 | 36 | 1.7 | 14.6 | 5.2 | 0 | 0.0 | 20.5 | 0.0 |
| LF1GV-06 | 0 | 0.0 | 21.0 | 0.1 | 9 | 0.4 | 17.0 | 6.8 | 1 | 0.0 | 15.3 | 3.0 |
| LF1GV-07 | 0 | 0.0 | 21.4 | 0.1 | 15 | 0.8 | 18.8 | 2.1 | 0 | 0.0 | 20.4 | 0.0 |
| LF1GV-08 | 0 | 0.0 | 20.8 | 0.0 | 38 | 1.9 | 18.9 | 1.5 | 11 | 0.6 | 18.7 | 1.9 |
| LF1GV-09 | 0 | 0.0 | 21.0 | 0.1 | 10 | 0.5 | 18.6 | 1.8 | 1 | 0.0 | 18.3 | 1.6 |
| LF1GV-10 | 0 | 0.0 | 21.2 | 0.1 | 5 | 0.2 | 18.7 | 1.7 | 0 | 0.0 | 19.1 | 0.5 |
| LF1GV-11 | 0 | 0.0 | 21.1 | 0.1 | 34 | 1.7 | 19.6 | 1.2 | 1 | 0.1 | 19.6 | 0.8 |
| LF1GV-12 | 0 | 0.0 | 21.0 | 0.1 | 8 | 0.4 | 19.0 | 1.5 | 0 | 0.0 | 20.6 | 0.0 |
| LF1GV-13 | 0 | 0.0 | 20.3 | 0.2 | >100 | 7.4 | 15.6 | 2.6 | 44 | 2.3 | 12.5 | 4.7 |
| LF1GV-14 | 0 | 0.0 | 21.1 | 0.1 | 27 | 1.4 | 19.7 | 1.0 | 8 | 0.4 | 18.6 | 1.9 |
| LF1GV-15 | 0 | 0.0 | 21.1 | 0.1 | 8 | 0.4 | 19.3 | 1.0 | 0 | 0.0 | 20.3 | 0.0 |
| LF1GV-16 | 0.0 | 0.0 | 22.0 | 0.1 | 0.0 | 0.0 | 19.5 | 0.6 | 0 | 0.0 | 20.5 | 0.0 |
| LF1GV-17 | 0 | 0.0 | 20.5 | 0.2 | 11 | 0.5 | 20.2 | 0.4 | 0 | 0.0 | 20.4 | 0.0 |
| LF1GV-18 | 0 | 0.0 | 20.5 | 0.2 | 11 | 0.5 | 17.9 | 1.9 | 0 | 0.0 | 20.4 | 0.0 |
| LF1GV-19 | 0 | 0.0 | 21.0 | 0.3 | 38 | 1.9 | 13.4 | 4.6 | 0 | 0.0 | 20.3 | 0.0 |
| LF1GV-20 | 0 | 0.0 | 21.2 | 0.2 | 67 | 3.3 | 14.5 | 3.0 | 0 | 0.0 | 20.4 | 0.0 |
| LF1GV-21 | 0 | 0.0 | 20.3 | 0.2 | 64 | 3.2 | 17.0 | 2.5 | 0 | 0.0 | 19.7 | 0.2 |
| LF1GV-22 | 0 | 0.0 | 20.4 | 0.2 | >100 | 5.7 | 5.2 | 13.7 | 0 | 0.0 | 19.7 | 0.4 |
| LF1GV-23 | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned |
| LF1GV-24 | 12 | 0.6 | 21.0 | 0.6 | 0 | 0.0 | 20.7 | 0.2 | 3 | 0.1 | 19.0 | 0.8 |
| LF1GV-25 | 8 | 0.4 | 21.1 | 0.5 | 0 | 0.0 | 20.0 | 0.7 | 0 | 0.0 | 19.4 | 0.0 |
| LF1GV-26 | 0 | 0.0 | 21.2 | 0.0 | 0 | 0.0 | 21.0 | 0.0 | 0 | 0.0 | 19.4 | 0.0 |
| LF1GV-27 | 0 | 0.0 | 21.4 | 0.1 | 1 | 0.0 | 20.3 | 0.1 | 0 | 0.0 | 19.2 | 0.0 |
| LF1GV-28 | 0 | 0.0 | 21.4 | 0.1 | 0 | 0.0 | 20.8 | 0.0 | 0 | 0.0 | 19.6 | 0.0 |
| LF1GV-29 | 0 | 0.0 | 21.4 | 0.1 | 0 | 0.0 | 19.3 | 1.2 | 0 | 0.0 | 19.3 | 0.0 |
| LF1GV-30 | 0 | 0.0 | 21.4 | 0.1 | 0 | 0.0 | 21.1 | 0.0 | 0 | 0.0 | 18.8 | 0.5 |
| LF1GV-31 | 0 | 0.0 | 21.4 | 0.1 | 0 | 0.0 | 20.9 | 0.0 | 0 | 0.0 | 6.4 | 3.1 |

**Table 2-1**
**LF001 (Landfill 1 AOC) Gas Monitoring Results**

| Sample Location | 20-Oct-09 | | | | 1-Feb-10 | | | | 5-May-10 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Barometric Pressure (in.) = 29.50-29.61 | | | | Barometric Pressure (in.) = 29.45-29.50 | | | | Barometric Pressure (in.) = 29.04-29.23 | | | |
| | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) |
| LF1GMP-01 | >100 | 28.5 | 5.9 | 17.8 | >100 | 45.5 | 2.1 | 20.6 | >100 | 32.4 | 2.5 | 18.8 |
| LF1GMP-02 | 0 | 0.0 | 20.8 | 0.1 | 0 | 0.0 | 14.4 | 2.1 | >100 | 8.1 | 0.0 | 12.8 |
| LF1GMP-03 | >100 | 14.8 | 10.2 | 10.7 | >100 | 5.7 | 8.1 | 8.1 | >100 | 18.2 | 0.0 | 22.1 |
| LF1GMP-04 | >100 | 55.6 | 0.0 | 43.4 | 10 | 0.5 | 14.3 | 4.5 | >100 | 17.6 | 0.0 | 24.2 |
| LF1GMP-06 | >100 | 84.0 | 0.0 | 6.7 | >100 | 70.8 | 0.0 | 4.3 | >100 | 44.8 | 0.0 | 6.3 |
| LF1GMP-08 | 0 | 0.0 | 19.9 | 0.6 | 0 | 0.0 | 20.5 | 1.1 | 0 | 0.0 | 16.3 | 2.5 |
| LF1GMP-09 | >100 | 45.0 | 0.0 | 21.3 | 47 | 2.4 | 7.7 | 4.0 | >100 | 11.2 | 0.0 | 12.5 |
| LF1GMP-10 | >100 | 6.1 | 11.8 | 5.8 | >100 | 9.0 | 6.8 | 10.7 | >100 | 10.2 | 0.5 | 15.1 |
| LF1GMP-11 | 0 | 0.0 | 2.0 | 0.2 | 0 | 0.0 | 23.8 | 0.1 | 0 | 0.0 | 16.1 | 2.3 |
| LF1GMP-12 | 0 | 0.0 | 20.8 | 2.0 | 0 | 0.0 | 21.4 | 1.5 | 0 | 0.0 | 18.5 | 1.5 |
| LF1GMP-13 | 0 | 0.0 | 19.4 | 0.0 | 0 | 0.0 | 18.1 | 1.3 | 0 | 0.0 | 15.1 | 2.2 |
| LF1GMP-14 | 0 | 0.0 | 20.9 | 0.9 | 0 | 0.0 | 21.6 | 0.6 | 0 | 0.0 | 19.0 | 0.5 |
| LF1GMP-15 | 0 | 0.0 | 19.0 | 0.6 | 0 | 0.0 | 22.3 | 0.1 | 0 | 0.0 | 19.2 | 0.5 |
| LF1GMP-16 | 0 | 0.0 | 20.0 | 1.3 | 0 | 0.0 | 19.9 | 1.5 | 0 | 0.0 | 19.1 | 1.6 |
| LF1GMP-17 | 0 | 0.0 | 19.3 | 0.2 | 0 | 0.0 | 19.6 | 1.5 | 0 | 0.0 | 19.4 | 1.5 |
| LF1GMP-18 | 0 | 0.0 | 20.4 | 1.1 | 0 | 0.0 | 22.0 | 0.1 | 0 | 0.0 | 19.6 | 0.2 |
| LF1GMP-19 | 0 | 0.0 | 19.9 | 9.0 | 0 | 0.0 | 22.0 | 0.3 | 0 | 0.0 | 18.6 | 0.7 |
| LF1GMP-20 | 0 | 0.0 | 3.4 | 0.0 | 2 | 0.1 | 22.7 | 0.1 | 0 | 0.0 | 19.6 | 0.0 |
| LF1GV-01 | 25 | 1.2 | 21.1 | 1.2 | 0 | 0.0 | 22.1 | 0.2 | >100 | 8.0 | 13.6 | 8.1 |
| LF1GV-02 | >100 | 11.3 | 19.9 | 14.0 | 2 | 0.1 | 21.3 | 0.5 | >100 | 7.6 | 12.5 | 9.8 |
| LF1GV-03 | 58 | 2.9 | 15.2 | 5.2 | 3 | 0.1 | 21.0 | 0.7 | >100 | 5.4 | 14.0 | 6.8 |
| LF1GV-04 | 19 | 1.0 | 19.0 | 1.9 | 0 | 0.0 | 22.0 | 0.3 | >100 | 15.2 | 0.3 | 20.9 |
| LF1GV-05 | >100 | 5.1 | 19.1 | 3.5 | >100 | 6.1 | 19.5 | 8.8 | >100 | 5.7 | 14.8 | 6.7 |
| LF1GV-06 | >100 | 8.8 | 7.6 | 14.8 | >100 | 7.4 | 2.9 | 17.1 | >100 | 8.2 | 6.8 | 12.2 |
| LF1GV-07 | 0 | 0.0 | 20.9 | 0.0 | >100 | 6.6 | 14.6 | 7.3 | 3 | 0.1 | 20.9 | 0.1 |
| LF1GV-08 | 0 | 0.0 | 20.8 | 0.0 | >100 | 6.5 | 17.0 | 4.8 | 13 | 0.6 | 20.6 | 0.5 |
| LF1GV-09 | 20 | 1.0 | 20.0 | 1.0 | 47 | 2.3 | 19.2 | 2.1 | 16 | 0.8 | 20.6 | 0.7 |
| LF1GV-10 | 0 | 0.0 | 20.9 | 0.0 | >100 | 5.0 | 8.4 | 11.8 | 2 | 0.1 | 20.7 | 0.2 |
| LF1GV-11 | 0 | 0.0 | 20.8 | 0.1 | 79 | 3.9 | 18.4 | 3.1 | 3 | 0.1 | 20.8 | 0.2 |
| LF1GV-12 | 0 | 0.0 | 20.8 | 0.2 | 60 | 3.0 | 16.9 | 4.2 | 3 | 0.2 | 20.6 | 0.3 |
| LF1GV-13 | 11 | 0.5 | 18.9 | 1.9 | >100 | 20.4 | 0.4 | 22.5 | 2 | 0.1 | 20.3 | 0.9 |
| LF1GV-14 | 0 | 0.0 | 20.9 | 0.1 | >100 | 5.0 | 17.5 | 3.9 | 46 | 2.3 | 19.7 | 1.3 |
| LF1GV-15 | 0 | 0.0 | 21.0 | 0.0 | 24 | 1.2 | 17.9 | 2.8 | 5 | 0.2 | 20.6 | 0.4 |
| LF1GV-16 | 0 | 0.0 | 21.0 | 0.0 | 6 | 0.3 | 18.3 | 1.9 | 0 | 0.0 | 20.9 | 0.0 |
| LF1GV-17 | 7 | 0.3 | 20.8 | 0.3 | 31 | 1.5 | 21.1 | 1.3 | 37 | 1.7 | 19.9 | 1.4 |
| LF1GV-18 | 0 | 0.0 | 20.9 | 0.1 | 22 | 1.1 | 20.6 | 1.4 | 21 | 1.0 | 20.0 | 0.9 |
| LF1GV-19 | 0 | 0.0 | 21.0 | 0.1 | 52 | 2.5 | 17.5 | 3.3 | 8 | 0.3 | 20.5 | 0.5 |
| LF1GV-20 | 0 | 0.0 | 21.1 | 0.0 | 58 | 2.9 | 18.7 | 1.9 | 28 | 1.4 | 20.1 | 0.6 |
| LF1GV-21 | 22 | 1.1 | 20.1 | 0.7 | >100 | 5.9 | 18.9 | 2.4 | 76 | 3.8 | 19.6 | 1.1 |
| LF1GV-22 | 4 | 0.2 | 21.0 | 0.1 | >100 | 7.3 | 16.0 | 5.5 | 12 | 0.6 | 20.6 | 0.5 |
| LF1GV-23 | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned |
| LF1GV-24 | 0 | 0.0 | 13.7 | 4.5 | 0 | 0.0 | 22.3 | 0.1 | 0 | 0.0 | 14.9 | 1.9 |
| LF1GV-25 | 3 | 0.1 | 20.5 | 0.3 | 0 | 0.0 | 22.2 | 0.1 | 0 | 0.0 | 16.1 | 2.8 |
| LF1GV-26 | 77 | 3.9 | 19.9 | 3.2 | 0 | 0.0 | 22.1 | 0.2 | 0 | 0.0 | 19.8 | 0.1 |
| LF1GV-27 | >100 | 9.2 | 14.1 | 6.9 | 0 | 0.0 | 21.8 | 0.1 | 0 | 0.0 | 19.6 | 0.2 |
| LF1GV-28 | 8 | 0.4 | 20.7 | 0.4 | 0 | 0.0 | 22.0 | 0.1 | 0 | 0.0 | 17.7 | 1.4 |
| LF1GV-29 | 0 | 0.0 | 21.1 | 0.0 | 0 | 0.0 | 19.6 | 1.6 | 0 | 0.0 | 19.9 | 0.1 |
| LF1GV-30 | 0 | 0.0 | 21.1 | 0.0 | 0 | 0.0 | 21.9 | 0.1 | 0 | 0.0 | 19.6 | 0.3 |
| LF1GV-31 | 0 | 0.0 | 20.6 | 0.4 | 0 | 0.0 | 21.8 | 0.1 | 0 | 0.0 | 14.2 | 4.1 |

**Table 2-1**
**LF001 (Landfill 1 AOC) Gas Monitoring Results**

| Sample Location | 31-Aug-10 | | | | 26-Oct-10 | | | | 12-May-11 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Barometric Pressure (in.) = 29.40-29.29 | | | | Barometric Pressure (in.) = 29.13-29.20 | | | | Barometric Pressure (in.) = 29.41-29.21 | | | |
| | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) |
| LF1GMP-01 | >100 | 52.5 | 0.9 | 24.6 | >100 | 48.4 | 2.4 | 24.7 | >100 | 36.9 | 0.8 | 22.2 |
| LF1GMP-02 | >100 | 28.6 | 0.1 | 18.1 | 26 | 1.3 | 7.9 | 3.6 | >100 | 11.7 | 2.6 | 12.9 |
| LF1GMP-03 | >100 | 43.7 | 0.1 | 34.6 | >100 | 46.1 | 0.8 | 34.0 | >100 | 25.9 | 0.0 | 25.4 |
| LF1GMP-04 | >100 | 53.8 | 0.1 | 40.9 | >100 | 24.8 | 8.6 | 20.4 | >100 | 32.7 | 0.0 | 27.4 |
| LF1GMP-06 | >100 | 79.5 | 0.3 | 8.9 | >100 | 24.2 | 12.9 | 3.5 | >100 | 70.1 | 0.0 | 3.5 |
| LF1GMP-08 | 0 | 0.0 | 7.4 | 8.4 | 0 | 0.0 | 18.8 | 0.8 | 0 | 0.0 | 14.4 | 3.4 |
| LF1GMP-09 | >100 | 45.7 | 0.3 | 22.9 | 60 | 3.0 | 17.5 | 1.8 | >100 | 20.5 | 1.1 | 7.6 |
| LF1GMP-10 | >100 | 18.1 | 0.3 | 21.6 | 0 | 0.0 | 18.8 | 0.5 | >100 | 11.2 | 0.6 | 15.9 |
| LF1GMP-11 | 0 | 0.0 | 15.2 | 3.3 | 0 | 0.0 | 20.1 | 0.4 | 0 | 0.0 | 17.1 | 1.1 |
| LF1GMP-12 | 0 | 0.0 | 17.9 | 2.3 | 0 | 0.0 | 19.9 | 0.7 | 0 | 0.0 | 19.1 | 0.5 |
| LF1GMP-13 | 0 | 0.0 | 7.4 | 7.1 | 0 | 0.0 | 19.1 | 0.4 | 0 | 0.0 | 13.5 | 1.7 |
| LF1GMP-14 | 0 | 0.0 | 15.6 | 2.0 | 0 | 0.0 | 18.9 | 0.4 | 0 | 0.0 | 18.4 | 0.4 |
| LF1GMP-15 | 0 | 0.0 | 18.6 | 1.3 | 0 | 0.0 | 18.6 | 0.8 | 0 | 0.0 | 18.8 | 1.3 |
| LF1GMP-16 | 0 | 0.0 | 17.7 | 2.5 | 0 | 0.0 | 18.7 | 1.7 | 0 | 0.0 | 18.7 | 1.4 |
| LF1GMP-17 | 0 | 0.0 | 17.5 | 2.5 | 1 | 0.1 | 19.7 | 0.8 | 0 | 0.0 | 18.4 | 1.4 |
| LF1GMP-18 | 0 | 0.0 | 17.5 | 2.4 | 0 | 0.0 | 19.6 | 1.0 | 0 | 0.0 | 19.7 | 0.0 |
| LF1GMP-19 | 53 | 2.6 | 7.1 | 5.2 | 0 | 0.0 | 20.2 | 0.3 | 0 | 0.0 | 17.0 | 0.4 |
| LF1GMP-20 | 0 | 0.0 | 20.1 | 0.0 | 0 | 0.0 | 20.3 | 0.3 | 0 | 0.0 | 19.9 | 0.0 |
| LF1GV-01 | >100 | 26.3 | 8.8 | 23.2 | 9 | 0.5 | 15.4 | 6.4 | >100 | 7.2 | 15.9 | 5.9 |
| LF1GV-02 | >100 | 11.8 | 14.7 | 9.6 | 32 | 1.6 | 15.3 | 6.7 | >100 | 14.0 | 10.5 | 12.7 |
| LF1GV-03 | >100 | 27.5 | 8.0 | 21.0 | >100 | 8.5 | 12.9 | 9.1 | >100 | 32.7 | 0.0 | 28.6 |
| LF1GV-04 | >100 | 24.2 | 5.5 | 22.2 | >100 | 10.3 | 9.7 | 13.3 | >100 | 20.8 | 4.4 | 20.4 |
| LF1GV-05 | >100 | 23.7 | 10.0 | 19.3 | 17 | 0.9 | 14.8 | 7.6 | >100 | 14.5 | 13.5 | 12.3 |
| LF1GV-06 | >100 | 32.8 | 4.3 | 25.3 | 56 | 2.8 | 10.8 | 13.2 | >100 | 20.3 | 7.9 | 17.8 |
| LF1GV-07 | >100 | 16.1 | 13.6 | 14.2 | 15 | 0.9 | 15.7 | 6.4 | >100 | 12.6 | 15.0 | 8.4 |
| LF1GV-08 | >100 | 9.5 | 16.7 | 6.2 | 14 | 0.7 | 15.7 | 5.1 | >100 | 6.6 | 17.8 | 4.3 |
| LF1GV-09 | >100 | 9.8 | 16.4 | 6.8 | 8 | 0.4 | 15.4 | 5.7 | >100 | 10.7 | 16.6 | 4.6 |
| LF1GV-10 | >100 | 15.4 | 13.4 | 13.0 | 76 | 3.8 | 11.8 | 13.4 | >100 | 11.3 | 14.0 | 9.6 |
| LF1GV-11 | >100 | 5.2 | 18.0 | 3.9 | 11 | 0.6 | 15.9 | 5.6 | >100 | 8.4 | 17.2 | 4.5 |
| LF1GV-12 | >100 | 14.5 | 13.1 | 12.4 | 28 | 1.4 | 14.4 | 8.0 | 81 | 4.0 | 18.3 | 4.1 |
| LF1GV-13 | >100 | 13.5 | 12.8 | 11.4 | 90 | 4.3 | 9.8 | 14.6 | >100 | 13.0 | 11.3 | 10.7 |
| LF1GV-14 | >100 | 5.0 | 18.2 | 3.5 | 11 | 0.6 | 15.2 | 5.9 | >100 | 6.7 | 16.9 | 4.3 |
| LF1GV-15 | >100 | 6.5 | 16.6 | 6.9 | 0 | 0.0 | 16.8 | 3.4 | 77 | 4.0 | 17.5 | 3.6 |
| LF1GV-16 | >100 | 8.8 | 14.0 | 7.5 | 34 | 1.7 | 11.2 | 9.6 | 62 | 3.5 | 15.1 | 4.7 |
| LF1GV-17 | >100 | 5.8 | 17.5 | 5.1 | 17 | 0.9 | 15.4 | 6.2 | >100 | 6.0 | 17.7 | 4.0 |
| LF1GV-18 | >100 | 9.3 | 15.9 | 6.9 | 13 | 0.7 | 15.7 | 4.8 | 74 | 3.7 | 18.4 | 2.9 |
| LF1GV-19 | >100 | 15.4 | 12.5 | 10.3 | 63 | 3.1 | 10.8 | 10.0 | >100 | 9.9 | 14.2 | 7.2 |
| LF1GV-20 | >100 | 10.1 | 13.5 | 6.5 | 62 | 3.1 | 9.9 | 9.5 | >100 | 11.2 | 11.8 | 7.0 |
| LF1GV-21 | >100 | 17.5 | 14.0 | 6.7 | 47 | 2.4 | 13.0 | 6.6 | >100 | 19.5 | 12.5 | 7.1 |
| LF1GV-22 | >100 | 8.6 | 15.9 | 6.8 | 34 | 1.9 | 13.7 | 8.2 | >100 | 7.6 | 15.7 | 5.2 |
| LF1GV-23 | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned |
| LF1GV-24 | >100 | 18.9 | 0.4 | 21.3 | 0 | 0.0 | 19.6 | 0.5 | 0 | 0.0 | 2.6 | 10.9 |
| LF1GV-25 | >100 | 26.9 | 0.2 | 26.5 | 39 | 1.9 | 17.0 | 3.2 | 5 | 0.8 | 13.1 | 4.4 |
| LF1GV-26 | >100 | 10.8 | 12.0 | 10.4 | 68 | 3.4 | 17.8 | 3.2 | 0 | 0.0 | 20.5 | 0.0 |
| LF1GV-27 | 33 | 1.7 | 18.7 | 2.9 | >100 | 10.7 | 13.6 | 8.0 | 53 | 2.2 | 15.8 | 4.4 |
| LF1GV-28 | 5 | 0.2 | 19.7 | 0.3 | 11 | 0.6 | 20.2 | 0.4 | 0 | 0.0 | 20.4 | 0.0 |
| LF1GV-29 | 26 | 1.3 | 17.8 | 2.4 | >100 | 8.8 | 11.4 | 8.2 | 0 | 0.0 | 20.4 | 0.0 |
| LF1GV-30 | >100 | 8.6 | 10.4 | 11.7 | 0 | 0.0 | 20.2 | 0.4 | 0 | 0.0 | 20.6 | 0.0 |
| LF1GV-31 | >100 | 5.6 | 9.5 | 9.0 | 0 | 0.0 | 19.5 | 0.7 | 0 | 0.0 | 19.3 | 1.2 |

**Table 2-1**
**LF001 (Landfill 1 AOC) Gas Monitoring Results**

| Sample Location | 18-Oct-11 | | | | 7-May-12 | | | | 4-Oct-12 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Barometric Pressure (in.) = 29.11-29.14 | | | | Barometric Pressure (in.) = 29.02-29.34 | | | | Barometric Pressure (in.) = 29.49-29.56 | | | |
| | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) |
| LF1GMP-01 | 0 | 0.0 | 21.2 | 0.0 | >100 | 20.4 | 0.9 | 22.5 | >100 | 30.5 | 3.9 | 19.4 |
| LF1GMP-02 | 0 | 0.0 | 21.2 | 0.0 | >100 | 21.7 | 0.0 | 13.9 | >100 | 16.3 | 2.3 | 9.7 |
| LF1GMP-03 | >100 | 44.3 | 0.6 | 35.2 | >100 | 24.3 | 0.0 | 28.1 | >100 | 38.2 | 1.3 | 30.8 |
| LF1GMP-04 | >100 | 44.6 | 0.4 | 39.5 | >100 | 31.4 | 0.0 | 28.4 | 56 | 2.8 | 19.3 | 3.1 |
| LF1GMP-06 | 0 | 0.0 | 20.8 | 0.2 | >100 | 52.9 | 0.0 | 5.0 | >100 | 77.3 | 0.2 | 8.7 |
| LF1GMP-08 | 0 | 0.0 | 20.0 | 1.0 | 0 | 0.0 | 13.4 | 3.4 | 0 | 0.0 | 20.6 | 0.4 |
| LF1GMP-09 | 59 | 2.8 | 17.4 | 1.8 | >100 | 19.2 | 0.0 | 11.5 | >100 | 43.5 | 1.5 | 24.4 |
| LF1GMP-10 | >100 | 16.2 | 2.1 | 18.1 | >100 | 13.0 | 0.2 | 15.1 | 53 | 2.5 | 17.1 | 4.1 |
| LF1GMP-11 | 0 | 0.0 | 20.3 | 0.8 | 0 | 0.0 | 17.4 | 2.7 | 0 | 0.0 | 20.9 | 0.2 |
| LF1GMP-12 | 0 | 0.0 | 20.2 | 1.6 | 0 | 0.0 | 20.5 | 1.6 | 0 | 0.0 | 20.7 | 0.6 |
| LF1GMP-13 | 0 | 0.0 | 12.4 | 4.4 | 0 | 0.0 | 18.3 | 1.7 | 0 | 0.0 | 20.5 | 0.3 |
| LF1GMP-14 | 0 | 0.0 | 19.6 | 0.6 | 0 | 0.0 | 21.5 | 0.3 | 0 | 0.0 | 20.7 | 0.7 |
| LF1GMP-15 | 0 | 0.0 | 20.6 | 0.6 | 0 | 0.0 | 21.2 | 0.6 | 0 | 0.0 | 20.0 | 0.9 |
| LF1GMP-16 | 0 | 0.0 | 21.1 | 0.0 | 0 | 0.0 | 22.0 | 0.0 | 0 | 0.0 | 20.7 | 0.2 |
| LF1GMP-17 | 0 | 0.0 | 21.1 | 0.0 | 0 | 0.0 | 18.3 | 1.7 | 0 | 0.0 | 20.7 | 0.1 |
| LF1GMP-18 | 0 | 0.0 | 21.0 | 0.5 | 0 | 0.0 | 20.5 | 1.7 | 0 | 0.0 | 15.0 | 3.4 |
| LF1GMP-19 | 0 | 0.0 | 21.2 | 0.1 | 0 | 0.0 | 20.4 | 0.5 | 0 | 0.0 | 17.9 | 1.9 |
| LF1GMP-20 | 0 | 0.0 | 21.4 | 0.0 | 0 | 0.0 | 21.9 | 0.0 | 0 | 0.0 | 21.2 | 0.0 |
| LF1GV-01 | 0 | 0.0 | 21.5 | 0.1 | >100 | 6.0 | 18.9 | 5.0 | >100 | 18.9 | 4.4 | 21.7 |
| LF1GV-02 | 0 | 0.0 | 20.2 | 1.6 | >100 | 7.4 | 17.9 | 6.4 | >100 | 25.4 | 2.6 | 26.3 |
| LF1GV-03 | 0 | 0.0 | 21.0 | 0.4 | 74 | 3.8 | 19.8 | 3.0 | >100 | 24.9 | 6.2 | 23.8 |
| LF1GV-04 | 0 | 0.0 | 21.2 | 0.3 | 0 | 0.0 | 22.0 | 0.1 | >100 | 17.0 | 12.9 | 14.7 |
| LF1GV-05 | 0 | 0.0 | 21.2 | 0.6 | >100 | 24.9 | 8.5 | 21.6 | >100 | 26.7 | 6.6 | 25.2 |
| LF1GV-06 | 0 | 0.0 | 21.4 | 0.2 | >100 | 25.5 | 2.3 | 26.0 | >100 | 20.7 | 3.1 | 23.9 |
| LF1GV-07 | 0 | 0.0 | 21.9 | 0.0 | >100 | 9.5 | 17.4 | 7.3 | >100 | 20.4 | 10.7 | 18.5 |
| LF1GV-08 | 0 | 0.0 | 21.8 | 0.0 | >100 | 22.4 | 11.8 | 12.4 | >100 | 13.2 | 14.4 | 8.4 |
| LF1GV-09 | 0 | 0.0 | 21.8 | 0.0 | >100 | 28.4 | 9.1 | 18.0 | >100 | 12.3 | 13.4 | 10.2 |
| LF1GV-10 | 0 | 0.0 | 21.6 | 0.1 | >100 | 17.8 | 11.9 | 16.9 | >100 | 33.3 | 2.5 | 31.5 |
| LF1GV-11 | 0 | 0.0 | 22.0 | 0.0 | >100 | 7.3 | 18.3 | 5.4 | >100 | 18.5 | 9.2 | 16.2 |
| LF1GV-12 | 0 | 0.0 | 22.0 | 0.0 | >100 | 32.6 | 8.5 | 23.7 | >100 | 15.0 | 9.7 | 15.8 |
| LF1GV-13 | 19 | 0.9 | 17.0 | 4.1 | >100 | 18.6 | 11.4 | 14.7 | >100 | 21.0 | 8.2 | 18.5 |
| LF1GV-14 | 6 | 0.3 | 21.1 | 0.7 | >100 | 9.8 | 16.4 | 6.8 | 62 | 3.0 | 18.8 | 3.0 |
| LF1GV-15 | 0 | 0.0 | 21.8 | 0.1 | >100 | 8.3 | 17.3 | 4.7 | 25 | 1.2 | 19.5 | 1.5 |
| LF1GV-16 | 0 | 0.0 | 21.9 | 0.0 | >100 | 8.5 | 15.7 | 5.7 | 0 | 0.0 | 21.1 | 0.0 |
| LF1GV-17 | 10 | 0.5 | 20.2 | 1.4 | >100 | 23.2 | 10.9 | 14.9 | 0 | 0.0 | 21.2 | 0.0 |
| LF1GV-18 | 0 | 0.0 | 21.6 | 0.1 | >100 | 6.4 | 18.5 | 4.1 | 0 | 0.0 | 21.0 | 0.1 |
| LF1GV-19 | 0 | 0.0 | 20.0 | 1.8 | >100 | 7.7 | 17.8 | 4.4 | 0 | 0.0 | 21.2 | 0.0 |
| LF1GV-20 | 0 | 0.0 | 21.4 | 0.1 | >100 | 6.0 | 18.3 | 2.8 | 0 | 0.0 | 21.2 | 0.0 |
| LF1GV-21 | 0 | 0.0 | 21.3 | 0.1 | >100 | 10.3 | 18.5 | 2.7 | 0 | 0.1 | 21.1 | 0.0 |
| LF1GV-22 | 0 | 0.0 | 21.3 | 0.3 | >100 | 17.2 | 11.6 | 13.2 | 0 | 0.0 | 21.2 | 0.0 |
| LF1GV-23 | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned |
| LF1GV-24 | 0 | 0.0 | 21.1 | 0.0 | >100 | 5.8 | 6.1 | 7.6 | >100 | 14.7 | 1.6 | 22.7 |
| LF1GV-25 | 0 | 0.0 | 21.5 | 0.0 | 2 | 0.1 | 22.0 | 0.1 | 6 | 0.3 | 20.9 | 0.3 |
| LF1GV-26 | 0 | 0.0 | 21.6 | 0.0 | 0 | 0.0 | 21.9 | 0.0 | 0 | 0.0 | 21.1 | 0.0 |
| LF1GV-27 | 0 | 0.0 | 21.3 | 0.3 | >100 | 12.2 | 12.3 | 8.8 | 0 | 0.0 | 21.1 | 0.0 |
| LF1GV-28 | 0 | 0.0 | 21.6 | 0.0 | 0 | 0.0 | 21.9 | 0.0 | 0 | 0.0 | 21.1 | 0.0 |
| LF1GV-29 | 0 | 0.0 | 21.6 | 0.0 | 0 | 0.0 | 22.0 | 0.0 | 0 | 0.0 | 21.1 | 0.0 |
| LF1GV-30 | 0 | 0.0 | 21.5 | 0.5 | 2 | 0.2 | 21.9 | 0.0 | 0 | 0.0 | 21.2 | 0.0 |
| LF1GV-31 | 0 | 0.0 | 20.1 | 1.3 | 0 | 0.0 | 20.5 | 0.2 | 4 | 0.2 | 20.5 | 0.6 |

**Table 2-1**
**LF001 (Landfill 1 AOC) Gas Monitoring Results**

| Sample Location | 29-Apr-13 | | | | 21-Oct-13 | | | | 7-May-14 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Barometric Pressure (in.) = 29.59-29.63 | | | | Barometric Pressure (in.) = 29.35-29.41 | | | | Barometric Pressure (in.) = 29.51-29.62 | | | |
| | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) |
| LF1GMP-01 | 0 | 0.0 | 20.8 | 0.1 | >100 | 23.5 | 4.9 | 16.7 | 0 | 0.0 | 20.8 | 0.0 |
| LF1GMP-02 | 0 | 0.0 | 20.9 | 0.1 | 61 | 3.0 | 16.9 | 3.0 | 0 | 0.0 | 20.8 | 0.0 |
| LF1GMP-03 | 0 | 0.0 | 20.9 | 0.0 | >100 | 21.9 | 8.2 | 15.8 | 55 | 2.7 | 8.6 | 6.0 |
| LF1GMP-04 | 0 | 0.0 | 20.8 | 0.2 | >100 | 21.8 | 0.2 | 25.6 | 0 | 0.0 | 20.8 | 0.0 |
| LF1GMP-06 | >100 | 25.0 | 9.2 | 3.1 | >100 | 7.8 | 11.4 | 2.4 | 3 | 0.1 | 20.5 | 0.1 |
| LF1GMP-08 | 0 | 0.0 | 18.8 | 1.6 | 28 | 1.3 | 0.9 | 13.2 | 0 | 0.0 | 20.5 | 0.1 |
| LF1GMP-09 | 3 | 0.1 | 20.7 | 0.2 | >100 | 44.2 | 0.4 | 18.5 | 43 | 2.1 | 17.8 | 0.7 |
| LF1GMP-10 | 25 | 1.2 | 18.8 | 0.5 | >100 | 13.9 | 2.1 | 11.7 | 29 | 1.4 | 16.8 | 0.3 |
| LF1GMP-11 | 0 | 0.0 | 18.6 | 1.9 | 0 | 0.0 | 18.5 | 1.8 | 0 | 0.0 | 20.3 | 0.4 |
| LF1GMP-12 | 0 | 0.0 | 19.7 | 1.2 | 0 | 0.0 | 19.7 | 1.2 | 0 | 0.0 | 19.6 | 1.5 |
| LF1GMP-13 | 0 | 0.0 | 19.9 | 0.8 | 0 | 0.0 | 20.0 | 1.3 | 0 | 0.0 | 19.5 | 0.7 |
| LF1GMP-14 | 0 | 0.0 | 20.9 | 0.0 | 0 | 0.0 | 13.1 | 4.5 | 0 | 0.0 | 16.7 | 1.8 |
| LF1GMP-15 | 0 | 0.0 | 17.5 | 1.6 | 0 | 0.0 | 18.8 | 1.1 | 0 | 0.0 | 19.7 | 0.6 |
| LF1GMP-16 | 0 | 0.0 | 19.8 | 1.3 | 0 | 0.0 | 19.2 | 1.2 | 0 | 0.0 | 20.1 | 1.0 |
| LF1GMP-17 | 0 | 0.0 | 19.7 | 1.3 | 0 | 0.0 | 20.8 | 0.7 | 0 | 0.0 | 20.8 | 0.2 |
| LF1GMP-18 | 0 | 0.0 | 20.8 | 0.1 | 0 | 0.0 | 19.6 | 1.9 | 0 | 0.0 | 20.9 | 0.0 |
| LF1GMP-19 | 0 | 0.0 | 20.9 | 0.0 | 0 | 0.0 | 20.8 | 0.4 | 0 | 0.0 | 20.7 | 0.0 |
| LF1GMP-20 | 0 | 0.0 | 20.8 | 0.0 | 0 | 0.0 | 20.7 | 0.0 | 0 | 0.0 | 20.7 | 0.0 |
| LF1GV-01 | 0 | 0.0 | 20.9 | 0.0 | 79 | 3.9 | 16.2 | 6.3 | 3 | 0.1 | 20.0 | 0.3 |
| LF1GV-02 | 0 | 0.0 | 20.8 | 0.0 | >100 | 6.4 | 12.1 | 10.5 | 7 | 0.3 | 19.0 | 1.3 |
| LF1GV-03 | 0 | 0.0 | 20.7 | 0.0 | 59 | 3.0 | 15.4 | 5.8 | 7 | 0.4 | 17.9 | 2.5 |
| LF1GV-04 | 0 | 0.0 | 20.7 | 0.0 | >100 | 6.7 | 8.8 | 12.5 | 14 | 0.7 | 15.2 | 6.4 |
| LF1GV-05 | 0 | 0.0 | 21.1 | 0.0 | >100 | 6.2 | 15.2 | 7.6 | 5 | 0.2 | 19.7 | 0.4 |
| LF1GV-06 | 0 | 0.0 | 21.1 | 0.0 | >100 | 6.8 | 8.2 | 12.8 | 9 | 0.4 | 10.3 | 7.2 |
| LF1GV-07 | 0 | 0.0 | 21.1 | 0.0 | 68 | 3.9 | 17.9 | 4.2 | >100 | 5.2 | 11.7 | 9.2 |
| LF1GV-08 | 5 | 0.2 | 21.1 | 0.1 | >100 | 7.3 | 16.0 | 6.9 | 46 | 2.3 | 17.6 | 2.9 |
| LF1GV-09 | 2 | 0.1 | 21.1 | 0.1 | 79 | 4.0 | 15.8 | 3.7 | 63 | 3.1 | 15.7 | 4.0 |
| LF1GV-10 | 0 | 0.0 | 20.9 | 0.0 | >100 | 9.0 | 9.7 | 12.4 | 3 | 0.1 | 16.1 | 2.8 |
| LF1GV-11 | 0 | 0.0 | 20.9 | 0.0 | >100 | 6.0 | 16.6 | 4.0 | 29 | 1.4 | 17.9 | 1.4 |
| LF1GV-12 | 0 | 0.0 | 21.1 | 0.0 | >100 | 5.2 | 9.5 | 11.1 | 7 | 0.3 | 16.9 | 2.4 |
| LF1GV-13 | 1 | 0.1 | 21.0 | 0.0 | >100 | 5.3 | 16.8 | 4.6 | 82 | 4.1 | 13.6 | 5.7 |
| LF1GV-14 | 0 | 0.0 | 21.0 | 0.0 | 47 | 2.4 | 19.0 | 2.1 | 87 | 4.4 | 13.9 | 5.2 |
| LF1GV-15 | 0 | 0.0 | 21.0 | 0.0 | 20 | 1.0 | 20.4 | 1.0 | 5 | 0.2 | 18.1 | 1.3 |
| LF1GV-16 | 0 | 0.0 | 21.2 | 0.0 | 65 | 3.3 | 9.1 | 8.6 | 0 | 0.0 | 16.8 | 1.9 |
| LF1GV-17 | 0 | 0.0 | 21.1 | 0.0 | 80 | 4.2 | 17.9 | 3.7 | 75 | 4.0 | 17.1 | 2.7 |
| LF1GV-18 | 0 | 0.0 | 21.3 | 0.0 | 93 | 4.7 | 15.5 | 5.3 | >100 | 8.0 | 5.7 | 11.7 |
| LF1GV-19 | 0 | 0.0 | 21.2 | 0.0 | >100 | 10.5 | 5.3 | 14.9 | 45 | 2.3 | 8.3 | 9.7 |
| LF1GV-20 | 0 | 0.0 | 21.2 | 0.0 | >100 | 5.3 | 16.6 | 3.7 | 30 | 1.5 | 17.5 | 1.3 |
| LF1GV-21 | 2 | 0.1 | 21.1 | 0.0 | >100 | 9.7 | 15.3 | 4.9 | >100 | 6.0 | 14.8 | 3.6 |
| LF1GV-22 | 0 | 0.0 | 21.1 | 0.0 | >100 | 6.2 | 15.1 | 6.9 | >100 | 7.9 | 9.3 | 9.1 |
| LF1GV-23 | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned |
| LF1GV-24 | 0 | 0.0 | 19.3 | 0.9 | 0 | 0.0 | 17.2 | 2.0 | 0 | 0.0 | 19.1 | 1.2 |
| LF1GV-25 | 0 | 0.0 | 20.9 | 0.1 | 3 | 0.2 | 20.9 | 0.4 | 0 | 0.0 | 20.8 | 0.0 |
| LF1GV-26 | 0 | 0.0 | 21.1 | 0.0 | 9 | 0.5 | 20.4 | 0.4 | 0 | 0.0 | 20.8 | 0.0 |
| LF1GV-27 | 0 | 0.0 | 20.4 | 0.4 | 0 | 0.0 | 20.5 | 1.1 | 0 | 0.0 | 20.9 | 0.0 |
| LF1GV-28 | 0 | 0.0 | 21.2 | 0.0 | 0 | 0.0 | 21.4 | 0.1 | 0 | 0.0 | 20.9 | 0.0 |
| LF1GV-29 | 0 | 0.0 | 21.1 | 0.0 | 0 | 0.0 | 17.9 | 1.8 | 0 | 0.0 | 20.8 | 0.2 |
| LF1GV-30 | 0 | 0.0 | 21.1 | 0.0 | 0 | 0.0 | 21.3 | 0.1 | 0 | 0.0 | 20.3 | 0.5 |
| LF1GV-31 | 0 | 0.0 | 19.9 | 0.6 | 0 | 0.0 | 20.5 | 0.5 | 0 | 0.0 | 20.6 | 0.4 |

**Table 2-1**
**LF001 (Landfill 1 AOC) Gas Monitoring Results**

| Sample Location | 18-Nov-14 | | | | 18-May-15 | | | | 14-Sep-15 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Barometric Pressure (in.) = | | | 29.49-29.51 | Barometric Pressure (in.) = | | | 29.28-29.62 | Barometric Pressure (in.) = | | | 29.36-29.54 |
| | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) |
| LF1GMP-01 | >100 | 23.0 | 4.1 | 17.2 | 0 | 0.0 | 20.8 | 0.0 | >100 | 25.4 | 0.1 | 24.1 |
| LF1GMP-02 | 0 | 0.0 | 14.8 | 2.4 | 0 | 0.0 | 20.2 | 0.0 | >100 | 31.6 | 0.0 | 15.2 |
| LF1GMP-03 | >100 | 25.6 | 0.0 | 16.1 | 31 | 1.8 | 18.5 | 3.7 | >100 | 40.8 | 0.0 | 36.6 |
| LF1GMP-04 | >100 | 36.1 | 1.4 | 14.8 | 0 | 0.0 | 21.2 | 0.0 | >100 | 47.3 | 0.0 | 41.5 |
| LF1GMP-06 | 0 | 0.0 | 19.7 | 0.6 | >100 | 32.2 | 8.1 | 3.6 | >100 | 77.0 | 0.1 | 7.3 |
| LF1GMP-08 | 0 | 0.0 | 20.1 | 0.1 | 0 | 0.0 | 21.3 | 0.0 | 0 | 0.0 | 15.3 | 4.4 |
| LF1GMP-09 | >100 | 8.1 | 12.3 | 5.8 | 0 | 0.0 | 21.0 | 0.0 | >100 | 34.9 | 0.1 | 20.6 |
| LF1GMP-10 | >100 | 10.3 | 0.9 | 14.4 | 0 | 0.0 | 20.8 | 0.0 | >100 | 14.1 | 2.0 | 18.5 |
| LF1GMP-11 | 0 | 0.0 | 20.9 | 0.6 | 0 | 0.0 | 21.2 | 0.0 | 1 | 0.0 | 14.2 | 6.4 |
| LF1GMP-12 | 0 | 0.0 | 20.9 | 0.2 | 0 | 0.0 | 20.4 | 0.8 | 2 | 0.1 | 20.0 | 0.7 |
| LF1GMP-13 | 0 | 0.0 | 20.7 | 1.3 | 0 | 0.0 | 19.8 | 1.0 | 1 | 0.0 | 19.6 | 1.0 |
| LF1GMP-14 | 0 | 0.0 | 18.8 | 0.7 | 0 | 0.0 | 20.9 | 0.0 | 0 | 0.0 | 17.4 | 2.9 |
| LF1GMP-15 | 0 | 0.0 | 19.1 | 0.0 | 0 | 0.0 | 20.8 | 0.1 | 0 | 0.0 | 19.6 | 1.2 |
| LF1GMP-16 | 0 | 0.0 | 19.4 | 0.1 | 0 | 0.0 | 20.3 | 1.0 | 0 | 0.0 | 20.3 | 0.2 |
| LF1GMP-17 | 0 | 0.0 | 18.7 | 0.5 | 0 | 0.0 | 20.0 | 1.5 | 1 | 0.0 | 20.4 | 0.1 |
| LF1GMP-18 | 0 | 0.0 | 18.0 | 1.1 | 0 | 0.0 | 20.9 | 0.0 | 1 | 0.0 | 13.1 | 0.8 |
| LF1GMP-19 | 0 | 0.0 | 20.1 | 0.0 | 0 | 0.0 | 21.2 | 0.0 | 3 | 0.1 | 18.7 | 1.5 |
| LF1GMP-20 | 0 | 0.0 | 19.9 | 1.2 | 0 | 0.0 | 21.3 | 0.0 | 1 | 0.0 | 20.4 | 0.1 |
| LF1GV-01 | >100 | 8.2 | 13.4 | 7.2 | >100 | 31.7 | 1.5 | 31.7 | 0 | 0.0 | 20.6 | 0.1 |
| LF1GV-02 | >100 | 6.2 | 16.8 | 5.0 | >100 | 5.7 | 16.6 | 6.7 | 0 | 0.0 | 20.7 | 0.0 |
| LF1GV-03 | 14 | 0.7 | 20.1 | 0.6 | >100 | 7.5 | 15.7 | 5.9 | 0 | 0.0 | 20.7 | 0.0 |
| LF1GV-04 | 0 | 0.0 | 20.3 | 0.0 | 0 | 0.0 | 21.2 | 0.0 | 0 | 0.0 | 20.7 | 0.0 |
| LF1GV-05 | 0 | 0.0 | 19.9 | 0.1 | 5 | 0.3 | 21.1 | 0.1 | 0 | 0.0 | 21.3 | 0.0 |
| LF1GV-06 | 0 | 0.0 | 21.2 | 0.0 | >100 | 18.9 | 7.3 | 20.3 | 1 | 0.0 | 20.5 | 0.0 |
| LF1GV-07 | 0 | 0.0 | 21.1 | 0.0 | 64 | 3.5 | 19.5 | 3.7 | 0 | 0.0 | 21.0 | 0.0 |
| LF1GV-08 | 22 | 1.5 | 14.8 | 5.3 | >100 | 14.8 | 15.5 | 10.3 | 0 | 0.0 | 21.3 | 0.0 |
| LF1GV-09 | 0 | 0.0 | 19.9 | 0.0 | >100 | 13.9 | 13.7 | 10.5 | 0 | 0.0 | 21.2 | 0.0 |
| LF1GV-10 | 0 | 0.0 | 19.7 | 0.1 | >100 | 5.3 | 17.8 | 5.7 | 1 | 0.1 | 21.1 | 0.0 |
| LF1GV-11 | 0 | 0.0 | 19.8 | 0.1 | >100 | 4.3 | 18.9 | 4.9 | 0 | 0.0 | 21.1 | 0.0 |
| LF1GV-12 | 0 | 0.0 | 20.1 | 0.0 | >100 | 6.5 | 17.6 | 6.8 | 0 | 0.0 | 20.5 | 0.0 |
| LF1GV-13 | 51 | 2.6 | 2.4 | 13.8 | >100 | 12.2 | 13.8 | 12.3 | 1 | 0.0 | 21.0 | 0.0 |
| LF1GV-14 | 0 | 0.0 | 20.1 | 0.0 | >100 | 11.4 | 14.7 | 8.4 | 0 | 0.0 | 20.7 | 0.0 |
| LF1GV-15 | 0 | 0.0 | 18.8 | 0.5 | 63 | 3.1 | 19.3 | 4.2 | 1 | 0.0 | 20.7 | 0.0 |
| LF1GV-16 | 0 | 0.0 | 19.1 | 0.0 | 17 | 0.9 | 20.1 | 2.6 | 0 | 0.0 | 20.7 | 0.0 |
| LF1GV-17 | 0 | 0.0 | 20.3 | 0.0 | >100 | 13.7 | 15.3 | 8.6 | 1 | 0.0 | 20.5 | 0.0 |
| LF1GV-18 | 0 | 0.0 | 18.9 | 0.7 | >100 | 15.4 | 16.4 | 7.2 | 1 | 0.0 | 20.6 | 0.0 |
| LF1GV-19 | 0 | 0.0 | 19.5 | 0.0 | >100 | 8.6 | 17.9 | 5.9 | 0 | 0.0 | 20.6 | 0.0 |
| LF1GV-20 | 0 | 0.0 | 19.4 | 0.0 | >100 | 17.9 | 9.5 | 9.3 | 0 | 0.0 | 20.6 | 0.0 |
| LF1GV-21 | 0 | 0.0 | 19.5 | 0.0 | >100 | 11.1 | 18.5 | 4.3 | 0 | 0.0 | 20.7 | 0.0 |
| LF1GV-22 | 0 | 0.0 | 20.2 | 0.0 | >100 | 10.6 | 16.5 | 6.6 | 1 | 0.0 | 20.5 | 0.0 |
| LF1GV-23 | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned | Abandoned |
| LF1GV-24 | 0 | 0.0 | 20.1 | 0.0 | >100 | 5.5 | 1.1 | 11.7 | 14 | 0.3 | 19.4 | 2.3 |
| LF1GV-25 | 0 | 0.0 | 20.0 | 0.9 | >100 | 10.5 | 5.2 | 8.9 | 0 | 0.1 | 20.2 | 0.0 |
| LF1GV-26 | 0 | 0.0 | 20.0 | 0.0 | 0 | 0.0 | 21.7 | 0.1 | 0 | 0.0 | 20.1 | 0.0 |
| LF1GV-27 | 0 | 0.0 | 18.7 | 0.8 | >100 | 9.5 | 9.3 | 12.4 | 5 | 0.7 | 21.3 | 0.0 |
| LF1GV-28 | 0 | 0.0 | 18.8 | 1.5 | 0 | 0.0 | 21.7 | 0.0 | 0 | 0.0 | 21.3 | 0.0 |
| LF1GV-29 | 0 | 0.0 | 21.0 | 0.0 | 2 | 0.1 | 21.5 | 0.0 | 0 | 0.0 | 21.2 | 0.0 |
| LF1GV-30 | 0 | 0.0 | 19.5 | 1.0 | 0 | 0.0 | 21.1 | 2.5 | 0 | 0.0 | 21.3 | 0.0 |
| LF1GV-31 | 0 | 0.0 | 20.0 | 0.0 | 0 | 0.0 | 17.3 | 3.0 | 0 | 0.0 | 20.1 | 0.9 |

**Table 2-2**

**LF001 (Landfill 1 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF1MW-5 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 12/8/2003 | 3/30/2004 | 6/28/2004 | 9/16/2004 | 12/14/2004 | 4/5/2005 | 6/22/2005 | 9/9/2005 | 12/21/2005 | 3/17/2006 | 6/19/2006 | 9/15/2006 | 12/18/2006 |
| Sample ID No. | | | LF1M0526AA | LF1M0526BA | LF1M0526CA | LF1M0526DA | LF1M0526EA | LF1M0526FA | LF1M0526GA | LF1M0526HA | LF1M0526IA | LF1M0526JA | LF1M0526KA | LF1M0526LA | LF1M0526MA |
| Depth to Water (ft) | | | 3.07 | 2.67 | 3.29 | 3.11 | 2.96 | 3.17 | 4.28 | 4.98 | 3.61 | 3.20 | 3.65 | 2.28 | 3.05 |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,1,2-Trichloroethane | 1 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,1-dichloroethane | 5* | 1 | 0.24 F | 0.22 F | 0.31 F | 0.3 F | 0.25 F | 0.24 F | 0.28 F | 0.33 F | U | U | U | 0.24 F | 0.170 F |
| 1,2,3-trichlorobenzene | 5 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,2,4-trimethylbenzene | 5* | 1 | **20** | **20** | **23** | **31** | **8.7** | 1.1 | 1.3 | U | 0.35 F | U | U | U | U |
| 1,2-dichloroethane | 0.6 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,2-dichlorobenzene | 3 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,2-dibromo-3-chloropropane | 0.04 | 2 | U | U | U | U | U | U | U | U | U | U | U | U | UJ |
| 1,3,5-trimethylbenzene | 5* | 1 | **7.6** | **7.4** | **6.2** | **6.3** | 1.2 | 0.3 F | U | 0.49 F | U | U | U | U | U |
| 1,3-dichlorobenzene | 3 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,4-dichlorobenzene | 3 | 0.5 | 1.7 | 1.5 | 1.6 | 1.6 | U | 0.86 | 0.82 | 0.87 | 0.79 | 0.76 | 0.53 | 0.65 F | 0.59 |
| acetone | 50 | 10 | 1.3 F | U | U | U | U | U | U | U | U | U | 1.5 F | U | U |
| benzene | 1 | 0.1 | **1.5** | **2.2** | **3.6** | **3.7** | **2.3** | **1.6** | **3.0** | **3.5** | **2.2** | **1.9** | **2.0** | **2.3** | **1.13** |
| bromodichloromethane | 50 | 0.5 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| bromoform | 50 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| carbon disulfide | 1,000 | 0.5 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| chlorobenzene | 5* | 0.5 | 2.2 | 2.8 | 3.6 | 3.6 | 2.3 | 1.4 | 2.3 | 2.7 | 1.8 | 1.7 | 1.8 | 2.02 | 1.12 |
| chloroethane | 5* | 1 | U | 0.2 F | 0.27 F | 0.25 F | 0.33 F | 0.25 F | 0.32 F | U | U | U | 0.2 F | U | 0.120 F |
| chloroform | 7 | 0.3 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| chloromethane | 5* | 1 | U | U | U | U | U | U | 0.23 F | U | U | U | U | U | U |
| cis-1,2-dichloroethene | 5* | 1 | 0.24 F | 0.26 F | U | 0.38 F | 0.3 F | 0.25 F | U | U | U | U | | U | U |
| dichlorodifluoromethane | 5* | 1 | U | 0.44 F | 0.4 F | 0.37 F | 0.34 F | U | 0.36 F | U | U | U | U | U | U |
| ethylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| isopropylbenzene | 5* | 1 | 0.39 F | U | 0.51 F | 0.51 F | U | U | 0.28 F | U | U | U | U | U | U |
| methylene chloride | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| methyl iodide | 5* | 0.5 | U | U | U | U | U | U | 0.22 F | U | U | U | U | U | U |
| n-propylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| m,p-xylene | 5* | 2 | **8.8** | 3.2 | **19** | **18** | 1.6 F | 0.42 F | 1.6 F | U | U | U | U | U | U |
| naphthalene | 10 | 1 | 0.29 F | 0.29 F | 0.41 F | 0.35 F | U | U | U | U | U | U | U | U | U |
| o-xylene | 5* | 1 | U | U | 0.27 F | U | U | U | U | U | U | U | U | U | U |
| p-isopropyltoluene | 5* | 1 | U | U | 0.36 F | 0.39 F | U | U | U | U | U | U | U | U | U |
| sec-butylbenzene | 5* | 1 | 0.61 F | U | 0.59 F | U | 0.29 F | U | 0.32 F | 0.36 F | U | U | U | U | U |
| tetrachloroethene | 5 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| tert-butylbenzene | 5* | 1 | U | U | 0.24 F | 0.25 F | U | U | U | U | U | U | U | U | U |
| trichloroethene (TCE) | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | 0.180 F |
| toluene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| trichlorofluoromethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| vinyl chloride | 2 | 1 | 0.24 F | 0.25 F | 0.3 F | 0.37 F | 0.33 F | U | 0.39 F | 0.7 F | 0.32 F | 0.34 F | U | 0.25 F | 0.160 F |
| **Total VOCs (µg/L)** | | | **45.11** | **38.76** | **60.66** | **67.37** | **17.94** | **6.42** | **11.73** | **9.36** | **5.46** | **4.7** | **6.03** | **5.72** | **3.28** |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 450 | 423 | 380 | 416 | 380 | 373 | 354 | 324 | 352 | 377 | 420 | 96 | 360 |
| ammonia | 2 | 0.2 | **2.6** | 1.9 | 1.9 | 2 | 1.1 | 1.9 | 1.6 | 1.8 | 1.8 | 1.8 B | 1.3 | **2.5** | **2.3** |
| BOD5 | -- | 2.4 | 4.5 | 5.1 | 5.8 | 3.7 | U | 6.5 | 3.6 | U | U | 3.2 | 14.5 | 5.5 | 4.2 |
| bromide | 2 | 0.5 | U | 0.27 F | 0.2 F | 0.19 F | U | U | U | U | 0.26 F | 0.48 F | 0.1 F | 0.11 F | 0.11 |
| COD | -- | 5 | U | 12.4 | U | U | U | U | 3.6 F | 19.7 | U | U | 31.1 B | 18 | 20 B |
| chloride | 250 | 1 | 15.9 | 13.8 | 13.6 | 11.5 | 9.1 | 9.4 | 8.3 | 4.4 | 10 | 10.2 | 9.7 | 9.2 | 9.4 |
| color | 15 | 5 | **150** | NA | NA | NA | NA | **100** | NA | NA | NA | **60** | NA | NA | NA |
| cyanide, Total | 200 | 0.02 | 0.048 J | NA | NA | NA | NA | U | NA | NA | NA | U | NA | NA | NA |
| hardness, Total | -- | 1 | 1,290 | 384 | 396 | 390 | 324 | 330 | 312 | 420 | 350 | 285 | 188 | 390 | 340 |
| nitrate | 10 | 1 | U | U | U | U | U | U | U | U | U | U | 0.03 F | 0.024 F | 0.032 F |
| TKN | 1 | 1 | **2.7** | **2.6** | **2.5** | **2.6** | **2.3** | **1.9** | **2.3** | **2.7** | **3.5** | **2.9** | U | **2.6** | **2.4** |
| sulfate | 250 | 1 | U | U | U | 0.74 F | 1.2 | U | 1.4 | 1.7 | 0.75 F | 0.46 F | 0.77 F | 0.6 F | 0.54 F |
| TDS | 500 | 10 | 485 | 428 | 453 | 450 | 395 | 398 | 339 | 349 | 370 | 396 | 392 | 430 | 390 |
| TOC | -- | 1 | 3.5 | 3.6 | 2 | 3.1 | 3.5 | 2.7 | 2.7 | 2.8 | 2 | 2.2 | 2.7 | 2.4 | 2.8 |

For notes, please refer to the end of the Table Section.

**Table 2-2**
**LF001 (Landfill 1 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF1MW-5 | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Date of Collection** | | | **4/4/2007** | **9/27/2007** | **4/2/2008** | **9/18/2008** | **4/17/2009** | **3/31/2010** | **6/16/2011** | **6/25/2012** | **6/10/2013** | **6/18/2014** | **6/24/2015** |
| **Sample ID No.** | | | **LF1M0526NA** | **LF1M0526OA** | **LF1M0526PA** | **LF1M0526QA** | **LF1M0526RA** | **LF1M0526SA** | **LF1M0526TA** | **LF1M0526UA** | **LF1M0526VA** | **LF1M0526VA** | **LF1M0526WA** |
| **Depth to Water (ft)** | | | **2.75** | **3.83** | **2.80** | **3.94** | **2.88** | **2.55** | **3.00** | **3.40** | **3.15** | **3.11** | **3.08** |
| **VOCs (µg/L)** | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U |
| 1,1,2-Trichloroethane | 1 | 1 | U | U | U | U | U | U | U | U | U | U | **1.3** |
| 1,1-dichloroethane | 5* | 1 | 0.140 F | 0.180 F | U | 0.230 F | 0.150 F | 0.150 F | 0.19 F | 0.19 J | 0.17 J | 0.16 J | U |
| 1,2,3-trichlorobenzene | 5 | 1 | U | U | U | U | U | U | U | U | U | U | U |
| 1,2,4-trimethylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U |
| 1,2-dichloroethane | 0.6 | 1 | U | U | U | U | U | U | U | U | U | U | U |
| 1,2-dichlorobenzene | 3 | 1 | U | U | U | U | U | U | U | U | U | U | U |
| 1,2-dibromo-3-chloropropane | 0.04 | 2 | U | U | U | U | U | U | U | U | U | U | U |
| 1,3,5-trimethylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U |
| 1,3-dichlorobenzene | 3 | 1 | U | U | U | U | U | U | U | U | U | U | U |
| 1,4-dichlorobenzene | 3 | 0.5 | 0.480 F | 0.550 | 0.470 F | 0.590 | 0.420 F | 0.450 F | 0.44 F | 0.44 J | 0.39 J | 0.28 J | 0.36 J |
| acetone | 50 | 10 | U | U | U | U | U | 1.32 F | U | U | 7.0 J | U | U |
| benzene | 1 | 0.1 | 0.740 F | **2.03** | 0.690 | **2.23** | 0.880 | 0.360 F | **1.5** | **1.8** | **1.4** | **1.2** | **1.3** |
| bromodichloromethane | 50 | 0.5 | U | U | U | U | U | U | U | U | U | U | U |
| bromoform | 50 | 1 | U | U | U | U | U | U | U | U | U | U | U |
| carbon disulfide | 1,000 | 0.5 | U | U | U | U | U | U | U | U | U | U | U |
| chlorobenzene | 5* | 0.5 | 0.980 F | 1.98 | 0.750 | 1.77 | 0.930 | 0.480 F | 1.2 | 1.2 | 0.96 J | 0.90 J | 0.93 J |
| chloroethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U |
| chloroform | 7 | 0.3 | U | U | U | U | U | U | U | U | U | U | U |
| chloromethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U |
| cis-1,2-dichloroethene | 5* | 1 | U | 0.250 F | U | 0.300 F | 0.170 F | 0.140 F | 0.25 F | 0.30 J | 0.23 J | 0.21 J | 0.19 J |
| dichlorodifluoromethane | 5* | 1 | U | 0.300 F | U | U | U | U | U | U | U | U | U |
| ethylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U |
| isopropylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U |
| methylene chloride | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U |
| methyl iodide | 5* | 0.5 | U | U | U | U | U | U | U | U | U | U | U |
| n-propylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U |
| m,p-xylene | 5* | 2 | U | U | U | U | U | U | U | U | U | U | U |
| naphthalene | 10 | 1 | U | U | U | U | U | U | U | U | U | U | U |
| o-xylene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U |
| p-isopropyltoluene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U |
| sec-butylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U |
| tetrachloroethene | 5 | 1 | U | U | U | U | U | U | U | U | U | U | U |
| tert-butylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U |
| trichloroethene (TCE) | 5* | 1 | U | U | 0.130 F | 0.120 F | 0.140 F | 0.120 F | U | U | U | 0.17 J | U |
| toluene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U |
| trichlorofluoromethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U |
| vinyl chloride | 2 | 1 | 0.110 F | 0.660 F | U | U | U | U | U | U | 0.25 J | U | U |
| **Total VOCs (µg/L)** | | | **2.61** | **5.95** | **2.04** | **5.24** | **2.69** | **3.02** | **3.58** | **3.93** | **9.47** | **2.92** | **4.08** |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 370 | 360 | 360 | 350 | 350 | 360 B | 400 | 400 | 400 | 390 | 420 |
| ammonia | 2 | 0.2 | **2.4** | **2.4** | **2.30** | 1.8 | **2.1** | 1.9 | 1.4 | 0.76 | **2.1** | 1.9 | **2.8** |
| BOD5 | -- | 2.4 | 5.0 | 5.9 | 4.4 | 4.4 | 4.4 | 4.1 | 3.4 F | U | 3.8 | 3.4 B | U |
| bromide | 2 | 0.5 | U | 0.076 F | 0.096 F | 0.077 F | 0.081 F | 0.12 | 0.17 F | 0.18 J | U | 0.16 J | 0.17 J |
| COD | -- | 5 | 19 B | 13 | 11 | 8.2 F | 10 | U | 7.3 F | 9.3 J | 14 J | U | 6.4 J |
| chloride | 250 | 1 | 8.6 | 6.5 | 8.0 | 5.5 | 5.8 | 12 B | 14 | 11 | 10 | 9.5 | 10 |
| color | 15 | 5 | NA | NA | U | NA | U | U | **35** | U | U | 15 B | **180** |
| cyanide, Total | 200 | 0.02 | NA | NA | NA | NA | NA | NA | NA | U | U | U | U |
| hardness, Total | -- | 1 | 380 | 290 | 320 | 330 | 18 | 350 B | 360 | 350 | 360 | 380 | 370 |
| nitrate | 10 | 1 | U | 0.035 F | 0.041 F | 0.041 F | U | 0.061 BF | U | U | U | U | U |
| TKN | 1 | 1 | **2.3** | **2.2** | **2.2** | **2.4** | **2.2** | **2.5** | **2.0** | **2.0** | **1.6** | 1.0 | **1.4** |
| sulfate | 250 | 1 | 0.65 F | 1.0 | 1.0 | 0.71 F | 0.78 F | U | U | U | 0.38 J | 0.33 J | U |
| TDS | 500 | 10 | 410 | 400 | 380 | 380 | 370 | 370 | 410 | 410 | 420 | 430 | 430 |
| TOC | -- | 1 | 2.4 | 2.8 | 3.5 | 2.4 | 1.9 | 2.4 | 2.4 | 2.2 | 2.3 | U | 2.2 |

For notes, please refer to the end of the Table Section.

**Table 2-2**
**LF001 (Landfill 1 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF1MW-6 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Date of Collection** | | | **12/5/2003** | **3/30/2004** | **6/28/2004** | **9/16/2004** | **12/15/2004** | **4/1/2005** | **6/22/2005** | **9/9/2005** | **12/21/2005** | **3/20/2006** | **6/19/2006** | **9/14/2006** | **12/18/2006** |
| **Sample ID No.** | | | **LF1M0620AA** | **LF1M0620BA** | **LF1M0620CA** | **LF1M0620DA** | **LF1M0620EA** | **LF1M0620FA** | **LF1M0620GA** | **LF1M0620HA** | **LF1M0620IA** | **LF1M0620JA** | **LF1M0620KA** | **LF1M0620LA** | **LF1M0620MA** |
| **Depth to Water (ft)** | | | **2.58** | **2.11** | **2.88** | **2.66** | **2.64** | **2.50** | **3.13** | **3.41** | **2.76** | **2.74** | **3.09** | **2.75** | **2.59** |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,1,2-Trichloroethane | 1 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,1-dichloroethane | 5* | 1 | U | U | U | U | U | U | U | 0.33 F | U | U | U | U | U |
| 1,2,3-trichlorobenzene | 5 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,2,4-trimethylbenzene | 5* | 1 | U | U | U | U | U | U | U | 1.6 | U | U | U | U | U |
| 1,2-dichloroethane | 0.6 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,2-dichlorobenzene | 3 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,2-dibromo-3-chloropropane | 0.04 | 2 | U | U | U | U | U | U | U | U | U | U | U | U | UJ |
| 1,3,5-trimethylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,3-dichlorobenzene | 3 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,4-dichlorobenzene | 3 | 0.5 | U | U | U | U | U | U | U | 1.1 | U | U | U | 0.14 F | U |
| acetone | 50 | 10 | U | 1.4 F | 3.3 F | U | U | U | U | U | U | U | 1.2 F | 1.27 F | U |
| benzene | 1 | 0.1 | U | U | U | U | U | U | U | **3.3** | U | U | U | 0.12 F | U |
| bromodichloromethane | 50 | 0.5 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| bromoform | 50 | 1 | U | 0.32 F | U | U | 0.33 F | U | U | U | U | U | U | 0.31 F | 0.250 F |
| carbon disulfide | 1,000 | 0.5 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| chlorobenzene | 5* | 0.5 | U | U | U | U | U | U | U | 3.4 | U | U | U | U | U |
| chloroethane | 5* | 1 | U | U | U | U | U | U | U | 0.38 F | U | U | U | U | U |
| chloroform | 7 | 0.3 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| chloromethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| cis-1,2-dichloroethene | 5* | 1 | U | U | U | U | U | U | U | 0.61 F | U | U | U | U | U |
| dichlorodifluoromethane | 5* | 1 | U | U | U | U | U | U | U | 0.62 F | U | U | U | U | U |
| ethylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| isopropylbenzene | 5* | 1 | U | U | U | U | U | U | U | 0.58 F | U | U | U | U | U |
| methylene chloride | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | 0.210 F |
| methyl iodide | 5* | 0.5 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| n-propylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| m,p-xylene | 5* | 2 | U | U | U | U | U | U | U | 2.1 | U | U | U | U | U |
| naphthalene | 10 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| o-xylene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| p-isopropyltoluene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| sec-butylbenzene | 5* | 1 | U | U | U | U | U | U | U | 0.4 F | U | U | U | U | U |
| tetrachloroethene | 5 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| tert-butylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| trichloroethene (TCE) | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| toluene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | 0.18 F | U |
| trichlorofluoromethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| vinyl chloride | 2 | 1 | U | U | U | U | U | U | U | 1.2 | U | U | U | U | U |
| **Total VOCs (µg/L)** | | | **0** | **1.72** | **3.3** | **0** | **0.33** | **0** | **0** | **16.22** | **0** | **0** | **1.2** | **2.02** | **0.46** |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 265 B | 247 | 190 | 220 | 230 | 250 | 280 | 492 | 326 | 256 | 292 | 230 | 230 |
| ammonia | 2 | 0.2 | 0.41 | 0.31 | 0.39 | 0.43 | 0.33 | 0.4 | 0.5 | **2.1** | 0.82 | 0.54 | 0.44 | 0.68 | 0.52 |
| BOD5 | -- | 2.4 | 2.8 | 3.8 | 4.7 | U | 3.8 | 2.5 | 4.8 | 7.8 | U | U | U | 7.8 | 3.4 |
| bromide | 2 | 0.5 | U | U | U | 0.19 F | U | U | 0.20 F | U | 0.56 | 0.59 | 0.07 F | 0.14 F | 0.13 |
| COD | -- | 5 | U | U | U | U | U | U | U | 22.6 | 10.6 | 11.7 | U | 11 | 20 B |
| chloride | 250 | 1 | 24 B | 23.5 | 27.5 | 26.4 | 23.2 | 23.2 | 22.1 | 15.1 | 21 | 19.3 | 21 | 22 | 23 |
| color | 15 | 5 | 0 | NA | NA | NA | NA | 12 | NA | NA | NA | 13 | NA | NA | NA |
| cyanide, Total | 200 | 0.02 | 0.066 B | NA | NA | NA | NA | U | NA | NA | NA | U | NA | NA | NA |
| hardness, Total | -- | 1 | 272 B | 228 | 180 | 420 | 272 | 224 | 264 | 640 | 330 | 250 | 188 | 140 B | 220 |
| nitrate | 10 | 1 | U | U | U | U | U | U | U | 0.04 F | 0.11 F | U | U | 0.012 F | U |
| TKN | 1 | 1 | 0.46 | 0.51 | 0.51 | 0.54 B | 0.43 | 0.49 | 0.72 | **5.6** | **2.2** | 0.71 | 2.2 | 0.64 | 0.59 |
| sulfate | 250 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| TDS | 500 | 10 | 296 B | 287 | 252 | 249 | 286 | 278 | 322 | **536** | 349 | 299 | 286 | 280 | 270 |
| TOC | -- | 1 | U | 0.76 F | U | U | U | 0.68 F | 0.75 F | 3.2 | 0.62 F | 1.1 | 0.54 F | 0.71 F | 0.70 F |

For notes, please refer to the end of the Table Section.

**Table 2-2**

**LF001 (Landfill 1 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF1MW-6 | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 4/4/2007 | 9/27/2008 | 4/2/2008 | 9/18/2008 | 4/20/2009 | 3/31/2010 | 6/15/2011 | 6/25/2012 | 6/10/2013 | 6/19/2014 | 6/23/2015 |
| Sample ID No. | | | LF1M0620NA | LF1M0620OA | LF1M0620PA | LF1M0620QA | LF1M0620RA | LF1M0620SA | LF1M0620TA | LF1M0620UA | LF1M0620VA | LF1M0620VA | LF1M0620WA |
| Depth to Water (ft) | | | 2.23 | 3.24 | 2.25 | 2.91 | 2.20 | NS | 1.58 | 2.3 | 2.95 | 3.25 | 3.64 |
| **VOCs (µg/L)** | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 5* | 1 | U | U | U | U | U | NS | U | U | U | U | U |
| 1,1,2-Trichloroethane | 1 | 1 | U | U | U | U | U | U | U | U | U | U | U |
| 1,1-dichloroethane | 5* | 1 | U | 0.150 F | U | U | U | NS | U | U | U | U | U |
| 1,2,3-trichlorobenzene | 5 | 1 | U | U | U | U | U | NS | U | U | U | U | U |
| 1,2,4-trimethylbenzene | 5* | 1 | U | 1.08 | U | 0.200 F | U | NS | U | U | U | U | U |
| 1,2-dichloroethane | 0.6 | 1 | U | U | U | U | U | NS | U | U | U | U | U |
| 1,2-dichlorobenzene | 3 | 1 | U | U | U | U | U | NS | U | U | U | U | U |
| 1,2-dibromo-3-chloropropane | 0.04 | 2 | U | U | U | U | U | NS | U | U | U | U | U |
| 1,3,5-trimethylbenzene | 5* | 1 | U | 0.140 F | U | U | U | NS | U | U | U | U | U |
| 1,3-dichlorobenzene | 3 | 1 | U | U | U | U | U | NS | U | U | U | U | U |
| 1,4-dichlorobenzene | 3 | 0.5 | U | 0.400 F | U | U | U | NS | U | U | U | U | U |
| acetone | 50 | 10 | U | U | U | U | U | NS | U | U | U | U | 2.5 J |
| benzene | 1 | 0.1 | U | 1.65 | U | 0.410 F | U | NS | U | 0.27 J | U | U | U |
| bromodichloromethane | 50 | 0.5 | U | U | U | U | U | NS | U | U | U | U | U |
| bromoform | 50 | 1 | U | U | U | U | U | NS | U | 0.27 J | U | U | U |
| carbon disulfide | 1,000 | 0.5 | U | U | U | U | U | NS | U | U | U | U | U |
| chlorobenzene | 5* | 0.5 | U | 0.93 | U | U | U | NS | U | U | U | U | U |
| chloroethane | 5* | 1 | U | U | U | U | U | NS | U | U | U | U | U |
| chloroform | 7 | 0.3 | U | U | U | U | U | NS | U | U | U | U | U |
| chloromethane | 5* | 1 | U | U | U | U | U | NS | U | U | U | U | U |
| cis-1,2-dichloroethene | 5* | 1 | U | 0.180 F | U | U | U | NS | U | U | U | U | U |
| dichlorodifluoromethane | 5* | 1 | U | 0.270 F | U | U | U | NS | U | U | U | U | U |
| ethylbenzene | 5* | 1 | U | U | U | U | U | NS | U | U | U | U | U |
| isopropylbenzene | 5* | 1 | U | 0.160 F | U | U | U | NS | U | U | U | U | U |
| methylene chloride | 5* | 1 | U | 0.230 F | U | U | U | NS | U | U | U | U | U |
| methyl iodide | 5* | 0.5 | U | U | U | U | U | NS | U | U | U | U | U |
| n-propylbenzene | 5* | 1 | U | U | U | U | U | NS | U | U | U | U | U |
| m,p-xylene | 5* | 2 | U | 0.730 F | U | 0.160 F | U | NS | U | U | U | U | U |
| naphthalene | 10 | 1 | U | U | U | U | U | NS | U | U | U | U | U |
| o-xylene | 5* | 1 | U | U | U | U | U | NS | U | U | U | U | U |
| p-isopropyltoluene | 5* | 1 | U | U | U | U | U | NS | U | U | U | U | U |
| sec-butylbenzene | 5* | 1 | U | U | U | U | U | NS | U | U | U | U | U |
| tetrachloroethene | 5 | 1 | U | U | U | U | U | NS | U | U | U | U | U |
| tert-butylbenzene | 5* | 1 | U | U | U | U | U | NS | U | U | U | U | U |
| trichloroethene (TCE) | 5* | 1 | U | U | U | U | U | NS | U | U | U | U | U |
| toluene | 5* | 1 | U | U | U | U | U | NS | U | U | U | U | U |
| trichlorofluoromethane | 5* | 1 | U | U | U | U | U | NS | U | U | U | U | U |
| vinyl chloride | 2 | 1 | U | U | U | U | U | NS | U | U | U | U | U |
| **Total VOCs (µg/L)** | | | **0** | **4.92** | **0** | **0.77** | **0** | **NS** | **0** | **0.54** | **0** | **0** | **2.5** |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 230 | 440 | 280 | 280 | 240 | NS | 390 | 360 | 330 | 260 | 280 |
| ammonia | 2 | 0.2 | 0.50 | **2.4** | 0.72 | 1.10 | 0.54 | NS | 1.6 F | 0.44 | 1.0 | 0.80 | 0.53 |
| BOD5 | -- | 2.4 | 4.2 | 6.7 | U | 10 | 3.3 | NS | 1.8 F | 2.6 | 1.9 J | U | U |
| bromide | 2 | 0.5 | 0.11 | 0.16 | 0.13 | 0.14 | 0.14 | NS | 0.17 F | 0.21 J | U | 0.17 JB | 0.20 J |
| COD | -- | 5 | 10 B | 8.5 F | 6.3 F | U | 6.0 F | NS | U | 8.0 J | 15 J | U | U |
| chloride | 250 | 1 | 22 | 16 | 21 | 19 | 20 | NS | 16 | U | 17 | 17 | 18 |
| color | 15 | 5 | NA | NA | U | NA | U | NS | **30** | **25** | U | U | **60** |
| cyanide, Total | 200 | 0.02 | NA | NA | NA | NA | NA | NS | NA | U | U | U | U |
| hardness, Total | -- | 1 | 230 | 389 | 250 | 280 | 220 | NS | 330 | 290 | 290 | 240 | 260 |
| nitrate | 10 | 1 | U | 0.016 F | 0.021 F | 0.016 F | U | NS | U | 0.052 J | U | U | U |
| TKN | 1 | 1 | 0.54 | **2.2** | 0.67 | **1.1** | 0.57 | NS | **1.2** | **1.5** | 1.0 | 0.42 J | 0.42 J |
| sulfate | 250 | 1 | U | U | U | U | U | NS | U | U | 0.37 J | U | 0.61 J |
| TDS | 500 | 10 | 280 | 490 | 310 | 330 | 280 | NS | 410 | 380 | 340 | 240 | 320 |
| TOC | -- | 1 | 0.47 F | 2.0 | 0.50 F | 0.73 F | U | NS | 1.2 | 1.1 | 0.90 J | 0.85 JB | 0.90 J |

For notes, please refer to the end of the Table Section.

**Table 2-2**
**LF001 (Landfill 1 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF1MW-10 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Date of Collection** | | | **12/9/2003** | **3/30/2004** | **6/28/2004** | **9/17/2004** | **12/15/2004** | **4/4/2005** | **6/23/2005** | **9/8/2005** | **12/22/2005** | **3/16/2006** | **9/14/2006** | **4/3/2007** | **9/26/2007** |
| **Sample ID No.** | | | **LF1M1029AA** | **LF1M1030BA** | **LF1M1029CA** | **LF1M1030DA** | **LF1M1030EA** | **LF1M1030FA** | **LF1M1030GA** | **LF1M1030HA** | **LF1M1030IA** | **LF1M1030JA** | **LF1M1030LA** | **LF1M1030NA** | **LF1M1030OA** |
| **Depth to Water (ft)** | | | **25.67** | **25.03** | **25.57** | **26.12** | **25.92** | **25.46** | **26.24** | **27.65** | **26.81** | **25.27** | **26.60** | **24.60** | **27.10** |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,1,2-Trichloroethane | 1 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,1-dichloroethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,2,3-trichlorobenzene | 5 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,2,4-trimethylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,2-dichloroethane | 0.6 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,2-dichlorobenzene | 3 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,2-dibromo-3-chloropropane | 0.04 | 2 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,3,5-trimethylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,3-dichlorobenzene | 3 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,4-dichlorobenzene | 3 | 0.5 | **3.9** | 2 | 1.2 | 1.7 | 1.2 | 0.98 | 0.69 | 1.2 | 1 | 0.64 | 0.52 F | 0.240 F | 0.400 F♦ |
| acetone | 50 | 10 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| benzene | 1 | 0.1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| bromodichloromethane | 50 | 0.5 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| bromoform | 50 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| carbon disulfide | 1,000 | 0.5 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| chlorobenzene | 5* | 0.5 | 0.7 | 0.25 F | U | U | U | U | U | U | U | U | U | U | U |
| chloroethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| chloroform | 7 | 0.3 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| chloromethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| cis-1,2-dichloroethene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| dichlorodifluoromethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | 0.130 F | U |
| ethylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| isopropylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| methylene chloride | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| methyl iodide | 5* | 0.5 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| n-propylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| m,p-xylene | 5* | 2 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| naphthalene | 10 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| o-xylene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| p-isopropyltoluene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| sec-butylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| tetrachloroethene | 5 | 1 | U | U | U | U | U | U | U | U | U | U | 0.21 F | 0.120 F | 0.260 F♦ |
| tert-butylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| trichloroethene (TCE) | 5* | 1 | U | U | U | U | U | U | U | U | U | U | 0.1 F | U | 0.130 F |
| toluene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| trichlorofluoromethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | 0.230 F |
| vinyl chloride | 2 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| **Total VOCs (µg/L)** | | | **4.6** | **2.25** | **1.2** | **1.7** | **1.2** | **0.98** | **0.69** | **1.2** | **1** | **0.64** | **0.83** | **0.49** | **1.02** |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 170 | 174 | 174 | 191 | 193 | 184 | 204 | 215 | 233 | 190 | 230 | 200 | 230 |
| ammonia | 2 | 0.2 | 1.1 | 0.39 | 0.25 | 0.19 | 0.15 | 0.13 | 0.2 | 0.17 | 0.16 | 0.041 F | 0.048 F | 0.038 F | 0.071 |
| BOD5 | -- | 2.4 | U | 2.3 | U | U | U | U | U | U | U | U | U | U | U |
| bromide | 2 | 0.5 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| COD | -- | 5 | U | 17.4 | U | U | U | U | 4.3 F | 5.3 F | 18.8 B | U | 5 F | 10 B | 8.5 F |
| chloride | 250 | 1 | 2.0 | 0.39 F | 1.7 | 1.7 | 1.4 | 1.4 | 1.4 B | 1.2 | 1.2 | 0.68 F | 1.1 | 0.80 F | 0.85 F♦ |
| color | 15 | 5 | **25** | NA | NA | NA | NA | 7.5 | U | NA | NA | U | NA | NA | NA |
| cyanide, Total | 200 | 0.02 | U | NA | NA | NA | NA | U | U | NA | NA | 0.0062 F | NA | NA | NA |
| hardness, Total | -- | 1 | 210 | 188 | 196 | 200 | 208 | 182 | 216 | 230 | 270 B | 147 | 240 | 530 | 200 J♦ |
| nitrate | 10 | 1 | U | 0.88 F | 0.23 F | 0.13 F | 0.07 F | 0.14 F | 0.26 F | 0.04 F | 0.26 F | 0.26 F | 0.17 F | 0.32 | 0.18 |
| TKN | 1 | 1 | 0.96 | 0.66 | 0.46 | 0.38 | U | U | 0.5 B | 0.76 | 0.61 | U | U | U | 0.13 F♦ |
| sulfate | 250 | 1 | 14.7 | 9.2 | 9.1 | 7.4 | 8.5 | 14.3 | 15 B | 14.2 | 10 | 6.9 | 13 | 11 | 9.2♦ |
| TDS | 500 | 10 | 225 | 186 | 199 | 196 | 224 | 221 | 226 | 234 | 245 | 230 | 270 | 210 | 250 |
| TOC | -- | 1 | 1.1 | 3.1 | U | 0.6 F | U | 0.78 F | 0.78 F | 1 B | U | 0.51 F | 0.73 F | 0.65 F | 0.90 F |

For notes, please refer to the end of the Table Section.

**Table 2-2**
**LF001 (Landfill 1 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF1MW-10 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 4/1/2008 | 9/17/2008 | 4/21/2009 | 3/30/2010 | 6/15/2011 | 6/26/2012 | 6/11/2013 | 6/16/2014 | 6/22/2015 | |
| Sample ID No. | | | LF1M1030PA | LF1M1030QA | LF1M1030RA | LF1M1030SA | LF1M1030TA | LF1M1030UA | LF1M1030VA | LF1M1030VA | LF1M1030WA | |
| Depth to Water (ft) | | | 24.52 | 26.55 | 24.44 | 25.90 | NS | 25.9 | 25.53 | 24.93 | 25.29 | |
| **VOCs (µg/L)** | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 5* | 1 | U | U | U | U | NS | U | U | U | U | |
| 1,1,2-Trichloroethane | 1 | 1 | U | U | U | U | NS | U | U | U | U | |
| 1,1-dichloroethane | 5* | 1 | U | U | U | U | NS | U | U | U | U | |
| 1,2,3-trichlorobenzene | 5 | 1 | U | U | U | U | NS | U | U | U | U | |
| 1,2,4-trimethylbenzene | 5* | 1 | U | U | U | U | NS | U | U | U | U | |
| 1,2-dichloroethane | 0.6 | 1 | U | U | U | U | NS | U | U | U | U | |
| 1,2-dichlorobenzene | 3 | 1 | U | U | U | U | NS | U | U | U | U | |
| 1,2-dibromo-3-chloropropane | 0.04 | 2 | U | U | U | U | NS | U | U | U | U | |
| 1,3,5-trimethylbenzene | 5* | 1 | U | U | U | U | NS | U | U | U | U | |
| 1,3-dichlorobenzene | 3 | 1 | U | U | U | U | NS | U | U | U | U | |
| 1,4-dichlorobenzene | 3 | 0.5 | 0.340 F | U | U | 0.180 F | NS | U | U | U | U | |
| acetone | 50 | 10 | U | U | U | 1.33 F | NS | U | 3.4 J | U | U | |
| benzene | 1 | 0.1 | U | U | U | U | NS | U | U | U | U | |
| bromodichloromethane | 50 | 0.5 | U | U | U | U | NS | U | U | U | U | |
| bromoform | 50 | 1 | U | U | U | U | NS | U | U | U | U | |
| carbon disulfide | 1,000 | 0.5 | U | U | U | U | NS | U | U | U | U | |
| chlorobenzene | 5* | 0.5 | U | U | U | U | NS | U | U | U | U | |
| chloroethane | 5* | 1 | U | U | U | U | NS | U | U | U | U | |
| chloroform | 7 | 0.3 | U | U | U | U | NS | U | U | U | U | |
| chloromethane | 5* | 1 | U | U | U | U | NS | U | U | U | U | |
| cis-1,2-dichloroethene | 5* | 1 | U | U | U | U | NS | U | U | U | U | |
| dichlorodifluoromethane | 5* | 1 | U | U | U | U | NS | U | U | U | U | |
| ethylbenzene | 5* | 1 | U | U | U | U | NS | U | U | U | U | |
| isopropylbenzene | 5* | 1 | U | U | U | U | NS | U | U | U | U | |
| methylene chloride | 5* | 1 | U | U | U | U | NS | U | U | U | U | |
| methyl iodide | 5* | 0.5 | U | U | U | U | NS | U | U | U | U | |
| n-propylbenzene | 5* | 1 | U | U | U | U | NS | U | U | U | U | |
| m,p-xylene | 5* | 2 | U | U | U | U | NS | U | U | U | U | |
| naphthalene | 10 | 1 | U | U | U | U | NS | U | U | U | U | |
| o-xylene | 5* | 1 | U | U | U | U | NS | U | U | U | U | |
| p-isopropyltoluene | 5* | 1 | U | U | U | U | NS | U | U | U | U | |
| sec-butylbenzene | 5* | 1 | U | U | U | U | NS | U | U | U | U | |
| tetrachloroethene | 5 | 1 | 0.170 F | 0.200 F♦ | 0.180 F | 0.280 F | NS | U | 0.21 J ♦ | U | U | |
| tert-butylbenzene | 5* | 1 | U | U | U | U | NS | U | U | U | U | |
| trichloroethene (TCE) | 5* | 1 | U | U | U | 0.120 F | NS | U | U | U | U | |
| toluene | 5* | 1 | U | U | U | U | NS | U | U | U | U | |
| trichlorofluoromethane | 5* | 1 | U | U | U | U | NS | U | U | U | U | |
| vinyl chloride | 2 | 1 | U | U | U | U | NS | U | U | U | U | |
| **Total VOCs (µg/L)** | | | **0.51** | **0.200** | **0.180** | **1.91** | NS | **0** | **0.21** | **0** | **0** | |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 200 | 250 | 200 | 230 | NS | 230 | 210 | 210 | 200 | |
| ammonia | 2 | 0.2 | 0.026 F | 0.050 B♦ | U | U | NS | 0.11 JB | 0.11 | U | U | |
| BOD5 | -- | 2.4 | U | U | U | U | NS | U | U | U | U | |
| bromide | 2 | 0.5 | U | U | U | U | NS | U | U | U | U | |
| COD | -- | 5 | 8.5 F | U | 6.0 F | U | NS | 0.78 J ♦ | 13 J | U | U | |
| chloride | 250 | 1 | 0.79 F | 0.79 F | 0.53 F | 0.39 F | NS | 1.9 J | 2.0 J | 0.92 J | 0.50 J | |
| color | 15 | 5 | U | NA | U | U | NS | U | U | 5 | U | |
| cyanide, Total | 200 | 0.02 | NA | NA | NA | NA | NS | U | U | U | U | |
| hardness, Total | -- | 1 | 220 | 280 | 220 | 250 | NS | 220 | 240 ♦ | 240 | 200 | |
| nitrate | 10 | 1 | 0.36 | 0.098 F | 0.62 | 0.21 | NS | 0.59 ♦ | 0.39 J ♦ | 0.42 J | 0.43 J | |
| TKN | 1 | 1 | 0.13 F | 0.25 B | U | 0.24 B | NS | 0.70 J | 0.59 J | U | U | |
| sulfate | 250 | 1 | 22 | 12 | 15 | 17 | NS | 6.0 | 6.2 J | 6.2 | 4.9 J | |
| TDS | 500 | 10 | 230 | 270 | 250 | 250 | NS | 240 | 230 | 230 | 230 | |
| TOC | -- | 1 | 0.71 F | 0.97 F | 0.54 F | 0.77 F | NS | 0.78 J ♦ | 0.63 J ♦ | 0.68 JB | 0.65 J | |

For notes, please refer to the end of the Table Section.

**Table 2-2**

**LF001 (Landfill 1 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF1MW-11 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 12/5/2003 | 3/29/2004 | 6/25/2004 | 9/16/2004 | 12/15/2004 | 4/1/2005 | 6/22/2005 | 9/8/2005 | 12/23/2005 | 3/16/2006 | 6/19/2006 | 9/15/2006 | 12/18/2006 |
| Sample ID No. | | | LF1M1111AA | LF1M1111BA | LF1M1111CA | LF1M1111DA | LF1M1111EA | LF1M1111FA | LF1M1111GA | LF1M1111HA | LF1M1111IA | LF1M1111JA | LF1M1111KA | LF1M1111LA | LF1M1111MA |
| Depth to Water (ft) | | | 2.99 | 2.57 | 3.31 | 3.10 | 3.13 | 2.89 | 3.64 | 3.98 | 3.35 | 3.01 | 4.90 | 3.65 | 3.21 |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,1,2-Trichloroethane | 1 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,1-dichloroethane | 5* | 1 | 1.6 | 0.93 F | 1.2 | 1.3 | 1.2 | 0.29 F | 1.1 | 0.8 F | 1.1 | 1.2 | 0.86 F | 0.93 F | 1.05 |
| 1,2,3-trichlorobenzene | 5 | 1 | U | U | U | U | U | 0.22 F | U | U | U | U | U | U | U |
| 1,2,4-trimethylbenzene | 5* | 1 | U | 0.27 F | 0.58 F | U | U | U | U | U | U | U | U | U | U |
| 1,2-dichloroethane | 0.6 | 1 | U | U | U | U | U | U | U | U | U | U | U | 0.13 F | 0.120 F |
| 1,2-dichlorobenzene | 3 | 1 | **13** | **11** | **10** | **12** | **9** | 2.3 | **8.9** | **11** | **8.1** | **8.2** | **8.8** | **9.72** | **8.37** |
| 1,2-dibromo-3-chloropropane | 0.04 | 2 | U | U | U | U | U | U | U | U | U | U | U | U | UJ |
| 1,3,5-trimethylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,3-dichlorobenzene | 3 | 1 | 1.5 | 1 | 1.4 | 1.4 | 1 | 0.3 F | 1.2 | 1.6 | 1.1 | 0.94 F | 0.99 F | 0.99 F | 0.860 F |
| 1,4-dichlorobenzene | 3 | 0.5 | **16** | **13** | **13** | **14** | **11** | 2.9 | **11** | **14** | **10** | **10** | **11** | **11.7** | **10.0** |
| acetone | 50 | 10 | U | U | 3.6 F | U | U | 1.8 F | 2 F | U | U | U | 2.3 F | 3.89 F | 2.30 F |
| benzene | 1 | 0.1 | **4.9** | **3.4** | **3.6** | **3.7** | **3.3** | 0.62 | **3** | **2.6** | **2.7** | **2.9** | **2.4** | **2.43** | **2.53** |
| bromodichloromethane | 50 | 0.5 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| bromoform | 50 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| carbon disulfide | 1,000 | 0.5 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| chlorobenzene | 5* | 0.5 | **17** | **14** | **14** | **14** | **12** | 2.3 | **11** | **13** | **10** | **10** | **11** | **10.4** | **9.70** |
| chloroethane | 5* | 1 | 1.2 | 0.66 F | 0.78 F | 0.91 F | 1 | U | 1.2 | 0.73 F | 0.68 F | 0.93 F | 0.94 F | 0.95 F | 0.840 F |
| chloroform | 7 | 0.3 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| chloromethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | 0.2 F | U | U |
| cis-1,2-dichloroethene | 5* | 1 | 0.48 F | 0.32 F | U | 0.46 F | 0.45 F | U | 0.37 F | U | U | U | U | 0.26 F | 0.340 F |
| dichlorodifluoromethane | 5* | 1 | 2.7 | 2.4 | 2.3 | 2.6 | 2.4 | 0.36 F | 2.3 | U | 2 | 2.8 | 1.5 | 1.62 | 1.27 |
| ethylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| isopropylbenzene | 5* | 1 | 2.1 | 1.7 | 1.8 | 1.7 | 1.3 | U | 0.65 F | 0.5 F | U | U | U | U | U |
| methylene chloride | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | 0.18 F | 0.190 F |
| methyl iodide | 5* | 0.5 | U | U | U | U | U | U | 0.21 F | U | U | U | U | U | U |
| n-propylbenzene | 5* | 1 | 1.8 | 0.88 F | 0.67 F | 0.41 F | U | U | U | U | U | U | U | U | U |
| m,p-xylene | 5* | 2 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| naphthalene | 10 | 1 | 0.3 F | U | U | U | U | U | U | U | U | U | U | U | U |
| o-xylene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| p-isopropyltoluene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| sec-butylbenzene | 5* | 1 | 0.88 F | 0.58 F | 0.89 F | 0.84 F | 0.63 | U | 0.5 F | 0.59 F | U | U | U | U | U |
| tetrachloroethene | 5 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| tert-butylbenzene | 5* | 1 | 0.28 F | U | 0.34 F | 0.36 F | 0.28 | U | 0.37 F | U | U | U | 0.24 F | 0.17 F | 0.190 F |
| trichloroethene (TCE) | 5* | 1 | U | U | U | U | U | U | U | 0.39 F | U | U | U | U | U |
| toluene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | 0.24 F | U |
| trichlorofluoromethane | 5* | 1 | 0.14 | U | U | U | U | U | U | U | U | U | U | U | U |
| vinyl chloride | 2 | 1 | 1.9 | 1.3 | 1.3 | 1.6 | 1.8 | 0.24 F | 1.4 | 1 | 1.2 | 1.5 | 1 | 1.18 | 1.17 |
| **Total VOCs (µg/L)** | | | **65.78** | **51.44** | **54.86** | **55.28** | **45.36** | **11.33** | **45.20** | **46.21** | **36.88** | **36.97** | **41.23** | **44.79** | **38.93** |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 558 M | 540 | 483 | 564 | 553 | 307 | 545 | 460 | 504 | 518 | 611 | 590 | 520 |
| ammonia | 2 | 0.2 | **3.6 M** | **2.3** | **2.3** | **3.4** | **2.3** | 0.85 | **2.5** | **2.9** | **3** | **2.2** | 1.9 | **4.2** | **4** |
| BOD5 | -- | 2.4 | 7.4 | 3.8 | 2.9 | 5.6 | 5.7 | 5.4 | 4.7 | U | 12.3 | 3 B | 6.2 | 16 | 14 |
| bromide | 2 | 0.5 | U | 0.24 F | 0.27 F | U | U | U | 0.2 F | 0.21 F | 0.26 F | 0.52 | 0.09 F | 0.13 F | 0.14 |
| COD | -- | 5 | 19.5 | 34.1 | U | 18.2 | 14.8 | 13.5 | 11.7 | 13.3 | 25.3 | 17.4 | 30.1 B | 22 | 24 B |
| chloride | 250 | 1 | 13 B | 11.3 | 12.4 | 12.8 | 11.4 | 7.4 | 12.3 | 12.6 | 10.8 | 8.2 | 9.6 | 11 | 13 |
| color | 15 | 5 | **80** | NA | NA | NA | NA | **120** | NA | NA | NA | **120** | NA | NA | NA |
| cyanide, Total | 200 | 0.02 | 0.022 M | NA | NA | NA | NA | U | NA | NA | NA | U | NA | NA | NA |
| hardness, Total | -- | 1 | 564 B | 448 | 496 | 550 | 500 | 240 | 484 | 38.4 F | 460 | 528 | 626 | 500 | 500 |
| nitrate | 10 | 1 | U | 0.03 F | U | U | 0.06 F | U | U | 0.5 F | U | U | U | 0.027 F | 0.070 F |
| TKN | 1 | 1 | **4.1** | **3.6** | **3.7** | **3.4** | **3.4** | **1.1** | **3.6** | **5.2** | **5.4** | **3.6** | **3.2** | **3.9** | **4.0** |
| sulfate | 250 | 1 | 1.9 B | 3.3 | 4.2 | 3 | 2 | 2.6 | 2.6 | 2.2 | 1.6 | 3.6 | 4.2 | 3.5 | 2.8 |
| TDS | 500 | 10 | **573 B** | **587** | **566** | **576** | **592** | 306 | 594 | 465 | 480 | **520** | **572** | **590** | **570** |
| TOC | -- | 1 | 6.2 | 4.9 | 4.2 | 5 | 4.4 | 5 | 4.6 | 4.3 B | 3.6 | 3 | 4.4 | 4 | 4.0 |

For notes, please refer to the end of the Table Section.

**Table 2-2**

**LF001 (Landfill 1 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF1MW-11 | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 4/3/2007 | 9/26/2007 | 4/1/2008 | 9/17/2008 | 4/17/2009 | 3/31/2010 | 6/15/2011 | 6/21/2012 | 6/10/2013 | 6/19/2014 | 6/24/2015 |
| Sample ID No. | | | LF1M1111NA | LF1M1111OA | LF1M1111PA | LF1M1111QA | LF1M1111RA | LF1M1111SA | LF1M1111TA | LF1M1111UA | LF1M1111VA | LF1M1111VA | LF1M1111WA |
| Depth to Water (ft) | | | 3.00 | 4.33 | 2.67 | 3.82 | 3.06 | 2.56 | 3.45 | 4.07 | 3.23 | 3.34 | 3.35 |
| **VOCs (µg/L)** | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U |
| 1,1,2-Trichloroethane | 1 | 1 | U | U | U | U | U | U | U | U | U | U | U |
| 1,1-dichloroethane | 5* | 1 | 0.950 F | 0.750 F | 0.750 F | 0.740 F | 0.730 F | 0.900 F | 0.81 F | 0.73 J | 0.76 J | 0.74 J | U |
| 1,2,3-trichlorobenzene | 5 | 1 | U | U | U | U | U | U | U | U | U | U | U |
| 1,2,4-trimethylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U |
| 1,2-dichloroethane | 0.6 | 1 | U | 0.130 F | U | U | U | U | U | U | 0.18 J | U | U |
| 1,2-dichlorobenzene | 3 | 1 | **6.69** | **9.81** | **5.84** | **6.95** | **5.80** | **6.04** | **5.0** | **5.8** | **4.8** | **4.2** | U |
| 1,2-dibromo-3-chloropropane | 0.04 | 2 | U | U | U | U | U | U | U | U | U | U | U |
| 1,3,5-trimethylbenzene | 5* | 1 | U | 0.100 F | U | U | U | U | U | U | U | U | U |
| 1,3-dichlorobenzene | 3 | 1 | 0.740 F | 1.16 | 0.660 F | 0.780 F | 0.600 F | 0.710 F | 0.54 F | 0.59 J | 0.55 J | 0.42 J | U |
| 1,4-dichlorobenzene | 3 | 0.5 | **7.84** | **11.10** | **7.24** | **8.49** | **7.18** | **7.53** | **6.0** | **6.4** | **5.3** | **4.1** | U |
| acetone | 50 | 10 | U | U | U | U | U | 1.78 F | U | U | U | U | U |
| benzene | 1 | 0.1 | **2.09** | **1.98** | **1.67** | **1.82** | **1.58** | **2.06** | **1.7** | **1.6** | **1.5** | **1.6** | U |
| bromodichloromethane | 50 | 0.5 | U | U | U | U | U | U | U | U | U | U | U |
| bromoform | 50 | 1 | U | U | U | U | U | U | U | U | U | U | U |
| carbon disulfide | 1,000 | 0.5 | U | U | U | U | U | U | U | U | U | U | U |
| chlorobenzene | 5* | 0.5 | **8.10** | **9.89** | **6.49** | **8.05** | **7.06** | **7.18** | **6.3** | **6.8** | **5.7** | **5.2** | U |
| chloroethane | 5* | 1 | 0.650 F | 0.670 F | 0.610 F | 0.720 F | 0.700 F | 0.720 F | 0.54 F | 0.52 J | 0.50 J | 0.65 J | U |
| chloroform | 7 | 0.3 | U | U | U | U | U | U | U | U | U | U | U |
| chloromethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U |
| cis-1,2-dichloroethene | 5* | 1 | 0.280 F | 0.260 F | 0.230 F | 0.260 F | 0.180 F | 0.260 F | 0.25 F | 0.20 J | 0.26 J | 0.24 J | U |
| dichlorodifluoromethane | 5* | 1 | 1.06 | 0.740 F | 0.760 F | 0.670 F | 1.29 | 0.280 F | U | U | 0.57 J | U | U |
| ethylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U |
| isopropylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U |
| methylene chloride | 5* | 1 | 0.120 F | U | U | U | U | U | U | U | U | U | U |
| methyl iodide | 5* | 0.5 | U | U | U | U | U | U | U | U | U | U | U |
| n-propylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U |
| m,p-xylene | 5* | 2 | U | U | U | U | U | U | U | U | U | U | U |
| naphthalene | 10 | 1 | U | U | U | U | U | U | U | U | U | U | U |
| o-xylene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U |
| p-isopropyltoluene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U |
| sec-butylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U |
| tetrachloroethene | 5 | 1 | U | U | U | U | U | U | U | U | U | U | U |
| tert-butylbenzene | 5* | 1 | 0.170 F | 0.290 F | U | 0.210 F | 0.120 F | 0.170 F | U | U | U | U | U |
| trichloroethene (TCE) | 5* | 1 | U | U | 0.180 F | U | U | 0.160 F | U | U | U | U | 0.52 J |
| toluene | 5* | 1 | 0.150 F | 0.180 F | 0.130 F | 0.180 F | 0.130 F | 0.150 F | U | U | U | U | U |
| trichlorofluoromethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U |
| vinyl chloride | 2 | 1 | 1.22 | 0.840 F | 0.940 F | 0.800 F | 0.870 F | 0.970 F | 0.88 F | U | 0.53 J | 0.70 J | U |
| **Total VOCs (µg/L)** | | | **30.06** | **37.90** | **25.50** | **29.67** | **26.24** | **28.91** | **22.02** | **21.91** | **22.0** | **18.73** | **0.52** |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 520 | 460 | 530 | 490 | 510 | 560 B | 540 | 510 | 470 | 490 | 180 |
| ammonia | 2 | 0.2 | **4** | **3.9** | **3.6** | **4.1** | **3.5** | **3.3** | **2.6** | 1.4 | **3.1** | **2.9** | 0.044 J |
| BOD5 | -- | 2.4 | 14 | 6.8 | 14 | 12 | 14 | 19 | 7.9 | 8.3 | 4.4 | 7.6 | U |
| bromide | 2 | 0.5 | 0.14 | 0.10 | 0.12 | 0.11 | 0.15 | 0.10 | 0.15 F | 0.15 J | U | 0.14 JB | U |
| COD | -- | 5 | 24 B | 15 | 17 | 13 | 17 | 9.9 F | 9.7 F | 9.7 J | 21 | 13 J | 5 |
| chloride | 250 | 1 | 13 | 9.2 | 9.7 | 7.9 | 10.0 | 8.2 B | 11.0 | 8.4 | 6.3 | 9.9 | 4.1 |
| color | 15 | 5 | NA | NA | 120 | NA | U | U | **25** | **25** | U | U | 15 |
| cyanide, Total | 200 | 0.02 | NA | NA | NA | NA | NA | NA | U | U | U | U | U |
| hardness, Total | -- | 1 | 500 | 380 | 490 | 540 | 500 | 530 B | 380 | 470 | 450 | 510 | 180 |
| nitrate | 10 | 1 | 0.070 F | 0.053 F | 0.086 F | U | U | U | U | U | U | U | U |
| TKN | 1 | 1 | **4.0** | **3.7** | **3.7** | **4.0** | **3.7** | **4.1** | **2.9** | **3 B** | **2.3** | **1.6** | U |
| sulfate | 250 | 1 | 2.8 | 2.9 | 2.1 | 0.94 | 0.83 F | 0.43 BF | 0.39 F | U | 0.81 J | 0.43 J | 2.9 |
| TDS | 500 | 10 | **570** | **500** | **530** | 340 | **540** | **570** | **550** | 500 | **510** | **520** | 200 |
| TOC | -- | 1 | 4.0 | 3.5 | 3.4 | 3.5 | 3.0 | 4.0 | 2.9 | 2.8 | 2.6 | 2.6 B | 0.77 J |

For notes, please refer to the end of the Table Section.

**Table 2-2**
**LF001 (Landfill 1 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF1MW-12 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Date of Collection** | | | **12/8/2003** | **3/29/2004** | **6/25/2004** | **9/16/2004** | **12/14/2004** | **4/1/2005** | **6/22/2005** | **9/8/2005** | **12/23/2005** | **3/16/2006** | **9/15/2006** | **4/4/2007** | **9/26/2007** |
| **Sample ID No.** | | | **LF1M1212AA** | **LF1M1212BA** | **LF1M1212CA** | **LF1M1212DA** | **LF1M1212EA** | **LF1M1212FA** | **LF1M1212GA** | **LF1M1212HA** | **LF1M1212IA** | **LF1M1212JA** | **LF1M1212LA** | **LF1M1212NA** | **LF1M1212OA** |
| **Depth to Water (ft)** | | | **3.09** | **2.72** | **3.31** | **3.13** | **3.14** | **2.92** | **4.48** | **5.39** | **3.57** | **3.15** | **4.35** | **2.85** | **5.77** |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,1,2-Trichloroethane | 1 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,1-dichloroethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,2,3-trichlorobenzene | 5 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,2,4-trimethylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,2-dichloroethane | 0.6 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,2-dichlorobenzene | 3 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,2-dibromo-3-chloropropane | 0.04 | 2 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,3,5-trimethylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,3-dichlorobenzene | 3 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,4-dichlorobenzene | 3 | 0.5 | U | U | U | U | U | U | U | U | U | U | 0.16 F | U | U |
| acetone | 50 | 10 | 2 F | U | 2.8 F | 1.8 F | U | U | U | U | U | U | 1.31 F | U | U |
| benzene | 1 | 0.1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| bromodichloromethane | 50 | 0.5 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| bromoform | 50 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| carbon disulfide | 1,000 | 0.5 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| chlorobenzene | 5* | 0.5 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| chloroethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| chloroform | 7 | 0.3 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| chloromethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| cis-1,2-dichloroethene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | 0.230 F |
| dichlorodifluoromethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| ethylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| isopropylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| methylene chloride | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | 0.110 F | U |
| methyl iodide | 5* | 0.5 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| n-propylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| m,p-xylene | 5* | 2 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| naphthalene | 10 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| o-xylene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| p-isopropyltoluene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| sec-butylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| tetrachloroethene | 5 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| tert-butylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| trichloroethene (TCE) | 5* | 1 | 0.74 F | 0.55 F | 0.78 F | 0.99 F | 0.74 F | 0.44 F | 0.48 F | 0.66 F | 0.69 F | 0.7 F | 0.53 F | 0.390 F | 0.280 F |
| toluene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| trichlorofluoromethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| vinyl chloride | 2 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| **Total VOCs (µg/L)** | | | **2.74** | **0.55** | **3.56** | **2.79** | **0.74** | **0.44** | **0.48** | **0.66** | **0.69** | **0.7** | **2** | **0.5** | **0.51** |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 97.7 | 93.2 | 87.9 | 114 | 122 | 119 | 125 | 163 | 202 | 169 | 290 | 130 | 170 |
| ammonia | 2 | 0.2 | U | U | 0.012 F | 0.041 F | U | 0.05 | 0.057 | 0.18 | 0.11 B | U | 0.15 | 0.054 B | 0.43 |
| BOD5 | -- | 2.4 | U | U | U | U | U | U | U | U | U | U | U | U | 2.3 |
| bromide | 2 | 0.5 | U | U | U | U | U | U | U | U | 0.17 F | U | 0.034 F | 0.022 F | 0.17 |
| COD | -- | 5 | U | U | U | U | U | U | U | 7.6 F | 14.8 | 12.2 | 7.1 F | 6.1 F | 13 |
| chloride | 250 | 1 | 9.4 | 15.8 | 11.3 | 9.3 | 16.2 | 7 | 8.4 | 7.3 | 10.2 | 8.4 | 7 | 5.7 | 21 |
| color | 15 | 5 | 2.5 | NA | NA | NA | NA | 7.5 | NA | NA | NA | **20** | NA | NA | NA |
| cyanide, Total | 200 | 0.02 | 0.041 J | NA | NA | NA | NA | U | NA | NA | NA | U | NA | NA | NA |
| hardness, Total | -- | 1 | 250 | 104 | 120 | 140 | 444 | 136 | 132 | 170 | 210 | 137 | 160 | 150 | 140 |
| nitrate | 10 | 1 | U | 0.82 F | 0.51 F | 0.28 F | U | U | U | U | U | U | U | U | U |
| TKN | 1 | 1 | U | 0.12 F | U | U | 0.22 B | 0.16 F | U | 1 | **1.9** | U | 0.061 F | U | 0.42 |
| sulfate | 250 | 1 | 9.1 | 7.9 | 8.1 | 7.3 | 6.1 | 5 | 3 | 4.4 | 7.5 | 7.3 | 3.8 | 4.4 B | 2.1 |
| TDS | 500 | 10 | 142 | 140 | 154 | 145 | 165 | 166 | 183 | 192 | 223 | 205 | 160 | 170 | 220 |
| TOC | -- | 1 | U | U | U | U | 0.66 F | 0.52 F | 0.68 F | 3.1 B | 0.71 F | 0.45 F | 0.67 F | U | 1.9 B |

For notes, please refer to the end of the Table Section.

**Table 2-2**
**LF001 (Landfill 1 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF1MW-12 | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Date of Collection** | | | **4/2/2008** | **9/17/2008** | **4/17/2009** | **3/31/2010** | **6/15/2011** | **6/26/2012** | **6/10/2013** | **6/17/2014** | **6/22/2015** | | |
| **Sample ID No.** | | | **LF1M1212PA** | **LF1M1212QA** | **LF1M1212RA** | **LF1M1212SA** | **LF1M1212TA** | **LF1M1212UA** | **LF1M1212VA** | **LF1M1212VA** | **LF1M1212WA** | | |
| **Depth to Water (ft)** | | | **2.79** | **4.65** | **3.11** | **2.78** | **3.31** | **4.6** | **3.21** | **3.4** | **3.2** | | |
| **VOCs (µg/L)** | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 5* | 1 | U | U | U | U | U | U | U | U | U | | |
| 1,1,2-Trichloroethane | 1 | 1 | U | U | U | U | U | U | U | U | U | | |
| 1,1-dichloroethane | 5* | 1 | U | U | U | U | U | U | U | U | U | | |
| 1,2,3-trichlorobenzene | 5 | 1 | U | U | U | U | U | U | U | U | U | | |
| 1,2,4-trimethylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | | |
| 1,2-dichloroethane | 0.6 | 1 | U | U | U | U | U | U | U | U | U | | |
| 1,2-dichlorobenzene | 3 | 1 | U | U | U | U | U | U | U | U | U | | |
| 1,2-dibromo-3-chloropropane | 0.04 | 2 | U | U | U | U | U | U | U | U | U | | |
| 1,3,5-trimethylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | | |
| 1,3-dichlorobenzene | 3 | 1 | U | U | U | U | U | U | U | U | U | | |
| 1,4-dichlorobenzene | 3 | 0.5 | 0.200 F | U | U | U | U | U | U | U | U | | |
| acetone | 50 | 10 | U | U | U | 2.47 F | U | U | U | U | 2.2 J | | |
| benzene | 1 | 0.1 | U | U | U | U | U | U | U | U | U | | |
| bromodichloromethane | 50 | 0.5 | U | U | U | U | U | U | U | U | U | | |
| bromoform | 50 | 1 | U | U | U | U | U | U | U | U | U | | |
| carbon disulfide | 1,000 | 0.5 | U | U | U | U | U | U | U | U | U | | |
| chlorobenzene | 5* | 0.5 | U | U | U | U | U | U | U | U | U | | |
| chloroethane | 5* | 1 | U | U | U | U | U | U | U | U | U | | |
| chloroform | 7 | 0.3 | U | U | U | U | U | U | U | U | U | | |
| chloromethane | 5* | 1 | U | U | U | U | U | U | U | U | U | | |
| cis-1,2-dichloroethene | 5* | 1 | U | U | U | U | U | U | U | U | U | | |
| dichlorodifluoromethane | 5* | 1 | U | U | U | U | U | U | U | U | U | | |
| ethylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | | |
| isopropylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | | |
| methylene chloride | 5* | 1 | U | U | U | U | U | U | U | U | U | | |
| methyl iodide | 5* | 0.5 | U | U | U | U | U | U | U | U | U | | |
| n-propylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | | |
| m,p-xylene | 5* | 2 | U | U | U | U | U | U | U | U | U | | |
| naphthalene | 10 | 1 | U | U | U | U | U | U | U | U | U | | |
| o-xylene | 5* | 1 | U | U | U | U | U | U | U | U | U | | |
| p-isopropyltoluene | 5* | 1 | U | U | U | U | U | U | U | U | U | | |
| sec-butylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | | |
| tetrachloroethene | 5 | 1 | U | U | U | U | U | U | U | U | U | | |
| tert-butylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | | |
| trichloroethene (TCE) | 5* | 1 | 0.510 F | 0.700 F | 0.490 F | 0.500 F | 0.50 F | 0.64 J | 0.56 J | 0.52 J | 0.50 J | | |
| toluene | 5* | 1 | U | U | U | U | U | U | U | U | U | | |
| trichlorofluoromethane | 5* | 1 | U | U | U | U | U | U | U | U | U | | |
| vinyl chloride | 2 | 1 | U | U | U | U | U | U | U | U | U | | |
| **Total VOCs (µg/L)** | | | **0.71** | **0.70** | **0.49** | **2.97** | **0.50** | **0.64** | **0.56** | **0.52** | **2.72** | | |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 200 | 170 | 180 | 120 B | 160 | 160 | 190 | 160 | 180 | | |
| ammonia | 2 | 0.2 | 0.13 | 0.11 B | 0.032 F | 0.027 F | 0.19 | 0.083 JB | 0.040 J | 0.037 J | 0.027 J | | |
| BOD5 | -- | 2.4 | U | U | U | U | U | 1.4 J | 1.5 J | 3.1 | U | | |
| bromide | 2 | 0.5 | 0.035 F | 0.040 F | 0.027 F | U | U | U | U | U | U | | |
| COD | -- | 5 | U | U | 3.7 F | U | U | 10 J | 11 J | U | U | | |
| chloride | 250 | 1 | 6.3 | 5.5 | 5.3 | 10 B | 6.2 | 5.0 | 4.5 J | 4.4 | 4.0 | | |
| color | 15 | 5 | U | NA | U | U | U | **25** | U | U | 10 | | |
| cyanide, Total | 200 | 0.02 | NA | NA | NA | NA | NA | U | U | U | U | | |
| hardness, Total | -- | 1 | 200 | 170 | 170 | 140 B | 150 | 150 | 200 | 160 | 180 | | |
| nitrate | 10 | 1 | U | U | U | 0.026 BF | U | U | 0.059 J | U | U | | |
| TKN | 1 | 1 | U | 0.27 B | U | 0.18 F | 0.50 F | 0.80 J | 0.46 J | U | 0.25 J | | |
| sulfate | 250 | 1 | 4.3 | 4.3 | 3.8 | 5.8 B | 2.1 J | 1.8 J | 3.0 J | 1.9 J | 2.8 J | | |
| TDS | 500 | 10 | 210 | 160 | 98 | 160 | 180 | 180 | 190 | 190 | 200 | | |
| TOC | -- | 1 | 0.47 F | 0.53 F | U | 1.7 | 0.74 F | 0.66 J | 0.56 J | 0.89 JB | 0.70 J | | |

For notes, please refer to the end of the Table Section.

**Table 2-2**

**LF001 (Landfill 1 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF1MW-13 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 12/8/2003 | 3/29/2004 | 6/25/2004 | 9/16/2004 | 12/14/2004 | 4/1/2005 | 6/22/2005 | 9/8/2005 | 12/23/2005 | 3/14/2006 | 9/15/2006 | 4/3/2007 | 9/26/2007 |
| Sample ID No. | | | LF1M1316AA | LF1M1316BA | LF1M1316CA | LF1M1316DA | LF1M1316EA | LF1M1316FA | LF1M1316GA | LF1M1316HA | LF1M1316IA | LF1M1316JA | LF1M1316LA | LF1M1316NA | LF1M1316OA |
| Depth to Water (ft) | | | 6.32 | 4.92 | 7.28 | 6.53 | 5.54 | 5.14 | 8.21 | 9.18 | 7.13 | 5.68 | 7.88 | 4.92 | 9.25 |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 5* | 1 | U | U | U | UM | U | U | U | U | U | U | U | U | U |
| 1,1,2-Trichloroethane | 1 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,1-dichloroethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,2,3-trichlorobenzene | 5 | 1 | U | U | U | U | U | UM | U | U | U | U | U | U | U |
| 1,2,4-trimethylbenzene | 5* | 1 | U | U | U | U | U | U | UM | U | U | U | U | U | U |
| 1,2-dichloroethane | 0.6 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,2-dichlorobenzene | 3 | 1 | U | U | U | U | U | U | U | UM | U | U | U | U | U |
| 1,2-dibromo-3-chloropropane | 0.04 | 2 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,3,5-trimethylbenzene | 5* | 1 | U | U | UM | U | U | U | UM | U | U | U | U | U | U |
| 1,3-dichlorobenzene | 3 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,4-dichlorobenzene | 3 | 0.5 | U | U | U | U | U | U | U | UM | U | U | 0.18 F | U | U |
| acetone | 50 | 10 | U | U | 4.9 F | 1.4 F | U | U | U | U | U | U | 1.03 F | U | U |
| benzene | 1 | 0.1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| bromodichloromethane | 50 | 0.5 | U | U | U | UM | U | U | U | UM | U | U | U | U | U |
| bromoform | 50 | 1 | U | U | U | U | U | U | U | UM | U | U | U | U | U |
| carbon disulfide | 1,000 | 0.5 | U | U | U | U | U | U | UM | U | U | U | U | U | U |
| chlorobenzene | 5* | 0.5 | U | U | U | U | U | U | U | UM | U | U | U | U | U |
| chloroethane | 5* | 1 | U | U | U | U | UM | U | U | U | U | U | U | U | U |
| chloroform | 7 | 0.3 | U | U | U | U | U | U | U | UM | U | U | U | U | U |
| chloromethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| cis-1,2-dichloroethene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| dichlorodifluoromethane | 5* | 1 | U | U | U | U | U | UM | U | U | U | U | U | U | U |
| ethylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| isopropylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| methylene chloride | 5* | 1 | U | U | U | U | UM | U | U | UM | U | U | 0.19 F | 0.200 F | U |
| methyl iodide | 5* | 0.5 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| n-propylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| m,p-xylene | 5* | 2 | U | U | U | U | U | U | UM | U | U | U | U | U | U |
| naphthalene | 10 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| o-xylene | 5* | 1 | U | U | U | U | U | U | UM | U | U | U | U | U | U |
| p-isopropyltoluene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| sec-butylbenzene | 5* | 1 | U | U | U | U | U | UM | U | U | U | U | U | U | U |
| tetrachloroethene | 5 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| tert-butylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| trichloroethene (TCE) | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| toluene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| trichlorofluoromethane | 5* | 1 | U | U | U | U | U | U | U | UM | U | U | U | U | U |
| vinyl chloride | 2 | 1 | **2.5** | **2.5** | 1.7 | **2.1** | **2.7 M** | **2.2** | 1.8 | **2.6** | 1.8 | 2 | 1.12 | 1.28 | 1.32 |
| **Total VOCs (µg/L)** | | | **2.5** | **2.5** | **6.6** | **3.5** | **2.7** | **2.2** | **1.8** | **2.6** | **1.8** | **2** | **2.52** | **1.48** | **1.32** |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 258 | 252 | 229 M | 260 M | 256 | 270 | 247 | 276 M | 243 | 230 B | 200 | 240 | 210 |
| ammonia | 2 | 0.2 | 0.23 | 0.17 | 0.2 | 0.21 J | 0.13 M | 0.19 | 0.13 | 0.23 | 0.26 M | 0.042 F | 0.32 | 0.14 | 0.35 |
| BOD5 | -- | 2.4 | U | U | 2.7 | U | U | U | U | 2.1 | U | U | 2.1 | U | U |
| bromide | 2 | 0.5 | U | U | U | U | U | U | U | UM | 0.4 M | U | 0.087 F | 0.094 F | 0.069 F |
| COD | -- | 5 | U | U | UM | U | U | 11.4 | 3.6 F | 15.9 | 13.2 J | U | 14 | 13 B | 11 |
| chloride | 250 | 1 | 18.1 | 18.2 | 18.3 | 19.6 | 15.9 M | 18 | 20.7 | 15.7 M | 16.6 M | 17.6 B | 20 | 16 | 15 |
| color | 15 | 5 | **150 J** | NA | NA | NA | NA | **120** | NA | NA | NA | **80** | NA | NA | NA |
| cyanide, Total | 200 | 0.02 | U | NA | NA | NA | NA | 0.0091 M | NA | NA | NA | U | NA | NA | NA |
| hardness, Total | -- | 1 | 330 | 252 | 216 M | 240 | 232 | 236 | 232 | 392 | 260 | 176 | 200 | 220 | 150 |
| nitrate | 10 | 1 | U | U | U | UM | U | U | U | UM | 0.08 F | U | 0.028 F | U | U |
| TKN | 1 | 1 | 0.31 | 0.56 | 0.47 | 0.23 B | 0.48 B | 0.29 | 0.43 | **1.1** | 1 J | 0.25 B | 0.26 F | 0.30 J | 0.32 |
| sulfate | 250 | 1 | 9.4 | 7.8 | 8.3 | 7.5 | 6.1 M | 6.8 | 7.8 | 6 M | 6 M | 5.6 | 7.1 | 4.7 F | 6.5 |
| TDS | 500 | 10 | 312 | 318 | 312 | 280 | 338 | 292 | 310 | 268 | 278 | 316 | 250 | 270 | 260 |
| TOC | -- | 1 | 2.2 | 2.1 | 0.52 F | 2.1 | 2.7 | 2.4 | 2 | 2.4 B | 1.9 | U | 2.5 | 3.2 | 2.8 |

For notes, please refer to the end of the Table Section.

**Table 2-2**
**LF001 (Landfill 1 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF1MW-13 | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Date of Collection** | | | **4/1/2008** | **9/17/2008** | **4/17/2009** | **3/30/2010** | **6/16/2011** | **6/21/2012** | **6/6/2013** | **6/12/2014** | **6/23/2015** | | |
| **Sample ID No.** | | | **LF1M1316PA** | **LF1M1316QA** | **LF1M1316RA** | **LF1M1316SA** | **LF1M1316TA** | **LF1M1316UA** | **LF1M1316VA** | **LF1M1316VA** | **LF1M1316WA** | | |
| **Depth to Water (ft)** | | | **4.65** | **8.59** | **6.33** | **5.85** | **6.8** | **7.35** | **6.85** | **7.24** | **6.56** | | |
| **VOCs (µg/L)** | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 5* | 1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| 1,1,2-Trichloroethane | 1 | 1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| 1,1-dichloroethane | 5* | 1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| 1,2,3-trichlorobenzene | 5 | 1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| 1,2,4-trimethylbenzene | 5* | 1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| 1,2-dichloroethane | 0.6 | 1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| 1,2-dichlorobenzene | 3 | 1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| 1,2-dibromo-3-chloropropane | 0.04 | 2 | U | U | U | U | NA | NA | NA | NA | NA | | |
| 1,3,5-trimethylbenzene | 5* | 1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| 1,3-dichlorobenzene | 3 | 1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| 1,4-dichlorobenzene | 3 | 0.5 | 0.180 F | U | U | U | NA | NA | NA | NA | NA | | |
| acetone | 50 | 10 | U | U | U | 1.31♦ | NA | NA | NA | NA | NA | | |
| benzene | 1 | 0.1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| bromodichloromethane | 50 | 0.5 | U | U | U | U | NA | NA | NA | NA | NA | | |
| bromoform | 50 | 1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| carbon disulfide | 1,000 | 0.5 | U | U | U | U | NA | NA | NA | NA | NA | | |
| chlorobenzene | 5* | 0.5 | U | U | U | U | NA | NA | NA | NA | NA | | |
| chloroethane | 5* | 1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| chloroform | 7 | 0.3 | U | U | U | U | NA | NA | NA | NA | NA | | |
| chloromethane | 5* | 1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| cis-1,2-dichloroethene | 5* | 1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| dichlorodifluoromethane | 5* | 1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| ethylbenzene | 5* | 1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| isopropylbenzene | 5* | 1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| methylene chloride | 5* | 1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| methyl iodide | 5* | 0.5 | U | U | U | U | NA | NA | NA | NA | NA | | |
| n-propylbenzene | 5* | 1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| m,p-xylene | 5* | 2 | U | U | U | U | NA | NA | NA | NA | NA | | |
| naphthalene | 10 | 1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| o-xylene | 5* | 1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| p-isopropyltoluene | 5* | 1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| sec-butylbenzene | 5* | 1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| tetrachloroethene | 5 | 1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| tert-butylbenzene | 5* | 1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| trichloroethene (TCE) | 5* | 1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| toluene | 5* | 1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| trichlorofluoromethane | 5* | 1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| vinyl chloride | 2 | 1 | 1.48 | 1.25 | 1.16♦ | 1.27 | NA | NA | NA | NA | NA | | |
| **Total VOCs (µg/L)** | | | **1.66** | **1.25** | **1.16** | **2.58** | NA | NA | NA | NA | NA | | |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 230 | 190 | 220♦ | 210 | 210* | 200 | 200 | 200 | 200 | | |
| ammonia | 2 | 0.2 | 0.17 | 0.34 | 0.17 | 0.16♦ | 0.57 | 0.21 B♦ | 0.25 J | 0.30 ♦ | 0.25 | | |
| BOD5 | -- | 2.4 | U | 2.3 | U | U | 3.9* | U | U | 1.9 J | U | | |
| bromide | 2 | 0.5 | 0.078 F♦ | 0.075 F | 0.089 F♦ | 0.078 F♦ | U | 0.13 J | U | U | 0.15 J | | |
| COD | -- | 5 | 15♦ | 8.2 F | 13 | 12♦ | 4.6 F | 8.6♦ | 15 J | 10 ♦ | 7.1 J | | |
| chloride | 250 | 1 | 14 | 14 | 15 | 13 | 14 | 14 | 12 | 11.0 | 11.0 | | |
| color | 15 | 5 | **100** | NA | **45** | U | **35** | **50♦** | U | **20♦** | **200 ♦** | | |
| cyanide, Total | 200 | 0.02 | NA | NA | NA | NA | U | U | U | U | U | | |
| hardness, Total | -- | 1 | 230 | 200 | 200 | 210♦ | 200 | 180 | 170 | 210 | 200 | | |
| nitrate | 10 | 1 | 0.016 F | U | 0.025 F | 0.015 F | U | U | U | U | U | | |
| TKN | 1 | 1 | 0.2 | 0.49 B | 0.18 F♦ | 0.54 B♦ | 0.57 F | 1.4 B♦ | 0.63 J | U | U | | |
| sulfate | 250 | 1 | 5.2 | 5.8 | 5.7 | 6.0 | 6.8 | 6.9♦ | 5.9 | 5.7 ♦ | 6.6 | | |
| TDS | 500 | 10 | 370 J♦ | 210 | 240 | 250 | 240 | 220 | 230 | 240 | 280 ♦ | | |
| TOC | -- | 1 | 2.1 J♦ | 2.0 | 1.5 | 2.0♦ | 1.9 | 2.2 | 2.8 | 2.3 B♦ | 2 | | |

For notes, please refer to the end of the Table Section.

**Table 2-2**

**LF001 (Landfill 1 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF1MW-14 | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Date of Collection** | | | 12/15/2004 | 4/4/2005 | 6/22/2005 | 9/9/2005 | 12/19/2005 | 3/15/2006 | 9/15/2006 | 4/3/2007 | 9/26/2007 | 4/2/2008 | 9/18/2008 | 4/21/2009 | 3/30/2010 | 6/16/2011 | 6/26/2012 | 6/6/2013 | 6/19/2014 | 6/24/2015 |
| **Sample ID No.** | | | LF1M1413EA | LF1M1413FA | LF1M1413GA | LF1M1413HA | LF1M1414IA | LF1M1414JA | LF1M1410LA | LF1M1414NA | LF1M1413OA | LF1M1414PA | LF1M1412QA | LF1M1412RA | LF1M1414SA | LF1M1414TA | LF1M1411UA | LF1M1414VA | LF1M1414VA | LF1M1414WA |
| **Depth to Water (ft)** | | | 6.91 | 5.87 | 10.67 | 12.88 | 8.41 | 6.64 | 10.42 | 5.90 | 15.63 | 5.37 | 11.90 | 7.41 | 6.85 | 8.90 | 10.75 | 8.47 | 8.85 | 8.53 |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | NA | NA |
| 1,1,2-Trichloroethane | 1 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | NA | NA |
| 1,1-dichloroethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | NA | NA |
| 1,2,3-trichlorobenzene | 5 | 1 | U | U | 0.28 F | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | NA | NA |
| 1,2,4-trimethylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | NA | NA |
| 1,2-dichloroethane | 0.6 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | NA | NA |
| 1,2-dichlorobenzene | 3 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | NA | NA |
| 1,2-dibromo-3-chloropropane | 0.04 | 2 | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | NA | NA |
| 1,3,5-trimethylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | NA | NA |
| 1,3-dichlorobenzene | 3 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | NA | NA |
| 1,4-dichlorobenzene | 3 | 0.5 | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | NA | NA |
| acetone | 50 | 10 | U | U | U | U | U | U | U | U | U | U | U | U | 1.45 | NA | NA | NA | NA | NA |
| benzene | 1 | 0.1 | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | NA | NA |
| bromodichloromethane | 50 | 0.5 | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | NA | NA |
| bromoform | 50 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | NA | NA |
| carbon disulfide | 1,000 | 0.5 | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | NA | NA |
| chlorobenzene | 5* | 0.5 | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | NA | NA |
| chloroethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | NA | NA |
| chloroform | 7 | 0.3 | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | NA | NA |
| chloromethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | NA | NA |
| cis-1,2-dichloroethene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | NA | NA |
| dichlorodifluoromethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | NA | NA |
| ethylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | NA | NA |
| isopropylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | NA | NA |
| methylene chloride | 5* | 1 | U | U | U | U | U | U | U | U | 0.250 F | U | U | U | U | NA | NA | NA | NA | NA |
| methyl iodide | 5* | 0.5 | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | NA | NA |
| n-propylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | NA | NA |
| m,p-xylene | 5* | 2 | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | NA | NA |
| naphthalene | 10 | 1 | U | U | 0.21 F | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | NA | NA |
| o-xylene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | NA | NA |
| p-isopropyltoluene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | NA | NA |
| sec-butylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | NA | NA |
| tetrachloroethene | 5 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | NA | NA |
| tert-butylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | NA | NA |
| trichloroethene (TCE) | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | NA | NA |
| toluene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | NA | NA |
| trichlorofluoromethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | NA | NA |
| vinyl chloride | 2 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | NA | NA |
| **Total VOCs (µg/L)** | | | **0** | **0** | **0.49** | **0** | **0** | **0** | **0** | **0** | **0.25** | **0** | **0** | **0** | **1.45** | NA | NA | NA | NA | NA |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 57 | 52.1 | 58.2 | 70.1 | 52.2 | 28.7 | 64 | 42 | 76 | 48 | 66 | 54 | 46 | 66 | 68 | 60 | 64 | 61 |
| ammonia | 2 | 0.2 | 0.071 F | 0.024 F | U | 0.076 | U | U | U | 0.012 F | 0.11 | 0.013 F | U | U | U | 0.14 F | 0.13 B | 0.033 J | U | 0.028 J |
| BOD5 | -- | 2.4 | U | U | U | U | U | U | U | U | NA | U | U | U | U | U | U | U | U | U |
| bromide | 2 | 0.5 | U | U | U | U | U | 0.52 | U | U | U | U | U | U | U | U | U | U | U | U |
| COD | -- | 5 | U | U | U | 8.8 F | 18.4 | U | 7.1 F | 8.3 F | 120 | 4.1 F | U | 3.7 F | U | U | 6.0 J | 22 | U | U |
| chloride | 250 | 1 | 5.5 | 4.7 | 8.1 | 7.6 | 2.7 | 1.9 | 3.4 | 1.6 | 6.0 | 1.4 | 2.1 | 0.75 F | 4.4 | 3.0 | 6.7 | 2.8 J | 2.7 | 1.8 J |
| color | 15 | 5 | NA | **25** | NA | NA | NA | 10 | NA | NA | NA | U | NA | U | U | U | U | U | U | 5 |
| cyanide, Total | 200 | 0.02 | NA | U | NA | NA | NA | U | NA | NA | NA | NA | NA | NA | NA | U | U | U | U | U |
| hardness, Total | -- | 1 | 72 | 58 | 84 | 105 | 88 | 21.3 | 76 B | 56 | 80 | 48 | 92 | 50 | 63 | 66 | 84 | 73 | 95 J | 68 |
| nitrate | 10 | 1 | 0.070 F | 0.38 F | U | 0.83 F | 0.1 F | U | 0.2 F | 0.072 F | 0.15 | 0.43 | 0.24 | 0.15 | 1.3 | U | 0.98 | 0.95 | 0.64 ♦ | 0.96 |
| TKN | 1 | 1 | 0.23 | U | U | 0.4 | 0.065 | U | 0.3 F | U | **4.3** | U | 0.48 | 0.93 | 0.19 FB | 0.54 F | 0.82 JB | 0.70 J | U | U |
| sulfate | 250 | 1 | 10.2 | 9.9 | 10.5 | 10 | 10.5 | 9.8 | 9.8 | 9.1 | 9.8 | 7.8 | 8.0 | 7.5 | 7.9 | 8.0 | 8.3 | 7.0 | 6.8 ♦ | 6.5 |
| TDS | 500 | 10 | 107 | 778 | 121 | 140 | 99 | 95 | 98 | 68 | 150 | 67 | 47 | 66 | 74 | 83 | 100 | 80 | 84 ♦ | 83 |
| TOC | -- | 1 | U | 0.76 F | 0.45 F | 0.84 F | U | 0.71 F | 0.61 F | 0.61 F | 3.4 | 1.3 | 0.45 F | 0.58 F | 0.74 F | 0.94 F | 0.98 J | 1.0 | 0.78 JB | 0.67 J |

For notes, please refer to the end of the Table Section.

**Table 2-2**

**LF001 (Landfill 1 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF1MW-1R | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 12/5/2003 | 4/4/2005 | 3/15/2006 | 4/3/2007 | 4/1/2008 | 4/21/2009 | 3/30/2010 | 6/20/2011 | 6/26/2012 | 6/12/2013 | 6/25/2014 |
| Sample ID No. | | | LF1M01R11AA | LF1M01R11FA | LF1M01R11JA | LF1M01R11NA | LF1M01R11PA | LF1M01R11RA | LF1M01R11SA | LF1M01R11TA | LF1M01R11UA | LF1M01R11VA | LF1M01R11CA |
| Depth to Water (ft) | | | 4.30 | 3.99 | 3.14 | 4.09 | 3.75 | 4.15 | 4.18 | 4.93 | 4.62 | 4.02 | 3.27 |
| **VOCs (µg/L)** | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 5* | 1 | U | U | U | U | U | U | U | NA | NA | NA | NA |
| 1,1-dichloroethane | 5* | 1 | U | U | U | U | U | U | U | NA | NA | NA | NA |
| 1,2,3-trichlorobenzene | 5 | 1 | U | U | U | U | U | U | U | NA | NA | NA | NA |
| 1,2,4-trimethylbenzene | 5* | 1 | U | U | U | U | U | U | U | NA | NA | NA | NA |
| 1,2-dichloroethane | 0.6 | 1 | U | U | U | U | U | U | U | NA | NA | NA | NA |
| 1,2-dichlorobenzene | 3 | 1 | U | U | U | U | U | U | U | NA | NA | NA | NA |
| 1,2-dibromo-3-chloropropane | 0.04 | 2 | U | U | U | U | U | U | U | NA | NA | NA | NA |
| 1,3,5-trimethylbenzene | 5* | 1 | U | U | U | U | U | U | U | NA | NA | NA | NA |
| 1,3-dichlorobenzene | 3 | 1 | U | U | U | U | U | U | U | NA | NA | NA | NA |
| 1,4-dichlorobenzene | 3 | 0.5 | U | U | U | U | U | U | U | NA | NA | NA | NA |
| acetone | 50 | 10 | U | U | U | U | U | U | 1.63 F | NA | NA | NA | NA |
| benzene | 1 | 0.1 | U | U | U | U | U | U | U | NA | NA | NA | NA |
| bromodichloromethane | 50 | 0.5 | U | U | U | U | U | U | U | NA | NA | NA | NA |
| bromoform | 50 | 1 | U | U | U | U | U | U | U | NA | NA | NA | NA |
| carbon disulfide | 1,000 | 0.5 | U | U | U | U | U | U | U | NA | NA | NA | NA |
| chlorobenzene | 5* | 0.5 | U | U | U | U | U | U | U | NA | NA | NA | NA |
| chloroethane | 5* | 1 | U | U | U | U | U | U | U | NA | NA | NA | NA |
| chloroform | 7 | 0.3 | U | U | U | U | U | U | U | NA | NA | NA | NA |
| chloromethane | 5* | 1 | U | U | U | U | U | U | U | NA | NA | NA | NA |
| cis-1,2-dichloroethene | 5* | 1 | U | U | U | U | U | U | U | NA | NA | NA | NA |
| dichlorodifluoromethane | 5* | 1 | U | U | U | U | U | U | U | NA | NA | NA | NA |
| ethylbenzene | 5* | 1 | U | U | U | U | U | U | U | NA | NA | NA | NA |
| isopropylbenzene | 5* | 1 | U | U | U | U | U | U | U | NA | NA | NA | NA |
| methylene chloride | 5* | 1 | U | U | U | U | U | U | U | NA | NA | NA | NA |
| methyl iodide | 5* | 0.5 | U | U | U | U | U | U | U | NA | NA | NA | NA |
| n-propylbenzene | 5* | 1 | U | U | U | U | U | U | U | NA | NA | NA | NA |
| m,p-xylene | 5* | 2 | U | U | U | U | U | U | U | NA | NA | NA | NA |
| naphthalene | 10 | 1 | U | U | U | U | U | U | U | NA | NA | NA | NA |
| o-xylene | 5* | 1 | U | U | U | U | U | U | U | NA | NA | NA | NA |
| p-isopropyltoluene | 5* | 1 | U | U | U | U | U | U | U | NA | NA | NA | NA |
| sec-butylbenzene | 5* | 1 | U | U | U | U | U | U | U | NA | NA | NA | NA |
| tetrachloroethene | 5 | 1 | U | U | U | U | U | U | U | NA | NA | NA | NA |
| tert-butylbenzene | 5* | 1 | U | U | U | U | U | U | U | NA | NA | NA | NA |
| trichloroethene (TCE) | 5* | 1 | U | U | U | U | U | U | U | NA | NA | NA | NA |
| toluene | 5* | 1 | U | U | U | U | U | U | U | NA | NA | NA | NA |
| trichlorofluoromethane | 5* | 1 | U | U | U | U | U | U | U | NA | NA | NA | NA |
| vinyl chloride | 2 | 1 | U | U | U | U | U | U | U | NA | NA | NA | NA |
| **Total VOCs (µg/L)** | | | **0** | **0** | **0** | **0** | **0** | **0** | **1.63** | **NA** | **NA** | **NA** | **NA** |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 43.8 B | 44.3 | 47.3 | 34 | 36 | 30 | 40 | 59 | 41 | 25 | 35 |
| ammonia | 2 | 0.2 | U | 0.076 | 0.061 | 0.080 | 0.037 F | 0.07 | 0.046 F | 0.25 | 0.13 JB | 0.093 J | 0.089 JB |
| BOD5 | -- | 2.4 | U | U | U | U | U | U | U | U | U | U | UJ |
| bromide | 2 | 0.5 | U | 0.32 F | 0.49 F | 0.033 F | 0.028 F | 0.014 F | U | U | U | U | U |
| COD | -- | 5 | U | 19.2 | 13.2 | 19 B | 20 | 17 | 6.5 F | U | 37 | 18 J | 15 J |
| chloride | 250 | 1 | 33 B | 40.4 | 13.7 | 9.4 | 7.0 | 6.3 | 7.3 | 10.0 | 10.0 | 8.2 | 7.1 |
| color | 15 | 5 | **80** | **40** | **80** | NA | **80** | **50** | U | **40** | U | U | 15 J |
| cyanide, Total | 200 | 0.02 | 0.034 B | U | U | NA | NA | NA | NA | NA | U | U | NA |
| Fluoride | 1.5 | 1 | NA | NA | NA | NA | NS | NA | NA | U | NA | 0.18 J | 0.14 J |
| hardness, Total | -- | 1 | 150 B | 76 | 44.8 | 60 | 48 | 44 | 38 | 77 | 74 | 4.1 | 110 |
| nitrate | 10 | 1 | U | U | U | U | U | 0.021 F | 0.013 F | U | U | 0.10 J | UJ |
| TKN | 1 | 1 | 0.54 | U | 0.063 F | 0.24 | 0.15 F | 0.32 | 0.30 B | 0.53 F | 1.2 B | 0.29 J | U |
| sulfate | 250 | 1 | 9.9 B | 6.7 | 7.8 | 11 | 9.0 | 9.9 | 8.7 | 8.4 | 8.3 | 10.0 | 10.0 |
| TDS | 500 | 10 | 130 B | 147 | 141 | 86 | 75 | 81 | 76 | 110 | 89 | 88 | 78 |
| TOC | -- | 1 | 2.1 | 4.8 | 4.2 | 5.1 | 7.1 | 8.0 | 2.6 | 1.7 | 5.1 | 5.1 | 3.3 |

For notes, please refer to the end of the Table Section.

**Table 2-2**

**LF001 (Landfill 1 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF1MW-1R | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 6/22/2015 | | | | | | | | | | |
| Sample ID No. | | | LF1M01R11WA | | | | | | | | | | |
| Depth to Water (ft) | | | 4.39 | | | | | | | | | | |
| **VOCs (µg/L)** | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 5* | 1 | NA | | | | | | | | | | |
| 1,1-dichloroethane | 5* | 1 | NA | | | | | | | | | | |
| 1,2,3-trichlorobenzene | 5 | 1 | NA | | | | | | | | | | |
| 1,2,4-trimethylbenzene | 5* | 1 | NA | | | | | | | | | | |
| 1,2-dichloroethane | 0.6 | 1 | NA | | | | | | | | | | |
| 1,2-dichlorobenzene | 3 | 1 | NA | | | | | | | | | | |
| 1,2-dibromo-3-chloropropane | 0.04 | 2 | NA | | | | | | | | | | |
| 1,3,5-trimethylbenzene | 5* | 1 | NA | | | | | | | | | | |
| 1,3-dichlorobenzene | 3 | 1 | NA | | | | | | | | | | |
| 1,4-dichlorobenzene | 3 | 0.5 | NA | | | | | | | | | | |
| acetone | 50 | 10 | NA | | | | | | | | | | |
| benzene | 1 | 0.1 | NA | | | | | | | | | | |
| bromodichloromethane | 50 | 0.5 | NA | | | | | | | | | | |
| bromoform | 50 | 1 | NA | | | | | | | | | | |
| carbon disulfide | 1,000 | 0.5 | NA | | | | | | | | | | |
| chlorobenzene | 5* | 0.5 | NA | | | | | | | | | | |
| chloroethane | 5* | 1 | NA | | | | | | | | | | |
| chloroform | 7 | 0.3 | NA | | | | | | | | | | |
| chloromethane | 5* | 1 | NA | | | | | | | | | | |
| cis-1,2-dichloroethene | 5* | 1 | NA | | | | | | | | | | |
| dichlorodifluoromethane | 5* | 1 | NA | | | | | | | | | | |
| ethylbenzene | 5* | 1 | NA | | | | | | | | | | |
| isopropylbenzene | 5* | 1 | NA | | | | | | | | | | |
| methylene chloride | 5* | 1 | NA | | | | | | | | | | |
| methyl iodide | 5* | 0.5 | NA | | | | | | | | | | |
| n-propylbenzene | 5* | 1 | NA | | | | | | | | | | |
| m,p-xylene | 5* | 2 | NA | | | | | | | | | | |
| naphthalene | 10 | 1 | NA | | | | | | | | | | |
| o-xylene | 5* | 1 | NA | | | | | | | | | | |
| p-isopropyltoluene | 5* | 1 | NA | | | | | | | | | | |
| sec-butylbenzene | 5* | 1 | NA | | | | | | | | | | |
| tetrachloroethene | 5 | 1 | NA | | | | | | | | | | |
| tert-butylbenzene | 5* | 1 | NA | | | | | | | | | | |
| trichloroethene (TCE) | 5* | 1 | NA | | | | | | | | | | |
| toluene | 5* | 1 | NA | | | | | | | | | | |
| trichlorofluoromethane | 5* | 1 | NA | | | | | | | | | | |
| vinyl chloride | 2 | 1 | NA | | | | | | | | | | |
| **Total VOCs (µg/L)** | | | **NA** | | | | | | | | | | |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 37 | | | | | | | | | | |
| ammonia | 2 | 0.2 | 0.097 J | | | | | | | | | | |
| BOD5 | -- | 2.4 | U | | | | | | | | | | |
| bromide | 2 | 0.5 | U | | | | | | | | | | |
| COD | -- | 5 | U | | | | | | | | | | |
| chloride | 250 | 1 | 7.3 | | | | | | | | | | |
| color | 15 | 5 | **250** | | | | | | | | | | |
| cyanide, Total | 200 | 0.02 | U | | | | | | | | | | |
| Fluoride | 1.5 | 1 | U | | | | | | | | | | |
| hardness, Total | -- | 1 | 58 | | | | | | | | | | |
| nitrate | 10 | 1 | U | | | | | | | | | | |
| TKN | 1 | 1 | U | | | | | | | | | | |
| sulfate | 250 | 1 | 9.8 | | | | | | | | | | |
| TDS | 500 | 10 | 80 | | | | | | | | | | |
| TOC | -- | 1 | 4.9 | | | | | | | | | | |

For notes, please refer to the end of the Table Section.

**Table 2-2**

**LF001 (Landfill 1 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF1MW-103 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 3/31/2004 | 6/28/2004 | 9/17/2004 | 12/15/2004 | 4/5/2005 | 6/23/2005 | 9/9/2005 | 12/22/2005 | 3/17/2006 | 9/15/2006 | 4/4/2007 | 9/27/2007 | 4/1/2008 |
| Sample ID No. | | | LF1M10334BA | Not Sampled | LF1M10335DA | Not Sampled | Not Sampled | LF1M10335GA | LF1M10335HA | LF1M10335IA | Not Sampled | LF1M10314LA | LF1M10333NA | LF1M10335OA | LF1M10331PA |
| Depth to Water (ft) | | | 33.77 | 34.37 | 34.90 | 34.41 | 34.41 | 34.68 | 34.75 | 34.50 | 34.45 | 33.60 | 32.93 | 33.12 | 30.61 |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 5* | 1 | U | NS | U | NS | NS | U | U | U | NS | U | U | U | U |
| 1,1-dichloroethane | 5* | 1 | U | NS | U | NS | NS | U | U | U | NS | U | U | U | U |
| 1,2,3-trichlorobenzene | 5 | 1 | U | NS | U | NS | NS | U | U | U | NS | U | U | U | U |
| 1,2,4-trimethylbenzene | 5* | 1 | U | NS | U | NS | NS | U | U | U | NS | U | U | U | U |
| 1,2-dichloroethane | 0.6 | 1 | U | NS | U | NS | NS | U | U | U | NS | U | U | U | U |
| 1,2-dichlorobenzene | 3 | 1 | U | NS | U | NS | NS | U | U | U | NS | U | U | U | U |
| 1,2-dibromo-3-chloropropane | 0.04 | 2 | U | NS | U | NS | NS | U | U | U | NS | U | U | U | U |
| 1,3,5-trimethylbenzene | 5* | 1 | U | NS | U | NS | NS | U | U | U | NS | U | U | U | U |
| 1,3-dichlorobenzene | 3 | 1 | U | NS | U | NS | NS | U | U | U | NS | U | U | U | U |
| 1,4-dichlorobenzene | 3 | 0.5 | U | NS | U | NS | NS | U | U | U | NS | U | U | 0.180 F | U |
| acetone | 50 | 10 | 4.9 F | NS | 1.5 F | NS | NS | U | U | U | NS | U | U | U | U |
| benzene | 1 | 0.1 | U | NS | U | NS | NS | U | U | U | NS | U | U | U | U |
| bromodichloromethane | 50 | 0.5 | U | NS | U | NS | NS | U | U | U | NS | U | U | U | U |
| bromoform | 50 | 1 | U | NS | U | NS | NS | U | U | U | NS | U | U | U | U |
| carbon disulfide | 1,000 | 0.5 | 0.31 F | NS | U | NS | NS | U | U | U | NS | U | U | U | U |
| chlorobenzene | 5* | 0.5 | U | NS | U | NS | NS | U | U | U | NS | U | U | U | U |
| chloroethane | 5* | 1 | U | NS | U | NS | NS | U | U | U | NS | U | U | U | U |
| chloroform | 7 | 0.3 | 4.7 B | NS | 0.51 B | NS | NS | U | U | U | NS | U | U | U | U |
| chloromethane | 5* | 1 | U | NS | U | NS | NS | U | U | U | NS | U | U | U | U |
| cis-1,2-dichloroethene | 5* | 1 | U | NS | U | NS | NS | U | U | U | NS | U | U | U | U |
| dichlorodifluoromethane | 5* | 1 | U | NS | U | NS | NS | U | U | U | NS | U | U | U | U |
| ethylbenzene | 5* | 1 | U | NS | U | NS | NS | U | U | U | NS | U | U | U | U |
| isopropylbenzene | 5* | 1 | U | NS | U | NS | NS | U | U | U | NS | U | U | U | U |
| methylene chloride | 5* | 1 | U | NS | U | NS | NS | U | U | U | NS | U | U | U | U |
| methyl iodide | 5* | 0.5 | U | NS | U | NS | NS | U | U | U | NS | U | U | U | U |
| n-propylbenzene | 5* | 1 | U | NS | U | NS | NS | U | U | U | NS | U | U | U | U |
| m,p-xylene | 5* | 2 | U | NS | U | NS | NS | U | U | U | NS | U | U | U | U |
| naphthalene | 10 | 1 | U | NS | U | NS | NS | U | U | U | NS | U | U | U | U |
| o-xylene | 5* | 1 | U | NS | U | NS | NS | U | U | U | NS | U | U | U | U |
| p-isopropyltoluene | 5* | 1 | U | NS | U | NS | NS | U | U | U | NS | U | U | U | U |
| sec-butylbenzene | 5* | 1 | U | NS | U | NS | NS | U | U | U | NS | U | U | U | U |
| tetrachloroethene | 5 | 1 | U | NS | U | NS | NS | U | U | U | NS | U | U | U | U |
| tert-butylbenzene | 5* | 1 | U | NS | U | NS | NS | U | U | U | NS | U | U | U | U |
| trichloroethene (TCE) | 5* | 1 | U | NS | U | NS | NS | U | U | U | NS | U | U | U | U |
| toluene | 5* | 1 | 0.34 F | NS | U | NS | NS | U | U | U | NS | U | U | U | U |
| trichlorofluoromethane | 5* | 1 | U | NS | U | NS | NS | U | U | U | NS | U | U | U | U |
| vinyl chloride | 2 | 1 | U | NS | U | NS | NS | U | U | U | NS | U | U | U | U |
| **Total VOCs (µg/L)** | | | **10.25** | **NS** | **2.01** | **NS** | **NS** | **0** | **0** | **0** | **NS** | **0** | **0** | **0.180** | **0** |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | 460 | 300 |
| ammonia | 2 | 0.2 | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NA | 0.34 |
| BOD5 | -- | 2.4 | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NA | NA |
| bromide | 2 | 0.5 | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | 0.86 F | NA |
| COD | -- | 5 | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NA | 22 |
| chloride | 250 | 1 | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | 31 | NA |
| color | 15 | 5 | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NA | NA |
| cyanide, Total | 200 | 0.02 | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NA | NA |
| Fluoride | 1.5 | 1 | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NA | NA |
| hardness, Total | -- | 1 | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | 32 | 28 |
| nitrate | 10 | 1 | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | **220** | NA |
| TKN | 1 | 1 | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NA | **1.6** |
| sulfate | 250 | 1 | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | **390** | NA |
| TDS | 500 | 10 | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | **2,400** | NA |
| TOC | -- | 1 | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | 2.2 | 2.9 |

For notes, please refer to the end of the Table Section.

**Table 2-2**

**LF001 (Landfill 1 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF1MW-103 | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 9/18/2008 | 4/21/2009 | 3/31/2010 | 6/16/2011 | 6/26/2012 | 6/12/2013 | 6/18/2014 | 6/23/2015 | | | |
| Sample ID No. | | | LF1M10333QA | LF1M10333RA | LF1M10317SA | LF1M10312TA | LF1M10318UA | LF1M10319VA | LF1M10317VA | LF1M10317WA | | | |
| Depth to Water (ft) | | | 17.51 | 14.10 | 16.60 | 12.31 | 17.61 | 19.84 | 20.19 | 20.92 | | | |
| **VOCs (µg/L)** | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 5* | 1 | U | U | U | U | U | U | NA | NA | | | |
| 1,1-dichloroethane | 5* | 1 | U | U | U | U | U | U | NA | NA | | | |
| 1,2,3-trichlorobenzene | 5 | 1 | U | U | U | U | U | U | NA | NA | | | |
| 1,2,4-trimethylbenzene | 5* | 1 | U | U | U | U | U | U | NA | NA | | | |
| 1,2-dichloroethane | 0.6 | 1 | U | U | U | U | U | U | NA | NA | | | |
| 1,2-dichlorobenzene | 3 | 1 | U | U | U | U | U | U | NA | NA | | | |
| 1,2-dibromo-3-chloropropane | 0.04 | 2 | U | U | U | U | U | U | NA | NA | | | |
| 1,3,5-trimethylbenzene | 5* | 1 | U | U | U | U | U | U | NA | NA | | | |
| 1,3-dichlorobenzene | 3 | 1 | U | U | U | U | U | U | NA | NA | | | |
| 1,4-dichlorobenzene | 3 | 0.5 | U | U | U | U | U | U | NA | NA | | | |
| acetone | 50 | 10 | 13.6 | 18.0 | 13.5 | 13 | 13 | 13 | NA | NA | | | |
| benzene | 1 | 0.1 | U | U | U | U | U | U | NA | NA | | | |
| bromodichloromethane | 50 | 0.5 | U | U | U | U | U | U | NA | NA | | | |
| bromoform | 50 | 1 | U | U | U | U | U | U | NA | NA | | | |
| carbon disulfide | 1,000 | 0.5 | U | U | U | U | U | U | NA | NA | | | |
| chlorobenzene | 5* | 0.5 | U | U | U | U | U | U | NA | NA | | | |
| chloroethane | 5* | 1 | U | U | U | U | U | U | NA | NA | | | |
| chloroform | 7 | 0.3 | U | U | U | U | U | U | NA | NA | | | |
| chloromethane | 5* | 1 | U | U | U | U | 0.33 J | U | NA | NA | | | |
| cis-1,2-dichloroethene | 5* | 1 | U | U | U | U | U | U | NA | NA | | | |
| dichlorodifluoromethane | 5* | 1 | U | U | U | U | U | U | NA | NA | | | |
| ethylbenzene | 5* | 1 | U | U | U | U | U | U | NA | NA | | | |
| isopropylbenzene | 5* | 1 | U | U | U | U | U | U | NA | NA | | | |
| methylene chloride | 5* | 1 | U | U | U | U | U | U | NA | NA | | | |
| methyl iodide | 5* | 0.5 | U | U | U | U | U | U | NA | NA | | | |
| n-propylbenzene | 5* | 1 | U | U | U | U | U | U | NA | NA | | | |
| m,p-xylene | 5* | 2 | U | U | U | U | U | U | NA | NA | | | |
| naphthalene | 10 | 1 | U | U | U | U | U | 0.31 J | NA | NA | | | |
| o-xylene | 5* | 1 | U | U | U | U | U | U | NA | NA | | | |
| p-isopropyltoluene | 5* | 1 | U | U | U | U | U | U | NA | NA | | | |
| sec-butylbenzene | 5* | 1 | U | U | U | U | U | U | NA | NA | | | |
| tetrachloroethene | 5 | 1 | U | U | U | U | U | U | NA | NA | | | |
| tert-butylbenzene | 5* | 1 | U | U | U | U | U | U | NA | NA | | | |
| trichloroethene (TCE) | 5* | 1 | U | U | U | U | U | U | NA | NA | | | |
| toluene | 5* | 1 | U | U | U | U | U | U | NA | NA | | | |
| trichlorofluoromethane | 5* | 1 | U | U | U | U | U | U | NA | NA | | | |
| vinyl chloride | 2 | 1 | U | U | U | U | U | U | NA | NA | | | |
| **Total VOCs (µg/L)** | | | **13.60** | **18.0** | **13.5** | **13** | **13.33** | **13.31** | **NA** | **NA** | | | |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 310 | 350 | 460 | U | 390 | U | 370 | 350 | | | |
| ammonia | 2 | 0.2 | NS | **21** | **25** | **25** | U | **31** | U | **32** | | | |
| BOD5 | -- | 2.4 | NS | NA | NA | U | U | U | U | U | | | |
| bromide | 2 | 0.5 | NS | 0.12 | 0.10 | U | 0.12 J | U | U | 0.14 J | | | |
| COD | -- | 5 | NS | 37 | 12 | U | U | 8.7 J | U | U | | | |
| chloride | 250 | 1 | NA | 4.9 | 4.3 B | U | 5.2 | U | 4.0 | 5.4 | | | |
| color | 15 | 5 | NA | 10 | U | U | U | U | U | **30** | | | |
| cyanide, Total | 200 | 0.02 | NA | NA | NA | NA | U | U | U | U | | | |
| Fluoride | 1.5 | 1 | NA | NA | NA | U | 0.75 J | U | 0.74 | 0.76 J | | | |
| hardness, Total | -- | 1 | 32 | 18 | 32 B | 23 | U | U | 14 | 25 | | | |
| nitrate | 10 | 1 | NS | 5.9 | 2.1 B | U | 1.0 | U | 0.61 | 0.52 | | | |
| TKN | 1 | 1 | NS | **21** | **30** | **22** | U | **8.6** | U | **22** | | | |
| sulfate | 250 | 1 | NS | 27 | 18 B | U | 14.0 | U | 14.0 | 15.0 | | | |
| TDS | 500 | 10 | NS | 440 | 420 | U | 370 | U | 350 | 330 | | | |
| TOC | -- | 1 | NS | 4.2 | 2.9 | 2.4 | U | 1.7 | 2.1 B | 1.5 | | | |

For notes, please refer to the end of the Table Section.

**Table 2-2**

**LF001 (Landfill 1 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF1P-2 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 12/22/2005 | 3/16/2006 | 6/19/2006 | 9/14/2006 | 12/18/2006 | 4/4/2007 | 9/26/2007 | 4/1/2008 | 9/18/2008 | 4/21/2009 | 3/30/2010 | 6/15/2011 | 6/21/2012 |
| Sample ID No. | | | LF1P0213IA | LF1P0213JA | LF1P0213KA | LF1P0213LA | LF1P0213MA | LF1P0213NA | LF1P0213OA | LF1P0213PA | LF1P0213QA | LF1P0213RA | LF1P0213SA | LF1P0213TA | LF1P0213UA |
| Depth to Water (ft) | | | 5.77 | 4.96 | 5.82 | 5.89 | 5.28 | 4.77 | 6.25 | 4.15 | 6.05 | 5.02 | 4.78 | 4.80 | 5.51 |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,1-dichloroethane | 5* | 1 | U | U | U | 0.2 F | 0.220 F | 0.130 F | 0.140 F | U | U | U | 0.120 F | U | U |
| 1,2,3-trichlorobenzene | 5 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,2,4-trimethylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,2-dichloroethane | 0.6 | 1 | U | U | U | U | U | U | U | U | U | U | U | 0.16 J | U |
| 1,2-dichlorobenzene | 3 | 1 | U | U | U | 0.19 F | 0.290 F | 0.250 F | 0.350 F | 0.250 F | 0.370 F | 0.220 F | 0.500 F | 0.43 J | 0.33 J |
| 1,2-dibromo-3-chloropropane | 0.04 | 2 | U | U | U | U | UJ | U | U | U | U | U | U | U | U |
| 1,3,5-trimethylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,3-dichlorobenzene | 3 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,4-dichlorobenzene | 3 | 0.5 | 1.3 | 1.1 | 1.2 | 1.72 | 2.21 | 1.87 | 2.04 | 1.70 | 2.30 | 1.38 | 2.70 | 2.50 | 1.60 |
| acetone | 50 | 10 | U | U | U | 2.86 F | U | U | U | U | U | U | U | U | U |
| benzene | 1 | 0.1 | 0.78 | 0.77 | 0.76 | 0.95 | **1.01** | 0.670 | 0.700 | 0.550 | 0.730 | 0.540 | 0.800 | 0.68 J | 0.45 J |
| bromodichloromethane | 50 | 0.5 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| bromoform | 50 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| carbon disulfide | 1,000 | 0.5 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| chlorobenzene | 5* | 0.5 | 1.7 | 1.4 | 1.6 | 2.04 | 2.27 | 1.92 | 2.05 | 1.43 | 1.86 | 1.45 | 2.21 | 2.0 | 1.1 |
| chloroethane | 5* | 1 | U | U | 0.25 F | 0.2 F | 0.300 F | 0.220 F | U | U | U | U | 0.340 F | U | U |
| chloroform | 7 | 0.3 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| chloromethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| cis-1,2-dichloroethene | 5* | 1 | U | U | U | U | 0.120 F | U | U | U | U | U | U | U | U |
| dichlorodifluoromethane | 5* | 1 | U | 0.35 F | 0.26 F | U | U | 0.240 F | 0.140 F | U | U | U | U | U | U |
| ethylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| isopropylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| methylene chloride | 5* | 1 | U | U | U | 0.13 F | U | 0.100 F | U | U | U | U | U | U | U |
| methyl iodide | 5* | 0.5 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| n-propylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| m,p-xylene | 5* | 2 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| naphthalene | 10 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| o-xylene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| p-isopropyltoluene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| sec-butylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | 0.28 J | U |
| tetrachloroethene | 5 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| tert-butylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | 0.120 F | U | U |
| trichloroethene (TCE) | 5* | 1 | U | U | U | U | 0.190 F | U | U | 0.110 F | U | U | U | U | U |
| toluene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| trichlorofluoromethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| vinyl chloride | 2 | 1 | 0.45 F | 0.52 F | 0.56 F | 0.57 F | 0.550 F | 0.380 F | U | U | U | U | U | 0.41 J | U |
| **Total VOCs (µg/L)** | | | **4.23** | **4.14** | **4.63** | **8.86** | **7.16** | **5.78** | **3.38** | **2.34** | **5.26** | **3.59** | **6.79** | **6.46** | **2.38** |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 389 | 418 | 446 | 450 | 460 | 440 | 440 | 450 | 440 | 430 | 480 | 440 | 430 |
| ammonia | 2 | 0.2 | 1.5 | 1.3 | 1.2 | **2.4** | **2.6** | **2.4** | **2.2** | **2.1** | **2.2** | 2.0 | 1.7 | 1.6 | 0.74 |
| BOD5 | -- | 2.4 | 2.1 | U | 4.6 | 11 | 6.0 | 13.0 | 8.1 | U | 6.0 | 3.5 | U | 5.0 | 4.8 J |
| bromide | 2 | 0.5 | 0.28 F | 0.49 F | 0.11 F | 0.18 F | 0.12 | 0.10 | 0.13 | 0.085 F | 0.14 | 0.12 | 0.13 | 0.14 J | 0.11 J |
| COD | -- | 5 | 7.3 F | U | 26.7 B | 16 | 14 B | 13 B | 8.5 F | 8.5 F | 3.7 F | 6.0 F | 14 | 7.3 J | 6.3 J |
| chloride | 250 | 1 | 7.4 | 9.5 | 11.5 | 15 | 11 | 8.7 | 12 | 6.7 | 11 | 9 | 12 | 20 | 5.2 |
| color | 15 | 5 | NA | **140** | NA | NA | NA | NA | NA | **60** | NA | **40** | U | **40** | **25** |
| cyanide, Total | 200 | 0.02 | NA | U | NA | NA | NA | NA | NA | NA | NA | NA | NA | U | U |
| Fluoride | 1.5 | 1 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.16 J | 0.16 J |
| hardness, Total | -- | 1 | 430 B | 314 | 438 | 460 | 430 | 470 | 390 | 430 | 480 | 440 | 460 | 420 | 380 |
| nitrate | 10 | 1 | 0.07 F | U | 0.03 F | 0.039 F | 0.030 F | U | 0.065 F | 0.054 F | U | 0.085 F | 0.086 F | U | 0.087 J |
| TKN | 1 | 1 | **2.2** | **2.1** | **1.9** | **2.4** | **2.7** | **2.4** | **2.1** | **2.1** | **2.3** | **2.1** | **2.1** | **1.9 J** | **1.7 B** |
| sulfate | 250 | 1 | 5.8 | 3.8 | 5.2 | 3.9 | 3.5 | 3.3 B | 1.8 | 1.8 | 0.97 F | 0.72 F | 0.22 F | 0.93 J | U |
| TDS | 500 | 10 | 380 | 456 | 471 | 490 | 500 | 490 | 480 | 460 | 340 | 470 | 460 | 460 | 410 |
| TOC | -- | 1 | U | 1.7 | 2.7 | 2.8 | 3.0 | 2.4 | 3.7 | 2.3 | 2.2 | 3.1 | 2.3 | 2.3 | 2.0 |

For notes, please refer to the end of the Table Section.

**Table 2-2**

**LF001 (Landfill 1 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF1P-2 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 6/11/2013 | 6/16/2014 | 6/22/2015 | | | | | |
| Sample ID No. | | | LF1P0213VA | LF1P0213VA | LF1P0213WA | | | | | |
| Depth to Water (ft) | | | 4.98 | 5.14 | 5.39 | | | | | |
| **VOCs (µg/L)** | | | | | | | | | | |
| 1,1,1-trichloroethane | 5* | 1 | U | U | U | | | | | |
| 1,1-dichloroethane | 5* | 1 | U | U | U | | | | | |
| 1,2,3-trichlorobenzene | 5 | 1 | U | U | U | | | | | |
| 1,2,4-trimethylbenzene | 5* | 1 | U | U | 0.31 J | | | | | |
| 1,2-dichloroethane | 0.6 | 1 | U | U | U | | | | | |
| 1,2-dichlorobenzene | 3 | 1 | 0.41 J | 0.28 J | 0.29 J | | | | | |
| 1,2-dibromo-3-chloropropane | 0.04 | 2 | U | U | U | | | | | |
| 1,3,5-trimethylbenzene | 5* | 1 | U | U | U | | | | | |
| 1,3-dichlorobenzene | 3 | 1 | U | U | U | | | | | |
| 1,4-dichlorobenzene | 3 | 0.5 | 2.1 | 1.20 | 1.60 | | | | | |
| acetone | 50 | 10 | 3.6 J | U | 5.4 J | | | | | |
| benzene | 1 | 0.1 | 0.68 J | 0.48 J | 0.60 J | | | | | |
| bromodichloromethane | 50 | 0.5 | U | U | U | | | | | |
| bromoform | 50 | 1 | U | U | U | | | | | |
| carbon disulfide | 1,000 | 0.5 | U | U | U | | | | | |
| chlorobenzene | 5* | 0.5 | 1.6 | 1.0 | 1.4 | | | | | |
| chloroethane | 5* | 1 | U | U | U | | | | | |
| chloroform | 7 | 0.3 | U | U | U | | | | | |
| chloromethane | 5* | 1 | U | U | U | | | | | |
| cis-1,2-dichloroethene | 5* | 1 | U | U | U | | | | | |
| dichlorodifluoromethane | 5* | 1 | U | U | U | | | | | |
| ethylbenzene | 5* | 1 | U | U | U | | | | | |
| isopropylbenzene | 5* | 1 | U | U | U | | | | | |
| methylene chloride | 5* | 1 | U | U | U | | | | | |
| methyl iodide | 5* | 0.5 | U | U | U | | | | | |
| n-propylbenzene | 5* | 1 | U | U | U | | | | | |
| m,p-xylene | 5* | 2 | U | U | U | | | | | |
| naphthalene | 10 | 1 | U | U | U | | | | | |
| o-xylene | 5* | 1 | U | U | U | | | | | |
| p-isopropyltoluene | 5* | 1 | U | U | U | | | | | |
| sec-butylbenzene | 5* | 1 | U | U | U | | | | | |
| tetrachloroethene | 5 | 1 | U | U | U | | | | | |
| tert-butylbenzene | 5* | 1 | U | U | U | | | | | |
| trichloroethene (TCE) | 5* | 1 | U | U | U | | | | | |
| toluene | 5* | 1 | U | U | U | | | | | |
| trichlorofluoromethane | 5* | 1 | U | U | U | | | | | |
| vinyl chloride | 2 | 1 | U | U | 0.22 J | | | | | |
| **Total VOCs (µg/L)** | | | **5.92** | **2.96** | **9.82** | | | | | |
| **Leachate Indicators (mg/L)** | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 430 | 420 | 450 | | | | | |
| ammonia | 2 | 0.2 | 1.8 | 1.60 | 1.80 | | | | | |
| BOD5 | -- | 2.4 | 14 | 3.4 | 4.2 J | | | | | |
| bromide | 2 | 0.5 | U | 0.14 J | 0.22 J | | | | | |
| COD | -- | 5 | 16 J | U | 13 J | | | | | |
| chloride | 250 | 1 | 11 | 9.3 | 15 | | | | | |
| color | 15 | 5 | U | U | **200.0** | | | | | |
| cyanide, Total | 200 | 0.02 | U | U | U | | | | | |
| Fluoride | 1.5 | 1 | 0.060 J | 0.11 J | 0.16 J | | | | | |
| hardness, Total | -- | 1 | 420 | 410 | 450 | | | | | |
| nitrate | 10 | 1 | U | 0.19 J | U | | | | | |
| TKN | 1 | 1 | **1.4** | **1.1** | **1.1** | | | | | |
| sulfate | 250 | 1 | 0.56 J | 0.73 J | 0.29 J | | | | | |
| TDS | 500 | 10 | 480 | 450 | **540** | | | | | |
| TOC | -- | 1 | 2.0 | 2.0 B | 1.9 | | | | | |

For notes, please refer to the end of the Table Section.

**Table 2-2**

**LF001 (Landfill 1 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF1P-3 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 12/8/2003 | 3/30/2004 | 6/28/2004 | 9/16/2004 | 12/15/2004 | 4/4/2005 | 6/22/2005 | 9/9/2005 | 12/22/2005 | 3/17/2006 | 9/13/2006 | 4/4/2007 | 9/26/2007 |
| Sample ID No. | | | LF1P0317AA | LF1P0303BA | LF1P0317CA | LF1P0317DA | LF1P0317EA | LF1P0317FA | LF1P0317GA | LF1P0317HA | LF1P0317IA | LF1P0317JA | LF1P0317LA | LF1P0317NA | LF1P0317OA |
| Depth to Water (ft) | | | 3.76 | 3.20 | 3.54 | 3.79 | 3.75 | 3.33 | 4.01 | 5.37 | 4.53 | 3.35 | 4.35 | 2.85 | 5.17 |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,1-dichloroethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,2,3-trichlorobenzene | 5 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,2,4-trimethylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,2-dichloroethane | 0.6 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,2-dichlorobenzene | 3 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,2-dibromo-3-chloropropane | 0.04 | 2 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,3,5-trimethylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,3-dichlorobenzene | 3 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,4-dichlorobenzene | 3 | 0.5 | U | U | U | U | U | U | U | U | U | U | 0.11 F | U | U |
| acetone | 50 | 10 | 1.3 F | U | 2.9 F | U | U | U | U | U | U | U | 1 F | U | U |
| benzene | 1 | 0.1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| bromodichloromethane | 50 | 0.5 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| bromoform | 50 | 1 | U | U | U | U | U | U | 0.25 F | U | 2.1 | U | U | U | U |
| carbon disulfide | 1,000 | 0.5 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| chlorobenzene | 5* | 0.5 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| chloroethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| chloroform | 7 | 0.3 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| chloromethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| cis-1,2-dichloroethene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| dichlorodifluoromethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| ethylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| isopropylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| methylene chloride | 5* | 1 | U | U | U | U | U | U | U | U | U | U | 0.24 F | U | U |
| methyl iodide | 5* | 0.5 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| n-propylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| m,p-xylene | 5* | 2 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| naphthalene | 10 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| o-xylene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| p-isopropyltoluene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| sec-butylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| tetrachloroethene | 5 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| tert-butylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| trichloroethene (TCE) | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| toluene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| trichlorofluoromethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| vinyl chloride | 2 | 1 | 0.26 F | U | 0.26 F | 0.33 F | 0.27 F | 0.34 F | 0.44 F | 0.5 F | U | 0.3 F | 0.13 F | U | 0.240 F |
| **Total VOCs (µg/L)** | | | **1.56** | **0** | **3.16** | **0.33** | **0.27** | **0.34** | **0.69** | **0.5** | **2.1** | **0.3** | **1.86** | **0** | **0.240** |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 338 | 335 | 301 | 347 | 347 | 354 | 471 | 347 | 334 | 342 | 350 | 340 | 330 |
| ammonia | 2 | 0.2 | 0.29 | 0.27 | 0.32 | 0.35 | 0.34 | 0.36 | 6 | 0.41 | 0.3 | 0.3 B | 0.36 | 0.41 | 0.40 |
| BOD5 | -- | 2.4 | U | 2.4 | U | U | U | U | U | U | U | 2.3 | 4.9 | U | 2.2 |
| bromide | 2 | 0.5 | U | U | U | U | U | U | U | U | 0.23 F | 0.52 | 0.085 F | 0.089 F | 0.10 |
| COD | -- | 5 | U | U | U | U | U | U | 50.1 | 12 | 13.9 B | U | 5 F | 8.3 F | U |
| chloride | 250 | 1 | 10.8 | 10.5 | 12 | 11.9 | 10.8 | 12.2 | 12.1 | 11.6 | 12.2 | 11.4 | 11 | 11 | 10 |
| color | 15 | 5 | 2.5 | NA | NA | NA | NA | 5 | NA | NA | NA | U | NA | NA | NA |
| cyanide, Total | 200 | 0.02 | 0.085 J | NA | NA | NA | NA | U | NA | NA | NA | U | NA | NA | NA |
| Fluoride | 1.5 | 1 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| hardness, Total | -- | 1 | 770 | 320 | 324 | 350 | 352 | 328 | 332 | 582 | 340 B | 222 | 330 | 360 | 260 |
| nitrate | 10 | 1 | U | U | U | U | U | U | U | U | U | U | 0.023 F | 0.038 F | 0.020 F |
| TKN | 1 | 1 | 0.39 | 0.31 | 0.36 | 0.35 B | 0.4 | 0.4 | **6.4** | 0.77 | 0.73 | **4** | 0.3 F | 0.38 | 0.52 |
| sulfate | 250 | 1 | 22.3 | 19.9 | 24.7 | 18.2 | 16.8 | 17.8 | 14.1 | 11.9 | 11.4 | 10.3 | 8.8 | 8.2 B | 8.3 |
| TDS | 500 | 10 | 385 | 384 | 371 | 378 | 400 | 384 | 385 | 386 | 351 | 366 | 370 | 360 | 380 |
| TOC | -- | 1 | U | 0.8 F | U | U | U | 0.72 F | 0.53 F | 0.95 F | U | U | U | U | 1.3 |

For notes, please refer to the end of the Table Section.

**Table 2-2**

**LF001 (Landfill 1 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF1P-3 | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 4/2/2008 | 9/18/2008 | 4/21/2009 | 3/31/2010 | 6/15/2011 | 6/21/2012 | 6/10/2013 | 6/16/2014 | 6/22/2015 | | |
| Sample ID No. | | | LF1P0317PA | LF1P0317QA | LF1P0317RA | LF1P0317SA | LF1P0317TA | LF1P0317UA | LF1P0317VA | LF1P0317VA | LF1P0317WA | | |
| Depth to Water (ft) | | | 2.68 | 4.67 | 3.13 | 3.78 | 2.65 | 3.89 | 3.71 | 3.22 | 3.57 | | |
| **VOCs (µg/L)** | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 5* | 1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| 1,1-dichloroethane | 5* | 1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| 1,2,3-trichlorobenzene | 5 | 1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| 1,2,4-trimethylbenzene | 5* | 1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| 1,2-dichloroethane | 0.6 | 1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| 1,2-dichlorobenzene | 3 | 1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| 1,2-dibromo-3-chloropropane | 0.04 | 2 | U | U | U | U | NA | NA | NA | NA | NA | | |
| 1,3,5-trimethylbenzene | 5* | 1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| 1,3-dichlorobenzene | 3 | 1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| 1,4-dichlorobenzene | 3 | 0.5 | U | U | U | U | NA | NA | NA | NA | NA | | |
| acetone | 50 | 10 | U | U | U | U | NA | NA | NA | NA | NA | | |
| benzene | 1 | 0.1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| bromodichloromethane | 50 | 0.5 | U | U | U | U | NA | NA | NA | NA | NA | | |
| bromoform | 50 | 1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| carbon disulfide | 1,000 | 0.5 | U | U | U | U | NA | NA | NA | NA | NA | | |
| chlorobenzene | 5* | 0.5 | U | U | U | U | NA | NA | NA | NA | NA | | |
| chloroethane | 5* | 1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| chloroform | 7 | 0.3 | U | U | U | U | NA | NA | NA | NA | NA | | |
| chloromethane | 5* | 1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| cis-1,2-dichloroethene | 5* | 1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| dichlorodifluoromethane | 5* | 1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| ethylbenzene | 5* | 1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| isopropylbenzene | 5* | 1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| methylene chloride | 5* | 1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| methyl iodide | 5* | 0.5 | U | U | U | U | NA | NA | NA | NA | NA | | |
| n-propylbenzene | 5* | 1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| m,p-xylene | 5* | 2 | U | U | U | U | NA | NA | NA | NA | NA | | |
| naphthalene | 10 | 1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| o-xylene | 5* | 1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| p-isopropyltoluene | 5* | 1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| sec-butylbenzene | 5* | 1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| tetrachloroethene | 5 | 1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| tert-butylbenzene | 5* | 1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| trichloroethene (TCE) | 5* | 1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| toluene | 5* | 1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| trichlorofluoromethane | 5* | 1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| vinyl chloride | 2 | 1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| **Total VOCs (µg/L)** | | | **0** | **0** | **0** | **0** | NA | NA | NA | NA | NA | | |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 350 | 350 | 340 | 360 B | 240 | 370 | 340 | 330 | 320 | | |
| ammonia | 2 | 0.2 | 0.38 | 0.42 | 0.42 | 0.36 B | 0.57 | 0.32 B | 0.43 | 0.43 | 0.41 | | |
| BOD5 | -- | 2.4 | U | U | U | U | 3.4 | 3.0 | 2.7 | 2.3 | U | | |
| bromide | 2 | 0.5 | 0.092 F | 0.10 | 0.12 | 0.093 F | 0.12 F | 0.15 J | U | 0.13 J | 0.15 J | | |
| COD | -- | 5 | 8.5 F | U | 8.2 F | U | U | U | 5.4 J | U | U | | |
| chloride | 250 | 1 | 11 | 9.5 | 10.0 | 9.1 B | 10.0 | 9.7 | 8.8 | 9.3 | 9.5 | | |
| color | 15 | 5 | U | NA | U | U | U | U | U | U | 5 | | |
| cyanide, Total | 200 | 0.02 | NA | NA | NA | NA | U | U | U | U | U | | |
| Fluoride | 1.5 | 1 | NA | NA | NA | NA | U | U | U | 0.087 J | U | | |
| hardness, Total | -- | 1 | 320 | 330 | 320 | 340 B | 290 | 320 | 320 | 340 | 310 | | |
| nitrate | 10 | 1 | 0.041 F | U | U | U | U | 0.042 J | U | 9.3 | U | | |
| TKN | 1 | 1 | 0.33 | 0.55 | 0.39 | 0.75 | 0.68 F | 1.1 B | 0.66 J | U | U | | |
| sulfate | 250 | 1 | 9.4 | 8.1 | 7.2 | 4.5 B | 2.7 J | 2.0 J | 1.8 J | 1.7 J | 1.1 J | | |
| TDS | 500 | 10 | **510** | 380 | 380 | 370 | 360 | 370 | 350 | 350 | 360 J | | |
| TOC | -- | 1 | U | U | 0.60 F | U | 0.44 F | 0.48 J | 0.59 J | 0.61 JB | 0.46 J | | |

For notes, please refer to the end of the Table Section.

**Table 2-2**

**LF001 (Landfill 1 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF1P-5 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 12/5/2003 | 3/30/2004 | 6/28/2004 | 9/16/2004 | 12/14/2004 | 4/1/2005 | 6/22/2005 | 9/9/2005 | 12/21/2005 | 3/17/2006 | 9/15/2006 | 4/4/2007 | 9/27/2007 |
| Sample ID No. | | | LF1P0525AA | LF1P0525BA | LF1P0525CA | LF1P0525DA | LF1P0525EA | LF1P0525FA | LF1P0525GA | LF1P0525HA | LF1P0525IA | LF1P0525JA | LF1P0525LA | LF1P0525NA | LF1P0525OA |
| Depth to Water (ft) | | | 4.20 | 3.57 | 4.91 | 4.39 | 4.05 | 4.02 | 5.93 | 6.98 | 5.03 | 4.37 | 5.16 | 3.53 | 6.38 |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,1-dichloroethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,2,3-trichlorobenzene | 5 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,2,4-trimethylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,2-dichloroethane | 0.6 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,2-dichlorobenzene | 3 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,2-dibromo-3-chloropropane | 0.04 | 2 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,3,5-trimethylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,3-dichlorobenzene | 3 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,4-dichlorobenzene | 3 | 0.5 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| acetone | 50 | 10 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| benzene | 1 | 0.1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| bromodichloromethane | 50 | 0.5 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| bromoform | 50 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| carbon disulfide | 1,000 | 0.5 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| chlorobenzene | 5* | 0.5 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| chloroethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| chloroform | 7 | 0.3 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| chloromethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| cis-1,2-dichloroethene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| dichlorodifluoromethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| ethylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| isopropylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| methylene chloride | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| methyl iodide | 5* | 0.5 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| n-propylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| m,p-xylene | 5* | 2 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| naphthalene | 10 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| o-xylene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| p-isopropyltoluene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| sec-butylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| tetrachloroethene | 5 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| tert-butylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| trichloroethene (TCE) | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| toluene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| trichlorofluoromethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| vinyl chloride | 2 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| **Total VOCs (µg/L)** | | | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 316 B | 365 | 354 | 304 | 262 | 249 | 407 | 394 | 289 | 348 | 350 | 270 | 350 |
| ammonia | 2 | 0.2 | 0.64 | 0.45 | 0.55 | 0.66 | 0.54 | 0.16 | 0.44 | 0.58 | 0.61 B | 0.56 B | 0.7 | 0.28 | 0.71 |
| BOD5 | -- | 2.4 | 5.9 | 5 | 2.6 | 3.6 | U | U | 2.5 | 5.7 | U | U | 9.8 | U | 4.5 |
| bromide | 2 | 0.5 | U | 0.19 F | U | U | 0.2 F | U | U | U | 0.4 F | 0.3 F | 0.11 F | 0.070 F | 0.11 |
| COD | -- | 5 | U | U | U | 10.9 | U | U | U | 19.1 | 20.7 | U | 11 | 13 B | 4.1 F |
| chloride | 250 | 1 | 11.2 | 13.2 | 16.6 | 11.1 | 9.1 | 11.1 | 15 | 14.8 | 10.9 | 11.3 | 11 | 9.5 | 11 |
| color | 15 | 5 | **100** | NA | NA | NA | NA | **35** | NA | NA | NA | **160** | NA | NA | NA |
| cyanide, Total | 200 | 0.02 | U | NA | NA | NA | NA | U | NA | NA | NA | 0.017 F | NA | NA | NA |
| Fluoride | 1.5 | 1 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| hardness, Total | -- | 1 | 340 B | 328 | 376 | 310 | 200 | 228 | 364 | 680 | 300 | 228 | 340 | 260 | 310 |
| nitrate | 10 | 1 | U | U | U | U | 0.04 F | U | U | U | 0.07 F | U | 0.014 F | U | 0.020 F |
| TKN | 1 | 1 | 1 | 0.71 | 0.65 | 0.98 B | 0.63 B | 0.26 | 0.9 | **1.2** | **2.7** | **2.2** | 0.69 | 0.34 | 0.7 |
| sulfate | 250 | 1 | U | U | U | U | 2 | 3.2 | U | U | 0.41 F | U | U | 1.9 B | U |
| TDS | 500 | 10 | 320 B | 382 | 423 | 323 | 284 | 259 | 413 | 430 | 295 | 331 | 390 | 280 | 380 |
| TOC | -- | 1 | 1.9 | 1.8 | U | 1.7 | 2.1 | U | 1.7 | 1.8 | 1.1 | 1.4 | 1.5 | 1.5 | 2.7 |

For notes, please refer to the end of the Table Section.

**Table 2-2**

**LF001 (Landfill 1 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF1P-5 | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 4/2/2008 | 9/18/2008 | 4/20/2009 | 3/31/2010 | 6/16/2011 | 6/25/2012 | 6/10/2013 | 6/18/2014 | 6/24/2015 | | |
| Sample ID No. | | | LF1P0525PA | LF1P0525QA | LF1P0525RA | LF1P0525SA | LF1P0525TA | LF1P0525TA | LF1P0525VA | LF1P0525VA | LF1P0525WA | | |
| Depth to Water (ft) | | | 3.45 | 6.17 | 4.28 | 3.90 | 4.84 | 4.99 | 4.55 | 4.7 | 4.73 | | |
| **VOCs (µg/L)** | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 5* | 1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| 1,1-dichloroethane | 5* | 1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| 1,2,3-trichlorobenzene | 5 | 1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| 1,2,4-trimethylbenzene | 5* | 1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| 1,2-dichloroethane | 0.6 | 1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| 1,2-dichlorobenzene | 3 | 1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| 1,2-dibromo-3-chloropropane | 0.04 | 2 | U | U | U | U | NA | NA | NA | NA | NA | | |
| 1,3,5-trimethylbenzene | 5* | 1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| 1,3-dichlorobenzene | 3 | 1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| 1,4-dichlorobenzene | 3 | 0.5 | U | U | U | U | NA | NA | NA | NA | NA | | |
| acetone | 50 | 10 | U | U | U | U | NA | NA | NA | NA | NA | | |
| benzene | 1 | 0.1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| bromodichloromethane | 50 | 0.5 | U | U | U | U | NA | NA | NA | NA | NA | | |
| bromoform | 50 | 1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| carbon disulfide | 1,000 | 0.5 | U | U | U | U | NA | NA | NA | NA | NA | | |
| chlorobenzene | 5* | 0.5 | U | U | U | U | NA | NA | NA | NA | NA | | |
| chloroethane | 5* | 1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| chloroform | 7 | 0.3 | U | U | U | U | NA | NA | NA | NA | NA | | |
| chloromethane | 5* | 1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| cis-1,2-dichloroethene | 5* | 1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| dichlorodifluoromethane | 5* | 1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| ethylbenzene | 5* | 1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| isopropylbenzene | 5* | 1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| methylene chloride | 5* | 1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| methyl iodide | 5* | 0.5 | U | U | U | U | NA | NA | NA | NA | NA | | |
| n-propylbenzene | 5* | 1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| m,p-xylene | 5* | 2 | U | U | U | U | NA | NA | NA | NA | NA | | |
| naphthalene | 10 | 1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| o-xylene | 5* | 1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| p-isopropyltoluene | 5* | 1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| sec-butylbenzene | 5* | 1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| tetrachloroethene | 5 | 1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| tert-butylbenzene | 5* | 1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| trichloroethene (TCE) | 5* | 1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| toluene | 5* | 1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| trichlorofluoromethane | 5* | 1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| vinyl chloride | 2 | 1 | U | U | U | U | NA | NA | NA | NA | NA | | |
| **Total VOCs (µg/L)** | | | **0** | **0** | **0** | **0** | NA | NA | NA | NA | NA | | |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 310 | 370 | 330 | 290 B | 350 | 310 | 270 | 300 | 320 | | |
| ammonia | 2 | 0.2 | 0.42 | 0.71 | 0.29 | 0.13 B | 0.40 | 0.21 B | 0.070 J | 0.13 | 0.35 | | |
| BOD5 | -- | 2.4 | U | 3.9 | U | U | 3.1 | U | 2.7 | U | U | | |
| bromide | 2 | 0.5 | 0.093 F | 0.12 | 0.11 | 0.087 F | 0.11 F | 0.14 J | U | 0.14 J | 0.16 J | | |
| COD | -- | 5 | 6.3 F | U | 6.0 F | U | 5.0 F | U | 11 J | 4.6 J | U | | |
| chloride | 250 | 1 | 9.3 | 11 | 9.9 | 8.8 B | 8.4 | 8.7 | 7.5 | 8.2 | 9.3 | | |
| color | 15 | 5 | 15 | NA | U | U | 25 | U | U | 10 B | **100** | | |
| cyanide, Total | 200 | 0.02 | NA | NA | NA | NA | NA | U | U | U | U | | |
| Fluoride | 1.5 | 1 | NA | NA | NA | NA | U | U | 0.062 J | U | 0.066 J | | |
| hardness, Total | -- | 1 | 290 | 370 | 320 | 290 B | 280 | 260 | 260 | 280 | 320 | | |
| nitrate | 10 | 1 | 0.18 | U | 0.21 F | 0.27 BF | 0.12 F | 0.068 J | 0.29 J | 0.26 J | U | | |
| TKN | 1 | 1 | 0.41 | 0.83 | 0.35 | 0.38 | 0.60 F | 1.0 | 0.57 J | U | U | | |
| sulfate | 250 | 1 | 0.53 F | U | U | 0.50 BF | 0.41 F | U | 1.6 J | 0.69 J | U | | |
| TDS | 500 | 10 | 270 | 390 | 280 | 300 | 320 | 320 | 290 | 320 | 330 | | |
| TOC | -- | 1 | 1.5 | 1.3 | 1.10 | 1.4 | 1.9 | U | 2.0 | U | 2.1 | | |

For notes, please refer to the end of the Table Section.

**Table 2-2**

**LF001 (Landfill 1 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | MWSAR03 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 12/8/2003 | 3/30/2004 | 6/28/2004 | 9/17/2004 | 12/15/2004 | 4/4/2005 | 6/23/2005 | 9/8/2005 | 12/22/2005 | 3/16/2006 | 6/19/2006 | 9/15/2006 | 12/18/2006 |
| Sample ID No. | | | MWSAR0324AA | MWSAR0324BA | MWSAR0324CA | MWSAR0324DA | MWSAR0324EA | MWSAR0324FA | MWSAR0321GA | MWSAR0324HA | MWSAR0324IA | MWSAR0324JA | MWSAR0321KA | MWSAR0321LA | MWSAR0321MA |
| Depth to Water (ft) | | | 18.45 | 16.65 | 19.07 | 19.19 | 17.71 | 16.65 | 20.59 | 22.61 | 20.45 | 17.61 | 20.75 | 20.83 | 18.30 |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,1-dichloroethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,2,3-trichlorobenzene | 5 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,2,4-trimethylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,2-dichloroethane | 0.6 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,2-dichlorobenzene | 3 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,2-dibromo-3-chloropropane | 0.04 | 2 | U | U | U | U | U | U | U | U | U | U | U | U | UJ |
| 1,3,5-trimethylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,3-dichlorobenzene | 3 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,4-dichlorobenzene | 3 | 0.5 | 0.46 F | 0.25 F | 1.4 | 1.2 | U | 0.3 F | 0.95 | 2.6 | 2.2 | U | 1.7 | 2.06 | 0.590 |
| acetone | 50 | 10 | 1.3 F | U | 1.4 F | U | U | U | 1.6 F | U | 4.8 F | U | U | 1.46 F | U |
| benzene | 1 | 0.1 | U | U | 0.35 F | 0.51 | U | U | 0.41 F | 0.48 F | 0.37 F | U | 0.59 | 0.62 | 0.380 F |
| bromodichloromethane | 50 | 0.5 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| bromoform | 50 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| carbon disulfide | 1,000 | 0.5 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| chlorobenzene | 5* | 0.5 | U | U | U | U | U | U | U | U | U | U | U | 0.19 F | 0.210 F |
| chloroethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| chloroform | 7 | 0.3 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| chloromethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| cis-1,2-dichloroethene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | 0.15 F | 0.140 F |
| dichlorodifluoromethane | 5* | 1 | U | U | U | 0.34 F | U | U | 0.43 F | U | U | U | 0.2 F | U | U |
| ethylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| isopropylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| methylene chloride | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| methyl iodide | 5* | 0.5 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| n-propylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| m,p-xylene | 5* | 2 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| naphthalene | 10 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| o-xylene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| p-isopropyltoluene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| sec-butylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| tetrachloroethene | 5 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| tert-butylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| trichloroethene (TCE) | 5* | 1 | U | U | U | U | 0.25 F | U | U | U | U | U | U | U | 0.110 F |
| toluene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| trichlorofluoromethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| vinyl chloride | 2 | 1 | 0.46 F | U | 0.73 F | **2.2** | U | 0.26 F | **4.5** | 0.47 F | 0.48 F | U | 1 | 1.48 | U |
| **Total VOCs (µg/L)** | | | **2.22** | **0.25** | **3.88** | **4.25** | **0.25** | **0.56** | **7.89** | **3.55** | **7.85** | **0** | **3.49** | **5.96** | **1.43** |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 165 | 206 | 102 | 77.3 | 424 | 308 | 111 | 209 | 148 B | 273 | 74.7 | 140 | 170 |
| ammonia | 2 | 0.2 | U | U | 0.22 | 0.23 | 0.015 F | 0.11 | 0.33 | 0.42 | 0.37 | 0.0093 F | 0.25 | 0.56 | 0.14 |
| BOD5 | -- | 2.4 | U | U | 4 | 4.9 | U | U | 3.1 | 3.5 | 7.9 | U | 9.2 | 14 | 6.6 |
| bromide | 2 | 0.5 | U | U | U | U | U | U | U | U | 0.34 F | U | U | 0.021 F | 0.027 F |
| COD | -- | 5 | U | 11.4 | U | U | U | U | 12.7 | 16.2 | 12.9 B | U | 40 B | 16 | 14 B |
| chloride | 250 | 1 | 8.8 | 6.6 | 7 | 8.5 | 2.3 | 2.4 | U | 5.9 | 8.9 | 4.3 | 5.3 | 5.8 | 5.0 |
| color | 15 | 5 | **25** | NA | NA | NA | NA | 50 | U | NA | NA | **20** | NA | NA | NA |
| cyanide, Total | 200 | 0.02 | U | NA | NA | NA | NA | U | U | NA | NA | U | NA | NA | NA |
| Fluoride | 1.5 | 1 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| hardness, Total | -- | 1 | 310 | 256 | 88 | 90 | 400 | 302 | 140 | 400 | 90 B | 316 | 420 | 170 B | 170 |
| nitrate | 10 | 1 | U | 0.79 F | 0.23 | 0.52 F | 0.89 F | 2.2 | U | U | 0.09 F | 2.3 | U | U | 0.13 |
| TKN | 1 | 1 | U | 0.1 F | 0.49 | 0.29 | 0.28 | 0.13 F | 0.73 B | 1 | **1.1** | 0.19 F | 0 | 0.49 | 0.14 F |
| sulfate | 250 | 1 | 16.8 | 24.7 | 11.3 | 15.1 | 18.1 | 21 | U | 6.1 | 14.2 | 21.3 | 17.9 | 9.9 | 12 |
| TDS | 500 | 10 | 209 | 244 | 150 | 115 | 473 | 356 | 117 | 114 | 145 | 304 | 193 | 140 | 220 |
| TOC | -- | 1 | 1.4 | 1.3 | U | 0.81 F | 1.4 | 1.3 | 1.2 | 1.7 B | 1.4 | 1.3 | U | 1.1 | 1.2 |

For notes, please refer to the end of the Table Section.

**Table 2-2**

**LF001 (Landfill 1 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | MWSAR03 | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 4/3/2007 | 9/26/2007 | 4/1/2008 | 9/18/2008 | 4/21/2009 | 3/30/2010 | 6/20/2011 | 6/26/2012 | 6/12/2013 | 6/17/2014 | 6/23/2015 |
| Sample ID No. | | | MWSAR0324NA | MWSAR0324OA | MWSAR0324PA | MWSAR0324QA | MWSAR0324RA | MWSAR0324SA | MWSAR0324TA | MWSAR0324UA | MWSAR0324VA | MWSAR0324VA | MWSAR0324WA |
| Depth to Water (ft) | | | 15.17 | 21.69 | 16.17 | 21.00 | 17.86 | 19.04 | 17.35 | 20.31 | 19.08 | 18.6 | 18.66 |
| **VOCs (µg/L)** | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U |
| 1,1-dichloroethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U |
| 1,2,3-trichlorobenzene | 5 | 1 | U | U | U | U | U | U | U | U | U | U | U |
| 1,2,4-trimethylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U |
| 1,2-dichloroethane | 0.6 | 1 | U | U | U | U | U | U | U | U | U | U | U |
| 1,2-dichlorobenzene | 3 | 1 | U | U | U | U | U | U | U | U | U | U | U |
| 1,2-dibromo-3-chloropropane | 0.04 | 2 | U | U | U | U | U | U | U | U | U | U | U |
| 1,3,5-trimethylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U |
| 1,3-dichlorobenzene | 3 | 1 | U | U | U | U | U | U | 0.24 F | U | U | U | U |
| 1,4-dichlorobenzene | 3 | 0.5 | U | 2.05 | 0.380 F | 0.620 | U | 1.81 | U | 0.73 J | 1.2 | 0.36 J | 1.4 |
| acetone | 50 | 10 | U | U | U | U | U | 1.52 F | U | U | 5.9 J | U | U |
| benzene | 1 | 0.1 | U | 0.350 F | U | 0.550 | 0.350 F | 0.410 F | 0.50 F | 0.34 J | 0.43 J | 0.23 J | 0.38 J |
| bromodichloromethane | 50 | 0.5 | U | U | U | U | U | U | U | U | U | U | U |
| bromoform | 50 | 1 | U | U | U | U | U | U | U | U | U | U | U |
| carbon disulfide | 1,000 | 0.5 | U | U | U | U | U | U | U | U | U | U | U |
| chlorobenzene | 5* | 0.5 | U | 0.250 F | U | U | U | 0.310 F | U | U | 0.31 J | 0.23 J | 0.42 J |
| chloroethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U |
| chloroform | 7 | 0.3 | U | U | U | U | U | U | U | U | U | U | U |
| chloromethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U |
| cis-1,2-dichloroethene | 5* | 1 | U | U | U | U | 0.120 F | U | 0.17 | U | 0.22 J | U | U |
| dichlorodifluoromethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U |
| ethylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U |
| isopropylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U |
| methylene chloride | 5* | 1 | 0.120 F | 0.210 F | U | U | U | U | U | U | U | U | U |
| methyl iodide | 5* | 0.5 | U | U | U | U | U | U | U | U | U | U | U |
| n-propylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U |
| m,p-xylene | 5* | 2 | U | U | U | U | U | U | U | U | U | U | U |
| naphthalene | 10 | 1 | U | U | U | U | U | U | U | U | 0.23 J | U | U |
| o-xylene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U |
| p-isopropyltoluene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U |
| sec-butylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U |
| tetrachloroethene | 5 | 1 | U | U | U | U | U | U | U | U | U | U | U |
| tert-butylbenzene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U |
| trichloroethene (TCE) | 5* | 1 | 0.130 F | U | U | U | U | U | U | U | U | U | U |
| toluene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U |
| trichlorofluoromethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U |
| vinyl chloride | 2 | 1 | U | U | U | 1.55 | U | 0.830 F | U | 6.0 | 0.56 J | 0.20 J | 0.68 J |
| **Total VOCs (µg/L)** | | | **0.25** | **2.86** | **0.38** | **2.72** | **0.47** | **4.88** | **0.91** | **7.08** | **8.85** | **1.02** | **2.88** |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 210 | 140 | 250 | 120 | 160 | 180 | 130 | 80 | 290 | 76 | 81 |
| ammonia | 2 | 0.2 | 0.019 F | 0.40 | 0.09 | 0.49 | 0.035 F | 0.24 | 0.22 | 0.22 B | 0.27 | 0.077 J | 0.30 |
| BOD5 | -- | 2.4 | U | U | U | 6.7 | 3.5 | 13 | 3.0 | 2.8 | 5.1 | 3.1 | 5.5 |
| bromide | 2 | 0.5 | U | 0.039 F | 0.047 F | 0.029 F | 0.034 F | U | U | U | 0.12 J | U | U |
| COD | -- | 5 | 8.3 F | 28 | 11 | 26 | 6.0 F | 20 | 5.3 F | 9.0 J | 12 J | 5.0 J | 7.1 J |
| chloride | 250 | 1 | 2.1 | 4.8 | 3.5 | 3.7 | 3.4 | 4.9 | 4.2 | 6.6 | 4.2 | 3.5 | 4.5 J |
| color | 15 | 5 | NA | NA | 35 | NA | U | U | 15 | U | U | 5 | **130** |
| cyanide, Total | 200 | 0.02 | NA | NA | NA | NA | NA | NA | NA | U | U | U | U |
| Fluoride | 1.5 | 1 | NA | NA | NA | NA | NA | NA | 0.14 J | U | 0.77 J | 0.20 J | U |
| hardness, Total | -- | 1 | 220 | 40 | 260 | 150 | 160 | 68 | 120 | 81 | 9.2 | 99 | 85 |
| nitrate | 10 | 1 | 2.7 | U | 0.14 | U | U | 0.13 F | U | U | 0.15 J | 0.35 J | U |
| TKN | 1 | 1 | 0.094 F | 0.5 | 0.063 F | 0.84 | U | 0.40 B | 0.40 F | 0.84 J | 0.57 J | U | U |
| sulfate | 250 | 1 | 9.0 | 4.0 | 6.1 | 3.9 | 1.8 | 4.2 | 1.3 F | 0.40 J | 0.57 J | 0.36 J | U |
| TDS | 500 | 10 | 250 | 240 | 270 | 120 | 200 | 180 | 150 | 120 | 310 | 110 | 94 J |
| TOC | -- | 1 | 0.75 F | 1.6 | 0.97 F | 0.69 F | 1.10 | 1.1 | 1.3 | 1.4 | 1.2 | 1.0 B | 1.4 |

For notes, please refer to the end of the Table Section.

**Table 2-2**

**LF001 (Landfill 1 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class A Surface Water Standards | Reporting Limit | LF1SW-1 | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 12/9/2003 | 3/30/2004 | 6/25/2004 | 9/17/2004 | 12/15/2004 | 4/1/2005 | 6/22/2005 | 9/8/2005 | 12/20/2005 | 3/16/2006 | 9/15/2006 | 4/3/2007 |
| Sample ID No. | | | LF1SW0101AA | LF1SW0101BA | LF1SW0101CA | LF1SW0101DA | LF1SW0101EA | LF1SW0101FA | LF1SW0101GA | LF1SW0101HA | LF1SW0101IA | LF1SW0101JA | LF1SW0101LA | LF1SW0101NA |
| Depth to Water (ft) | | | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface |
| **VOCs (µg/L)** | | | | | | | | | | | | | | |
| 1,1-dichloroethane | 5 | 1 | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,2,4-Trimethylbenzene | 5 | 1 | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,2-dichlorobenzene | 3 | 1 | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,4-dichlorobenzene | 3 | 0.5 | U | U | U | U | U | U | 0.41 F | U | U | U | 0.34 F | U |
| acetone | 50 | 10 | 2.8 F | U | 2.6 F | U | 2 F | U | U | 3.6 F | U | U | 2.94 F | U |
| benzene | 1 | 0.1 | U | U | U | U | U | U | 0.30 F | U | U | U | 0.12 F | U |
| chlorobenzene | 5 | 0.5 | U | U | U | U | U | U | 1.6 | U | U | U | 0.84 | U |
| dichlorodifluoromethane | 5** | 1 | U | U | U | U | U | U | 0.68 F | U | U | U | U | U |
| methylene chloride | 5 | 1 | U | U | U | U | U | U | U | 1.2 | U | U | 0.1 F | U |
| Naphthalene | 10 | 1 | U | U | U | U | U | U | U | U | U | U | U | U |
| toluene | 5 | 1 | U | U | U | U | U | U | 0.84 F | U | U | U | 0.11 F | U |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 48.3 | 17.5 | 49.3 | 57.9 | 95.3 | 130 | 370 | 428 | 213 | 154 | 280 | 120 |
| ammonia | 2 | 0.2 | U | U | 0.0099 F | 0.14 | U | 0.032 F | 0.28 | 0.023 F | 0.13 | 0.034 F | 0.25 | 0.016 F |
| BOD5 | -- | 2.4 | U | U | U | U | U | U | 8.8 | 3.6 | U | U | 6.6 | U |
| bromide | 2 | 0.5 | U | U | U | U | U | U | U | U | U | U | 0.031 F | U |
| COD | -- | 5 | U | 13.1 | U | 10.5 B | U | U | 27.2 | 24.5 | U | U | 14 | 6.1 F |
| chloride | 250 | 1 | 9.5 | 7.9 | 13 | 11.9 | 15.5 | 9.1 | 5 | 5.8 | 5.5 | 8.6 | 4 | 27 |
| color | 15 | 5 | 5 | NA | NA | NA | NA | 7.5 | NA | NA | NA | **20** | NA | NA |
| Fluoride | 1.5 | 1 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| hardness, Total | -- | 1 | 210 | U | 72 | 90 | 124 | 136 | 400 | 500 | 280 | 129 | 280 | 140 |
| nitrate | 10 | 1 | U | 0.77 F | 1 | 1.1 | 2.5 | 1.2 | U | U | U | 0.71 F | 0.013 F | 1.9 |
| TKN | 1 | 1 | U | 0.3 | 0.32 | 0.38 | 0.21 | 0.13 F | **6.6** | 1 | **2.2** | U | **1.1** | 0.091 F |
| sulfate | 250 | 1 | 9.5 | 7.2 | 13.3 | 12 | 8.6 | 7.5 | 4 | 9.4 | 10.4 | 9.2 | 6.9 | 9.3 |
| TDS | 500 | 10 | 111 | 55 | 120 | 87 | 173 | 156 | 432 | 449 | 237 | 220 | 240 | 190 |
| TOC | -- | 1 | 1.1 | 1.7 | U | 1.5 | 0.72 F | 1.1 | 6.8 | 6.9 B | 0.69 F | 0.84 F | 2.8 | 0.94 F |

For notes, please refer to the end of the tables section.

**Table 2-2**

**LF001 (Landfill 1 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class A Surface Water Standards | Reporting Limit | LF1SW-1 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 9/26/2007 | 4/2/2008 | 9/18/2008 | 4/20/2009 | 3/31/2010 | 6/15/2011 | 6/26/2012 | 6/11/2013 | 6/16/2014 | 6/22/2015 |
| Sample ID No. | | | LF1SW0101OA | LF1SW0101PA | LF1SW0101QA | LF1SW0101RA | LF1SW0101SA | LF1SW0101TA | LF1SW0101UA | LF1SW0101VA | LF1SW0101VA | LF1SW0101WA |
| Depth to Water (ft) | | | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface |
| **VOCs (µg/L)** | | | | | | | | | | | | |
| 1,1-dichloroethane | 5 | 1 | U | U | 0.310 F | U | U | U | U | U | U | U |
| 1,2,4-Trimethylbenzene | 5 | 1 | U | U | U | U | U | U | U | U | U | U |
| 1,2-dichlorobenzene | 3 | 1 | 0.120 F | U | U | U | U | U | U | U | U | U |
| 1,4-dichlorobenzene | 3 | 0.5 | 0.69 | U | 0.310 F | U | U | U | U | U | U | U |
| acetone | 50 | 10 | U | U | 3.34 F | U | 2.29 F | U | U | 5.3 J | U | U |
| benzene | 1 | 0.1 | 0.120 F | U | 0.690 | U | U | U | U | U | U | U |
| chlorobenzene | 5 | 0.5 | U | U | 1.05 | U | U | NA | NA | U | 0.17 J | U |
| dichlorodifluoromethane | 5** | 1 | U | U | U | U | U | U | U | U | U | U |
| methylene chloride | 5 | 1 | U | U | U | U | U | U | U | U | U | U |
| Naphthalene | 10 | 1 | U | U | 3.92 | U | U | NA | NA | U | U | U |
| toluene | 5 | 1 | 0.420 F | U | 1.31 | U | U | U | 0.29 J | U | U | U |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 400 | 110 | 640 | 44 | 24 B | 150 | 240 | 130 | 190 | 170 |
| ammonia | 2 | 0.2 | 1.9 | 0.23 | 0.022 F | U | 0.057 B | 0.12 | 0.063 JB | 0.043 J | U | 0.080 J |
| BOD5 | -- | 2.4 | 110 J | U | 15 | U | U | U | 2.0 J | U | 1.4 J | U |
| bromide | 2 | 0.5 | 0.20 | U | 0.075 F | 0.015 F | U | U | U | U | U | U |
| COD | -- | 5 | 150 | U | 31 | 6.0 F | U | U | U | 21 | 5.3 J | U |
| chloride | 250 | 1 | 8.4 | 26 | 4.8 | 12 | 7.4 B | 3.9 | 3.6 | 5.8 | 4.1 | 4.3 |
| color | 15 | 5 | NA | U | NA | U | U | U | U | U | 5 | 10 |
| Fluoride | 1.5 | 1 | NA | NA | NA | NA | NA | NA | NA | U | 0.11 J | U |
| hardness, Total | -- | 1 | 36 | 130 | 600 | 56 | 31 B | 140 | 250 | 140 | 140 | 180 |
| nitrate | 10 | 1 | 0.016 F | 0.92 | U | 0.78 | 0.24 B | 0.094 F | U | 0.19 J | U | 0.077 J |
| TKN | 1 | 1 | **11** | 0.22 | 0.57 | 0.11 F | 0.29 | 0.40 F | 0.80 JB | 0.58 J | U | U |
| sulfate | 250 | 1 | 3.8 | 8.9 | 1.6 | 10 | 6.6 B | 3.5 F | 3.0 J | 4.4 J | 3.4 J | 3.9 J |
| TDS | 500 | 10 | 130 | 170 | **700** | 110 | 90 | 160 | 240 | 160 | 210 | 210 |
| TOC | -- | 1 | 16 | 1.1 | 3.2 | 1.2 | 3.2 | 0.92 F | 1.3 | 2.1 | 1.2 B | 1.2 |

3.3

For notes, please refer to the end of the tables section.

**Table 2-2**

**LF001 (Landfill 1 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class A Surface Water Standards | Reporting Limit | LF1SW-2 | LF1SW-2SMC | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 12/9/2003 | 4/29/2004 | 6/29/2004 | 9/20/2004 | 12/17/2004 | 4/1/2005 | 6/22/2005 | 9/9/2005 | 12/20/2005 | 3/17/2006 | 9/15/2006 | 4/3/2007 |
| Sample ID No. | | | LF1SW0201AA | LF1SW02SMC01BA | LF1SW02SMC01CA | LF1SW02SMC01DA | LF1SW02SMC01EA | LF1SW02SMC01FA | LF1SW02SMC01GA | LF1SW02SMC01HA | LF1SW02SMC01IA | LF1SW02SMC01JA | LF1SW02SMC01LA | LF1SW02SMC01NA |
| Depth to Water (ft) | | | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface |
| **VOCs (µg/L)** | | | | | | | | | | | | | | |
| 1,1-dichloroethane | 5 | 1 | U | U | U | U | U | U | U | U | U | U | 0.12 F | U |
| 1,2,4-Trimethylbenzene | 5 | 1 | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,2-dichlorobenzene | 3 | 1 | U | U | 0.27 F | U | U | 0.24 F | 0.48 F | U | U | U | 0.39 F | U |
| 1,4-dichlorobenzene | 3 | 0.5 | 0.84 | 0.40 F | 1.3 | 0.27 F | 0.94 | 1.3 | 2.7 | 1.4 | 1.4 | 1.2 | 2.61 | 0.480 F |
| acetone | 50 | 10 | 1.3 F | 1.6 F | 1.7 F | U | 1.6 F | 2.4 F | 2.8 F | U | U | U | 3.92 F | U |
| benzene | 1 | 0.1 | 0.21 F | U | 0.27 F | U | U | 0.23 F | 0.30 F | U | U | U | 0.2 F | U |
| chlorobenzene | 5 | 0.5 | 0.79 | 0.42 F | 1.2 | 0.27 F | 0.96 | 1.2 | 1.6 | 0.59 | 1.1 | 1.1 | 1.07 | 0.380 F |
| dichlorodifluoromethane | 5** | 1 | U | U | U | U | U | U | U | U | U | U | U | U |
| methylene chloride | 5 | 1 | U | U | U | U | U | U | U | U | U | U | U | U |
| Naphthalene | 10 | 1 | U | U | U | U | U | U | U | U | U | U | U | U |
| toluene | 5 | 1 | U | U | U | U | U | U | U | U | U | U | U | U |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 110 | 63 | 153 | 59.8 | 150 | 217 | 406 | 414 | 318 | 245 | 410 | 150 |
| ammonia | 2 | 0.2 | 0.24 | 0.15 | 0.63 | 0.11 | 0.49 | 0.8 | 2 | **2.1** | 1.1 | 0.67 B | 2 | 0.24 |
| BOD5 | -- | 2.4 | U | U | 1.5 F | U | U | U | U | U | U | U | 3.4 | U |
| bromide | 2 | 0.5 | U | U | U | U | U | U | U | U | U | U | 0.13 F | 0.024 F |
| COD | -- | 5 | U | U | 16.4 J | U | U | U | 4 F | 6.6 F | 3.1 F | U | 11 | 8.3 F |
| chloride | 250 | 1 | 9.6 | 11.7 | 13.1 | 9.2 | 9 | 7.7 | 10.2 | 11.7 | 7.9 | 8.2 | 11 | 24 |
| color | 15 | 5 | **60** | **20** | **40** | **20** | **50** | **100** | NA | NA | NA | **100** | NA | NA |
| Fluoride | 1.5 | 1 | NA | U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| hardness, Total | -- | 1 | 124 | 80 | 180 | 200 | 156 | 208 | 388 | 460 | 350 | 219 | 1,000 | 170 |
| nitrate | 10 | 1 | U | 0.76 F | 0.74 F | 0.68 F | 1.1 | 0.56 F | U | 0.03 F | U | 0.38 F | 0.014 F | 1.7 |
| TKN | 1 | 1 | U | 0.31 B | 0.84 | 0.36 | 0.56 | 0.98 | **3.1** | **3** | **3.3** | **1.2** | **2.8** | 0.34 |
| sulfate | 250 | 1 | 9.3 | 8.9 | 11.7 | 10 | 7.6 | 6.6 | 4 | 3 | 8.1 | 8.4 | 4.1 | 8.5 B |
| TDS | 500 | 10 | 167 | 120 | 202 | 100 | 204 | 237 | 452 | 443 | 357 | 266 | 430 | 230 |
| TOC | -- | 1 | 19.3 | U | U | 2 | 1.9 | 2.4 | 3.4 | 3.5 | 1.9 | 1.4 | 3.7 | 1.2 |

For notes, please refer to the end of the tables section.

**Table 2-2**

**LF001 (Landfill 1 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class A Surface Water Standards | Reporting Limit | LF1SW-2SMC | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 9/26/2007 | 4/2/2008 | 9/18/2008 | 4/20/2009 | 3/31/2010 | 6/16/2011 | 6/26/2012 | 6/11/2013 | 6/16/2014 | 6/23/2015 |
| Sample ID No. | | | LF1SW02SMC01OA | LF1SW02SMC01PA | LF1SW02SMC01QA | LF1SW02SMC01RA | LF1SW02SMC01SA | LF1SW02SMC01TA | LF1SW02SMC01UA | LF1SW02SMC01VA | LF1SW02SMC01VA | LF1SW02SMC01WA |
| Depth to Water (ft) | | | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface |
| **VOCs (µg/L)** | | | | | | | | | | | | |
| 1,1-dichloroethane | 5 | 1 | U | U | U | U | U | U | U | U | U | U |
| 1,2,4-Trimethylbenzene | 5 | 1 | U | U | U | U | U | U | 0.19 J | U | U | U |
| 1,2-dichlorobenzene | 3 | 1 | 0.260 F | U | 0.480 F | U | U | U | 0.55 J | 0.98 J | 0.31 J | 0.20 J |
| 1,4-dichlorobenzene | 3 | 0.5 | 2.03 | 0.490 F | 2.89 | U | U | U | 2.7 | 0.90 J | 1.6 | 1.4 |
| acetone | 50 | 10 | U | U | U | U | U | U | | 6.7 J | U | U |
| benzene | 1 | 0.1 | 0.180 F | U | 0.240 F | U | U | U | 0.42 J | 0.26 J | 0.21 J | U |
| chlorobenzene | 5 | 0.5 | 0.930 | 0.310 F | 1.280 | U | U | NA | 0.34 J | 0.66 J | 1.1 | 0.91 J |
| dichlorodifluoromethane | 5** | 1 | U | U | U | U | U | U | U | U | U | U |
| methylene chloride | 5 | 1 | U | U | U | U | U | U | 1.8 J | U | U | U |
| Naphthalene | 10 | 1 | U | U | U | U | U | NA | U | 0.86 J | U | U |
| toluene | 5 | 1 | 0.310 F | U | 0.120 F | U | U | U | 0.34 J | U | U | U |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 450 | 140 | 450 | 64 | 28 B | 260 | 390 | 210 | 300 | 260 |
| ammonia | 2 | 0.2 | 1.8 | 0.28 | 1.9 | 0.074 | 0.037 BF | 0.41 | 0.62 | 0.39 | 0.83 | 0.52 |
| BOD5 | -- | 2.4 | 4.7 | U | 3.0 | U | U | 2.7 | 4.3 | 1.8 J | U | U |
| bromide | 2 | 0.5 | 0.14 | U | 0.16 | 0.018 F | U | U | 0.13 J | U | U | 0.11 J |
| COD | -- | 5 | 22 | 4.1 F | 37 | 10 | U | 5.3 F | 10 J | 17 J | 9.7 J | U |
| chloride | 250 | 1 | 13 | 22 | 13 | 11 | 7.3 B | 3.1 | 7.9 | 6.6 | 6.3 | 5.4 |
| color | 15 | 5 | NA | 10 | NA | 10 | 5 | **25** | U | U | 5 | **80** |
| Fluoride | 1.5 | 1 | NA | NA | NA | NA | NA | 0.061 J | 0.065 J | 0.060 J | 0.12 J | 0.067 J |
| hardness, Total | -- | 1 | 400 | 160 | 440 | 74 | 35 B | 270 | 360 | 200 | 540 | 260 |
| nitrate | 10 | 1 | 0.016 F | 0.76 | U | 0.68 | 0.23 B | 0.053 F | U | 0.14 J | 0.18 J | 0.050 J |
| TKN | 1 | 1 | **2.1** | 0.30 | **2.70** | 0.15 F | 0.37 | 0.67 F | **1.7 B** | 0.81 J | 0.35 J | U |
| sulfate | 250 | 1 | 1.2 | 8.2 | 0.89 F | 10 | 6.4 B | 1.2 F | 0.54 J | 3.1 J | 2.3 J | 3.1 J |
| TDS | 500 | 10 | 460 | 200 | 450 | 120 | 86 | 270 | 400 | 230 | 340 | 290 |
| TOC | -- | 1 | 4.6 | 1.7 | 3.6 | 1.5 | 3.4 | 3.4 | 2.8 | 2.7 | 2.7 B | 2.1 |

For notes, please refer to the end of the tables section.

**Table 2-2**

**LF001 (Landfill 1 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class A Surface Water Standards | Reporting Limit | LF1SW-3 | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 12/9/2003 | 3/30/2004 | 6/25/2004 | 9/17/2004 | 12/15/2004 | 4/1/2005 | 6/22/2005 | 9/8/2005 | 12/20/2005 | 3/14/2006 | 9/15/2006 | 4/3/2007 |
| Sample ID No. | | | LF1SW0301AA | LF1SW0301BA | LF1SW0301CA | LF1SW0301DA | LF1SW0301EA | LF1SW0301FA | LF1SW0301GA | LF1SW0301HA | LF1SW0301IA | LF1SW0301JA | LF1SW0301LA | LF1SW0301NA |
| Depth to Water (ft) | | | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface |
| **VOCs (µg/L)** | | | | | | | | | | | | | | |
| 1,1-dichloroethane | 5 | 1 | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,2,4-Trimethylbenzene | 5 | 1 | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,2-dichlorobenzene | 3 | 1 | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,4-dichlorobenzene | 3 | 0.5 | U | U | U | 0.24 F | 0.21 F | U | U | U | U | 0.64 | U | U |
| acetone | 50 | 10 | U | 1.5 F | 3.1 F | 2.2 F | 1.8 F | 2.2 F | 3.4 F | U | U | U | 1.15 F | U |
| benzene | 1 | 0.1 | U | U | U | U | U | U | U | U | U | U | U | U |
| chlorobenzene | 5 | 0.5 | U | U | U | U | U | U | U | U | U | U | U | U |
| dichlorodifluoromethane | 5** | 1 | U | U | U | U | U | U | U | U | U | U | U | U |
| methylene chloride | 5 | 1 | U | U | U | U | U | U | U | U | U | U | U | U |
| Naphthalene | 10 | 1 | U | U | U | U | U | U | U | U | U | U | U | U |
| toluene | 5 | 1 | U | U | U | U | U | U | U | U | U | U | U | U |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 92.5 | 24.3 | 111 | 92.8 | 93 | 33.3 | 258 | 284 | 102 | 67.1 | 150 | 48 |
| ammonia | 2 | 0.2 | 0.072 | U | 0.16 | 0.12 | 0.2 | 0.13 | 0.55 | 0.12 | 0.26 | 0.093 | 0.055 | 0.044 F |
| BOD5 | -- | 2.4 | U | U | U | U | U | U | U | U | U | U | U | U |
| bromide | 2 | 0.5 | U | U | U | U | U | U | U | U | U | 0.38 F | 0.044 F | 0.038 F |
| COD | -- | 5 | U | 11.8 | 10.2 | 13.3 B | U | 13.5 | U | 15.9 | U | 16.4 | 9.2 F | 15 B |
| chloride | 250 | 1 | 10.6 | 8.1 | 14.3 | 13.1 | 10.8 | 7 | 9.9 | 10.8 | 9.6 | 10 | 23 | 9.3 |
| color | 15 | 5 | **25** | NA | NA | NA | NA | **50** | NA | NA | NA | **25** | NA | NA |
| Fluoride | 1.5 | 1 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| hardness, Total | -- | 1 | 168 | U | 140 | 90 | 100 | 36 | 264 | 318 | 160 | 48.9 | 180 B | 56 |
| nitrate | 10 | 1 | U | 0.62 F | 0.47 F | 0.81 F | 0.45 F | 0.15 F | 0.36 F | 0.82 F | 0.17 F | 0.19 F | 0.14 F | 0.25 |
| TKN | 1 | 1 | U | 0.27 | 0.53 | 0.37 | 0.95 | 0.44 | **1.1** | 1 | **1.1 B** | 0.31 | 0.2 F | 0.18 F |
| sulfate | 250 | 1 | 10.7 | 7.2 | 10.7 | 10.6 | 8.3 | 5 | 7.4 | 9 | 12 | 8.6 | 6.4 | 6.2 B |
| TDS | 500 | 10 | 157 | 60 | 174 | 134 | 160 | 56 | 332 | 313 | 154 | 149 | 200 | 89 |
| TOC | -- | 1 | 1.8 | 2.1 | 1.3 | 2.4 | 2.3 | 4.5 | 3.4 | 3.6 B | 1.6 | 2.5 | 4.4 | 2.8 |

For notes, please refer to the end of the tables section.

**Table 2-2**

**LF001 (Landfill 1 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class A Surface Water Standards | Reporting Limit | LF1SW-3 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 9/26/2007 | 4/2/2008 | 9/18/2008 | 4/17/2009 | 3/30/2010 | 6/16/2011 | 6/26/2012 | 6/11/2013 | 6/12/2014 | 6/24/2015 |
| Sample ID No. | | | LF1SW0301OA | LF1SW0301PA | LF1SW0301QA | LF1SW0301RA | LF1SW0301SA | LF1SW0301TA | LF1SW0301UA | LF1SW0301VA | LF1SW0301VA | LF1SW0301WA |
| Depth to Water (ft) | | | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface |
| **VOCs (µg/L)** | | | | | | | | | | | | |
| 1,1-dichloroethane | 5 | 1 | U | U | U | U | U | U | U | U | U | U |
| 1,2,4-Trimethylbenzene | 5 | 1 | U | U | U | U | U | U | U | U | U | U |
| 1,2-dichlorobenzene | 3 | 1 | U | U | U | U | U | U | U | U | U | U |
| 1,4-dichlorobenzene | 3 | 0.5 | U | U | U | U | U | U | U | U | U | U |
| acetone | 50 | 10 | 1.55 F | U | U | 1.15 F | 1.36 F | U | U | U | 3.4 J | U |
| benzene | 1 | 0.1 | U | U | U | U | U | U | U | U | U | U |
| chlorobenzene | 5 | 0.5 | U | U | U | U | U | NA | U | U | U | U |
| dichlorodifluoromethane | 5** | 1 | U | U | U | U | U | U | U | U | U | U |
| methylene chloride | 5 | 1 | 0.120 F | U | U | U | U | U | U | U | U | U |
| Naphthalene | 10 | 1 | U | U | U | U | U | NA | U | U | U | U |
| toluene | 5 | 1 | U | U | U | U | U | U | U | U | U | U |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 220 | 46 | 240 | 58 | 28 | 170 | 160 | 36 | 130 | 130 |
| ammonia | 2 | 0.2 | 0.061 | 0.077 | 0.2 | U | U | 0.034 F | 0.078 JB | 0.044 J | 0.14 | 0.030 J |
| BOD5 | -- | 2.4 | U | U | U | U | U | U | 1.8 J | U | 3.0 | 1.6 J |
| bromide | 2 | 0.5 | 0.043 F | U | 0.068 F | 0.015 F | U | U | U | U | U | U |
| COD | -- | 5 | 8.5 F | 4.1 F | 8.2 F | 10 | 5.4 F | 9.3 F | 10 J | 40 | 28 | 12 J |
| chloride | 250 | 1 | 15 | 9.5 | 14 | 11 | 8.2 | 5.3 | 7.0 J | 4.0 | 3.5 | 4.5 |
| color | 15 | 5 | NA | **30** | NA | 10 | U | **25** | U | U | U | **35** |
| Fluoride | 1.5 | 1 | NA | NA | NA | NA | NA | NA | NA | U | 0.11 J | U |
| hardness, Total | -- | 1 | 190 | 52 | 240 | 64 | 38 | 160 | 150 | 37 | 180 | 160 |
| nitrate | 10 | 1 | 0.14 | 0.14 | 0.21 | 0.39 | 0.28 | 0.17 F | 0.061 J | U | 0.12 J | 0.073 J |
| TKN | 1 | 1 | 0.23 | 0.20 | 0.47 | 0.22 | 0.40 B | 0.47 F | 0.90 JB | 0.59 J | 0.38 J | U |
| sulfate | 250 | 1 | 10 | 5.8 | 5.0 | 9.3 | 7.3 | 3.9 F | 3.0 J | 1.8 J | 2.2 | 3.9 |
| TDS | 500 | 10 | 280 | 77 | 280 | U | 71 | 170 | 190 | 64 | 160 | 160 |
| TOC | -- | 1 | 3.3 | 3.3 | 3.7 | 2.4 | 2.8 | 3.9 | 4.4 | 12 | 6.4 | 5.1 |

For notes, please refer to the end of the tables section.

**Table 2-3**
**Landfill 1 MAROS Trend Results**

| Well ID | Well Type | Number of Samples | Number of Detects | Mann-Kendall Statistic | Mann-Kendall Trend/ % Confidence | | Linear Regression Trend/ % Confidence | |
|---|---|---|---|---|---|---|---|---|
| **1,4-Dichlorobenzene** | | | | | | | | |
| LF1MW-10 | Tail | 21 | 15 | -174 | D | 100 | D | 100 |
| LF1MW-11 | Source | 24 | 23 | -184 | D | 100 | D | 100 |
| LF1MW-12 | Tail | 22 | 2 | 5 | NT | 54.4 | NT | 58.2 |
| LF1MW-5 | Source | 24 | 24 | -241 | D | 100 | D | 100 |
| LF1MW-6 | Tail | 23 | 3 | -3 | NT | 52.1 | NT | 72.4 |
| LF1P-2 | Source | 24 | 24 | 39 | NT | 82.5 | NT | 83 |
| MWSAR03 | Tail | 24 | 19 | -2 | S | 51 | NT | 53.4 |
| **Chlorobenzene** | | | | | | | | |
| LF1MW-10 | Tail | 21 | 2 | -39 | NT | 87.3 | PD | 94.3 |
| LF1MW-11 | Source | 24 | 23 | -209 | D | 100 | D | 99.9 |
| LF1MW-12 | Tail | 22 | 0 | 0 | ND | 48.9 | ND | 100 |
| LF1MW-5 | Source | 24 | 24 | -171 | D | 100 | D | 100 |
| LF1MW-6 | Tail | 23 | 2 | -3 | NT | 52.1 | NT | 69.2 |
| LF1P-2 | Source | 24 | 24 | -141 | D | 100 | D | 100 |
| MWSAR03 | Tail | 24 | 7 | 95 | I | 99.1 | I | 99.9 |
| **1,2-Dichlorobenzene** | | | | | | | | |
| LF1MW-10 | Tail | 21 | 0 | 0 | ND | 48.8 | ND | 100 |
| LF1MW-11 | Source | 24 | 23 | -184 | D | 100 | D | 100 |
| LF1MW-12 | Tail | 22 | 0 | 0 | ND | 48.9 | ND | 100 |
| LF1MW-5 | Source | 24 | 0 | 0 | ND | 49 | ND | 100 |
| LF1MW-6 | Tail | 23 | 0 | 0 | ND | 48.9 | ND | 100 |
| LF1P-2 | Source | 24 | 6 | -27 | S | 73.8 | S | 73.6 |
| MWSAR03 | Tail | 24 | 0 | 0 | ND | 49 | ND | 100 |
| **Benzene** | | | | | | | | |
| LF1MW-10 | Tail | 21 | 0 | 0 | ND | 48.8 | ND | 100 |
| LF1MW-11 | Source | 24 | 23 | -203 | D | 100 | D | 100 |
| LF1MW-12 | Tail | 22 | 0 | 0 | ND | 48.9 | ND | 100 |
| LF1MW-5 | Source | 24 | 24 | -117 | D | 99.9 | D | 98.7 |
| LF1MW-6 | Tail | 23 | 5 | 16 | NT | 65.3 | NT | 59.9 |
| LF1P-2 | Source | 24 | 24 | -187 | D | 100 | D | 100 |
| MWSAR03 | Tail | 24 | 17 | 40 | I | 83.1 | NT | 86.6 |

Notes:
D = Decreasing
I = Increasing
NT = No trend
PD = Probably decreasing
PI = Probably increasing
S = Stable
* = One of the variables in the MAROS program is the value assigned to non-detects. This value was set at one half the detection limit, which causes a false positive for the COC's average concentration. Instead of 0 µg/L, the value of one half the detection limit was reported.

**Table 2-4**
**Concentration Ranges for Select Components of Municipal Landfill Leachate[1]**

| Leachate Indicators | "Typical" Range[2] | Average[2] |
|---|---|---|
| Alkalinity | 500-100,000 | 3,600 |
| Ammonia-N | 100-400 | 300 |
| BOD5 | 1,000-30,000 | 10,500 |
| Chemical Oxygen Demand | 1,000-50,000 | 15,000 |
| Chloride | 100-2,000 | 980 |
| Hardness | 500-10,000 | 4,200 |
| Nitrate-N | 0.1-10.0 | 4 |
| Nitrogen-TKN | 10-500 | 500 |
| Phosphate | 0.5-50 | 30 |
| Sulfate | 10-1,000 | 380 |
| TDS | 1,000-20,000 | 11,000 |
| Total Organic Carbon | 700-10,000 | 3,500 |

1 = Lee, G. Fred, and A. R. Jones, Groundwater Pollution by municipal landfills: Leachate Composition, Detection and its Water Quality Significance. Proceedings of the National Water Well Association Fifth National Outdoor Action Conference, Las Vegas, 1991.
2 = units in milligrams per Liter

# Table 2-5
# LF001 (Landfill 1 AOC) LTM Network

| Sampling Locations | Screen Interval Depth (ft MSL) | Sampling Rationale | Target Analytes/ EPA Method Numbers[1] | Matrix | # of Samples | Current Sampling Frequency | 2016 Recommended Sampling Frequency | Evaluation Criteria |
|---|---|---|---|---|---|---|---|---|
| **Groundwater** | | ---------- | Anions – SW9056 | Water | 16[2] | Annually | Annually | If downgradient wells do not exhibit exceedances of NYS Groundwater Standards or Base background levels for two successive monitoring events, evaluate monitoring frequency and number of wells.<br><br>Surface water analytes and frequency will be varied to follow groundwater program. |
| LF1P-3 | 494.13' – 489.13' | Downgradient | Nitrogen (TKN) – 351.2 | | | | | |
| LF1P-5 | 479.91' – 474.94' | Downgradient | Ammonia – 350.1 | | | | | |
| LF1MW-1R | 534.46' – 524.46' | Upgradient | Chemical Oxygen Demand (COD) – 410.4 | | | | | |
| LF1MW-13 | 495.82' – 485.82' | POC well | Biological Oxygen Demand (BOD) – 405.1 | | | | | |
| LF1MW-103 | 32.8' – 22.8'[4] | Bedrock | Total Organic Carbon (TOC) - SW9060 | | | | | |
| LF1MW-14 | 483.91' – 473.91' | Downgradient | Total Dissolved Solids (TDS) – 160.1 | | | | | |
| | | ---------- | Alkalinity – 310.2 | | | | | |
| | | | Phenols – SW9066 | | | | | |
| | | | Hardness – 130.2 | | | | | |
| | | | Color – 110.2 | | | | | |
| | | | Boron – SW6010B | | | | | |
| LF1P-2 | 495.07' – 490.07' | Downgradient | VOCs – SW8260 | | | | | |
| LF1MW-5 | 485.26' – 475.26' | Downgradient | Anions – SW9056 | | | | | |
| LF1MW-6 | 492.36' – 482.36' | Downgradient | Nitrogen (TKN) – 351.2 | | | | | |
| LF1MW-10 | 511.08' – 501.08' | Downgradient | Ammonia – 350.1 | | | | | |
| LF1MW-11 | 494.25' – 484.25' | Downgradient | Chemical Oxygen Demand (COD) – 410.4 | | | | | |
| LF1MW-12 | 483.91' – 473.91' | Downgradient | Biological Oxygen Demand (BOD) – 405.1 | | | | | |
| MWSAR03 | 521.28' – 511.28' | Downgradient | Total Organic Carbon (TOC) - SW9060 | | | | | |
| **Surface Water (Six Mile Creek)** | Depth to groundwater ranged from 0.0 to 27.1 ft bgs. | | Total Dissolved Solids (TDS) – 160.1 | | | | | |
| LF1SW-1 | | Potential contaminant receptor | Alkalinity – 310.2 | | | | | |
| LF1SW-2SMC | | Potential contaminant receptor | Phenols – SW9066 | | | | | |
| LF1SW-3 | | Potential contaminant receptor | Hardness – 130.2 | | | | | |
| | | | Color – 110.2 | | | | | |
| | | | Boron – SW6010B | | | | | |
| **Methane** All gas monitoring probes and vents | -- | In accordance with 6 NYCRR 360-2.17(f) | CGI Methane or %LEL[3] | Gas | 20 probes 31 vents | Semiannually | Annually | |

1 Baseline parameters based on 6 NYCRR Part 360, Subpart 2, Appendix A.

2 Please refer to FSP for details concerning the number of quality assurance/quality control (QA/QC) samples and their locations. At least one matrix spike/matrix spike duplicate (MS/MSD) and two field duplicates will be collected per sample delivery group (SDG); one equipment blank per day and one ambient blank per day; one trip blank per cooler containing VOCs.

3 Combustible Gas Indicator (CGI); Lower Explosive Limit (LEL).

4 Monitoring well has not been surveyed. The reported value is in ft bgs.

**Table 3-1**

**LF002 (Landfill 2/3 AOC) Landfill Gas Monitoring Results**

| Sample Location | 27-Sep-04 | | | | 5-Nov-04 | | | | 16-Dec-04 | | | | 17-Jan-05 | | | | 17-Feb-05 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Barometric Pressure (in.) = 29.68 | | | | Barometric Pressure (in.) = 29.60 | | | | Barometric Pressure (in.) = 29.79 | | | | Barometric Pressure (in.) = 29.77 | | | | Barometric Pressure (in.) = 29.34 | | | |
| | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) |
| LF2GMP-01 | 32 | 1.6 | 2.4 | 16.0 | --- | --- | --- | --- | 6 | 0.3 | 1.0 | 13.1 | 0 | 0.0 | 4.1 | 10.7 | 0 | 0.0 | 6.4 | 10.5 |
| LF2GMP-02 | >100 | 8.7 | 4.7 | 6.3 | --- | --- | --- | --- | 41 | 2.4 | 11.3 | 7.4 | 6 | 0.3 | 10.0 | 7.4 | 0 | 0.0 | 13.3 | 5.3 |
| LF2GMP-03 | 0 | 0.0 | 18.7 | 2.7 | --- | --- | --- | --- | >100 | 11.3 | 0.5 | 21.5 | >100 | 9.5 | 0.5 | 19.9 | 0 | 0.0 | 5.7 | 12.5 |
| LF2GMP-04 | 62 | 3.0 | 9.4 | 12.3 | --- | --- | --- | --- | >100 | 13.1 | 0.7 | 26.9 | >100 | 11.4 | 0.6 | 23.1 | >100 | 10.8 | 3.6 | 22.0 |
| LF2GMP-05 | >100 | 7.0 | 5.8 | 7.6 | --- | --- | --- | --- | 6 | 0.3 | 16.2 | 2.2 | 0 | 0.0 | 18.5 | 0.9 | 0 | 0.0 | 20.2 | 0.2 |
| LF2GMP-06 | 0 | 0.0 | 13.9 | 6.0 | --- | --- | --- | --- | 6 | 0.3 | 12.4 | 7.8 | 0 | 0.0 | 14.1 | 6.3 | 0 | 0.0 | 18.2 | 3.0 |
| LF2GMP-07 | 0 | 0.0 | 16.9 | 4.5 | --- | --- | --- | --- | 6 | 0.3 | 17.5 | 2.9 | 0 | 0.0 | 18.0 | 1.8 | 0 | 0.0 | 19.1 | 1.4 |
| LF2GMP-08 | NI | NI | NI | NI | 0 | 0.0 | 20.3 | 0.5 | 4 | 0.2 | 19.4 | 0.9 | 0 | 0.0 | 19.8 | 0.2 | 0 | 0.0 | 19.6 | 0.8 |
| LF2GMP-09 | NI | NI | NI | NI | 0 | 0.0 | 21.0 | 0.2 | 4 | 0.2 | 20.1 | 0.3 | 0 | 0.0 | 20.6 | 0.2 | 0 | 0.0 | 20.5 | 0.2 |
| LF2VENT-01 | --- | --- | --- | --- | --- | --- | --- | --- | >100 | 19.5 | 5.5 | 17.5 | >100 | 7.2 | 9.1 | 10.0 | >100 | 7.6 | 7.6 | 9.6 |
| LF2VENT-02 | --- | --- | --- | --- | --- | --- | --- | --- | 54 | 2.7 | 18.2 | 2.3 | 44 | 2.2 | 18.5 | 1.7 | >100 | 9.8 | 11.8 | 9.9 |
| LF2VENT-03 | >100 | 15.2 | 6.8 | 13.0 | --- | --- | --- | --- | >100 | 44.5 | 1.5 | 20.3 | >100 | 28.2 | 8.9 | 13.3 | >100 | 25.1 | 9.1 | 14.0 |
| LF2VENT-04 | >100 | 10.5 | 15.0 | 8.6 | --- | --- | --- | --- | >100 | 33.3 | 0.2 | 22.8 | >100 | 22.2 | 5.6 | 16.1 | >100 | 25.9 | 2.3 | 19.5 |
| LF2VENT-05 | >100 | 32.0 | 0.3 | 29.4 | --- | --- | --- | --- | >100 | 24.6 | 0.0 | 25.1 | >100 | 21.3 | 1.0 | 21.5 | >100 | 14.7 | 0.3 | 21.0 |
| LF2VENT-06 | >100 | 13.7 | 7.9 | 15.9 | --- | --- | --- | --- | >100 | 8.6 | 0.7 | 20.3 | 54 | 2.7 | 5.2 | 14.7 | 0 | 0.0 | 21.0 | 0.0 |
| LF2VENT-07 | >100 | 10.0 | 18.4 | 5.2 | --- | --- | --- | --- | >100 | 11.3 | 3.7 | 8.8 | >100 | 6.5 | 5.8 | 7.8 | 16 | 0.8 | 11.3 | 3.5 |
| LF2VENT-08 | 66 | 3.2 | 5.7 | 12.6 | --- | --- | --- | --- | 4 | 0.2 | 3.9 | 10.0 | 0 | 0.0 | 11.2 | 5.5 | 0 | 0.0 | 10.1 | 6.9 |
| LF2VENT-09 | --- | --- | --- | --- | --- | --- | --- | --- | 6 | 0.3 | 6.8 | 4.7 | 0 | 0.0 | 18.4 | 0.5 | 0 | 0.0 | 14.0 | 3.7 |
| LF2VENT-10 | --- | --- | --- | --- | --- | --- | --- | --- | 24 | 1.2 | 9.4 | 5.1 | 2 | 0.1 | 13.0 | 3.6 | 0 | 0.0 | 15.2 | 3.9 |
| LF2VENT-11 | 50 | 2.5 | 16.1 | 5.2 | --- | --- | --- | --- | >100 | 8.8 | 1.2 | 15.2 | >100 | 7.8 | 1.4 | 13.1 | 48 | 2.4 | 6.9 | 10.7 |
| LF2VENT-12 | >100 | 24.3 | 0.3 | 29.1 | --- | --- | --- | --- | >100 | 13.1 | 0.0 | 21.3 | >100 | 9.1 | 0.5 | 12.9 | >100 | 6.0 | 2.2 | 16.2 |
| LF2VENT-13 | 54 | 3.1 | 19.9 | 1.9 | --- | --- | --- | --- | >100 | 23.0 | 4.0 | 15.9 | >100 | 18.0 | 6.6 | 12.9 | >100 | 17.5 | 6.0 | 12.7 |
| LF2VENT-14 | >100 | 11.4 | 16.7 | 8.0 | --- | --- | --- | --- | >100 | 38.1 | 0.4 | 26.7 | >100 | 32.5 | 1.5 | 20.6 | >100 | 28.5 | 0.9 | 22.3 |

Notes:

NI Not Installed

--- Not monitored

**Table 3-1**

**LF002 (Landfill 2/3 AOC) Landfill Gas Monitoring Results**

| Sample Location | 24-Mar-05 | | | | 28-Apr-05 | | | | 26-May-05 | | | | 23-Jun-05 | | | | 1-Aug-05 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Barometric Pressure (in.) = 30.00 | | | | Barometric Pressure (in.) = 29.28 | | | | Barometric Pressure (in.) = 29.23 | | | | Barometric Pressure (in.) = 29.61 | | | | Barometric Pressure (in.) = 29.54 | | | |
| | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) |
| LF2GMP-01 | 0 | 0.0 | 18.1 | 1.2 | 0 | 0.0 | 16.1 | 2.3 | 4 | 0.2 | 19.3 | 0.3 | 0 | 0.0 | 9.7 | 8.3 | 12 | 0.6 | 3.7 | 16.2 |
| LF2GMP-02 | 0 | 0.0 | 13.1 | 5.7 | 6 | 0.3 | 10.0 | 8.1 | 40 | 2.0 | 8.5 | 9.8 | 76 | 3.8 | 8.7 | 11.4 | >100 | 5.2 | 11.2 | 6.8 |
| LF2GMP-03 | 0 | 0.0 | 14.6 | 6.3 | 0 | 0.0 | 14.7 | 5.5 | 0 | 0.0 | 18.8 | 2.3 | 0 | 0.0 | 19.5 | 1.1 | 0 | 0.0 | 19.1 | 1.1 |
| LF2GMP-04 | >100 | 5.9 | 6.7 | 17.4 | >100 | 9.1 | 8.6 | 17.3 | 80 | 4.0 | 10.2 | 12.7 | 16 | 0.8 | 10.6 | 11.5 | 18 | 0.9 | 6.1 | 14.7 |
| LF2GMP-05 | 0 | 0.0 | 20.6 | 0.2 | 0 | 0.0 | 18.2 | 0.5 | 0 | 0.0 | 15.3 | 1.1 | 12 | 0.6 | 10.3 | 3.2 | >100 | 9.5 | 5.5 | 9.2 |
| LF2GMP-06 | 0 | 0.0 | 18.4 | 2.4 | 0 | 0.0 | 17.0 | 3.1 | 0 | 0.0 | 16.7 | 2.9 | 0 | 0.0 | 15.9 | 3.5 | 0 | 0.0 | 13.3 | 6.0 |
| LF2GMP-07 | 0 | 0.0 | 18.6 | 1.5 | 0 | 0.0 | 18.6 | 2.2 | 0 | 0.0 | 19.7 | 1.6 | 0 | 0.0 | 18.0 | 2.5 | 0 | 0.0 | 18.4 | 2.6 |
| LF2GMP-08 | 0 | 0.0 | 19.0 | 1.1 | 0 | 0.0 | 19.8 | 0.9 | 0 | 0.0 | 20.4 | 0.5 | 0 | 0.0 | 19.6 | 0.9 | 0 | 0.0 | 20.1 | 0.3 |
| LF2GMP-09 | 0 | 0.0 | 20.2 | 0.4 | 0 | 0.0 | 20.7 | 0.3 | 0 | 0.0 | 20.7 | 0.2 | 0 | 0.0 | 20.0 | 0.3 | 0 | 0.0 | 20.2 | 0.2 |
| LF2VENT-01 | >100 | 5.2 | 15.7 | 3.3 | >100 | 9.0 | 14.2 | 5.3 | 0 | 0.0 | 21.2 | 0.0 | 0 | 0.0 | 18.7 | 1.1 | 0 | 0.0 | 20.2 | 0.5 |
| LF2VENT-02 | 46 | 2.3 | 17.8 | 2.5 | 16 | 0.8 | 20.2 | 0.5 | 60 | 3.0 | 17.6 | 3.8 | 0 | 0.0 | 15.8 | 4.1 | 0 | 0.0 | 20.4 | 0.1 |
| LF2VENT-03 | >100 | 25.2 | 8.2 | 14.4 | >100 | 24.0 | 11.3 | 14.2 | >100 | 18.1 | 7.1 | 18.9 | >100 | 7.5 | 8.5 | 16.5 | 14 | 0.7 | 11.9 | 13.1 |
| LF2VENT-04 | >100 | 12.5 | 9.3 | 10.4 | >100 | 11.0 | 5.5 | 15.9 | 0 | 0.0 | 20.8 | 0.1 | 2 | 0.1 | 8.0 | 10.6 | 8 | 0.4 | 19.1 | 1.8 |
| LF2VENT-05 | 84 | 4.2 | 7.1 | 10.4 | 66 | 3.3 | 21.0 | 0.0 | 52 | 2.6 | 16.1 | 6.0 | 0 | 0.0 | 17.7 | 1.7 | 8 | 0.4 | 20.5 | 0.1 |
| LF2VENT-06 | 0 | 0.0 | 18.4 | 2.1 | 24 | 1.2 | 9.1 | 10.1 | 0 | 0.0 | 21.2 | 0.0 | 0 | 0.0 | 19.7 | 0.2 | >100 | 5.1 | 11.1 | 11.7 |
| LF2VENT-07 | 0 | 0.0 | 20.3 | 0.2 | 16 | 0.8 | 13.4 | 4.2 | 0 | 0.0 | 20.9 | 0.1 | 0 | 0.0 | 10.2 | 4.8 | 0 | 0.0 | 18.7 | 2.8 |
| LF2VENT-08 | 0 | 0.0 | 20.9 | 0.0 | 0 | 0.0 | 11.6 | 5.3 | 0 | 0.0 | 21.1 | 0.0 | 0 | 0.0 | 17.2 | 1.8 | >100 | 6.5 | 3.4 | 17.3 |
| LF2VENT-09 | 0 | 0.0 | 20.8 | 0.0 | 0 | 0.0 | 17.2 | 2.7 | 0 | 0.0 | 21.0 | 0.0 | 0 | 0.0 | 17.9 | 1.6 | 0 | 0.0 | 16.8 | 4.7 |
| LF2VENT-10 | 0 | 0.0 | 20.7 | 0.0 | 0 | 0.0 | 18.5 | 1.5 | 0 | 0.0 | 21.1 | 0.0 | 0 | 0.0 | 18.3 | 1.5 | 0 | 0.0 | 16.5 | 4.8 |
| LF2VENT-11 | 0 | 0.0 | 20.6 | 0.1 | 60 | 3.0 | 9.1 | 8.4 | 0 | 0.0 | 21.1 | 0.0 | 0 | 0.0 | 18.2 | 1.4 | 50 | 2.5 | 10.7 | 10.8 |
| LF2VENT-12 | 0 | 0.0 | 15.5 | 3.3 | >100 | 8.3 | 2.6 | 16.8 | 0 | 0.0 | 21.1 | 0.0 | 0 | 0.0 | 16.4 | 1.4 | >100 | 9.6 | 7.8 | 15.6 |
| LF2VENT-13 | >100 | 16.8 | 8.7 | 10.2 | >100 | 21.1 | 9.4 | 12.7 | 2 | 0.1 | 17.8 | 4.0 | 0 | 0.0 | 15.5 | 3.1 | 0 | 0.0 | 19.8 | 0.9 |
| LF2VENT-14 | >100 | 26.5 | 5.5 | 19.9 | >100 | 32.5 | 2.5 | 24.9 | >100 | 18.3 | 3.1 | 23.3 | 8 | 0.4 | 19.0 | 1.0 | 86 | 4.3 | 17.8 | 2.8 |

Notes:

NI Not Installed

--- Not monitored

**Table 3-1**

**LF002 (Landfill 2/3 AOC) Landfill Gas Monitoring Results**

| Sample Location | 29-Aug-05 | | | | 7-Oct-05 | | | | 14-Nov-05 | | | | 28-Nov-05 | | | | 6-Jan-05 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Barometric Pressure (in.) = 29.50 | | | | Barometric Pressure (in.) = 29.87 | | | | Barometric Pressure (in.) = 30.32 | | | | Barometric Pressure (in.) = 30.06 | | | | Barometric Pressure (in.) = 29.13 | | | |
| | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) |
| LF2GMP-01 | 10 | 0.5 | 15.3 | 5.7 | 20 | 1.0 | 2.3 | 14.8 | 16 | 0.8 | 0.7 | 11.5 | 12 | 0.6 | 0.2 | 12.1 | 0 | 0.0 | 9.8 | 5.6 |
| LF2GMP-02 | 0 | 0.0 | 20.5 | 0.0 | >100 | 9.5 | 0.3 | 22.1 | >100 | 5.1 | 6.4 | 11.4 | >100 | 7.0 | 3.4 | 14.2 | 20 | 1.0 | 2.9 | 11.3 |
| LF2GMP-03 | 0 | 0.0 | 19.4 | 1.3 | 0 | 0.0 | 19.4 | 1.2 | 0 | 0.0 | 17.6 | 2.2 | 0 | 0.0 | 12.2 | 3.7 | 88 | 4.4 | 0.0 | 14.4 |
| LF2GMP-04 | 0 | 0.0 | 6.4 | 15.1 | 4 | 0.2 | 9.0 | 9.0 | >100 | 6.2 | 15.4 | 4.1 | >100 | 9.2 | 2.8 | 20.9 | >100 | 11.9 | 1.0 | 25.1 |
| LF2GMP-05 | >100 | 8.9 | 6.3 | 12.3 | 38 | 1.9 | 6.7 | 10.9 | 0 | 0.0 | 12.9 | 6.5 | 0 | 0.0 | 14.2 | 5.5 | 0 | 0.0 | 14.0 | 5.3 |
| LF2GMP-06 | 0 | 0.0 | 13.4 | 7.1 | 0 | 0.0 | 13.9 | 6.3 | 0 | 0.0 | 12.9 | 6.2 | 0 | 0.0 | 12.8 | 6.6 | 2 | 0.1 | 11.4 | 7.4 |
| LF2GMP-07 | 6 | 0.3 | 18.5 | 2.9 | 0 | 0.0 | 17.9 | 2.5 | 0 | 0.0 | 17.4 | 2.9 | 0 | 0.0 | 18.1 | 2.7 | 0 | 0.0 | 19.4 | 2.4 |
| LF2GMP-08 | 0 | 0.0 | 19.9 | 0.9 | 0 | 0.0 | 20.1 | 0.6 | 0 | 0.0 | 19.5 | 1.0 | 0 | 0.0 | 20.3 | 0.8 | 0 | 0.0 | 20.7 | 0.1 |
| LF2GMP-09 | 0 | 0.0 | 20.2 | 0.3 | 0 | 0.0 | 20.6 | 0.1 | 0 | 0.0 | 20.2 | 0.3 | 0 | 0.0 | 20.7 | 0.2 | 0 | 0.0 | 20.5 | 0.5 |
| LF2VENT-01 | 0 | 0.0 | 19.4 | 1.3 | 0 | 0.0 | 19.5 | 1.0 | 6 | 0.3 | 18.8 | 1.3 | >100 | 7.5 | 12.8 | 6.1 | --- | --- | --- | --- |
| LF2VENT-02 | 0 | 0.0 | 19.6 | 1.1 | 0 | 0.0 | 20.6 | 0.0 | 0 | 0.0 | 20.2 | 0.2 | >100 | 11.3 | 11.9 | 10.3 | --- | --- | --- | --- |
| LF2VENT-03 | 38 | 1.9 | 7.5 | 19.3 | 0 | 0.0 | 20.6 | 0.0 | 0 | 0.0 | 19.5 | 0.4 | 80 | 4.0 | 14.9 | 1.7 | --- | --- | --- | --- |
| LF2VENT-04 | 2 | 0.1 | 8.6 | 12.2 | 0 | 0.0 | 20.7 | 0.0 | 40 | 2.0 | 8.7 | 8.0 | 18 | 0.9 | 15.0 | 5.3 | --- | --- | --- | --- |
| LF2VENT-05 | 18 | 0.9 | 11.3 | 8.5 | >100 | 26.0 | 0.4 | 26.2 | >100 | 5.1 | 14.7 | 6.7 | >100 | 25.6 | 1.0 | 24.1 | --- | --- | --- | --- |
| LF2VENT-06 | 0 | 0.0 | 20.2 | 0.3 | 0 | 0.0 | 20.5 | 0.0 | 0 | 0.0 | 20.2 | 0.3 | 64 | 3.2 | 12.4 | 8.5 | --- | --- | --- | --- |
| LF2VENT-07 | 0 | 0.0 | 15.8 | 4.5 | 0 | 0.0 | 20.4 | 0.0 | 0 | 0.0 | 20.6 | 0.0 | 0 | 0.0 | 21.0 | 0.0 | --- | --- | --- | --- |
| LF2VENT-08 | 4 | 0.2 | 20.6 | 0.1 | >100 | 6.8 | 0.3 | 18.3 | 0 | 0.0 | 20.7 | 0.0 | 0 | 0.0 | 21.1 | 0.0 | --- | --- | --- | --- |
| LF2VENT-09 | 2 | 0.1 | 19.6 | 1.8 | 0 | 0.0 | 20.6 | 0.0 | 0 | 0.0 | 20.6 | 0.0 | 0 | 0.0 | 21.0 | 0.0 | --- | --- | --- | --- |
| LF2VENT-10 | 0 | 0.0 | 18.7 | 2.6 | 0 | 0.0 | 19.6 | 0.6 | 0 | 0.0 | 20.6 | 0.0 | 0 | 0.0 | 20.6 | 0.0 | --- | --- | --- | --- |
| LF2VENT-11 | 0 | 0.0 | 20.7 | 0.2 | 70 | 3.5 | 2.6 | 14.4 | 0 | 0.0 | 19.5 | 0.7 | 38 | 1.9 | 10.0 | 7.0 | --- | --- | --- | --- |
| LF2VENT-12 | 6 | 0.3 | 17.4 | 3.5 | >100 | 16.2 | 1.2 | 23.0 | 8 | 0.4 | 17.3 | 2.7 | 78 | 3.9 | 12.8 | 7.8 | --- | --- | --- | --- |
| LF2VENT-13 | 0 | 0.0 | 18.5 | 2.3 | 0 | 0.0 | 18.9 | 2.1 | 0 | 0.0 | 19.6 | 0.3 | >100 | 5.1 | 9.7 | 2.8 | --- | --- | --- | --- |
| LF2VENT-14 | 28 | 1.4 | 10.2 | 11.6 | 30 | 1.5 | 19.3 | 1.7 | 18 | 0.9 | 19.1 | 0.7 | >100 | 11.5 | 9.2 | 8.9 | --- | --- | --- | --- |

Notes:

NI Not Installed

--- Not monitored

**Table 3-1**

**LF002 (Landfill 2/3 AOC) Landfill Gas Monitoring Results**

| Sample Location | 30-Mar-06 | | | | 20-Apr-06 | | | | 26-May-06 | | | | 30-Jun-06 | | | | 28-Jul-06 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Barometric Pressure (in.) = 30.22 | | | | Barometric Pressure (in.) = 30.02 | | | | Barometric Pressure (in.) = 30.06 | | | | Barometric Pressure (in.) = 29.96 | | | | Barometric Pressure (in.) = 29.24 | | | |
| | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) |
| LF2GMP-01 | 0 | 0.0 | 16.8 | 2.7 | 0 | 0.0 | 17.2 | 3.2 | 0 | 0.0 | 13.0 | 5.3 | 0 | 0.0 | 16.1 | 3.2 | 63 | 3.2 | 0.6 | 17.4 |
| LF2GMP-02 | 0 | 0.0 | 3.1 | 11.9 | 0 | 0.0 | 20.9 | 0.0 | 8 | 0.4 | 19.9 | 0.2 | >100 | 10.7 | 0.3 | 19.9 | 0 | 0.0 | 21.6 | 0.0 |
| LF2GMP-03 | 0 | 0.0 | 20.9 | 0.0 | 0 | 0.0 | 20.9 | 0.0 | 0 | 0.0 | 20.1 | 0.0 | 0 | 0.0 | 20.2 | 0.0 | 0 | 0.0 | 21.6 | 0.0 |
| LF2GMP-04 | 10 | 0.5 | 12.2 | 2.8 | 0 | 0.0 | 20.9 | 0.0 | 0 | 0.0 | 20.1 | 0.0 | 0 | 0.0 | 20.2 | 0.0 | 0 | 0.0 | 21.1 | 0.0 |
| LF2GMP-05 | 0 | 0.0 | 19.0 | 0.7 | 0 | 0.0 | 20.8 | 0.0 | 4 | 0.2 | 10.5 | 2.7 | 0 | 0.0 | 20.0 | 0.1 | >100 | 14.9 | 0.2 | 10.6 |
| LF2GMP-06 | 0 | 0.0 | 16.5 | 3.3 | 0 | 0.0 | 21.0 | 0.0 | 4 | 0.2 | 20.1 | 0.1 | 0 | 0.0 | 20.2 | 0.0 | 0 | 0.0 | 10.7 | 7.3 |
| LF2GMP-07 | 0 | 0.0 | 20.0 | 1.0 | 0 | 0.0 | 20.6 | 0.5 | 2 | 0.1 | 19.9 | 0.3 | 0 | 0.0 | 17.8 | 2.9 | 0 | 0.0 | 18.8 | 2.1 |
| LF2GMP-08 | 0 | 0.0 | 20.2 | 0.4 | 0 | 0.0 | 20.4 | 0.6 | 4 | 0.2 | 19.9 | 0.3 | 0 | 0.0 | 18.7 | 1.4 | 0 | 0.0 | 19.9 | 1.5 |
| LF2GMP-09 | 0 | 0.0 | 20.7 | 0.2 | 0 | 0.0 | 20.8 | 0.2 | 4 | 0.2 | 20.0 | 0.1 | 0 | 0.0 | 19.7 | 0.6 | 0 | 0.0 | 20.2 | 0.6 |
| LF2VENT-01 | 6 | 0.3 | 20.2 | 0.1 | 0 | 0.0 | 20.9 | 0.0 | 0 | 0.0 | 20.1 | 0.0 | 0 | 0.0 | 20.2 | 0.0 | 0 | 0.0 | 21.6 | 0.0 |
| LF2VENT-02 | 16 | 0.8 | 19.5 | 1.4 | 44 | 2.2 | 18.8 | 2.2 | 6 | 0.3 | 20.1 | 0.1 | 0 | 0.0 | 20.2 | 0.0 | 0 | 0.0 | 21.6 | 0.0 |
| LF2VENT-03 | 0 | 0.0 | 20.1 | 0.1 | 4 | 0.2 | 19.2 | 0.9 | 4 | 0.2 | 20.0 | 0.1 | 0 | 0.0 | 20.1 | 0.1 | 0 | 0.0 | 11.7 | 7.2 |
| LF2VENT-04 | 66 | 3.3 | 16.2 | 2.3 | 32 | 1.6 | 14.0 | 3.7 | 0 | 0.0 | 20.1 | 0.0 | 6 | 0..3 | 13.8 | 3.9 | 3 | 0.2 | 18.0 | 1.9 |
| LF2VENT-05 | >100 | 5.5 | 11.3 | 8.0 | 0 | 0.0 | 20.8 | 0.1 | 0 | 0.0 | 20.1 | 0.0 | 0 | 0.0 | 19.6 | 0.8 | >100 | 17.3 | 0.9 | 21.1 |
| LF2VENT-06 | 0 | 0.0 | 13.4 | 6.6 | 0 | 0.0 | 21.0 | 0.1 | 2 | 0.1 | 20.0 | 0.0 | 48 | 2.4 | 12.3 | 6.1 | >100 | 15.4 | 4.7 | 17.1 |
| LF2VENT-07 | 0 | 0.0 | 19.9 | 0.1 | 0 | 0.0 | 20.2 | 0.2 | 6 | 0.3 | 16.2 | 2.8 | 0 | 0.3 | 20.0 | 0.2 | 0 | 0.0 | 3.6 | 7.9 |
| LF2VENT-08 | 4 | 0.2 | 17.4 | 1.9 | 0 | 0.0 | 19.4 | 1.5 | 0 | 0.0 | 20.1 | 0.0 | 0 | 0.0 | 14.7 | 2.6 | 14 | 0.7 | 2.4 | 13.4 |
| LF2VENT-09 | 0 | 0.0 | 18.0 | 1.1 | 0 | 0.0 | 14.5 | 3.7 | 0 | 0.0 | 20.2 | 0.0 | 0 | 0.0 | 9.7 | 6.6 | 0 | 0.0 | 5.2 | 11.2 |
| LF2VENT-10 | 0 | 0.0 | 20.1 | 0.1 | 0 | 0.0 | 18.8 | 1.0 | 0 | 0.0 | 20.2 | 0.0 | 0 | 0.0 | 20.3 | 0.0 | 0 | 0.0 | 4.3 | 12.1 |
| LF2VENT-11 | 18 | 0.9 | 16.5 | 2.5 | 0 | 0.0 | 21.0 | 0.0 | 0 | 0.0 | 20.2 | 0.0 | 0 | 0.0 | 20.3 | 0.0 | 8 | 0.4 | 6.0 | 11.3 |
| LF2VENT-12 | 36 | 1.8 | 5.8 | 10.1 | 0 | 0.0 | 20.9 | 0.2 | 2 | 0.1 | 20.2 | 0.1 | 22 | 1.1 | 14.5 | 5.1 | >100 | 16.9 | 1.6 | 20.3 |
| LF2VENT-13 | 22 | 1.1 | 19.1 | 0.4 | 0 | 0.0 | 20.9 | 0.0 | 0 | 0.0 | 20.1 | 0.0 | 0 | 0.0 | 20.1 | 0.0 | 0 | 0.0 | 21.6 | 0.0 |
| LF2VENT-14 | >100 | 6.6 | 16.1 | 4.5 | >100 | 10.5 | 13.8 | 8.5 | >100 | 15.6 | 6.6 | 17.9 | >100 | 8.5 | 14.5 | 5.6 | >100 | 20.8 | 1.1 | 21.2 |

Notes:

NI Not Installed

--- Not monitored

**Table 3-1**

**LF002 (Landfill 2/3 AOC) Landfill Gas Monitoring Results**

| Sample Location | 18-Aug-06 | | | | 29-Sep-06 | | | | 4-Jan-07 | | | | 31-May-07 | | | | 30-Jul-07 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Barometric Pressure (in.) = 30.18 | | | | Barometric Pressure (in.) = 29.83 | | | | Barometric Pressure (in.) = 29.40 | | | | Barometric Pressure (in.) = 29.43 | | | | Barometric Pressure (in.) = 29.49 | | | |
| | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) |
| LF2GMP-01 | 0 | 0.0 | 16.3 | 3.1 | 0 | 0.0 | 20.3 | 0.1 | 0 | 0.0 | 20.7 | 0.1 | 32 | 1.6 | 17.6 | 1.9 | 0 | 0.0 | 20.2 | 0.4 |
| LF2GMP-02 | >100 | 12.1 | 0.0 | 22.4 | >100 | 11.2 | 21.7 | 1.5 | 2 | 0.1 | 4.5 | 11.4 | 32 | 1.6 | 0.4 | 9.6 | >100 | 5.4 | 6.5 | 15.0 |
| LF2GMP-03 | 0 | 0.0 | 20.1 | 0.0 | 0 | 0.0 | 20.1 | 0.0 | 0 | 0.0 | 20.2 | 0.3 | 0 | 0.0 | 19.9 | 0.0 | 0 | 0.0 | 20.6 | 0.1 |
| LF2GMP-04 | 0 | 0.0 | 20.2 | 0.0 | 0 | 0.0 | 17.8 | 0.0 | 5 | 0.3 | 19.8 | 0.9 | 0 | 0.0 | 19.9 | 0.0 | 0 | 0.0 | 20.7 | 0.0 |
| LF2GMP-05 | >100 | 13.1 | 0.0 | 11.4 | 0 | 0.0 | 18.0 | 0.0 | 0 | 0.0 | 18.8 | 1.3 | 0 | 0.0 | 11.4 | 1.5 | >100 | 7.7 | 3.5 | 7.7 |
| LF2GMP-06 | 0 | 0.0 | 20.2 | 0.0 | 0 | 0.0 | 20.3 | 0.0 | 0 | 0.0 | 12.2 | 6.3 | 0 | 0.0 | 21.2 | 0.0 | 0 | 0.0 | 20.7 | 0.1 |
| LF2GMP-07 | 0 | 0.0 | 19.8 | 0.3 | 0 | 0.0 | 17.3 | 1.6 | 0 | 0.0 | 20.7 | 0.4 | 0 | 0.0 | 21.0 | 0.0 | 0 | 0.0 | 20.9 | 0.2 |
| LF2GMP-08 | 0 | 0.0 | 19.7 | 0.1 | 0 | 0.0 | 17.5 | 0.0 | 0 | 0.0 | 20.2 | 0.7 | 0 | 0.0 | 21.1 | 0.0 | 0 | 0.0 | 20.6 | 0.4 |
| LF2GMP-09 | 0 | 0.0 | 20.2 | 0.0 | 0 | 0.0 | 19.8 | 0.4 | 1 | 0.1 | 20.7 | 0.2 | 0 | 0.0 | 20.4 | 0.0 | 0 | 0.0 | 20.6 | 0.2 |
| LF2VENT-01 | 0 | 0.0 | 19.6 | 0.7 | 0 | 0.0 | 17.6 | 0.2 | >100 | 5.7 | 15.8 | 2.9 | 30 | 1.5 | 19.6 | 0.1 | 0 | 0.0 | 20.4 | 0.2 |
| LF2VENT-02 | 0 | 0.0 | 20.3 | 0.0 | 2 | 0.1 | 17.7 | 0.1 | 8 | 0.4 | 20.4 | 0.4 | 0 | 0.0 | 19.9 | 0.0 | 0 | 0.0 | 20.5 | 0.1 |
| LF2VENT-03 | 0 | 0.0 | 20.1 | 0.0 | 0 | 0.0 | 20.0 | 0.0 | 0 | 0.0 | 20.7 | 0.1 | 1 | 0.1 | 18.4 | 1.2 | 0 | 0.0 | 20.5 | 0.2 |
| LF2VENT-04 | 0 | 0.0 | 19.9 | 0.0 | 26 | 1.3 | 18.6 | 0.8 | >100 | 5.5 | 15.9 | 2.7 | 3 | 0.2 | 17.3 | 2.1 | 0 | 0.0 | 19.9 | 0.8 |
| LF2VENT-05 | 0 | 0.0 | 20.3 | 0.0 | 0 | 0.0 | 19.3 | 0.0 | >100 | 28.5 | 0.2 | 23.0 | 0 | 0.0 | 20.2 | 0.0 | 16 | 0.8 | 13.0 | 5.0 |
| LF2VENT-06 | 0 | 0.0 | 20.2 | 0.0 | 28 | 1.4 | 18.7 | 1.8 | >100 | 12.6 | 6.6 | 15.1 | 0 | 0.0 | 20.1 | 1.2 | 0 | 0.0 | 20.0 | 0.4 |
| LF2VENT-07 | 0 | 0.0 | 20.1 | 0.2 | 0 | 0.0 | 17.6 | 0.4 | 14 | 0.7 | 18.6 | 0.5 | 1 | 0.1 | 18.1 | 2.8 | 0 | 0.0 | 19.1 | 1.0 |
| LF2VENT-08 | 0 | 0.0 | 12.9 | 6.3 | 0 | 0.0 | 17.6 | 0.0 | 0 | 0.0 | 18.1 | 1.4 | 0 | 0.0 | 16.1 | 4.8 | 0 | 0.0 | 20.8 | 0.2 |
| LF2VENT-09 | 0 | 0.0 | 19.2 | 0.8 | 0 | 0.0 | 20.3 | 0.0 | 13 | 0.7 | 10.8 | 3.3 | 0 | 0.0 | 20.5 | 0.4 | 0 | 0.0 | 16.3 | 3.6 |
| LF2VENT-10 | 0 | 0.0 | 20.3 | 0.0 | 0 | 0.0 | 20.1 | 0.1 | 0 | 0.0 | 20.2 | 0.4 | 0 | 0.0 | 19.6 | 1.2 | 0 | 0.0 | 20.2 | 0.3 |
| LF2VENT-11 | 0 | 0.0 | 18.0 | 2.5 | 0 | 0.0 | 20.4 | 0.0 | 47 | 2.4 | 17.0 | 2.6 | 0 | 0.0 | 19.7 | 1.5 | 0 | 0.0 | 17.5 | 2.0 |
| LF2VENT-12 | 0 | 0.0 | 19.5 | 0.8 | 10 | 0.5 | 17.3 | 1.3 | >100 | 7.8 | 11.3 | 9.4 | 0 | 0.0 | 19.6 | 2.0 | 0 | 0.0 | 20.1 | 0.7 |
| LF2VENT-13 | 0 | 0.0 | 18.8 | 1.1 | 0 | 0.0 | 18.0 | 0.0 | 70 | 3.5 | 16.8 | 1.0 | 0 | 0.0 | 21.0 | 0.2 | 0 | 0.0 | 20.0 | 0.9 |
| LF2VENT-14 | >100 | 5.3 | 11.5 | 10.1 | 6 | 0.3 | 19.4 | 0.1 | >100 | 5.7 | 18.7 | 3.4 | >100 | 6.3 | 13.5 | 8.3 | 96 | 4.8 | 7.7 | 10.1 |

Notes:

NI Not Installed

--- Not monitored

**Table 3-1**

**LF002 (Landfill 2/3 AOC) Landfill Gas Monitoring Results**

| Sample Location | 6-Oct-07 | | | | 23-Jan-08 | | | | 17-Apr-08 | | | | 16-Jul-08 | | | | 17-Nov-08 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Barometric Pressure (in.) = 30.15 | | | | Barometric Pressure (in.) = 29.42-29.48 | | | | Barometric Pressure (in.) = 30.01-30.02 | | | | Barometric Pressure (in.) = NA | | | | Barometric Pressure (in.) = 29.64 | | | |
| | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) |
| LF2GMP-01 | 0 | 0.0 | 20.6 | 0.0 | 0 | 0.0 | 20.2 | 0.5 | 0 | 0.0 | 20.7 | 0.1 | 0 | 0.0 | 11.4 | 5.5 | 0 | 0.0 | 20.7 | 0.2 |
| LF2GMP-02 | 8 | 0.4 | 20.2 | 0.5 | 0 | 0.0 | 10.2 | 6.7 | 0 | 0.0 | 5.4 | 8.3 | >100 | 9.5 | 0.0 | 19.3 | 0 | 0.0 | 21.0 | 0.1 |
| LF2GMP-03 | 0 | 0.0 | 20.6 | 0.0 | 36 | 1.8 | 14.1 | 5.4 | 2 | 0.1 | 20.4 | 0.5 | 0 | 0.0 | 20.2 | 0.1 | 0 | 0.0 | 15.2 | 3.3 |
| LF2GMP-04 | 0 | 0.0 | 20.6 | 0.0 | 1 | 0.1 | 19.7 | 0.8 | 4 | 0.2 | 20.6 | 0.1 | 0 | 0.0 | 20.5 | 0.0 | 0 | 0.0 | 20.0 | 1.1 |
| LF2GMP-05 | 0 | 0.0 | 20.6 | 0.0 | 0 | 0.0 | 18.9 | 0.3 | 2 | 0.1 | 19.2 | 0.3 | >100 | 6.9 | 0.4 | 7.8 | 0 | 0.0 | 17.8 | 2.2 |
| LF2GMP-06 | 0 | 0.0 | 20.6 | 0.0 | 0 | 0.0 | 9.7 | 7.8 | 2 | 0.1 | 13.6 | 3.5 | 0 | 0.0 | 20.3 | 0.2 | 0 | 0.0 | 14.6 | 5.2 |
| LF2GMP-07 | 0 | 0.0 | 20.6 | 0.0 | 0 | 0.0 | 19.9 | 1.0 | 6 | 0.3 | 20.1 | 0.3 | 0 | 0.0 | 19.6 | 1.0 | 0 | 0.0 | 20.2 | 1.3 |
| LF2GMP-08 | 0 | 0.0 | 20.6 | 0.1 | 0 | 0.0 | 20.4 | 0.5 | 0 | 0.0 | 20.6 | 0.1 | 0 | 0.0 | 20.6 | 0.3 | 0 | 0.0 | 20.4 | 1.2 |
| LF2GMP-09 | 0 | 0.0 | 20.6 | 0.0 | 0 | 0.0 | 20.6 | 0.3 | 2 | 0.1 | 20.8 | 0.2 | 0 | 0.0 | 20.5 | 0.3 | 0 | 0.0 | 21.2 | 0.4 |
| LF2VENT-01 | 0 | 0.0 | 20.5 | 0.1 | 21 | 1.1 | 19.2 | 0.7 | 0 | 0.0 | 21.0 | 0.1 | 0 | 0.0 | 20.2 | 0.3 | 44 | 2.2 | 17.9 | 1.6 |
| LF2VENT-02 | 0 | 0.0 | 20.6 | 0.0 | 28 | 1.5 | 19.7 | 1.7 | 8 | 0.4 | 20.7 | 0.2 | 0 | 0.0 | 20.7 | 0.1 | 6 | 0.3 | 21.4 | 0.3 |
| LF2VENT-03 | 2 | 0.0 | 20.5 | 0.1 | 7 | 0.4 | 20.4 | 0.3 | 2 | 0.1 | 20.9 | 0.1 | 0 | 0.0 | 20.7 | 0.1 | 19 | 0.9 | 20.3 | 0.6 |
| LF2VENT-04 | 4 | 0.1 | 20.3 | 0.3 | 1 | 0.1 | 20.2 | 0.7 | 8 | 4.0 | 19.3 | 0.5 | 2 | 0.1 | 20.0 | 0.3 | 51 | 3.1 | 16.6 | 2.7 |
| LF2VENT-05 | 0 | 0.2 | 20.6 | 0.0 | >100 | 23.6 | 2.3 | 20.8 | >100 | 12.6 | 8.6 | 10.9 | >100 | 6.8 | 4.2 | 11.7 | >100 | 10.2 | 14.3 | 7.1 |
| LF2VENT-06 | 0 | 0.0 | 20.6 | 0.0 | >100 | 8.5 | 10.6 | 11.3 | 30 | 1.5 | 17.1 | 2.0 | 0 | 0.0 | 19.7 | 0.5 | >100 | 26.1 | 1.2 | 22.3 |
| LF2VENT-07 | 0 | 0.0 | 19.3 | 0.8 | 0 | 0.0 | 18.7 | 0.4 | 4 | 0.2 | 20.0 | 0.1 | 0 | 0.0 | 20.3 | 0.2 | 0 | 0.0 | 21.6 | 0.1 |
| LF2VENT-08 | 0 | 0.0 | 16.5 | 3.2 | 45 | 2.3 | 13.2 | 4.4 | 26 | 1.3 | 14.4 | 2.3 | 0 | 0.0 | 19.5 | 0.6 | 2 | 0.1 | 20.2 | 0.9 |
| LF2VENT-09 | 0 | 0.0 | 19.9 | 0.5 | 0 | 0.0 | 17.7 | 1.8 | 8 | 0.4 | 13.6 | 1.2 | 0 | 0.0 | 20.2 | 0.2 | 5 | 0.2 | 16.1 | 2.3 |
| LF2VENT-10 | 0 | 0.0 | 20.2 | 0.3 | 0 | 0.0 | 19.5 | 0.9 | 6 | 0.3 | 20.1 | 0.0 | 0 | 0.0 | 20.8 | 0.1 | 2 | 0.1 | 20.6 | 0.7 |
| LF2VENT-11 | 0 | 0.0 | 16.9 | 3.0 | 31 | 1.6 | 16.7 | 2.5 | 4 | 0.2 | 20.3 | 0.2 | 0 | 0.0 | 20.8 | 0.1 | 2 | 0.1 | 18.4 | 0.8 |
| LF2VENT-12 | 0 | 0.0 | 18.4 | 2.3 | >100 | 5.0 | 12.3 | 7.6 | 12 | 0.6 | 19.8 | 0.5 | 0 | 0.0 | 19.3 | 0.6 | >100 | 5.0 | 15.0 | 6.0 |
| LF2VENT-13 | 0 | 0.0 | 19.5 | 1.1 | 11 | 0.6 | 19.6 | 0.6 | 6 | 0.3 | 20.8 | 0.0 | 0 | 0.0 | 20.2 | 0.2 | 43 | 2.1 | 17.1 | 1.2 |
| LF2VENT-14 | 2 | 0.1 | 20.3 | 0.2 | 32 | 1.6 | 18.9 | 1.3 | 22 | 1.1 | 19.2 | 0.5 | 0 | 0.0 | 20.3 | 0.2 | 6 | 0.3 | 19.7 | 1.0 |

Notes:

NI Not Installed

--- Not monitored

**Table 3-1**

**LF002 (Landfill 2/3 AOC) Landfill Gas Monitoring Results**

| Sample Location | 15-Jan-09 | | | | 28-Apr-09 | | | | 10-Jul-09 | | | | 21-Oct-09 | | | | 3-Feb-10 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Barometric Pressure (in.) = 28.98-29.62 | | | | Barometric Pressure (in.) = 29.41-29.51 | | | | Barometric Pressure (in.) = 29.52-29.6 | | | | Barometric Pressure (in.) = 29.56-29.5 | | | | Barometric Pressure (in.) = 29.34 | | | |
| | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) |
| LF2GMP-01 | 0 | 0.0 | 20.7 | 0.1 | 0 | 0.0 | 19.7 | 0.7 | 0 | 0.0 | 16.9 | 2.4 | 0 | 0.0 | 21.0 | 0.0 | 0 | 0.0 | 21.1 | 0.1 |
| LF2GMP-02 | 0 | 0.0 | 19.7 | 0.1 | 12 | 0.6 | 0.6 | 11.1 | >100 | 9.7 | 0.0 | 17.5 | >100 | 8.8 | 0.0 | 20.9 | 0 | 0.0 | 21.5 | 0.0 |
| LF2GMP-03 | 0 | 0.0 | 21.4 | 0.3 | 0 | 0.0 | 21.1 | 0.0 | 0 | 0.0 | 20.0 | 0.0 | 0 | 0.0 | 19.3 | 1.1 | 3 | 0.1 | 21.1 | 0.4 |
| LF2GMP-04 | 3 | 0.2 | 21.5 | 0.5 | 0 | 0.0 | 21.2 | 0.0 | 0 | 0.0 | 20.5 | 0.0 | 0 | 0.0 | 20.2 | 0.4 | 14 | 0.7 | 19.1 | 1.9 |
| LF2GMP-05 | 0 | 0.0 | 20.9 | 0.2 | 0 | 0.0 | 17.8 | 0.5 | 64 | 3.2 | 0.1 | 6.3 | 0 | 0.0 | 0.4 | 12.9 | 0 | 0.0 | 22.0 | 0.1 |
| LF2GMP-06 | 2 | 0.1 | 20.3 | 0.4 | 0 | 0.0 | 10.8 | 5.0 | 0 | 0.0 | 19.1 | 0.6 | 0 | 0.0 | 20.7 | 0.1 | 0 | 0.0 | 10.3 | 6.9 |
| LF2GMP-07 | 0 | 0.0 | 20.1 | 0.4 | 0 | 0.0 | 20.0 | 0.5 | 0 | 0.0 | 19.9 | 0.1 | 0 | 0.0 | 20.6 | 0.2 | 0 | 0.0 | 21.3 | 1.2 |
| LF2GMP-08 | 0 | 0.0 | 20.4 | 0.7 | 0 | 0.0 | 20.2 | 0.3 | 0 | 0.0 | 20.3 | 0.1 | 0 | 0.0 | 20.3 | 0.5 | 0 | 0.0 | 21.8 | 0.4 |
| LF2GMP-09 | 0 | 0.0 | 20.5 | 0.4 | 0 | 0.0 | 20.8 | 0.0 | 0 | 0.0 | 20.4 | 0.1 | 0 | 0.0 | 20.4 | 0.3 | 0 | 0.0 | 21.9 | 0.3 |
| LF2VENT-01 | 8 | 0.5 | 20.2 | 0.8 | 19 | 0.9 | 18.8 | 0.7 | 0 | 0.0 | 19.9 | 0.0 | 0 | 0.0 | 19.6 | 0.6 | 34 | 1.7 | 19.9 | 0.9 |
| LF2VENT-02 | 1 | 0.1 | 21.7 | 0.2 | 0 | 0.0 | 20.8 | 0.0 | 0 | 0.0 | 19.8 | 0.0 | 4 | 0.2 | 20.7 | 0.1 | 0 | 0.0 | 21.9 | 0.2 |
| LF2VENT-03 | 17 | 0.8 | 21.0 | 0.5 | 0 | 0.0 | 20.8 | 0.0 | 0 | 0.0 | 20.0 | 0.0 | 0 | 0 | 20.8 | 0.1 | 55 | 2.8 | 19.9 | 1.0 |
| LF2VENT-04 | 2 | 0.1 | 19.5 | 1.8 | 0 | 0.0 | 20.6 | 0.0 | 0 | 0.0 | 20.1 | 0.0 | >100 | 6.1 | 16.4 | 2.5 | 11 | 0.5 | 19.4 | 1.7 |
| LF2VENT-05 | 21 | 1.1 | 19.9 | 1.1 | 0 | 0.0 | 20.4 | 0.0 | 0 | 0.0 | 20.3 | 0.0 | >100 | 13.1 | 10.8 | 8.6 | 11 | 0.6 | 21.6 | 0.5 |
| LF2VENT-06 | 67 | 3.4 | 17.0 | 3.0 | 0 | 0.0 | 20.2 | 0.0 | 8 | 0.4 | 18.2 | 0.8 | >100 | 29.2 | 0.0 | 23.0 | >100 | 6.8 | 14.7 | 6.8 |
| LF2VENT-07 | 0 | 0.0 | 20.1 | 0.1 | 0 | 0.0 | 20.8 | 0.0 | 0 | 0.0 | 20.5 | 0.0 | 7 | 0.3 | 18.6 | 0.5 | 0 | 0.0 | 22.0 | 0.1 |
| LF2VENT-08 | 4 | 0.2 | 17.5 | 1.5 | 0 | 0.0 | 21.0 | 0.0 | 0 | 0.0 | 20.3 | 0.0 | 0 | 0 | 21.0 | 0.0 | 0 | 0.0 | 22.1 | 0.1 |
| LF2VENT-09 | 0 | 0.0 | 17.3 | 1.4 | 0 | 0.0 | 19.2 | 0.4 | 0 | 0.0 | 20.2 | 0.0 | 0 | 0 | 21.0 | 0.0 | 0 | 0.0 | 22.1 | 0.1 |
| LF2VENT-10 | 0 | 0.0 | 19.6 | 0.6 | 0 | 0.0 | 21.2 | 0.0 | 0 | 0.0 | 20.2 | 0.0 | 0 | 0 | 20.9 | 0.0 | 0 | 0.0 | 22.0 | 0.1 |
| LF2VENT-11 | 10 | 0.5 | 17.8 | 1.3 | 0 | 0.0 | 20.9 | 0.0 | 0 | 0.0 | 20.1 | 0.0 | 0 | 0 | 20.9 | 0.1 | 2 | 0.1 | 21.5 | 0.3 |
| LF2VENT-12 | 66 | 3.2 | 13.6 | 4.6 | 0 | 0.0 | 20.9 | 0.0 | 0 | 0.0 | 20.2 | 0.0 | 0 | 0 | 21.0 | 0.1 | 4 | 0.2 | 21.3 | 0.4 |
| LF2VENT-13 | 9 | 0.5 | 19.0 | 0.4 | 0 | 0.0 | 20.8 | 0.0 | 0 | 0.0 | 19.9 | 0.0 | 4 | 0.2 | 19.8 | 0.4 | 9 | 0.4 | 21.0 | 0.4 |
| LF2VENT-14 | 40 | 2.0 | 18.8 | 0.7 | 0 | 0.0 | 20.8 | 0.0 | 0 | 0.0 | 20.4 | 0.0 | 14 | 0.5 | 17.9 | 1.0 | 92 | 4.6 | 16.4 | 1.7 |

Notes:

NI Not Installed

--- Not monitored

**Table 3-1**

**LF002 (Landfill 2/3 AOC) Landfill Gas Monitoring Results**

| Sample Location | 6-May-10 | | | | 26-Oct-10 | | | | 13-May-11 | | | | 19-Oct-11 | | | | 9-May-12 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Barometric Pressure (in.) = 29.05-29.06 | | | | Barometric Pressure (in.) = 29.24 | | | | Barometric Pressure (in.) = 29.21 | | | | Barometric Pressure (in.) = 29.11-29.14 | | | | Barometric Pressure (in.) = 28.89-28.95 | | | |
| | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) |
| LF2GMP-01 | 0 | 0.0 | 16.9 | 2.2 | 0 | 0.0 | 18.5 | 1.6 | 0 | 0.0 | 20.2 | 0.5 | 0 | 0.0 | 16.3 | 2.8 | 0 | 0.0 | 21.7 | 0.0 |
| LF2GMP-02 | >100 | 5.4 | 1.0 | 16.3 | 0 | 0.0 | 15.8 | 4.8 | 4 | 0.2 | 18.4 | 1.4 | >100 | 7.6 | 4.6 | 16.6 | 0 | 0.0 | 22.0 | 0.0 |
| LF2GMP-03 | 0 | 0.0 | 21.0 | 0.0 | 0 | 0.0 | 17.4 | 2.5 | 0 | 0.0 | 19.5 | 1.3 | 0 | 0.0 | 19.0 | 2.3 | 0 | 0.0 | 22.0 | 0.0 |
| LF2GMP-04 | 0 | 0.0 | 21.0 | 0.0 | 0 | 0.0 | 18.1 | 1.8 | 0 | 0.0 | 20.6 | 0.0 | 0 | 0.0 | 21.2 | 0.2 | 31 | 1.6 | 20.8 | 0.4 |
| LF2GMP-05 | 0 | 0.0 | 21.0 | 0.0 | 0 | 0.0 | 18.4 | 1.5 | 0 | 0.0 | 11.7 | 2.1 | >100 | 7.6 | 0.5 | 12.3 | 9 | 0.4 | 21.4 | 0.2 |
| LF2GMP-06 | 0 | 0.0 | 21.3 | 0.0 | 3 | 0.2 | 17.4 | 2.2 | 0 | 0.0 | 8.8 | 5.3 | 0 | 0.0 | 6.2 | 10.2 | >100 | 12.9 | 10.8 | 9.4 |
| LF2GMP-07 | 0 | 0.0 | 20.9 | 0.5 | 5 | 0.3 | 18.1 | 2.3 | 0 | 0.0 | 18.7 | 1.5 | 0 | 0.0 | 19.2 | 2.9 | 0 | 0.0 | 21.5 | 0.1 |
| LF2GMP-08 | 0 | 0.0 | 20.5 | 0.6 | 0 | 0.0 | 18.4 | 1.8 | 0 | 0.0 | 19.9 | 0.8 | 0 | 0.0 | 21.1 | 0.9 | 32 | 1.9 | 18.1 | 1.2 |
| LF2GMP-09 | 0 | 0.0 | 21.0 | 0.3 | 0 | 0.0 | 18.9 | 1.3 | 0 | 0.0 | 20.3 | 0.3 | 0 | 0.0 | 21.8 | 0.0 | 0 | 0.0 | 22.3 | 0.1 |
| LF2VENT-01 | 43 | 2.1 | 18.4 | 1.1 | 0 | 0.0 | 19.5 | 0.6 | 51 | 2.5 | 17.0 | 1.1 | 33 | 1.6 | 18.8 | 1.4 | 0 | 0.0 | 22.1 | 0.0 |
| LF2VENT-02 | 0 | 0.0 | 21.0 | 0.0 | 0 | 0.0 | 19.4 | 0.6 | 2 | 0.1 | 20.0 | 0.0 | 0 | 0.0 | 21.9 | 0.0 | 0 | 0.0 | 22.3 | 0.1 |
| LF2VENT-03 | 7 | 0.3 | 20.4 | 0.3 | 0 | 0.0 | 19.4 | 0.7 | 16 | 0.7 | 19.1 | 0.4 | 0 | 0.0 | 21.8 | 0.0 | 0 | 0.0 | 22.6 | 0.1 |
| LF2VENT-04 | 41 | 2.0 | 14.2 | 5.2 | 1 | 0.0 | 19.1 | 0.9 | 86 | 5.2 | 16.6 | 1.2 | 60 | 2.8 | 17.6 | 1.9 | 2 | 0.1 | 22.1 | 0.1 |
| LF2VENT-05 | 77 | 3.8 | 16.7 | 3.8 | 0 | 0.0 | 19.1 | 0.9 | 45 | 2.6 | 18.2 | 1.4 | 20 | 1.0 | 18.8 | 1.6 | 0 | 0.0 | 22.3 | 0.1 |
| LF2VENT-06 | >100 | 7.1 | 12.0 | 7.9 | 0 | 0.0 | 18.8 | 1.3 | >100 | 9.5 | 9.5 | 8.5 | >100 | 13.2 | 12.2 | 9.3 | 0 | 0.0 | 17.1 | 3.0 |
| LF2VENT-07 | 2 | 0.1 | 17.2 | 1.1 | 0 | 0.0 | 19.5 | 0.6 | 5 | 0.3 | 17.7 | 0.5 | 0 | 0.0 | 22.0 | 0.0 | 75 | 3.6 | 3.8 | 14.2 |
| LF2VENT-08 | 0 | 0.0 | 19.0 | 1.0 | 6 | 0.3 | 19.1 | 1.1 | 3 | 0.1 | 16.0 | 1.6 | 0 | 0.0 | 16.3 | 2.3 | 0 | 0.0 | 21.7 | 0.1 |
| LF2VENT-09 | 0 | 0.0 | 18.4 | 1.8 | 7 | 0.4 | 19.4 | 0.8 | 3 | 0.1 | 12.7 | 2.1 | 10 | 0.5 | 11.1 | 4.1 | 4 | 0.2 | 21.5 | 0.4 |
| LF2VENT-10 | 0 | 0.0 | 20.8 | 0.1 | 0 | 0.0 | 19.5 | 0.7 | 0 | 0.0 | 18.2 | 0.3 | 0 | 0.0 | 20.3 | 0.4 | 0 | 0.0 | 22.2 | 0.1 |
| LF2VENT-11 | 6 | 0.3 | 17.5 | 1.4 | 0 | 0.0 | 19.5 | 0.7 | 12 | 0.6 | 14.7 | 1.5 | 0 | 0.0 | 20.0 | 0.6 | 0 | 0.0 | 22.7 | 0.0 |
| LF2VENT-12 | 15 | 0.7 | 18.4 | 1.4 | 0 | 0.0 | 19.5 | 0.7 | 76 | 4.0 | 14.9 | 1.0 | 0 | 0.0 | 21.7 | 0.1 | 0 | 0.0 | 21.0 | 1.9 |
| LF2VENT-13 | 36 | 1.8 | 18.4 | 0.9 | 0 | 0.0 | 19.4 | 0.6 | 37 | 1.8 | 17.3 | 0.7 | 13 | 0.6 | 19.1 | 0.9 | 0 | 0.0 | 21.2 | 1.0 |
| LF2VENT-14 | 34 | 1.7 | 14.5 | 2.5 | 0 | 0.0 | 19.5 | 0.6 | 76 | 4.0 | 14.9 | 1.0 | 2 | 0.1 | 21.4 | 0.1 | 0 | 0.0 | 22.1 | 0.4 |

Notes:

NI Not Installed

--- Not monitored

**Table 3-1**

**LF002 (Landfill 2/3 AOC) Landfill Gas Monitoring Results**

| Sample Location | 4-Oct-12 | | | | 1-May-13 | | | | 15-Oct-13 | | | | 8-May-14 | | | | 18-Nov-14 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Barometric Pressure (in.) = 29.43-29.57 | | | | Barometric Pressure (in.) = 29.71-29.81 | | | | Barometric Pressure (in.) = 29.48-29.65 | | | | Barometric Pressure (in.) = 29.48-29.51 | | | | Barometric Pressure (in.) = 29.57 | | | |
| | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) |
| LF2GMP-01 | 0 | 0.0 | 17.3 | 2.4 | 0 | 0.0 | 18.5 | 1.6 | 0 | 0.0 | 20.3 | 0.4 | 0 | 0.0 | 20.4 | 0.3 | 0 | 0.0 | 20.1 | 1.2 |
| LF2GMP-02 | >100 | 8.4 | 0.0 | 21.7 | 0 | 0.0 | 21.0 | 0.0 | >100 | 10.2 | 0.2 | 19.4 | 17 | 0.9 | 1.5 | 12.6 | 0 | 0.0 | 20.2 | 0.1 |
| LF2GMP-03 | 0 | 0.0 | 20.8 | 0.0 | 0 | 0.0 | 20.8 | 0.0 | 0 | 0.0 | 20.4 | 0.9 | 0 | 0.0 | 19.4 | 0.0 | 0 | 0.0 | 18.9 | 0.6 |
| LF2GMP-04 | 0 | 0.0 | 20.8 | 0.0 | 0 | 0.0 | 20.8 | 0.0 | 0 | 0.0 | 20.9 | 0.3 | 0 | 0.0 | 19.2 | 0.0 | 0 | 0.0 | 19.5 | 0.0 |
| LF2GMP-05 | 63 | 3.0 | 3.3 | 13.9 | 0 | 0.0 | 20.9 | 0.0 | >100 | 7.6 | 0.0 | 10.3 | 0 | 0.0 | 14.9 | 1.2 | 12 | 0.7 | 16.1 | 0.9 |
| LF2GMP-06 | 0 | 0.0 | 20.6 | 0.5 | 0 | 0.0 | 20.7 | 0.1 | 0 | 0.0 | 8.0 | 0.9 | 0 | 0.0 | 19.0 | 0.0 | 20 | 1.0 | 15.0 | 1.2 |
| LF2GMP-07 | 0 | 0.0 | 19.0 | 2.3 | 0 | 0.0 | 20.7 | 0.3 | 0 | 0.0 | 18.9 | 2.5 | 0 | 0.0 | 19.1 | 1.2 | 0 | 0.0 | 19.7 | 0.3 |
| LF2GMP-08 | 0 | 0.0 | 20.6 | 0.5 | 0 | 0.0 | 20.2 | 0.6 | 0 | 0.0 | 20.7 | 0.7 | 0 | 0.0 | 20.1 | 0.5 | 0 | 0.0 | 19.9 | 0.0 |
| LF2GMP-09 | 0 | 0.0 | 20.6 | 0.3 | 0 | 0.0 | 20.7 | 0.3 | 0 | 0.0 | 21.0 | 0.4 | 0 | 0.0 | 20.7 | 0.3 | 0 | 0.0 | 19.9 | 0.0 |
| LF2VENT-01 | 0 | 0.0 | 20.9 | 0.0 | 4 | 0.2 | 20.7 | 0.1 | 2 | 0.2 | 20.8 | 0.4 | 7 | 0.4 | 19.2 | 0.1 | 0 | 0.0 | 20.1 | 0.1 |
| LF2VENT-02 | 0 | 0.0 | 21.0 | 0.0 | 0 | 0.0 | 20.9 | 0.0 | 1 | 0.1 | 21.5 | 0.0 | 0 | 0.0 | 19.5 | 0.0 | 0 | 0.0 | 20.2 | 0.0 |
| LF2VENT-03 | 0 | 0.0 | 21.0 | 0.0 | 0 | 0.0 | 20.9 | 0.0 | 0 | 0.0 | 21.3 | 0.0 | 0 | 0.0 | 20.5 | 0.1 | 0 | 0.0 | 20.1 | 0.2 |
| LF2VENT-04 | 4 | 0.2 | 18.7 | 1.1 | 2 | 0.1 | 20.8 | 0.0 | 35 | 1.8 | 19.8 | 0.8 | 0 | 0.0 | 20.8 | 0.1 | 0 | 0.0 | 19.9 | 0.6 |
| LF2VENT-05 | 12 | 0.6 | 20.3 | 0.7 | 3 | 0.1 | 20.8 | 0.0 | 15 | 0.8 | 20.3 | 0.7 | 0 | 0.0 | 19.3 | 0.0 | 0 | 0.0 | 19.6 | 0.0 |
| LF2VENT-06 | 92 | 4.6 | 10.3 | 10.3 | 10 | 0.4 | 19.4 | 0.4 | >100 | 15.2 | 10.9 | 10.3 | 0 | 0.0 | 11.3 | 5.9 | 0 | 0.1 | 20.1 | 0.3 |
| LF2VENT-07 | 0 | 0.0 | 21.0 | 0.0 | 2 | 0.1 | 20.8 | 0.0 | 0 | 0.0 | 21.5 | 0.0 | 0 | 0.0 | 20.5 | 0.0 | 6 | 0.3 | 18.1 | 0.6 |
| LF2VENT-08 | 0 | 0.0 | 21.0 | 0.0 | 2 | 0.1 | 20.4 | 0.1 | 0 | 0.0 | 21.1 | 0.1 | 0 | 0.0 | 20.9 | 0.0 | 0 | 0.0 | 18.9 | 0.0 |
| LF2VENT-09 | 0 | 0.0 | 21.0 | 0.0 | 0 | 0.0 | 19.3 | 0.4 | 0 | 0.0 | 18.8 | 1.4 | 0 | 0.0 | 12.7 | 1.9 | 0 | 0.0 | 19.5 | 0.0 |
| LF2VENT-10 | 0 | 0.0 | 21.0 | 0.0 | 0 | 0.0 | 20.6 | 0.0 | 0 | 0.0 | 21.2 | 0.2 | 0 | 0.0 | 20.5 | 0.1 | 0 | 0.0 | 19.5 | 0.0 |
| LF2VENT-11 | 0 | 0.0 | 21.0 | 0.0 | 0 | 0.0 | 20.7 | 0.0 | 0 | 0.0 | 19.6 | 0.7 | 0 | 0.0 | 20.2 | 0.0 | 0 | 0.0 | 20.1 | 0.0 |
| LF2VENT-12 | 2 | 0.1 | 20.0 | 0.2 | 0 | 0.0 | 20.7 | 0.0 | 5 | 0.3 | 18.8 | 1.4 | 0 | 0.0 | 20.6 | 0.0 | 0 | 0.0 | 19.7 | 0.1 |
| LF2VENT-13 | 0 | 0.0 | 21.0 | 0.0 | 0 | 0.0 | 20.9 | 0.0 | 5 | 0.3 | 20.4 | 0.3 | 2 | 0.1 | 19.4 | 0.0 | 18 | 0.8 | 14.2 | 2.4 |
| LF2VENT-14 | 0 | 0.0 | 20.9 | 0.0 | 0 | 0.0 | 20.8 | 0.0 | 86 | 4.3 | 15.7 | 1.8 | 0 | 0.0 | 20.5 | 0.0 | 12 | 0.5 | 15.1 | 1.7 |

Notes:

NI Not Installed

--- Not monitored

**Table 3-1**

**LF002 (Landfill 2/3 AOC) Landfill Gas Monitoring Results**

| Sample Location | 27-May-15 | | | | 9-Sep-15 | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Barometric Pressure (in.) = 29.42-29.49 | | | | Barometric Pressure (in.) = 29.33-29.42 | | | | | | | | | | | | | | | |
| | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | | | | | | | | | | | | |
| LF2GMP-01 | 0 | 0.0 | 18.6 | 2.0 | 0 | 0.0 | 20.4 | 0.1 | | | | | | | | | | | | |
| LF2GMP-02 | 0 | 0.0 | 21.4 | 0.0 | >100 | 8.4 | 0.1 | 20.0 | | | | | | | | | | | | |
| LF2GMP-03 | 0 | 0.0 | 21.6 | 0.0 | 0 | 0.0 | 20.6 | 0.0 | | | | | | | | | | | | |
| LF2GMP-04 | 0 | 0.0 | 21.7 | 0.0 | 0 | 0.0 | 20.6 | 0.0 | | | | | | | | | | | | |
| LF2GMP-05 | 0 | 0.0 | 21.8 | 0.0 | >100 | 11.4 | 0.3 | 9.6 | | | | | | | | | | | | |
| LF2GMP-06 | 10 | 0.8 | 18.7 | 0.9 | 0 | 0.0 | 18.8 | 1.4 | | | | | | | | | | | | |
| LF2GMP-07 | 0 | 0.0 | 20.1 | 0.1 | 0 | 0.0 | 20.4 | 0.3 | | | | | | | | | | | | |
| LF2GMP-08 | 0 | 0.0 | 21.2 | 0.0 | 1 | 0.1 | 20.4 | 0.3 | | | | | | | | | | | | |
| LF2GMP-09 | 0 | 0.0 | 20.4 | 0.0 | 0 | 0.0 | 20.7 | 0.0 | | | | | | | | | | | | |
| LF2VENT-01 | 0 | 0.0 | 21.5 | 0.0 | 0 | 0.0 | 20.8 | 0.0 | | | | | | | | | | | | |
| LF2VENT-02 | 0 | 0.0 | 21.5 | 0.0 | 0 | 0.0 | 20.8 | 0.0 | | | | | | | | | | | | |
| LF2VENT-03 | 0 | 0.0 | 21.4 | 0.0 | 0 | 0.0 | 20.8 | 0.0 | | | | | | | | | | | | |
| LF2VENT-04 | 0 | 0.0 | 21.2 | 0.0 | 0 | 0.0 | 20.8 | 0.0 | | | | | | | | | | | | |
| LF2VENT-05 | 0 | 0.0 | 21.6 | 0.0 | 0 | 0.0 | 20.7 | 0.0 | | | | | | | | | | | | |
| LF2VENT-06 | 4 | 0.3 | 16.0 | 3.2 | 0 | 0.0 | 20.8 | 0.0 | | | | | | | | | | | | |
| LF2VENT-07 | 0 | 0.0 | 20.7 | 0.2 | 0 | 0.0 | 20.8 | 0.0 | | | | | | | | | | | | |
| LF2VENT-08 | 0 | 0.0 | 21.6 | 0.0 | 0 | 0.0 | 20.8 | 0.0 | | | | | | | | | | | | |
| LF2VENT-09 | 0 | 0.0 | 21.5 | 0.0 | 0 | 0.0 | 20.8 | 0.0 | | | | | | | | | | | | |
| LF2VENT-10 | 0 | 0.0 | 21.5 | 0.0 | 0 | 0.0 | 20.8 | 0.0 | | | | | | | | | | | | |
| LF2VENT-11 | 0 | 0.0 | 21.5 | 0.0 | 0 | 0.0 | 20.8 | 0.0 | | | | | | | | | | | | |
| LF2VENT-12 | 0 | 0.0 | 21.5 | 0.0 | 0 | 0.0 | 20.8 | 0.0 | | | | | | | | | | | | |
| LF2VENT-13 | 3 | 0.2 | 21.1 | 0.0 | 0 | 0.0 | 20.8 | 0.0 | | | | | | | | | | | | |
| LF2VENT-14 | 0 | 0.0 | 11.2 | 4.4 | 0 | 0.0 | 20.8 | 0.0 | | | | | | | | | | | | |

Notes:

NI Not Installed

--- Not monitored

**Table 3-2**
**LF002 (Landfill 2/3 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF2MW2-1 | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Date of Collection** | | | **12/4/2003** | **3/26/2004** | **6/25/2004** | **9/15/2004** | **12/13/2004** | **3/31/2005** | **6/21/2005** | **9/8/2005** | **12/19/2005** | **3/10/2006** | **9/13/2006** | | **4/2/2007** | |
| **Sample ID No.** | | | **LF2M2137AA** | **LF2M2137BA** | **LF2M2137CA** | **LF2M2137DA** | **LF2M2137EA** | **LF2M2137FA** | **LF2M2137GA** | **LF2M2137HA** | **LF2M2137IA** | **LF2M2137JA** | **LF2M2137KA** | | **LF2M2137LA** | |
| **Depth to Water (ft)** | | | **15.90** | **15.81** | **16.13** | **16.65** | **15.83** | **15.62** | **16.72** | **18.35** | **16.59** | **15.80** | **16.86** | | **14.73** | |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | | |
| 1,1-dichloroethane | 5* | 1 | 0.40 F | 0.43 F | 0.42 F | 0.41 F | 0.42 F | 0.41 F | 0.45 F | 0.34 F | 0.38 F | 0.42 F | NA | | NA | |
| 1,2-dichloroethane | 0.6 | 1 | 0.30 F | 0.32 F | 0.3 F | 0.3 F | 0.27 F | 0.26 F | 0.27 F | U | U | U | NA | | NA | |
| acetone | 50 | 10 | U | U | 1.9 F | 3.1 F | U | U | U | U | U | U | NA | | NA | |
| carbon disulfide | 1,000 | 0.5 | U | U | U | U | U | U | 0.3 F | U | U | U | NA | | NA | |
| chloroethane | 5* | 1 | 1.2 | 1.2 | 1.1 | 1.3 | 1.3 | 1.2 | 1.4 | 1 | 1 | 1.1 | NA | | NA | |
| cis-1,2-dichloroethene | 5* | 1 | U | U | U | 0.22 F | 0.21 F | U | 0.22 F | U | U | U | NA | | NA | |
| dichlorodifluoromethane | 5* | 1 | 3.3 | 4 | 2.8 | 3.1 | 3.6 | 3.8 | 3 | U | 1 | 2.5 | NA | | NA | |
| methylene chloride | 5* | 1 | U | U | U | U | U | U | 0.26 F | U | U | U | NA | | NA | |
| trichlorofluoromethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | NA | | NA | |
| vinyl chloride | 2 | 1 | 0.77 F | 0.96 F | 0.82 F | 1 | 0.98 F | 0.94 F | 1 | 0.77 F | U | 0.85 F | NA | | NA | |
| **Metals (µg/L) [Dissolved / Total][1]** | | | | | | | | | | | | | | | | |
| aluminum | 2,000 | 200 | U | U | U | U | U | U | U | U | U | U | 62 F | U | U | U |
| antimony | 3 | 50 | U | U | U | U | U | U | U | U | U | U | U | U | U | U |
| arsenic | 25 | 30 | **28.6 F** | 18 F | **46.7** | 21.9 F | **27.4 F** | **25.1 F** | **49.2** | 19.8 F | 18.3 F | **26.4 F** | **59.7 F** | **66** | 12 F | 15 F |
| barium | 1,000 | 50 | 77.5 | 76.6 | 92.3 | 72.9 | 69.4 | 75.4 | 70.4 | 61.9 | 55 | 72.9 | 68.8 | 67.8 | 73 | 75 |
| berylium | 3 | 4 | U | U | U | U | U | U | U | U | U | U | U | U | U | U |
| boron, Total | 1,000 | 10 | 43.4 | NA | NA | NA | NA | 48.3 | NA | NA | NA | 43.3 | NA | NA | NA | NA |
| cadmium | 5 | 5 | U | U | U | U | U | U | U | U | U | U | U | U | U | U |
| calcium | -- | 1,100 | 71,900 | 71,300 | 75,100 | 66,700 | 62,600 | 73,600 | 62,500 | 58,600 | 51,800 | 63,000 | 54,300 | 55,800 | 70,000 | 70,000 |
| chromium | 50 | 10 | U | 1.4 F | U | U | U | U | U | U | U | U | 2.8 F | 2.72 F | 5.4 F | 6.5 F |
| cobalt | -- | 60 | 8.5 F | 9.9 F | 10.6 F | 8.1 F | 7.7 F | 8.8 F | 7.7 F | 6.3 F | 5.8 F | 8.1 F | U | U | U | U |
| copper | 200 | 10 | U | U | 3.1 F | U | U | U | U | U | U | U | U | U | U | U |
| iron | 300 | 200 | **21,900** | **20,000** | **31,700** | **19,800** | **18,000** | **20,900** | **26,600** | **14,800** | **14,000** | **18,400** | **23,900** | **26,800** | **10,000** | **11,000** |
| lead | 25 | 25 | 5.1 F | U | U | U | U | U | U | U | U | U | U | U | U | U |
| magnesium | 35,000 | 1,000 | 15,900 | 15,600 | 16,500 | 14,500 | 13,500 | 15,300 | 13,200 | 12,000 | 10,800 | 13,800 | 11,900 | 12,200 | 15,000 | 15,000 |
| manganese | 300 | 10 | **9,010** | **9,250** | **10,200** | **8,680** | **7,960** | **8,490** | **7,590** | **6,850** | **6,160** | **7,670** | **6,660** | **7,020** | **7,900** | **8,100** |
| molybdenum | -- | 15 | U | U | U | U | U | U | U | U | U | U | U | U | U | U |
| nickel | 100 | 20 | 2.4 F | U | 2.8 F | U | 2.3 F | 3.2 F | 3 F | 2.5 F | 3.2 F | 3.6 F | U | U | 1.5 F | 3.3 F |
| potassium | -- | 1,000 | 901 F | 894 F | 958 F | 899 F | 876 F | 923 F | 863 F | 785 F | 803 F | 899 F | 975 F | 974 F | 1,100 | 1,000 |
| selenium | 10 | 30 | U | U | U | U | U | U | U | U | U | 9,620 | U | U | 4.1 F | 4.6 F |
| silver | 50 | 10 | U | U | U | U | U | 0.9 F | U | U | U | U | U | U | U | U |
| sodium | 20,000 | 1,000 | 8,770 | 8,660 | 9,490 | 8,680 | 8,400 | 9,020 | 7,870 | 7,990 | 7,840 | U | 7,430 | 7,770 | 8,500 | 8,600 |
| thallium | 0.5 | 80 | U | U | U | U | U | U | U | U | U | U | U | U | U | U |
| vanadium | -- | 10 | U | U | U | U | U | U | U | U | U | U | U | U | U | U |
| zinc | 2,000 | 20 | 3.1 F | U | U | U | U | 3 F | 3.3 F | 2.9 F | 5.3 F | 3 F | 40.4 B | 48.1 B | U | U |
| mercury | 0.7 | 1 | U | NA | NA | NA | NA | U | NA | NA | NA | U | NA | NA | NA | NA |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 262 | 265 | 214 | 236 | 241 | 266 | 250 | 219 | 198 | 226 | 210 | | 220 | |
| ammonia | 2 | 0.2 | 0.18 | 0.13 | 0.17 B | 0.18 | 0.22 | 0.25 | 0.11 | 0.24 | 0.18 B | 0.23 | 0.71 | | 0.34 | |
| BOD5 | -- | 2.4 | 4.4 | 3.5 | 3.5 | U | U | 2.3 | U | U | U | U | 3 | | U | |
| bromide | 2 | 0.5 | U | 0.31 F | 0.22 F | 0.22 F | U | 0.31 F | 0.19 F | 0.2 F | U | U | 0.091 F | | 0.12 F | |
| COD | -- | 5 | U | 11.1 | U | U | U | U | 8 F | 7.6 F | 4.4 F | U | 14 | | 26 B | |
| chloride | 250 | 1 | 16.8 | 18 | 18 | 17.3 | 15.8 | 15.7 | 14.9 | 13.3 | 11.6 | 11.7 | 12 | | 12 | |
| color | 15 | 5 | **200** | NA | NA | NA | NA | **160 J** | NA | NA | NA | **50** | NA | | NA | |
| fluoride | 1.5 | 1 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | |
| hardness, Total | -- | 1 | 284 | 276 | 236 | 255 | 204 | 272 | 272 | 320 | 200 | 173 | 680 | | 240 | |
| nitrate | 10 | 1 | U | U | U | U | U | 0.03 F | U | U | U | 0.032 F | 0.021 F | | U | |
| TKN | 1 | 1 | U | 0.38 | 0.46 | U | **1.2 B** | 0.36 B | 0.82 | 0.93 | 0.34 B | 0.35 | 0.69 | | 0.34 | |
| sulfate | 250 | 1 | 18.9 | 18.8 | 18.5 | 17.5 | 14.4 | 15.9 | 14.1 | 14.6 | 14.6 | 13.7 | 9.3 | | 14 | |
| TDS | 500 | 10 | 351 | 348 | 347 | 277 | 315 | 312 | 305 | 254 | 230 | 246 | 220 | | 290 | |
| TOC | -- | 1 | 1.5 | 1.5 | U | 1.9 | 1.7 | 1.5 | 1.7 | 1.4 B | 0.58 F | 0.81 F | 1.3 | | 0.85 F | |
| phenolics, Total | -- | 0.005 | 0.0360 | U | U | U | U | U | 0.0050 F | U | U | U | NA | | NA | |

For notes, please refer to the end of the tables section.

**Table 3-2**

**LF002 (Landfill 2/3 AOC) Groundwater and Surface Water Sampling Results (continued)**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF2MW2-1 | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Date of Collection** | | | **9/25/2007** | | **3/31/2008** | | **9/17/2008** | **4/8/2009** | **3/30/2010** | **6/13/2011** | **6/5/2013** | **6/15/2015** | | |
| **Sample ID No.** | | | **LF2M2137MA** | | **LF2M2137NA** | | **LF2M2137OA** | **LF2M2137PA** | **LF2M2137QA** | **LF2M2137RA** | **LF2M2137SA** | **LF2M2137TA** | | |
| **Depth to Water (ft)** | | | **18.34** | | **14.88** | | **17.70** | **15.13** | **15.98** | **15.20** | **16.30** | **15.92** | | |
| **VOCs (µg/L)** | | | | | | | | | | | | | | |
| 1,1-dichloroethane | 5* | 1 | NA | | NA | | NA | NA | NA | NA | NA | NA | | |
| 1,2-dichloroethane | 0.6 | 1 | NA | | NA | | NA | NA | NA | NA | NA | NA | | |
| acetone | 50 | 10 | NA | | NA | | NA | NA | NA | NA | NA | NA | | |
| carbon disulfide | 1,000 | 0.5 | NA | | NA | | NA | NA | NA | NA | NA | NA | | |
| chloroethane | 5* | 1 | NA | | NA | | NA | NA | NA | NA | NA | NA | | |
| cis-1,2-dichloroethene | 5* | 1 | NA | | NA | | NA | NA | NA | NA | NA | NA | | |
| dichlorodifluoromethane | 5* | 1 | NA | | NA | | NA | NA | NA | NA | NA | NA | | |
| methylene chloride | 5* | 1 | NA | | NA | | NA | NA | NA | NA | NA | NA | | |
| trichlorofluoromethane | 5* | 1 | NA | | NA | | NA | NA | NA | NA | NA | NA | | |
| vinyl chloride | 2 | 1 | NA | | NA | | NA | NA | NA | NA | NA | NA | | |
| **Metals (µg/L) [Dissolved / Total][1]** | | | | | | | | | | | | | | |
| aluminum | 2,000 | 200 | U | U | 93 F | 960 | 50 F | U | U | NA | NA | NA | | |
| antimony | 3 | 50 | U | U | 1.8 F | 1.8 F | U | U | U | NA | NA | NA | | |
| arsenic | 25 | 30 | 21 F | 22 F | 9.6 F | 13 F | 15 F | 8.5 F | 17 F | NA | NA | NA | | |
| barium | 1,000 | 50 | 67 | 64 | 67 | 68 | 68 | 63 | 54 | NA | NA | NA | | |
| berylium | 3 | 4 | U | U | U | U | U | U | U | NA | NA | NA | | |
| boron, Total | 1,000 | 10 | NA | NA | 47 B | 140 | NA | 46 | 40 | NA | NA | NA | | |
| cadmium | 5 | 5 | U | U | U | U | U | U | U | NA | NA | NA | | |
| calcium | -- | 1,100 | 64,000 | 61,000 | 68,000 | 68,000 | 63,000 | 67,000 | 57,000 | NA | NA | NA | | |
| chromium | 50 | 10 | 3.1 F | 3.3 F | 3.4 F | 3.6 F | 3.8 F | 3.5 F | U | NA | NA | NA | | |
| cobalt | -- | 60 | U | U | 19 F | 20 F | U | 6.6 F | U | NA | NA | NA | | |
| copper | 200 | 10 | U | U | U | U | U | U | U | NA | NA | NA | | |
| iron | 300 | 200 | **15,000** | **15,000** | **8,900** | **9,400** | **19,000** | **6,800** | **9,100** | NA | NA | NA | | |
| lead | 25 | 25 | U | U | U | U | U | U | U | NA | NA | NA | | |
| magnesium | 35,000 | 1,000 | 13,000 | 13,000 | 14,000 | 14,000 | 13,000 | 14,000 | 11,000 | NA | NA | NA | | |
| manganese | 300 | 10 | **7,300** | **7,200** | **8,000** | **7,800** | **7,600** | **8,200** | **6,900** | NA | NA | NA | | |
| molybdenum | -- | 15 | 3.2 F | 3.2 F | U | U | U | U | U | NA | NA | NA | | |
| nickel | 100 | 20 | 1.8 F | 2.0 F | 18 F | 19 F | 4.2 F | 6.8 F | U | NA | NA | NA | | |
| potassium | -- | 1,000 | 930 | 880 F | 1,100 | 1,000 | 1,000 | 1,200 | 1,200 | NA | NA | NA | | |
| selenium | 10 | 30 | 4.1 F | U | U | U | U | U | U | NA | NA | NA | | |
| silver | 50 | 10 | U | U | U | U | U | U | U | NA | NA | NA | | |
| sodium | 20,000 | 1,000 | 7,800 | 7,400 | 7,700 | 7,600 | 6,800 B | 8,400 | 7,300 | NA | NA | NA | | |
| thallium | 0.5 | 80 | U | U | U | U | U | U | U | NA | NA | NA | | |
| vanadium | -- | 10 | U | U | U | U | U | U | U | NA | NA | NA | | |
| zinc | 2,000 | 20 | 56 B | 47 B | 23 B | 23 B | 17 F | 89 | 5.9 F | NA | NA | NA | | |
| mercury | 0.7 | 1 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 220 | | 240 | | 210 | 150 | 190 | 190 | 170 | 200 | | |
| ammonia | 2 | 0.2 | 0.36 | | 0.20 | | 0.45 | 0.18 | 0.38 | 0.30 | 0.33 | 0.28 B | | |
| BOD5 | -- | 2.4 | U | | U | | 2.5 | U | U | U | U | U | | |
| bromide | 2 | 0.5 | 0.074 F | | 0.083 F | | 0.11 | 0.12 F | 0.092 F | 0.11 F | 0.17 J | U | | |
| COD | -- | 5 | 13 | | 17 | | 13 | 20 B | 7.0 F | U | 13 J | 5.4 J | | |
| chloride | 250 | 1 | 12 | | 12 | | 13 | 14 | 13 | 12 | 12 | 14 | | |
| color | 15 | 5 | NA | | **60** | | NA | **20** | U | **25** | **25** | **30** | | |
| fluoride | 1.5 | 1 | NA | | NA | | NA | NA | NA | U | 0.075 J | U | | |
| hardness, Total | -- | 1 | 200 | | 250 | | 250 | 240 | 190 | 500 | 190 | 200 | | |
| nitrate | 10 | 1 | U | | 0.042 F | | U | 0.21 | 0.016 F | U | 0.19 J | 0.15 J | | |
| TKN | 1 | 1 | 0.31 | | 0.24 B | | 0.55 B | 0.24 | 0.56 B | 0.51 F | 0.58 J | U | | |
| sulfate | 250 | 1 | 13 | | 19 | | 15 | 21 | 14 | 14 | 14 | 16 | | |
| TDS | 500 | 10 | 310 | | 280 | | 250 | 260 | 240 | 250 | 220 | 250 | | |
| TOC | -- | 1 | 1.5 B | | 0.86 F | | 0.77 F | 0.83 F | 1.3 | 0.86 F | 0.82 J | 0.91 J | | |
| phenolics, Total | -- | 0.005 | NA | | NA | | NA | NA | NA | NA | U | U | | |

For notes, please refer to the end of the tables section.

**Table 3-2**

**LF002 (Landfill 2/3 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF2MW-4 | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Date of Collection** | | | **12/4/2003** | **3/26/2004** | **6/25/2004** | **9/15/2004** | **12/14/2004** | **3/31/2005** | **6/21/2005** | **9/8/2005** | **12/19/2005** | **3/14/2006** | **9/13/2006** | | **4/2/2007** | |
| **Sample ID No.** | | | **LF2M0437AA** | **LF2M0437BA** | **LF2M0437CA** | **LF2M0437DA** | **LF2M0437EA** | **LF2M0437FA** | **LF2M0437GA** | **LF2M0437HA** | **LF2M0437IA** | **LF2M0437JA** | **LF2M0437KA** | | **LF2M0437LA** | |
| **Depth to Water (ft)** | | | **29.79** | **29.21** | **29.92** | **30.25** | **29.81** | **29.34** | **30.42** | **32.51** | **30.68** | **29.19** | **30.70** | | **27.25** | |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | | |
| 1,1-dichloroethane | 5* | 1 | U | 0.24 F | U | U | U | U | 0.24 F | U | U | U | NA | | NA | |
| 1,2-dichloroethane | 0.6 | 1 | U | U | U | U | U | U | U | U | U | U | NA | | NA | |
| acetone | 50 | 10 | U | U | U | 1.5 F | U | U | U | U | U | U | NA | | NA | |
| carbon disulfide | 1,000 | 0.5 | U | U | U | U | U | U | U | U | U | U | NA | | NA | |
| chloroethane | 5* | 1 | U | 0.41 F | 0.29 F | U | U | U | 0.29 F | U | U | U | NA | | NA | |
| cis-1,2-dichloroethene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | NA | | NA | |
| dichlorodifluoromethane | 5* | 1 | 3.5 | 1.7 | 1.5 | 1.8 | 2.7 | 2.6 | 1.5 | U | 2.3 | 1.9 | NA | | NA | |
| methylene chloride | 5* | 1 | U | U | U | U | U | U | 0.23 F | U | U | U | NA | | NA | |
| trichlorofluoromethane | 5* | 1 | U | 0.28 F | U | 0.26 F | U | U | U | U | U | U | NA | | NA | |
| vinyl chloride | 2 | 1 | U | U | U | U | U | U | U | U | U | U | NA | | NA | |
| **Metals (µg/L) [Dissolved / Total][1]** | | | | | | | | | | | | | | | | |
| aluminum | 2,000 | 200 | 40.3 F | U | U | U | U | U | U | 39.4 F | U | U | 56.4 F | U | U | U |
| antimony | 3 | 50 | U | U | U | U | U | U | U | U | 4.7 F | U | U | U | U | U |
| arsenic | 25 | 30 | U | U | U | U | U | U | U | U | U | U | U | U | U | U |
| barium | 1,000 | 50 | 9.6 F | 35 F | 37.3 F | 27.3 F | 8.2 F | 17.9 F | 17.3 F | 11.2 F | 7 F | 31.2 F | 14 F | 13.8 F | 30 F | 31 F |
| berylium | 3 | 4 | U | U | U | U | U | U | U | U | U | U | U | U | U | U |
| boron, Total | 1,000 | 10 | 9.9 F | NA | NA | NA | NA | 9.9 F | NA | NA | NA | 11.9 | NA | NA | NA | NA |
| cadmium | 5 | 5 | U | U | U | U | U | U | U | U | U | U | U | U | U | U |
| calcium | -- | 1,100 | 54,100 | 151,000 | 160,000 | 127,000 | 47,700 | 88,900 | 84,400 | 60,800 | 42,600 | 145,000 | 72,300 | 74,800 | 140,000 | 140,000 |
| chromium | 50 | 10 | U | U | U | U | U | U | U | U | U | 1.3 F | U | U | 2.0 F | 1.7 F |
| cobalt | -- | 60 | U | U | U | U | U | U | U | U | U | U | U | U | U | U |
| copper | 200 | 10 | U | U | U | U | U | 2.6 F | U | U | U | U | U | U | U | U |
| iron | 300 | 200 | 44.9 F | 55.9 F | 20.9 F | U | U | U | U | 68.5 F | U | U | 10.5 F | 27.6 F | 9.5 F | U |
| lead | 25 | 25 | U | U | U | U | U | U | U | U | U | U | U | U | U | U |
| magnesium | 35,000 | 1,000 | 10,800 | 19,300 | 19,600 | 17,700 | 9,320 | 11,300 | 12,500 | 11,000 | 9,920 | 15,600 | 10,300 | 10,600 | 14,000 | 15,000 |
| manganese | 300 | 10 | 54.1 | 122 | 115 | 129 | 23.9 | 55.1 | 66.3 | 10 | 5.1 F | 2 F | 27.2 | 26.1 | 14.0 | 13.0 |
| molybdenum | -- | 15 | U | U | U | U | U | 1.6 F | U | U | U | U | U | U | U | U |
| nickel | 100 | 20 | U | U | U | U | U | U | U | U | U | U | U | U | 1.2 F | U |
| potassium | -- | 1,000 | 930 F | 1,940 | 1,820 | 1,540 | 771 F | 1,210 | 1,150 | 928 F | 651 F | 1,480 | 926 F | 921 | 1,400 | 1,400 |
| selenium | 10 | 30 | U | U | U | U | U | U | U | U | U | U | U | U | U | U |
| silver | 50 | 10 | U | U | U | U | U | U | U | U | U | U | U | U | U | U |
| sodium | 20,000 | 1,000 | 3,910 | 2,810 | 2,950 | 3,190 | 3,680 | 3,440 | 3,450 | 3,760 | 4,000 | 3,580 | 3,410 | 3,550 | 3,200 | 3,300 |
| thallium | 0.5 | 80 | U | U | U | U | U | U | U | U | U | U | U | U | U | U |
| vanadium | -- | 10 | U | U | U | U | U | U | U | U | U | U | U | U | U | U |
| zinc | 2,000 | 20 | U | U | U | U | U | U | U | 3.9 F | 4 F | U | 38.5 B | 29.2 B | U | U |
| mercury | 0.7 | 1 | U | NA | NA | NA | NA | U | NA | NA | NA | U | NA | NA | NA | NA |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 170 | 459 | 383 | 364 | 154 | 271 | 274 | 186 | 138 | 405 | 210 | | 370 | |
| ammonia | 2 | 0.2 | U | U | U | U | 0.046 F | 0.027 F | U | 0.049 F | U | U | U | | U | |
| BOD5 | -- | 2.4 | U | U | U | U | U | U | U | U | U | U | U | | U | |
| bromide | 2 | 0.5 | U | U | U | U | U | U | U | U | U | U | 0.02 F | | U | |
| COD | -- | 5 | U | U | U | U | U | U | U | U | U | U | U | | 6.1 F | |
| chloride | 250 | 1 | 5.8 | 3.8 | 3.8 | 5.8 | 5.6 | 6.4 | 6.7 | 7.8 | 7 | 5.6 | 8.1 | | 5.5 | |
| color | 15 | 5 | 0 | NA | NA | NA | NA | UJ | NA | NA | NA | 3 | NA | | NA | |
| fluoride | 1.5 | 1 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | |
| hardness, Total | -- | 1 | 310 | 468 | 444 | 400 | 180 | 280 | 292 | 239 | 200 | 305 | 240 | | 600 | |
| nitrate | 10 | 1 | U | 0.58 F | 1.8 B | 0.87 F | 1.1 | 0.77 F | 0.94 F | 0.83 F | 1.3 | 0.66 F | 0.97 F | | 0.94 | |
| TKN | 1 | 1 | **1.2** | 0.15 F | 0.23 | 0.077 F | U | 0.06 F | 0.64 | 0.67 | U | 0.36 | U | | U | |
| sulfate | 250 | 1 | 12.9 | 15.6 | 16.1 | 15.4 | U | 15.6 | 15.2 | 15 | 14.4 | 15 | 14 | | 16 | |
| TDS | 500 | 10 | 218 | **511** | 479 | 381 | 196 | 293 | 332 | 218 | 167 | 475 | 270 | | 420 | |
| TOC | -- | 1 | 1.3 | 1.5 | U | 1.4 | U | 0.68 F | 0.94 F | 0.64 F | U | 1.3 | 0.54 F | | 0.42 F | |
| phenolics, Total | -- | 0.005 | U | U | U | U | U | U | 0.0050 F | U | U | U | NA | | NA | |

For notes, please refer to the end of the tables section.

**Table 3-2**

**LF002 (Landfill 2/3 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF2MW-4 | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 9/25/2007 | | 3/31/2008 | | 9/17/2008 | 4/8/2009 | 3/30/2010 | 6/9/2011 | 6/5/2013 | 6/15/2015 | | |
| Sample ID No. | | | LF2M0437MA | | LF2M0437NA | | LF2M0437OA | LF2M0437PA | LF2M0437QA | LF2M0437RA | LF2M0437SA | LF2M0437TA | | |
| Depth to Water (ft) | | | 32.50 | | 27.65 | | 31.57 | 28.01 | 29.69 | 28.06 | 30.03 | 29.35 | | |
| **VOCs (µg/L)** | | | | | | | | | | | | | | |
| 1,1-dichloroethane | 5* | 1 | NA | | NA | | NA | NA | NA | NA | NA | NA | | |
| 1,2-dichloroethane | 0.6 | 1 | NA | | NA | | NA | NA | NA | NA | NA | NA | | |
| acetone | 50 | 10 | NA | | NA | | NA | NA | NA | NA | NA | NA | | |
| carbon disulfide | 1,000 | 0.5 | NA | | NA | | NA | NA | NA | NA | NA | NA | | |
| chloroethane | 5* | 1 | NA | | NA | | NA | NA | NA | NA | NA | NA | | |
| cis-1,2-dichloroethene | 5* | 1 | NA | | NA | | NA | NA | NA | NA | NA | NA | | |
| dichlorodifluoromethane | 5* | 1 | NA | | NA | | NA | NA | NA | NA | NA | NA | | |
| methylene chloride | 5* | 1 | NA | | NA | | NA | NA | NA | NA | NA | NA | | |
| trichlorofluoromethane | 5* | 1 | NA | | NA | | NA | NA | NA | NA | NA | NA | | |
| vinyl chloride | 2 | 1 | NA | | NA | | NA | NA | NA | NA | NA | NA | | |
| **Metals (µg/L) [Dissolved / Total][1]** | | | | | | | | | | | | | | |
| aluminum | 2,000 | 200 | U | 390.0 | U | 65 F | 44 F | U | U | NA | NA | NA | | |
| antimony | 3 | 50 | U | U | U | 2.0 F | U | U | U | NA | NA | NA | | |
| arsenic | 25 | 30 | U | U | U | U | U | U | U | NA | NA | NA | | |
| barium | 1,000 | 50 | 11 F | 13 F | 33 F | 33 F | 12 F | 26 F | 6.7 F | NA | NA | NA | | |
| berylium | 3 | 4 | U | U | U | U | U | U | U | NA | NA | NA | | |
| boron, Total | 1,000 | 10 | NA | NA | 11 B | 12 B | NA | 15 | 11 | NA | NA | NA | | |
| cadmium | 5 | 5 | U | U | U | U | U | U | U | NA | NA | NA | | |
| calcium | -- | 1,100 | 69,000 | 69,000 | 160,000 | 160,000 | 75,000 | 130,000 | 46,000 | NA | NA | NA | | |
| chromium | 50 | 10 | U | 2.2 F | U | 1.7 F | 1.5 F | U | U | NA | NA | NA | | |
| cobalt | -- | 60 | U | U | U | U | U | U | U | NA | NA | NA | | |
| copper | 200 | 10 | U | U | U | U | U | U | U | NA | NA | NA | | |
| iron | 300 | 200 | U | 480 | U | 39 F | 13 F | 15 F | 20 F | NA | NA | NA | | |
| lead | 25 | 25 | U | U | U | U | U | U | U | NA | NA | NA | | |
| magnesium | 35,000 | 1,000 | 11,000 | 11,000 | 16,000 | 16,000 | 11,000 | 15,000 | 11,000 | NA | NA | NA | | |
| manganese | 300 | 10 | U | 42.0 | 1.6 F | 12.0 | 7.0 F | 150 | 3.7 F | NA | NA | NA | | |
| molybdenum | -- | 15 | U | U | U | U | U | U | U | NA | NA | NA | | |
| nickel | 100 | 20 | U | 1.8 F | U | U | U | U | U | NA | NA | NA | | |
| potassium | -- | 1,000 | 980 F | 1,100 | 1,400 | 1,400 | 950 F | 1,200 | 620 F | NA | NA | NA | | |
| selenium | 10 | 30 | U | U | U | U | U | U | U | NA | NA | NA | | |
| silver | 50 | 10 | U | U | U | U | U | U | U | NA | NA | NA | | |
| sodium | 20,000 | 1,000 | 4,200 | 4,100 | 3,600 | 3500 B | 4,900 B | 4,700 | 4,800 | NA | NA | NA | | |
| thallium | 0.5 | 80 | U | U | U | U | U | U | U | NA | NA | NA | | |
| vanadium | -- | 10 | U | U | U | U | U | U | U | NA | NA | NA | | |
| zinc | 2,000 | 20 | 16 F | 52 B | 11 F | 10 F | 21 B | 50 B | 5.8 F | NA | NA | NA | | |
| mercury | 0.7 | 1 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 190 | | 460 | | 190 | 330 | 120 | 400 | 230 | 340 | | |
| ammonia | 2 | 0.2 | U | | U | | 0.016 F | 0.035 F | U | 0.11 | 0.055 J | 0.36 B | | |
| BOD5 | -- | 2.4 | U | | U | | U | U | U | U | U | U | | |
| bromide | 2 | 0.5 | 0.029 F | | U | | 0.038 F | 0.035 F | 0.031 F | U | U | U | | |
| COD | -- | 5 | 11 | | 6.3 F | | U | 6.7 F | U | U | 12 J | U | | |
| chloride | 250 | 1 | 9.2 | | 5.1 | | 10 | 8.3 | 11 | 5.7 | 8.8 | 7.9 | | |
| color | 15 | 5 | NA | | U | | NA | U | U | U | 15 | **70** | | |
| fluoride | 1.5 | 1 | NA | | NA | | NA | NA | NA | U | 0.075 J | U | | |
| hardness, Total | -- | 1 | 180 | | 470 | | 240 | 380 | 160 | 380 | 250 | 370 | | |
| nitrate | 10 | 1 | 2.3 | | 1.3 | | 3.5 | 2.0 | 3.7 | 0.98 | 0.63 | 0.26 J | | |
| TKN | 1 | 1 | 0.074 F | | U | | 0.18 F | U | 0.21 B | 0.47 F | 0.48 J | U | | |
| sulfate | 250 | 1 | 13 | | 15 | | 14 | 15 | 16 | 15 | 12 | 14 | | |
| TDS | 500 | 10 | 270 | | 480 | | 260 | 390 | 190 | 390 | 280 | 400 | | |
| TOC | -- | 1 | 0.71 F | | 0.52 F | | U | 0.59 | U | 1.5 | 1.1 | 1 | | |
| phenolics, Total | -- | 0.005 | NA | | NA | | NA | NA | NA | NA | U | U | | |

For notes, please refer to the end of the tables section.

**Table 3-2**

**LF002 (Landfill 2/3 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF2MW-12 | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Date of Collection** | | | **12/4/2003** | **3/26/2004** | **6/24/2004** | **9/15/2004** | **12/13/2004** | **3/31/2005** | **6/21/2005** | **9/8/2005** | **12/19/2005** | **3/14/2006** | **9/13/2006** | | **4/3/2007** | |
| **Sample ID No.** | | | **LF2M1219AA** | **LF2M1219BA** | **LF2M1219CA** | **LF2M1219DA** | **LF2M1219EA** | **LF2M1219FA** | **LF2M1219GA** | **LF2M1219HA** | **LF2M1219IA** | **LF2M1219JA** | **LF2M1219KA** | | **LF2M1219LA** | |
| **Depth to Water (ft)** | | | **9.62** | **8.99** | **10.16** | **10.31** | **9.43** | **9.09** | **10.77** | **12.74** | **10.50** | **8.94** | **11.12** | | **8.07** | |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | | |
| 1,1-dichloroethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | NA | | NA | |
| 1,2-dichloroethane | 0.6 | 1 | U | U | U | U | U | U | U | U | U | U | NA | | NA | |
| acetone | 50 | 10 | U | U | 1.6 F | U | U | U | U | U | U | U | NA | | NA | |
| carbon disulfide | 1,000 | 0.5 | U | U | U | U | U | U | U | U | U | U | NA | | NA | |
| chloroethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | NA | | NA | |
| cis-1,2-dichloroethene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | NA | | NA | |
| dichlorodifluoromethane | 5* | 1 | 0.52 F | U | 0.28 F | 0.35 F | 0.32 F | U | U | U | U | U | NA | | NA | |
| methylene chloride | 5* | 1 | U | U | U | U | U | U | U | U | U | U | NA | | NA | |
| trichlorofluoromethane | 5* | 1 | 0.21 F | U | U | U | U | U | U | U | U | U | NA | | NA | |
| vinyl chloride | 2 | 1 | U | U | U | U | U | U | U | U | U | U | NA | | NA | |
| **Metals (µg/L) [Dissolved / Total][1]** | | | | | | | | | | | | | | | | |
| aluminum | 2,000 | 200 | U | U | U | U | U | U | U | U | U | U | 41.6 F | U | U | U |
| antimony | 3 | 50 | U | U | U | U | U | U | U | U | U | U | U | U | U | U |
| arsenic | 25 | 30 | U | U | U | U | U | U | U | U | U | U | U | U | U | U |
| barium | 1,000 | 50 | 46.5 F | 47.1 F | 50.2 | 49.5 F | 47.7 F | 45.2 F | 37.3 | 42.1 F | 37.9 F | 38.3 F | 42.6 F | 41.3 F | 39 F | 40 F |
| berylium | 3 | 4 | U | U | U | U | U | U | U | U | U | U | U | U | U | U |
| boron, Total | 1,000 | 10 | 80.7 | NA | NA | NA | NA | 68.7 | NA | NA | NA | 55.9 | NA | NA | NA | NA |
| cadmium | 5 | 5 | U | U | U | U | U | U | U | U | U | U | U | U | U | U |
| calcium | -- | 1,100 | 162,000 | 170,000 | 178,000 | 168,000 | 158,000 | 156,000 | 131,000 | 145,000 | 136,000 | 147,000 | 153,000 | 157,000 | 150,000 | 150,000 |
| chromium | 50 | 10 | U | U | U | U | 3 F | U | U | U | 0.9 F | 7.2 F | U | U | 3.5 F | U |
| cobalt | -- | 60 | U | U | U | U | U | U | U | U | U | U | U | U | U | U |
| copper | 200 | 10 | U | U | U | U | U | 2.4 F | 2.2 F | U | U | 1.6 F | U | U | U | U |
| iron | 300 | 200 | U | **458** | 177 F | **352** | **345** | **1,400** | 238 | 58 F | 198 F | 82.1 F | U | 59.6 F | U | 56 F |
| lead | 25 | 25 | U | U | U | U | U | U | U | U | U | U | U | U | U | U |
| magnesium | 35,000 | 1,000 | 17,900 | 18,600 | 19,400 | 17,200 | 15,900 | 14,800 | 12,600 | 12,200 | 11,000 | 12,100 | 12,000 | 12,300 | 13,000 | 13,000 |
| manganese | 300 | 10 | 94.2 | 263 | 293 | 271 | **339** | **364** | **422** | **448** | 279 | **309** | **311** | **338** | **600** | **600** |
| molybdenum | -- | 15 | U | U | U | U | U | U | U | U | U | U | U | U | U | U |
| nickel | 100 | 20 | U | U | U | U | 3 F | U | 1.8 F | U | U | U | U | U | U | U |
| potassium | -- | 1,000 | 8,340 | 8,060 | 8,390 | 8,940 | 8,700 | 8,060 | 7,510 | 8,710 B | 8,360 | 7,340 | 8,450 | 8,260 | 7,800 | 7,900 |
| selenium | 10 | 30 | U | U | U | U | U | U | U | U | U | U | U | U | U | U |
| silver | 50 | 10 | U | U | U | U | U | U | U | U | U | U | U | U | U | U |
| sodium | 20,000 | 1,000 | 2,640 | 2,950 | 2,960 | 2,600 | 2,220 | 2,350 | 2,130 | 2,090 | 1,410 | 2,120 | 2,960 | 2,720 | 2,300 | 2,400 |
| thallium | 0.5 | 80 | U | U | U | U | U | U | U | U | U | U | U | U | U | U |
| vanadium | -- | 10 | U | U | U | U | U | U | U | U | U | U | U | U | U | U |
| zinc | 2,000 | 20 | U | U | U | U | U | U | U | U | 4.8 F | U | 15.5 F | 16.9 F | U | U |
| mercury | 0.7 | 1 | U | NA | NA | NA | NA | U | NA | NA | NA | U | NA | NA | NA | NA |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 418 | 452 | 393 | 440 | 420 | 424 | 409 | 397 | 372 | 372 | 390 | | 370 | |
| ammonia | 2 | 0.2 | 0.065 | U | U | U | 0.049 F | U | 0.024 F | 0.074 | U | U | U | | 0.031 F | |
| BOD5 | -- | 2.4 | U | U | U | U | U | U | U | U | U | U | U | | U | |
| bromide | 2 | 0.5 | U | U | U | U | U | U | U | U | U | U | U | | U | |
| COD | -- | 5 | U | 12.4 | 6 F | U | U | U | 4.6 F | 15.2 | 27.6 B | U | 14 | | 15 | |
| chloride | 250 | 1 | 2.5 | 2.7 | 2.5 | 2.6 | 2.3 | 2 | 1.6 | 1.9 | 1.5 | 1.6 | 1.2 | | 0.95 F | |
| color | 15 | 5 | 0 | NA | NA | NA | NA | 12 J | NA | NA | NA | U | NA | | NA | |
| fluoride | 1.5 | 1 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | |
| hardness, Total | -- | 1 | 750 | 496 | 516 | 505 | 468 | 448 | 424 | 468 | 400 | 298 | 400 | | 410 | |
| nitrate | 10 | 1 | **10.8** | 7.0 J | U | 4.8 F | 5.2 | 3.8 | 2.6 | 2.1 | 1.3 | 2.8 | 2.4 | | 1.0 | |
| TKN | 1 | 1 | 0.32 | 0.66 B | 0.65 B | 0.52 | 0.44 B | 0.58 B | U | 0.87 | **1.1 B** | 0.64 | 0.12 F | | 0.15 F | |
| sulfate | 250 | 1 | 65.1 | 52.4 | 45.9 | 46.9 | 43.6 | 42.2 | 31.9 | 35 | 32.3 | 29.4 | 54 | | 37 | |
| TDS | 500 | 10 | **590** | **610** | **554** | **515** | 485 | 481 | 470 | 448 | 409 | 483 | **540** | | 46 | |
| TOC | -- | 1 | 4 | 4.4 | 3.2 | 4.9 | 4.4 | 4 | 4.7 | 4.2 B | 2.9 | 4 | 4.1 | | 4.4 | |
| phenolics, Total | -- | 0.005 | U | U | 0.009 F | U | U | U | 0.0050 F | U | U | 0.007 F | NA | | NA | |

For notes, please refer to the end of the tables section.

**Table 3-2**

**LF002 (Landfill 2/3 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF2MW-12 | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 9/25/2007 | | 3/31/2008 | | 9/17/2008 | 4/7/2009 | 3/29/2010 | 6/13/2011 | 6/5/2013 | 6/16/2015 | | |
| Sample ID No. | | | LF2M1219MA | | LF2M1219NA | | LF2M1219OA | LF2M1219PA | LF2M1219QA | LF2M1219RA | LF2M1219SA | LF2M1219TA | | |
| Depth to Water (ft) | | | 13.08 | | 8.2 | | 12.2 | 8.39 | 8.98 | 9.11 | 10.35 | 9.39 | | |
| **VOCs (µg/L)** | | | | | | | | | | | | | | |
| 1,1-dichloroethane | 5* | 1 | NA | | NA | | NA | NA | NA | NA | NA | NA | | |
| 1,2-dichloroethane | 0.6 | 1 | NA | | NA | | NA | NA | NA | NA | NA | NA | | |
| acetone | 50 | 10 | NA | | NA | | NA | NA | NA | NA | NA | NA | | |
| carbon disulfide | 1,000 | 0.5 | NA | | NA | | NA | NA | NA | NA | NA | NA | | |
| chloroethane | 5* | 1 | NA | | NA | | NA | NA | NA | NA | NA | NA | | |
| cis-1,2-dichloroethene | 5* | 1 | NA | | NA | | NA | NA | NA | NA | NA | NA | | |
| dichlorodifluoromethane | 5* | 1 | NA | | NA | | NA | NA | NA | NA | NA | NA | | |
| methylene chloride | 5* | 1 | NA | | NA | | NA | NA | NA | NA | NA | NA | | |
| trichlorofluoromethane | 5* | 1 | NA | | NA | | NA | NA | NA | NA | NA | NA | | |
| vinyl chloride | 2 | 1 | NA | | NA | | NA | NA | NA | NA | NA | NA | | |
| **Metals (µg/L) [Dissolved / Total][1]** | | | | | | | | | | | | | | |
| aluminum | 2,000 | 200 | U | U | 120 F | 1,300 | U | U | U | NA | NA | NA | | |
| antimony | 3 | 50 | U | U | U | U | U | U | U | NA | NA | NA | | |
| arsenic | 25 | 30 | U | U | U | U | U | U | U | NA | NA | NA | | |
| barium | 1,000 | 50 | 46 F | 46 F | 46 F | 51 | 44 F | 43 F | 51 B | NA | NA | NA | | |
| berylium | 3 | 4 | U | U | U | U | U | U | U | NA | NA | NA | | |
| boron, Total | 1,000 | 10 | NA | NA | 88 | 220 | NA | 63 | 59 B | NA | NA | NA | | |
| cadmium | 5 | 5 | U | U | U | U | U | U | U | NA | NA | NA | | |
| calcium | -- | 1,100 | 170,000 | 170,000 | 170,000 | 180,000 | 160,000 | 170,000 | 190,000 | NA | NA | NA | | |
| chromium | 50 | 10 | U | U | U | 1.9 F | U | U | U | NA | NA | NA | | |
| cobalt | -- | 60 | U | U | U | U | U | U | U | NA | NA | NA | | |
| copper | 200 | 10 | U | U | U | U | U | U | U | NA | NA | NA | | |
| iron | 300 | 200 | U | 22 F | U | 97 F | 27 F | 45 F | 23 F | NA | NA | NA | | |
| lead | 25 | 25 | U | U | U | U | U | U | U | NA | NA | NA | | |
| magnesium | 35,000 | 1,000 | 13,000 | 13,000 | 15,000 | 15,000 | 14,000 | 14,000 | 15,000 B | NA | NA | NA | | |
| manganese | 300 | 10 | **870** | **680** | **1,100** | **1,200** | **1,900** | **1,500** | **1,700** | NA | NA | NA | | |
| molybdenum | -- | 15 | U | U | U | U | U | U | U | NA | NA | NA | | |
| nickel | 100 | 20 | 1.7 F | 1.4 F | 1.3 F | 1.3 F | 1.6 F | U | U | NA | NA | NA | | |
| potassium | -- | 1,000 | 9,200 | 9,400 | 8,200 | 8,200 | 8,500 | 7,900 | 8,700 | NA | NA | NA | | |
| selenium | 10 | 30 | U | U | U | U | U | U | U | NA | NA | NA | | |
| silver | 50 | 10 | U | U | U | U | U | U | U | NA | NA | NA | | |
| sodium | 20,000 | 1,000 | 2,300 | 2,400 | 2,400 | 2,500 | 1,900 B | 2,100 | 2,400 B | NA | NA | NA | | |
| thallium | 0.5 | 80 | U | U | U | U | U | U | U | NA | NA | NA | | |
| vanadium | -- | 10 | U | U | U | U | U | U | U | NA | NA | NA | | |
| zinc | 2,000 | 20 | 24 B | 23 B | 10 F | 11 F | 14 F | 11 F | 7.1 FB | NA | NA | NA | | |
| mercury | 0.7 | 1 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 440 | | 490 | | 400 | 420 | 520 | 200 | 560 | 610 | | |
| ammonia | 2 | 0.2 | 0.058 | | 0.030 F | | 0.088 B | 0.089 | 0.10 B | 0.28 | 0.15 | 0.099 JB | | |
| BOD5 | -- | 2.4 | U | | U | | U | U | U | U | U | U | | |
| bromide | 2 | 0.5 | U | | U | | 0.031 F | 0.062 F | 0.037 F | 0.23 F | 0.27 J | U | | |
| COD | -- | 5 | 11 | | 8.5 F | | 3.7 F | 20 | 9.2 FB | 13 F | 18 J | 7.6 J | | |
| chloride | 250 | 1 | 1.2 | | 1.8 | | 1.2 | 1.5 | 2.3 | 2.4 F | 2.4 J | 2.1 J | | |
| color | 15 | 5 | NA | | U | | NA | **20** | U | U | U | 5 | | |
| fluoride | 1.5 | 1 | NA | | NA | | NA | NA | NA | U | U | U | | |
| hardness, Total | -- | 1 | 610 | | 500 | | 460 | 490 | 530 | 500 | 680 | 790 D | | |
| nitrate | 10 | 1 | 1.6 | | 0.5 | | 0.49 F | 0.6 | 0.43 F | U | U | U | | |
| TKN | 1 | 1 | 0.19 F | | 0.22 B | | 0.32 B | U | 0.52 B | 0.65 F | 0.58 J | 0.75 J | | |
| sulfate | 250 | 1 | 22 | | 22 | | 35 | 24 | 20 | 37 | 38 | 29 | | |
| TDS | 500 | 10 | **500** | | **520** | | 460 | 460 | 540 | **580** | **650** | **660** | | |
| TOC | -- | 1 | 3.9 | | 3.4 | | 3.3 | 4.0 | 3.9 | 4.6 | 5.2 | 4.7 | | |
| phenolics, Total | -- | 0.005 | NA | | NA | | NA | NA | NA | NA | U | U | | |

For notes, please refer to the end of the tables section.

**Table 3-2**

**LF002 (Landfill 2/3 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF2MW-13 | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Date of Collection** | | | **12/4/2003** | **3/26/2004** | **6/25/2004** | **9/15/2004** | **12/13/2004** | **3/31/2005** | **6/21/2005** | **9/8/2005** | **12/16/2005** | **3/14/2006** | **9/13/2006** | | **4/2/2007** | |
| **Sample ID No.** | | | **LF2M1312AA** | **LF2M1312BA** | **LF2M1312CA** | **LF2M1312DA** | **LF2M1312EA** | **LF2M1312FA** | **LF2M1312GA** | **LF2M1312HA** | **LF2M1312IA** | **LF2M1312JA** | **LF2M1312KA** | | **LF2M1312LA** | |
| **Depth to Water (ft)** | | | **3.12** | **2.47** | **4.32** | **4.46** | **2.68** | **2.78** | **5.15** | **6.97** | **4.53** | **2.46** | **5.63** | | **2.25** | |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | | |
| 1,1-dichloroethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | NA | | NA | |
| 1,2-dichloroethane | 0.6 | 1 | U | U | U | U | U | U | U | U | U | U | NA | | NA | |
| acetone | 50 | 10 | U | U | 1.6 F | 3.9 F | U | U | U | U | U | U | NA | | NA | |
| carbon disulfide | 1,000 | 0.5 | U | U | U | U | U | U | U | U | U | U | NA | | NA | |
| chloroethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | NA | | NA | |
| cis-1,2-dichloroethene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | NA | | NA | |
| dichlorodifluoromethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | NA | | NA | |
| methylene chloride | 5* | 1 | U | U | U | U | U | U | U | U | U | U | NA | | NA | |
| trichlorofluoromethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | NA | | NA | |
| vinyl chloride | 2 | 1 | U | U | U | U | U | U | U | U | U | U | NA | | NA | |
| **Metals (µg/L) [Dissolved / Total][1]** | | | | | | | | | | | | | | | | |
| aluminum | 2,000 | 200 | 1,140 | **6,650** | 60.7 F | 42.8 F | 103 F | 544 | NA | 60.4 F | 83.6 F | 468 | 62.4 F | 126 F | 46 F | 140 F |
| antimony | 3 | 50 | U | U | U | U | U | U | U | U | 4.8 F | U | U | U | U | U |
| arsenic | 25 | 30 | U | U | U | U | U | U | U | U | U | U | U | U | U | U |
| barium | 1,000 | 50 | 21.2 F | 36.9 F | 29 F | 41.5 F | 19.8 F | 9.2 F | 23.8 F | 35.8 F | 44.9 F | 10.1 F | 27.8 F | 25.6 F | 15 F | 15 F |
| berylium | 3 | 4 | U | 0.3 F | U | U | U | U | U | U | U | U | U | U | U | U |
| boron, Total | 1,000 | 10 | 35 | NA | NA | NA | NA | 11.5 | NA | NA | NA | 10.9 | NA | NA | NA | NA |
| cadmium | 5 | 5 | U | U | U | U | U | U | U | U | U | U | U | U | U | U |
| calcium | -- | 1,100 | 54,100 | 44,600 | 82,500 | 96,000 | 54,300 | 29,500 | 83,500 | 92,600 | 103,000 | 33,400 | 77,800 | 74,500 | 75,000 | 72,000 |
| chromium | 50 | 10 | 1.8 F | 10.9 | U | U | U | 1.5 F | U | U | 1.2 F | 1.4 F | U | 3.96 F | 2.6 F | 1.7 F |
| cobalt | -- | 60 | U | 3.1 F | 2.1 F | 2.8 F | 1.5 F | 1 F | 1.4 F | 1.5 F | 3.1 F | U | U | U | U | U |
| copper | 200 | 10 | 4.9 F | 23.1 | U | U | U | 3.4 F | 1.7 F | U | 2.1 F | 5.6 F | U | 2.03 F | U | U |
| iron | 300 | 200 | **2,620** | **10,200** | 286 | 191 | **1,250** | **1,200 J** | **494** | 168 F | **485** | **404** | **361** | **775 J** | **930** | **1,200** |
| lead | 25 | 25 | U | 3.9 F | U | U | U | U | U | U | U | U | U | U | U | U |
| magnesium | 35,000 | 1,000 | 5,220 | 7,080 | 6,070 | 8,060 | 4,580 | 2,450 | 6,270 | 7,450 | 9,460 | 2,480 | 6,100 | 5,820 | 6,200 | 6,100 |
| manganese | 300 | 10 | **2,440** | **1,030** | **3,500** | **5,080** | **2,700** | **806** | **3,410** | **3,500** | **5,300** | 144 | **3,690** | **3,240** | **3,700** | **3,400** |
| molybdenum | -- | 15 | U | U | U | U | U | 1.1 F | U | U | U | U | U | U | U | U |
| nickel | 100 | 20 | 3.9 F | 9.7 F | 7.1 F | 7.2 F | 3.4 F | 2.4 F | 3.7 F | 3.8 F | 8.6 F | U | 3.48 F | 4.88 F | 2.2 F | 2.2 F |
| potassium | -- | 1,000 | 3,420 | 4,700 | 3,430 | 4,280 | 2,500 | 1,710 | 2,850 | 4,040 B | 3,700 | 2,100 | 3,020 | 3,040 | 2,800 | 2,900 |
| selenium | 10 | 30 | U | U | U | U | U | U | U | U | U | U | U | U | U | U |
| silver | 50 | 10 | U | U | U | U | U | U | U | U | U | U | U | U | U | U |
| sodium | 20,000 | 1,000 | 1,360 | 1,120 | 1,430 | 3,140 | 1,350 | 713 F | 1,680 | 2,900 | 2,970 | 1,050 | 2,130 | 1,950 | 1,800 | 1,900 |
| thallium | 0.5 | 80 | U | U | U | U | U | U | U | U | U | U | U | U | U | U |
| vanadium | -- | 10 | 3.4 F | 14.9 | U | U | 1.5 F | 1.3 F | U | U | U | 3.1 F | 1.87 F | 3.42 F | 0.84 F | 1.4 F |
| zinc | 2,000 | 20 | 5.8 F | 23.7 | 9.2 F | U | U | U | U | 4.7 F | 4.4 F | U | 1.84 F | 18.3 F | U | U |
| mercury | 0.7 | 1 | U | NA | NA | NA | NA | U | NA | NA | NA | U | NA | NA | NA | NA |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 147 | 105 | 192 | 280 | 149 | 84.3 | 264 | 278 | 294 | 96.5 | 230 | | 210 | |
| ammonia | 2 | 0.2 | 0.24 | 0.0094 F | 0.15 B | 0.44 | 0.28 J | 0.05 | 0.18 | 0.82 | 0.74 | U | 0.42 | | 0.070 | |
| BOD5 | -- | 2.4 | 3.7 | U | 2.5 | U | U | U | U | U | U | U | U | | 2.1 | |
| bromide | 2 | 0.5 | U | U | U | U | U | U | U | U | 0.57 J | 0.48 F | 0.023 F | | 0.065 F | |
| COD | -- | 5 | 12 | U | 18.5 | 15.1 | 12.1 | U | U | 15.6 | U | UM | 22 | | 26 B | |
| chloride | 250 | 1 | 2.8 | 1.4 | 1.9 | 2.2 | 1.1 | 1.1 | 1.8 | 2.5 | 3.2 | 1.3 | 1.4 | | 1.7 | |
| color | 15 | 5 | **60** | NA | NA | NA | NA | **50 J** | NA | NA | NA | **30** | NA | | NA | |
| fluoride | 1.5 | 1 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | |
| hardness, Total | -- | 1 | 190 | 176 | 220 | 315 | 188 | 88 | 272 | 272 | 290 | 82.1 | 250 | | 260 | |
| nitrate | 10 | 1 | U | U | 0.15 | U | U | U | U | U | U | 0.05 F | 0.011 F | | U | |
| TKN | 1 | 1 | 0.48 | 0.066 F | 0.71 | 0.76 | 0.57 B | 0.32 B | 0.76 | **1.7** | **1.4 J** | UM | 0.64 | | 0.19 F | |
| sulfate | 250 | 1 | 11.5 | 8.8 | 2.9 | 25.1 | 8.4 | 2 J | 9.1 | 15.5 | 33 | 2.4 | 17 | | 3.1 | |
| TDS | 500 | 10 | 199 | 162 | 251 | 275 | 221 | 110 | 325 | 295 | 365 | 139 | 270 | | 200 | |
| TOC | -- | 1 | 6.1 | 3.4 | 6.2 | 9.1 | 7 | 3.4 | 6.3 | 4.7 B | 5.3 | 3 | 6.8 | | 5.5 | |
| phenolics, Total | -- | 0.005 | U | U | 0.0038 F | U | U | U | 0.0050 F | U | U | U | NA | | NA | |

For notes, please refer to the end of the tables section.

**Table 3-2**

**LF002 (Landfill 2/3 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF2MW-13 | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 9/25/2007 | | 3/31/2008 | | 9/17/2008 | 4/7/2009 | 3/29/2010 | 6/13/2011 | 6/5/2013 | 6/17/2015 | | |
| Sample ID No. | | | LF2M1312MA | | LF2M1312NA | | LF2M1312OA | LF2M1312PA | LF2M1312QA | LF2M1312RA | LF2M1312SA | LF2M1312TA | | |
| Depth to Water (ft) | | | 7.28 | | 2.07 | | 6.55 | 2.18 | 3.56 | 2.78 | 4.65 | 3.08 | | |
| **VOCs (µg/L)** | | | | | | | | | | | | | | |
| 1,1-dichloroethane | 5* | 1 | NA | | NA | | NA | NA | NA | NA | NA | NA | | |
| 1,2-dichloroethane | 0.6 | 1 | NA | | NA | | NA | NA | NA | NA | NA | NA | | |
| acetone | 50 | 10 | NA | | NA | | NA | NA | NA | NA | NA | NA | | |
| carbon disulfide | 1,000 | 0.5 | NA | | NA | | NA | NA | NA | NA | NA | NA | | |
| chloroethane | 5* | 1 | NA | | NA | | NA | NA | NA | NA | NA | NA | | |
| cis-1,2-dichloroethene | 5* | 1 | NA | | NA | | NA | NA | NA | NA | NA | NA | | |
| dichlorodifluoromethane | 5* | 1 | NA | | NA | | NA | NA | NA | NA | NA | NA | | |
| methylene chloride | 5* | 1 | NA | | NA | | NA | NA | NA | NA | NA | NA | | |
| trichlorofluoromethane | 5* | 1 | NA | | NA | | NA | NA | NA | NA | NA | NA | | |
| vinyl chloride | 2 | 1 | NA | | NA | | NA | NA | NA | NA | NA | NA | | |
| **Metals (µg/L) [Dissolved / Total][1]** | | | | | | | | | | | | | | |
| aluminum | 2,000 | 200 | U | U | 300 B | 1,200 | 90 F | 88 F | 73 F♦ | NA | NA | NA | | |
| antimony | 3 | 50 | U | U | U | 1.6 F♦ | U | **5.3 F** | U | NA | NA | NA | | |
| arsenic | 25 | 30 | U | U | U | U | U | U | U | NA | NA | NA | | |
| barium | 1,000 | 50 | 29 F♦ | 30 F | 11 F | 21 F | 33 F | 11 F | 17 FB | NA | NA | NA | | |
| berylium | 3 | 4 | U | U | U | U | U | U | U | NA | NA | NA | | |
| boron, Total | 1,000 | 10 | NA | NA | 43 B | 20 B♦ | NA | 19♦ | 23 B♦ | NA | NA | NA | | |
| cadmium | 5 | 5 | U | U | U | U | U | U | U | NA | NA | NA | | |
| calcium | -- | 1,100 | 83,000 | 88,000 | 49,000 | 47,000 | 89,000 | 44,000 | 54,000 B | NA | NA | NA | | |
| chromium | 50 | 10 | 1.6 F♦ | 2.1 F | 1.4♦ | 6.2 F | 2.2 F | U | U | NA | NA | NA | | |
| cobalt | -- | 60 | U | U | U | U | U | U | U | NA | NA | NA | | |
| copper | 200 | 10 | U | U | U | 7.1 F | U | 4.5 F♦ | U | NA | NA | NA | | |
| iron | 300 | 200 | **920** | **960** | **210** | **2,300** | **390♦** | 240♦ | 250♦ | NA | NA | NA | | |
| lead | 25 | 25 | U | U | U | U | U | U | U | NA | NA | NA | | |
| magnesium | 35,000 | 1,000 | 6,700 | 7,100 | 3,800 | 4,100 | 7,300♦ | 3,700 | 4,300 B | NA | NA | NA | | |
| manganese | 300 | 10 | **4,900** | **5,400** | **530♦** | **910** | **5,200** | **400** | 65 J | NA | NA | NA | | |
| molybdenum | -- | 15 | 3.2 F♦ | 3.5 F♦ | U | U | U | U | U | NA | NA | NA | | |
| nickel | 100 | 20 | 2.3 F♦ | 3.1 F | 1.3 F | 5.3 F | 3.1 F | U | U | NA | NA | NA | | |
| potassium | -- | 1,000 | 4100♦ | 4,200 | 2,200 | 2,600 | 3,500 | 2,500 | 3,600 B♦ | NA | NA | NA | | |
| selenium | 10 | 30 | 2.9 F♦ | 3.5 F | U | U | U | U | U | NA | NA | NA | | |
| silver | 50 | 10 | U | U | U | U | U | U | U | NA | NA | NA | | |
| sodium | 20,000 | 1,000 | 2,200 | 2,300 | 1,600 | 1800 B | 3,800 B | 1,100 | 1,600 B | NA | NA | NA | | |
| thallium | 0.5 | 80 | U | U | U | U | U | U | U | NA | NA | NA | | |
| vanadium | -- | 10 | U | 0.69 F♦ | 1.2 F | 5.1 F | 1.2 F | U | U | NA | NA | NA | | |
| zinc | 2,000 | 20 | 45 B | 79 B♦ | 13 F♦ | 22 B♦ | 13 F♦ | 16 F♦ | 6.0 FB | NA | NA | NA | | |
| mercury | 0.7 | 1 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 250 | | 140 | | 260 | 110 | 150♦ | 190 | 240 ♦ | 200 | | |
| ammonia | 2 | 0.2 | 0.55♦ | | 0.023 F | | 0.30♦ | 0.034 F | 0.068 B | 0.190 | 0.87 ♦ | 0.053 JB♦ | | |
| BOD5 | -- | 2.4 | U | | U | | U | U | U | 2.2 F♦ | U | U | | |
| bromide | 2 | 0.5 | 0.050 F♦ | | U | | 0.074 F♦ | 0.012 F | U | U | 0.17 J ♦ | U | | |
| COD | -- | 5 | 20 | | 20 J | | 22♦ | 23 J♦ | 9.5 FB | 29♦ | 28 ♦ | 16 J | | |
| chloride | 250 | 1 | 1.9 | | 2.2♦ | | 1.6♦ | 0.53 F | 0.65 F | 0.84 F♦ | 1.6 J | 0.52 J♦ | | |
| color | 15 | 5 | NA | | 15 | | NA | **20** | U | **50** | **20** | **40** | | |
| fluoride | 1.5 | 1 | NA | | NA | | NA | NA | NA | 0.17 F♦ | 0.069 J | U | | |
| hardness, Total | -- | 1 | 220 | | 140 | | 330♦ | 140 | 150 | 180♦ | 270 ♦ | 220 ♦ | | |
| nitrate | 10 | 1 | U | | 0.10 ♦ | | U | 0.036 F♦ | 0.015 F | U | U | U | | |
| TKN | 1 | 1 | 0.85 J | | 0.35 B | | 0.76 J♦ | 0.15 F | 0.45 B | 0.70 F♦ | **1.1 ♦** | U | | |
| sulfate | 250 | 1 | 5.7 | | 8.8 J♦ | | 12 | 2.9 | 8.5 | 0.43 F | 25 | 0.95 J | | |
| TDS | 500 | 10 | 300♦ | | 150 | | 310 | 100 | 230♦ | 220 | 300 | 240 | | |
| TOC | -- | 1 | 5.3♦ | | 4.3 | | 6.4 | 4.5♦ | 3.3 | 11 | 8.1 ♦ | 6.4 | | |
| phenolics, Total | -- | 0.005 | NA | | NA | | NA | NA | NA | NA | U | U | | |

For notes, please refer to the end of the tables section.

**Table 3-2**

**LF002 (Landfill 2/3 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF2MW-14 | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 12/4/2003 | 3/31/2005 | 3/14/2006 | 4/2/2007 | | 3/31/2008 | | 4/8/2009 | 3/29/2010 | 6/9/2011 | 6/5/2013 | 6/17/2015 | | |
| Sample ID No. | | | LF2M1416AA | LF2M1416FA | LF2M1416JA | LF2M1416LA | | LF2M1416NA | | LF2M1416PA | LF2M1416QA | LF2M1416RA | LF2M1416SA | LF2M1416TA | | |
| Depth to Water (ft) | | | 7.89 | 7.63 | 7.67 | 6.70 | | 7.31 | | 7.36 | 8.08 | 8.25 | 8.70 | 8.13 | | |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | | |
| 1,1-dichloroethane | 5* | 1 | U | U | U | NA | | NA | | NA | NA | NA | NA | NA | | |
| 1,2-dichloroethane | 0.6 | 1 | U | U | U | NA | | NA | | NA | NA | NA | NA | NA | | |
| acetone | 50 | 10 | 1.9 F | U | U | NA | | NA | | NA | NA | NA | NA | NA | | |
| carbon disulfide | 1,000 | 0.5 | U | U | U | NA | | NA | | NA | NA | NA | NA | NA | | |
| chloroethane | 5* | 1 | U | U | U | NA | | NA | | NA | NA | NA | NA | NA | | |
| cis-1,2-dichloroethene | 5* | 1 | U | U | U | NA | | NA | | NA | NA | NA | NA | NA | | |
| dichlorodifluoromethane | 5* | 1 | U | U | U | NA | | NA | | NA | NA | NA | NA | NA | | |
| methylene chloride | 5* | 1 | U | U | U | NA | | NA | | NA | NA | NA | NA | NA | | |
| trichlorofluoromethane | 5* | 1 | U | U | U | NA | | NA | | NA | NA | NA | NA | NA | | |
| vinyl chloride | 2 | 1 | U | U | U | NA | | NA | | NA | NA | NA | NA | NA | | |
| **Metals (µg/L) [Dissolved / Total][1]** | | | | | | | | | | | | | | | | |
| aluminum | 2,000 | 200 | 978 | 846 | 836 | 680 | 760 | 750 B | 1300 | 800 | 790 | NA | NA | NA | | |
| antimony | 3 | 50 | U | U | U | U | U | U | U | U | U | NA | NA | NA | | |
| arsenic | 25 | 30 | U | U | U | U | U | U | U | U | U | NA | NA | NA | | |
| barium | 1,000 | 50 | 67.8 | 53.6 | 53.1 | 52 | 53 | 52 | 54 | 52 | 49 FB | NA | NA | NA | | |
| berylium | 3 | 4 | 0.80 F | 0.6 F | 0.5 F | 0.61 F | 0.60 F | 0.55 F | 0.55 F | 0.59 F | 0.50 F | NA | NA | NA | | |
| boron, Total | 1,000 | 10 | 6.2 F | 5.3 F | 6.3 F | NA | NA | 5.9 F | 44 B | 6.7 F | 8.9 FB | NA | NA | NA | | |
| cadmium | 5 | 5 | U | U | U | U | U | U | U | U | U | NA | NA | NA | | |
| calcium | -- | 1,100 | 1,600 | 1,820 | 1,460 | 1,500 | 1,500 | 1,400 | 2,200 | 1,600 | 1,800 B | NA | NA | NA | | |
| chromium | 50 | 10 | U | 1 F | 0.8 F | U | U | U | U | U | U | NA | NA | NA | | |
| cobalt | -- | 60 | 2.1 F | 3.2 F | 3.3 F | U | U | U | U | U | U | NA | NA | NA | | |
| copper | 200 | 10 | 4.7 F | 5.4 F | 5.5 F | 3.8 F | 4.3 F | 3.5 F | 4.4 F | 4.5 F | 4.4 F | NA | NA | NA | | |
| iron | 300 | 200 | 35 F | 107 F | 144 F | 8.4 F | 46 F | U | 140 F | 64 F | 61 F | NA | NA | NA | | |
| lead | 25 | 25 | U | U | U | U | U | U | U | U | U | NA | NA | NA | | |
| magnesium | 35,000 | 1,000 | 766 F | 751 F | 648 F | 680 F | 680 | 640 F | 720 F | 780 F | 820 FB | NA | NA | NA | | |
| manganese | 300 | 10 | 135 | 123 | 123 | 120 | 120 | 110 | 110 | 120 | 120 | NA | NA | NA | | |
| molybdenum | -- | 15 | U | 0.8 F | U | U | U | U | U | U | U | NA | NA | NA | | |
| nickel | 100 | 20 | 5 F | 5 F | 5.8 F | 5.9 F | 6.0 F | 5.7 F | 6.2 F | 5.7 F | 5.1 F | NA | NA | NA | | |
| potassium | -- | 1,000 | 252 F | 227 F | 220 F | U | U | 130 F | 180 F | U | U | NA | NA | NA | | |
| selenium | 10 | 30 | U | U | U | U | U | U | U | U | U | NA | NA | NA | | |
| silver | 50 | 10 | U | U | U | U | U | U | U | U | U | NA | NA | NA | | |
| sodium | 20,000 | 1,000 | 663 F | 1,240 | 1,730 | 1,200 | 1,200 | 1300 B | 1300 B | 1,300 | 1,800 B | NA | NA | NA | | |
| thallium | 0.5 | 80 | U | U | U | U | U | U | U | U | U | NA | NA | NA | | |
| vanadium | -- | 10 | U | U | U | U | 1.8 F | U | 0.71 F | U | U | NA | NA | NA | | |
| zinc | 2,000 | 20 | 34.4 | 25.6 | 29.8 | 29 | 29 | 35 B | 36 B | 40 B | 31 B | NA | NA | NA | | |
| mercury | 0.7 | 1 | U | U | U | NA | NA | NA | NA | NA | NA | NA | NA | NA | | |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | U | 2.4 F | 0.89 F | U | | U | | U | U | U | U | U | | |
| ammonia | 2 | 0.2 | U | 0.039 F | U | U | | U | | U | U | 0.11 | U | 0.073 JB | | |
| BOD5 | -- | 2.4 | U | U | U | U | | U | | U | U | U | U | U | | |
| bromide | 2 | 0.5 | U | U | 0.34 F | U | | U | | U | U | U | U | U | | |
| COD | -- | 5 | U | U | U | 17 B | | 4.1 F | | 9.0 F | U | U | 11 J | U | | |
| chloride | 250 | 1 | 2.6 | 2.4 | 2.8 | 2 | | 0.53 F | | 1.9 | 2.1 | 1.2 F | 1.9 J | 1.0 J | | |
| color | 15 | 5 | 0 | 10 J | U | NA | | U | | U | U | U | U | U | | |
| fluoride | 1.5 | 1 | NA | NA | NA | NA | | NA | | NA | NA | 0.093 F | 0.081 J | 0.060 J | | |
| hardness, Total | -- | 1 | 28 | 8 | 1.8 F | U | | 28 | | U | 7.8 | 16 | 8.5 | 12 | | |
| nitrate | 10 | 1 | U | 0.07 F | 0.09 F | 0.11 | | U | | 0.19 | 0.078 F | 0.058 F | 0.13 J | 0.33 J | | |
| TKN | 1 | 1 | U | 0.27 B | 0.12 F | U | | U | | U | 0.52 B | 0.50 F | 0.35 J | U | | |
| sulfate | 250 | 1 | 9.7 | 12 | 7.8 | 8.8 | | 2.2 | | 10 | 10 | 11 | 6.7 | 7.7 | | |
| TDS | 500 | 10 | 30 | 33 | 30 | U | | 26 | | U | 38 B | 16 | 17 | 36 | | |
| TOC | -- | 1 | U | 0.93 F | 1.2 | 1.2 | | 1.2 | | 1.2 | 1.9 | 1.3 | 1.6 | 1.3 B | | |
| phenolics, Total | -- | 0.005 | U | U | U | NA | | NA | | NA | NA | NA | U | U | | |

For notes, please refer to the end of the tables section.

**Table 3-2**

**LF002 (Landfill 2/3 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF2MW-100 | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 12/4/2003 | 3/26/2004 | 6/25/2004 | 9/16/2004 | 12/14/2004 | 4/1/2005 | 6/22/2005 | 9/7/2005 | 12/19/2005 | 3/15/2006 | 9/14/2006 | | 4/3/2007 | |
| Sample ID No. | | | LF2M10009AA | LF2M10011BA | LF2M10015CA | LF2M10026DA | LF2M10031EA | LF2M10022FA | LF2M10026FA | LF2M10046HA | LF2M10028IA | LF2M10021JA | LF2M10011KA | | LF2M10008LA | |
| Depth to Water (ft) | | | 9.42 | 10.92 | 15.24 | 25.70 | 30.90 | 21.80 | 26.37 | 46.15 | 27.80 | 20.91 | 10.80 | | 8.06 | |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | | |
| 1,1-dichloroethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | NA | | NA | |
| 1,2-dichloroethane | 0.6 | 1 | U | U | U | U | U | U | U | U | U | U | NA | | NA | |
| acetone | 50 | 10 | 2.7 F | 2.5 F | 3.6 F | 2.6 F | 4.2 F | 1.4 F | U | U | 6.2 F | 7.8 F | NA | | NA | |
| carbon disulfide | 1,000 | 0.5 | U | U | U | U | U | U | U | U | U | U | NA | | NA | |
| chloroethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | NA | | NA | |
| cis-1,2-dichloroethene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | NA | | NA | |
| dichlorodifluoromethane | 5* | 1 | U | U | U | U | U | U | U | UJ | U | U | NA | | NA | |
| methylene chloride | 5* | 1 | U | U | U | U | U | U | U | U | U | 4.2 | NA | | NA | |
| trichlorofluoromethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | NA | | NA | |
| vinyl chloride | 2 | 1 | U | U | U | U | U | U | U | U | U | U | NA | | NA | |
| **Metals (µg/L) [Dissolved / Total][1]** | | | | | | | | | | | | | | | | |
| aluminum | 2,000 | 200 | 1,230 | **13,900** | 336 | 209 | 142 F | 128 F | 531 | 201 | 147 F | 40.8 F | 42.1 F | 58.6 F | U | 190 F |
| antimony | 3 | 50 | **7.5 F** | U | U | U | U | **4 F** | **5.7 F** | U | 5.6 F | U | U | U | 2.5 F | 2.1 F |
| arsenic | 25 | 30 | U | 7.4 F | U | U | U | U | U | U | U | U | U | U | U | U |
| barium | 1,000 | 50 | **2,280** | **2,690** | **1,770** | **1,780** | **1,860** | **1,880** | **1,390** | **1,860** | **3,020** | **1,540** | **1,840** | **1,900** | **1,900** | **2,000** |
| berylium | 3 | 4 | 0.4 F | 1.2 F | U | U | U | U | U | 0.3 F | 0.3 F | 0.3 F | U | U | U | U |
| boron, Total | 1,000 | 10 | 706 | NA | NA | NA | NA | 769 | NA | NA | NA | 746 | NA | NA | NA | NA |
| cadmium | 5 | 5 | U | U | U | U | U | U | U | U | U | U | U | U | U | U |
| calcium | -- | 1,100 | 68,000 | 74,600 | 47,300 | 49,200 | 47,400 | 49,000 | 39,000 | 54,700 | 83,600 | 46,500 | 52,800 | 56,600 | 60,000 | 64,000 |
| chromium | 50 | 10 | 5.2 F | **52** | 3.4 F | 2.5 F | U | 2.5 F | **181** | **970** | **170** | 8.8 F | **93.6** | **877** | 18 | **3,400** |
| cobalt | -- | 60 | 1.5 F | 8.9 F | 1.1 F | 1.5 F | 1.3 F | U | 3.6 F | 22.5 | 2.6 F | 1.7 F | 7.57 F | U | 18 F | 69 |
| copper | 200 | 10 | 81.3 | 184 | 18.8 | 8.9 F | 8.6 F | 6.3 F | 24.8 F | 21.9 | 10.1 | 3.3 F | 3.28 F | 16.4 | 7.5 F | **240** |
| iron | 300 | 200 | **1,920** | **22,200** | **427** | 274 | 122 F | 116 F | **1,170** | **5,220** | **560** | 72.8 F | 283 | **1,760** | **2,200** | **27,000** |
| lead | 25 | 25 | U | 17.2 F | U | U | U | U | U | U | U | U | U | U | U | U |
| magnesium | 35,000 | 1,000 | 22,400 | 26,700 | 15,300 | 16,600 | 15,300 | 15,600 | 12,400 | 16,800 | 25,600 | 14,300 | 16,300 | 17,300 | 18,000 | 19,000 |
| manganese | 300 | 10 | 130 | **557** | 86 | 88.7 | 77.4 | 80.8 | 106 | **458** | 260 | 107 | **326** | **320** | **520** | **1,200** |
| molybdenum | -- | 15 | 25.2 | 29.5 | 17.8 | 21 | 15.9 | 10.5 F | 21.3 | 47.1 | 29.4 | 15.9 | 22.5 | 35.8 | 46 | 190 |
| nickel | 100 | 20 | 19.9 F | 76.6 | 9.7 F | 8.3 F | 6.6 F | 7.3 F | **136** | **1,020** | 68.7 | 87.9 | **646** | **596** | **1,100** | **3,700** |
| potassium | -- | 1,000 | 28,600 | 28,200 F | 24,100 F | 22,200 F | 23,800 F | 33,200 J | 30,000 M | 40,000 M | 50,900 M | 31,500 | 28,800 | 30,200 | 29,000 | 30,000 |
| selenium | 10 | 30 | U | U | U | U | U | U | U | U | U | U | U | U | U | U |
| silver | 50 | 10 | U | U | U | U | U | U | U | U | U | U | U | U | U | U |
| sodium | 20,000 | 1,000 | **1,920,000** | **1,660,000** | **1,390,000** | **1,400,000** | **1,490,000** | **1,400,000** | **1,220,000** | **1,500,000** | **1,810,000** | **1,390,000** | **1,660,000** | **1,700,000** | **1,700,000** | **1,800,000** |
| thallium | 0.5 | 80 | U | U | U | U | U | U | U | U | U | U | **13.4 F** | **11.1 F** | U | U |
| vanadium | -- | 10 | 3.1 F | 20.2 | 0.8 F | U | U | U | 2.3 F | 3.8 F | 1 F | U | U | 4.68 F | U | 13 |
| zinc | 2,000 | 20 | 10.5 F | 61.7 | 8.2 F | 24.7 | 12.8 F | 12.4 | 21.3 | 39 | 22 | 12.3 F | 30.5 B | 99.3 B | 26 | 27 |
| mercury | 0.7 | 1 | U | NA | NA | NA | NA | U | NA | NA | NA | U | U | NA | NA | NA |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 126 | 136 | 141 | 183 | 177 | 171 | 183 | 187 | 189 | 187 | 170 | | 140 | |
| ammonia | 2 | 0.2 | **7.4** | U | **6** | **7.2** | **5.5** | **6.6** | 0.25 | **7.4** | **7.8** | **6.2** | **5** | | **7.7** | |
| BOD5 | -- | 2.4 | 2.2 | U | U | NS | NA | NA | NA | NA | NA | NA | 9.4 | | U | |
| bromide | 2 | 0.5 | **39.6** | **47.3** | U | **36** | U | NA | NA | **27.5** | **40.4** | **28.2** | **27** | | **31** | |
| COD | -- | 5 | 47 | U | 178 | 36 | U | 73.8 | U | 41.8 | 40.3 | 45.9 | 41 | | 72 | |
| chloride | 250 | 1 | **3,070** | **3,890 R** | 0.4 F | **3,220** | 8.8 | NA | NA | **4,060** | **4,670** | **3,900** | **2,600** | | **2,700** | |
| color | 15 | 5 | **150** | NA | NA | NA | NA | NA | NA | NA | NA | U | NA | | NA | |
| fluoride | 1.5 | 1 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | |
| hardness, Total | -- | 1 | 510 | 300 | 188 | 210 | 196 | 184 | 196 | 265 | 350 | 124 | 380 | | 220 | |
| nitrate | 10 | 1 | U | UJ | U | U | 0.28 F | NA | NA | U | U | U | 0.2 | | 1.1 F | |
| TKN | 1 | 1 | **9.3** | U | **6.6** | **6.5** | **4.8** | **7.4** | 0.54 | **7.1** | **10.9** | **7.9** | **7.1** | | **7.9** | |
| sulfate | 250 | 1 | 19.3 | 27.2 | 19.9 | 21.7 | 6.9 | NA | NA | 10.5 | 10 | 11.9 | 6.6 F | | 7.8 F | |
| TDS | 500 | 10 | **4,980** | **4,600** | **4,030** | **4,010** | **3,810** | NA | NA | **4,280** | **3,350** | **3,770** | **4,600** | | **2,100** | |
| TOC | -- | 1 | U | U | U | U | NA | 0.79 F | 1.7 | 1.5 | U | 1.2 | 1.5 | | 2.0 | |
| phenolics, Total | -- | 0.005 | U | U | U | U | NA | 0.008 F | NA | U | U | U | NA | | NA | |

For notes, please refer to the end of the tables section.

**Table 3-2**
**LF002 (Landfill 2/3 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF2MW-100 | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 9/26/2007 | | 4/1/2008 | | 9/18/2008 | | 4/8/2009 | | 3/29/2010 | | 6/16/2011 | | 6/6/2013 | | 6/16/2015 | | | |
| Sample ID No. | | | LF2M10011MA | | LF2M10008NA | | LF2M10011OA | | LF2M10008PA | | LF2M10010QA | | LF2M10009RA | | LF2M10010SA | | LF2M10009TA | | | |
| Depth to Water (ft) | | | 12.64 | | 7.98 | | 11.45 | | 8.31 | | 9.87 | | 8.5 | | 9.80 | | 9.27 | | | |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | | | | | | |
| 1,1-dichloroethane | 5* | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | | |
| 1,2-dichloroethane | 0.6 | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | | |
| acetone | 50 | 10 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | | |
| carbon disulfide | 1,000 | 0.5 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | | |
| chloroethane | 5* | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | | |
| cis-1,2-dichloroethene | 5* | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | | |
| dichlorodifluoromethane | 5* | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | | |
| methylene chloride | 5* | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | | |
| trichlorofluoromethane | 5* | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | | |
| vinyl chloride | 2 | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | | |
| **Metals (µg/L) [Dissolved / Total][1]** | | | | | | | | | | | | | | | | | | | | |
| aluminum | 2,000 | 200 | U | 58 F | U | 56 F | U | 100 F | U | U | U | 410 | NA | | NA | | NA | | | |
| antimony | 3 | 50 | 2.3 F | 7.1 F | 2.3 F | 2.7 F | 3.4 F | U | U | U | U | U | NA | | NA | | NA | | | |
| arsenic | 25 | 30 | U | U | U | U | U | 4.2 F | U | U | U | U | NA | | NA | | NA | | | |
| barium | 1,000 | 50 | **1,600** | **1,800** | **2,800** | **2,800** | **1,800** | **2,300** | **2,600** | **2,500** | **2,500** | **2,600** | NA | | NA | | NA | | | |
| berylium | 3 | 4 | U | U | U | U | U | U | U | U | U | U | NA | | NA | | NA | | | |
| boron, Total | 1,000 | 10 | NA | NA | 750 | 760 | NA | NA | 790 | 810 | NA | 740 | NA | | NA | | NA | | | |
| cadmium | 5 | 5 | U | U | U | U | U | U | U | U | U | U | NA | | NA | | NA | | | |
| calcium | -- | 1,100 | 67,000 | 68,000 | 92,000 | 93,000 | 63,000 | 84,000 | 79,000 | 82,000 | 81,000 | 78,000 B | NA | | NA | | NA | | | |
| chromium | 50 | 10 | U | **2,200** | U | **140** | 8.1 F | **480** | U | **120** | U | **200** | NA | | NA | | NA | | | |
| cobalt | -- | 60 | 31 F | 28 F | U | U | U | 28 F | U | U | U | U | NA | | NA | | NA | | | |
| copper | 200 | 10 | 10 | 56 | 4.7 F | 28 | 2.0 F | 72 | U | 5.7 F | U | U | NA | | NA | | NA | | | |
| iron | 300 | 200 | **4,900** | **14,000** | **830** | **1,500** | 280 | **12,000** | **850** | **1,900** | **2,000** | **2,800** | NA | | NA | | NA | | | |
| lead | 25 | 25 | U | U | U | U | U | U | U | U | U | U | NA | | NA | | NA | | | |
| magnesium | 35,000 | 1,000 | 18,000 | 18,000 | 27,000 | 27,000 | 19,000 | 23,000 | 23,000 | 24,000 | 22,000 | 21,000 | NA | | NA | | NA | | | |
| manganese | 300 | 10 | **910** | **820** | **450** | **440** | 250 | **900** | **330** | **430** | 270 | **310** | NA | | NA | | NA | | | |
| molybdenum | -- | 15 | 50 | 98 | 34 | 33 | 35 | 65 | 19 | 23 | 23 F | 17 F | NA | | NA | | NA | | | |
| nickel | 100 | 20 | **2,600** | **2,500** | **580 J** | **470 J** | **510** | **2,000** | **320** | **470** | **410 F** | **200 J** | NA | | NA | | NA | | | |
| potassium | -- | 1,000 | 30,000 | 29,000 | 38,000 | 38,000 | 31,000 | 36,000 | 34,000 | 37,000 | 35,000 | 35,000 | NA | | NA | | NA | | | |
| selenium | 10 | 30 | U | U | U | U | U | U | U | U | U | U | NA | | NA | | NA | | | |
| silver | 50 | 10 | U | U | U | U | U | U | U | U | U | U | NA | | NA | | NA | | | |
| sodium | 20,000 | 1,000 | **1,600,000** | **1,600,000** | **2,000,000** | **2,100,000** | **1,600,000** | **2,100,000** | **1,900,000** | **2,000,000** | **1,900,000** | **1,900,000** | NA | | NA | | NA | | | |
| thallium | 0.5 | 80 | U | U | U | U | U | U | U | U | U | U | NA | | NA | | NA | | | |
| vanadium | -- | 10 | U | 11 | U | 0.74 F | U | 2.7 F | U | U | U | U | NA | | NA | | NA | | | |
| zinc | 2,000 | 20 | 38 | 64 | 12 F | 13 F | 63 B | 16 F | 29 B | 24 B | 18 F | 11 FB | NA | | NA | | NA | | | |
| mercury | 0.7 | 1 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | | NA | | | |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 150 | | 180 | | 180 | | 180 | | 150 | | U | | 650 | | 240 | | | |
| ammonia | 2 | 0.2 | **8.1** | | **9.7** | | **8.3** | | **9.1** | | **7.9** | | **7.5** | | **8.6** | | **9.6** | | | |
| BOD5 | -- | 2.4 | NA | | U | | NA | | 3.0 | | U | | U | | 2.0 J | | U | | | |
| bromide | 2 | 0.5 | **25** | | **34** | | **28** | | **33** | | **31** | | **32** | | **34** | | **33** | | | |
| COD | -- | 5 | 70 | | 39 | | 44 | | 80 B | | 47 B | | 27 | | 41 | | 52 | | | |
| chloride | 250 | 1 | **2,700** | | **3,200** | | **2,700** | | **3,200** | | **3,000** | | **3,000** | | **3100** | | **3200** | | | |
| color | 15 | 5 | NA | | U | | NA | | **20** | | U | | U | | U | | **20** | | | |
| fluoride | 1.5 | 1 | NA | | NA | | NA | | NA | | NA | | 0.79 F | | 0.87 J | | 1.3 JD | | | |
| hardness, Total | -- | 1 | 730 | | 460 | | 340 | | 330 | | 280 | | 280 | | 410 | | 340 | | | |
| nitrate | 10 | 1 | 0.051 F | | U | | 0.48 F | | U | | U | | U | | U | | U | | | |
| TKN | 1 | 1 | **14** | | **9.4** | | **7.6** | | **9.0** | | **10** | | **7.9** | | **7.1** | | **7.6** | | | |
| sulfate | 250 | 1 | 6 | | 8.8 F | | 8.8 F | | 7.5 F | | U | | 25 | | 8.2 J | | 15 D | | | |
| TDS | 500 | 10 | **4,600** | | **5,700** | | **4,600** | | **5,300** | | **4,900** | | 450 | | **4100** | | **5300** | | | |
| TOC | -- | 1 | 2.2 | | 1.1 | | 1.8 | | 1.7 | | 1.4 | | 2.4 | | 1.9 | | 1.3 B | | | |
| phenolics, Total | -- | 0.005 | NA | | NA | | NA | | NA | | NA | | NA | | U | | U | | | |

For notes, please refer to the end of the tables section.

**Table 3-2**
**LF002 (Landfill 2/3 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class A Surface Water Standards | Reporting Limit | LF2SW-1 | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 12/4/2003 | 3/26/2004 | 6/25/2004 | 9/15/2004 | 12/13/2004 | 3/31/2005 | 6/21/2005 | 9/8/2005 | 12/16/2005 | 3/10/2006 | 9/13/2006 | 4/3/2007 | |
| Sample ID No. | | | LF2SW0101AA | LF2SW0101BA | LF2SW0101CA | LF2SW0101DA | LF2SW0101EA | LF2SW0101FA | LF2SW0101GA | Not Sampled | Not Sampled | LF2SW0101JA | Not Sampled | LF2SW0101LA | |
| Depth to Water (ft) | | | Surface | Surface | Surface | Surface | Surface | Surface | Surface | NS | NS | Surface | NS | Surface | |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | |
| acetone | 50 | 10 | 4.2 F | 4.5 F | 3.8 F | 4.5 F | 2.9 F | 3.1 F | 3.2 F | NS | NS | 13 | NS | NA | |
| 2-butanone (MEK) | 50 | 10 | U | U | U | U | U | U | U | NS | NS | U | NS | NA | |
| toluene | 5 | 1 | U | U | U | 0.32 F | U | U | U | NS | NS | U | NS | NA | |
| **Metals (µg/L) [Dissolved / Total][1]** | | | | | | | | | | | | | | | |
| aluminum | 100 | 200 | **2,210** | **240** | **840** | **547** | **206** | 36.1 F | **402** | NS | NS | 83.3 F | NS | U | 53 F |
| antimony | 3 | 50 | U | U | U | U | U | U | U | NS | NS | U | NS | U | U |
| arsenic | 50 | 30 | U | U | U | U | U | U | U | NS | NS | U | NS | U | U |
| barium | 1,000 | 50 | 22.5 F | 7.9 F | 17.8 F | 18.8 F | 4.6 F | 3.6 F | 23.1 F | NS | NS | 7.1 F | NS | 84 F | 83 F |
| berylium | 3 | 4 | U | U | U | U | U | U | U | NS | NS | U | NS | U | U |
| boron, Total | 1,000 | 110 | 15.3 | NA | NA | NA | NA | 5.1 F | NA | NS | NS | 6.1 F | NS | NA | NA |
| cadmium | 5 | 5 | U | U | U | U | U | U | U | NS | NS | U | NS | U | U |
| calcium | -- | 1,100 | 29,100 | 9,730 | 43,000 | 27,900 | 7,080 | 6,120 | 47,100 | NS | NS | 6,960 | NS | 11,000 | 10,000 |
| chromium | 50 | 10 | 2.2 F | U | 0.9 F | U | U | U | U | NS | NS | 1.1 F | NS | U | U |
| cobalt | 5 | 60 | U | U | U | U | U | U | U | NS | NS | U | NS | U | U |
| copper | 200 | 10 | 4.6 F | U | 2.2 F | U | U | 3.4 F | 3.4 F | NS | NS | 1.9 F | NS | U | U |
| iron | 300 | 200 | **3,130** | **451** | **2,060** | **5,110** | **431** | 133 F | **1,680** | NS | NS | 240 | NS | 250 | **1,000** |
| lead | 50 | 25 | 4.1 F | U | U | U | U | U | U | NS | NS | U | NS | U | U |
| magnesium | 35,000 | 1,000 | 2,970 | 918 F | 4,130 | 2,140 | 898 F | 672 F | 4,990 | NS | NS | 818 F | NS | 1,300 | 1,300 |
| manganese | 300 | 10 | 247 | 282 | **333** | **926** | 81 | 71.3 | **425** | NS | NS | 233 | NS | 27 | 70 |
| molybdenum | -- | 15 | U | U | U | U | U | 0.6 F | U | NS | NS | U | NS | U | U |
| nickel | 100 | 20 | U | U | U | U | U | U | 1.5 F | NS | NS | U | NS | 1.6 F | U |
| potassium | -- | 1,000 | 3,690 | 1,140 | 2,430 | 3,980 | 2,200 | 1,180 | 3,120 | NS | NS | 1,040 | NS | 920 F | 860 F |
| selenium | 10 | 30 | U | U | U | U | U | U | U | NS | NS | U | NS | U | U |
| silver | 50 | 10 | U | U | U | U | U | U | U | NS | NS | U | NS | U | U |
| sodium | -- | 1,000 | 564 F | 552 F | 1730 | 578 | U | 381 F | 1,580 | NS | NS | 694 F | NS | 1,500 | 1,300 |
| thallium | 0.5 | 80 | U | U | U | U | U | U | U | NS | NS | U | NS | U | U |
| vanadium | -- | 10 | 2.9 F | U | 1.2 F | 1.5 | U | U | 1 F | NS | NS | U | NS | U | U |
| zinc | 2,000 | 20 | 20.3 | 15.7 F | U | U | 9 F | 9 F | 3.7 F | NS | NS | 11.6 F | NS | 20 | 24 |
| mercury | 0.7 | 1 | U | NA | NA | NA | NA | U | NA | NS | NS | U | NS | NA | NA |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 74.4 | 22.8 | 94.8 | 78.1 | 24 | 21.6 | 139 | NS | NS | 22.2 | NS | 30 | |
| ammonia | 2 | 0.2 | U | 0.098 | 0.024 F | 0.057 | 0.067 | 0.038 F | U | NS | NS | 0.3 | NS | U | |
| BOD5 | -- | 2.4 | 5.1 | 2.8 | 6.8 | U | U | 3.2 | 5 | NS | NS | 2.5 | NS | 2.3 | |
| bromide | 2 | 0.5 | U | U | U | U | U | U | U | NS | NS | U | NS | U | |
| COD | -- | 5 | 36.4 | 17.4 | 46.8 | 30 | 11.8 | U | 28.5 | NS | NS | U | NS | 17 | |
| chloride | 250 | 1 | 2.4 | 1.4 | 2.4 | 1 | 0.62 F | 0.67 F | 1.1 | NS | NS | U | NS | 1.1 | |
| color | 15 | 5 | **140** | NA | NA | NA | NA | **25 J** | NA | NS | NS | **20** | NS | NA | |
| cyanide, Total | 200 | 0.02 | U | NA | NA | NA | NA | U | NA | NS | NS | U | NS | NA | |
| hardness, Total | -- | 1 | 116 | 28 | 112 | 90 | 56 | 12 | 160 | NS | NS | 15.3 | NS | 56 | |
| nitrate | 10 | 1 | U | 0.5 F | U | U | U | U | U | NS | NS | 0.57 F | NS | U | |
| TKN | 1 | 1 | U | 0.88 | 0.77 | 1 | 1 B | 0.45 B | 1.2 | NS | NS | **1.2** | NS | 0.29 | |
| sulfate | 250 | 1 | 7.5 | 3.8 | 5.4 | 2.1 | 2.9 | 1.4 | 13.2 | NS | NS | U | NS | 3.7 | |
| TDS | 500 | 10 | 144 | 59 | 172 | 88 | 65 | 45 | 189 | NS | NS | 46 | NS | 480 | |
| TOC | -- | 1 | 8.1 | 3.7 | 12.6 | 11.7 | 5.3 | U | 13.2 | NS | NS | 4.1 | NS | 3.7 | |
| Phenolics, Total | -- | 0.005 | U | 0.0032 F | U | U | U | U | 0.01 | NS | NS | U | NS | NA | |

For notes, please refer to the end of the tables section.

**Table 3-2**
**LF002 (Landfill 2/3 AOC) Groundwater and Surface Water Sampling Results (continued)**

| Location of Well | NYSDEC Class A Surface Water Standards | Reporting Limit | LF2SW-1 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 9/25/2007 | 3/31/2008 | | 9/18/2008 | 4/7/2009 | 3/29/2010 | 6/13/2011 | 6/5/2013 | 6/16/2015 | |
| Sample ID No. | | | LF2SW0101MA | LF2SW0101NA | | LF2SW0101OA | LF2SW0101PA | LF2SW0101QA | LF2SW0101RA | LF2SW0101SA | LF2SW0101TA | |
| Depth to Water (ft) | | | NS | Surface | | NS | Surface | Surface | Surface | Surface | Surface | |
| **VOCs (µg/L)** | | | | | | | | | | | | |
| acetone | 50 | 10 | NS | NS | | NS | NS | NS | NS | NS | NA | |
| 2-butanone (MEK) | 50 | 10 | NS | NS | | NS | NS | NS | NS | NS | NA | |
| toluene | 5 | 1 | NS | NS | | NS | NS | NS | NS | NS | NA | |
| **Metals (µg/L) [Dissolved / Total][1]** | | | | | | | | | | | | |
| aluminum | 100 | 200 | NS | **130 F** | **110 F** | NS | **41,000** | 72 F | NS | NS | NA | |
| antimony | 3 | 50 | NS | U | U | NS | U | U | NS | NS | NA | |
| arsenic | 50 | 30 | NS | U | U | NS | 13 F | U | NS | NS | NA | |
| barium | 1,000 | 50 | NS | 2.8 F | 2.8 F | NS | 220 | 6.9 FB | NS | NS | NA | |
| berylium | 3 | 4 | NS | U | U | NS | 1.6 F | U | NS | NS | NA | |
| boron, Total | 1,000 | 110 | NS | 14 B | 11 B | NS | 31 | 22 B | NS | NS | NA | |
| cadmium | 5 | 5 | NS | U | U | NS | U | U | NS | NS | NA | |
| calcium | -- | 1,100 | NS | 3,700 | 3,400 | NS | 41,000 | 19,000 B | NS | NS | NA | |
| chromium | 50 | 10 | NS | U | U | NS | 37 | U | NS | NS | NA | |
| cobalt | 5 | 60 | NS | U | U | NS | **18 F** | U | NS | NS | NA | |
| copper | 200 | 10 | NS | U | U | NS | 67 | U | NS | NS | NA | |
| iron | 300 | 200 | NS | 41 F | 78 F | NS | **66,000** | 240 | NS | NS | NA | |
| lead | 50 | 25 | NS | U | U | NS | 43 | U | NS | NS | NA | |
| magnesium | 35,000 | 1,000 | NS | 490 | 430 | NS | 12,000 | 2,200 B | NS | NS | NA | |
| manganese | 300 | 10 | NS | 60 | 74 | NS | **1,500** | 17 | NS | NS | NA | |
| molybdenum | -- | 15 | NS | U | U | NS | U | U | NS | NS | NA | |
| nickel | 100 | 20 | NS | U | U | NS | 44 | U | NS | NS | NA | |
| potassium | -- | 1,000 | NS | 500 F | 440 F | NS | 7,900 | 1,600 B | NS | NS | NA | |
| selenium | 10 | 30 | NS | U | U | NS | U | U | NS | NS | NA | |
| silver | 50 | 10 | NS | U | U | NS | U | U | NS | NS | NA | |
| sodium | -- | 1,000 | NS | 370 F | 300 F | NS | 1,800 | 930 FB | NS | NS | NA | |
| thallium | 0.5 | 80 | NS | U | U | NS | U | U | NS | NS | NA | |
| vanadium | -- | 10 | NS | U | U | NS | 64 | U | NS | NS | NA | |
| zinc | 2,000 | 20 | NS | 19 F | 16 F | NS | 270 | 24 B | NS | NS | NA | |
| mercury | 0.7 | 1 | NS | NA | NA | NS | NA | NA | NS | NS | NA | |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | NS | 12 | | NS | 66 | 50 | 140 | 190 | 94 | |
| ammonia | 2 | 0.2 | NS | U | | NS | 0.2 | U | 0.12 | 0.35 | 0.57 B | |
| BOD5 | -- | 2.4 | NS | 3.8 | | NS | 5.0 | U | 2.6 | 2.3 J | 8.4 | |
| bromide | 2 | 0.5 | NS | U | | NS | 0.019 F | U | U | U | U | |
| COD | -- | 5 | NS | 15 | | NS | 390 | 19 B | 46 | 120 | 58 | |
| chloride | 250 | 1 | NS | 0.53 F | | NS | 0.92 F | 0.50 F | 1.2 F | 0.53 J | 0.77 J | |
| color | 15 | 5 | NS | 15 | | NS | **50** | 15 | **30** | **50** | **200** | |
| cyanide, Total | 200 | 0.02 | NS | NA | | NS | NA | NA | NA | U | U | |
| hardness, Total | -- | 1 | NS | 20 | | NS | 110 | 57 | 140 | 200 | 150 | |
| nitrate | 10 | 1 | NS | U | | NS | 0.049 F | 0.015 F | U | U | U | |
| TKN | 1 | 1 | NS | 0.36 B | | NS | **7.9** | 0.78 B | 0.99 F | **3.4** | **1.1** | |
| sulfate | 250 | 1 | NS | 2.1 | | NS | 3.7 F | 3.5 | 0.60 F | 0.88 J | 1.1 | |
| TDS | 500 | 10 | NS | U | | NS | 100 | 100 | 180 | 220 | 100 | |
| TOC | -- | 1 | NS | 4.0 | | NS | 10 | 8.8 | 16 | 20 | 20 | |
| Phenolics, Total | -- | 0.005 | NS | NA | | NS | NA | NA | NA | U | U | |

For notes, please refer to the end of the tables section.

**Table 3-2**
**Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class A Surface Water Standards | Reporting Limit | LF2SW-2 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 12/4/2003 | 3/26/2004 | 6/25/2004 | 9/15/2004 | 12/13/2004 | 3/31/2005 | 6/21/2005 | 9/8/2005 | 12/16/2005 | 3/10/2006 | 9/13/2006 | 4/2/2007 | |
| Sample ID No. | | | LF2SW0201AA | LF2SW0201BA | LF2SW0201CA | LF2SW0201DA | LF2SW0201EA | LF2SW0201FA | Not Sampled | Not Sampled | Not Sampled | LF2SW0201JA | Not Sampled | LF2SW0201LA | |
| Depth to Water (ft) | | | Surface | Surface | Surface | Surface | Surface | Surface | NS | NS | NS | Surface | NS | Surface | |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | |
| acetone | 50 | 10 | 3.6 F | 3.1 F | 3.2 F | 3.7 F | 2.8 F | 11 | NS | NS | NS | 10 | NS | NA | |
| 2-butanone (MEK) | 50 | 10 | U | U | U | U | U | 1.4 F | NS | NS | NS | U | NS | NA | |
| toluene | 5 | 1 | U | U | 0.35 F | 0.28 F | U | U | NS | NS | NS | U | NS | NA | |
| **Metals (µg/L) [Dissolved / Total][1]** | | | | | | | | | | | | | | | |
| aluminum | 100 | 200 | **3,620** | **1,420** | **1,800** | **2,390** | **349** | 78.3 F | NS | NS | NS | 80.9 F | NS | U | 54 F |
| antimony | 3 | 50 | U | U | U | U | U | U | NS | NS | NS | U | NS | U | U |
| arsenic | 50 | 30 | U | U | U | 4.3 F | U | U | NS | NS | NS | U | NS | U | U |
| barium | 1,000 | 50 | 27 F | 13.8 F | 29.8 F | 36.9 F | 4.4 F | 4.2 F | NS | NS | NS | 2.8 F | NS | 6.5 F | 4.9 F |
| berylium | 3 | 4 | U | U | U | U | U | U | NS | NS | NS | U | NS | U | U |
| boron, Total | 1,000 | 110 | 20.7 | NA | NA | NA | NA | 7.4 F | NS | NS | NS | 6.3 F | NS | NA | NA |
| cadmium | 5 | 5 | U | U | U | U | U | U | NS | NS | NS | U | NS | U | U |
| calcium | -- | 1,100 | 31,600 | 19,100 | 50,200 | 42,800 | 12,200 | 9,000 | NS | NS | NS | 2,500 | NS | 17,000 J | 13,000 J |
| chromium | 50 | 10 | 3.1 F | 1.7 F | 1.6 F | 1 F | U | U | NS | NS | NS | 1.1 F | NS | 1.9 F | U |
| cobalt | 5 | 60 | 1.4 F | U | 0.9 F | U | U | U | NS | NS | NS | U | NS | U | U |
| copper | 200 | 10 | 4.8 F | U | 7.5 F | 4.3 F | U | 8.1 F | NS | NS | NS | 1.7 F | NS | U | U |
| iron | 300 | 200 | **4,020** | **1,450** | **3,410** | **5,160** | **398** | 203 | NS | NS | NS | 71.3 | NS | 93 F | 280 |
| lead | 50 | 25 | U | U | U | U | U | U | NS | NS | NS | U | NS | U | U |
| magnesium | 35,000 | 1,000 | 3,520 | 1,920 | 4,600 | 3,670 | 1,110 | 984 F | NS | NS | NS | 370 F | NS | 1,600 J | 1,200 J |
| manganese | 300 | 10 | **459** | 160 | **660** | **1,710** | 55.1 | 241 | NS | NS | NS | 13.2 | NS | 200 J | 140 J |
| molybdenum | -- | 15 | 2.1 F | U | U | U | U | 0.9 F | NS | NS | NS | 2,260 | NS | U | U |
| nickel | 100 | 20 | 2.8 F | U | 1.7 F | 1.8 F | U | U | NS | NS | NS | U | NS | U | U |
| potassium | -- | 1,000 | 3,560 | 1,430 | 4,270 | 5,310 | 2,030 | 2,760 | NS | NS | NS | U | NS | 1,900 | 1,600 |
| selenium | 10 | 30 | U | U | U | U | U | U | NS | NS | NS | U | NS | U | U |
| silver | 50 | 10 | U | U | U | U | U | U | NS | NS | NS | U | NS | U | U |
| sodium | -- | 1,000 | 892 F | 840 F | 1760 | 884 F | U | 237 F | NS | NS | NS | 1,100 | NS | 620 F | 550 F |
| thallium | 0.5 | 80 | U | U | U | U | U | U | NS | NS | NS | U | NS | U | U |
| vanadium | -- | 10 | 5.3 F | 2.6 F | 2.4 F | 4 F | U | U | NS | NS | NS | U | NS | U | U |
| zinc | 2,000 | 20 | 13.4 F | U | 9.3 F | 10.8 F | U | 6.7 F | NS | NS | NS | 16.1 F | NS | U | 6.3 F |
| mercury | 0.7 | 1 | U | NA | NA | NA | NA | U | NS | NS | NS | U | NS | NA | NA |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 83 | 42.4 | 107 | 122 | 36 | 33.6 | NS | NS | NS | 3.1 F | NS | 50 | |
| ammonia | 2 | 0.2 | U | U | 0.64 | 0.16 | U | 0.2 | NS | NS | NS | 0.35 | NS | 0.025 F | |
| BOD5 | -- | 2.4 | 3.9 | 2.2 | 4.1 | 4.2 | U | 7.6 | NS | NS | NS | U | NS | 2.2 | |
| bromide | 2 | 0.5 | U | U | U | U | U | U | NS | NS | NS | U | NS | 0.013 F | |
| COD | -- | 5 | 26.3 | 35.4 | 41.9 | 57.6 | U | 26.5 | NS | NS | NS | U | NS | 28 B | |
| chloride | 250 | 1 | 2.1 | 1.1 | 5.2 | 1.2 | 0.52 F | 0.65 F | NS | NS | NS | 2.4 | NS | 0.92 F | |
| color | 15 | 5 | **160** | NA | NA | NA | NA | **25 J** | NS | NS | NS | 15 | NS | NA | |
| cyanide, Total | 200 | 0.02 | U | NA | NA | NA | NA | U | NS | NS | NS | U | NS | NA | |
| hardness, Total | -- | 1 | 136 | 76 | 140 | 140 | 64 | 32 | NS | NS | NS | 1.5 F | NS | 40 | |
| nitrate | 10 | 1 | U | U | U | U | U | 0.06 F | NS | NS | NS | 0.74 F | NS | 0.064 F | |
| TKN | 1 | 1 | 1 | 0.42 | **1.6** | **1.2** | 0.63 B | 0.76 B | NS | NS | NS | 0.91 | NS | 0.25 | |
| sulfate | 250 | 1 | 11.1 | 4.9 | 8.4 | 1.8 | 3 | U | NS | NS | NS | 3.5 | NS | 1.9 | |
| TDS | 500 | 10 | 148 | 89 | 180 | 154 | 68 | 45 | NS | NS | NS | 31 | NS | 53 | |
| TOC | -- | 1 | 5.9 | 3.3 | 10.8 | 11.8 | 4.1 | 5.2 | NS | NS | NS | 5.2 | NS | 3.9 | |
| Phenolics, Total | -- | 0.005 | U | U | U | U | U | U | NS | NS | NS | U | NS | NA | |

For notes, please refer to the end of the tables section.

**Table 3-2**
**Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class A Surface Water Standards | Reporting Limit | LF2SW-2 | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Date of Collection** | | | **9/25/2007** | **3/31/2008** | | **9/18/2008** | **4/8/2009** | **3/29/2010** | **6/13/2011** | **6/5/2013** | **6/16/2015** | | | |
| **Sample ID No.** | | | **LF2SW0201MA** | **LF2SW0201NA** | | **LF2SW0201OA** | **LF2SW0201PA** | **LF2SW0201QA** | **LF2SW0201RA** | **LF2SW0201SA** | **LF2SW0201TA** | | | |
| **Depth to Water (ft)** | | | **NS** | **Surface** | | **NS** | **Surface** | **Surface** | **Surface** | **Surface** | **Surface** | | | |
| **VOCs (µg/L)** | | | | | | | | | | | | | | |
| acetone | 50 | 10 | NS | NS | | NS | NS | NS | NS | NS | NA | | | |
| 2-butanone (MEK) | 50 | 10 | NS | NS | | NS | NS | NS | NS | NS | NA | | | |
| toluene | 5 | 1 | NS | NS | | NS | NS | NS | NS | NS | NA | | | |
| **Metals (µg/L) [Dissolved / Total][1]** | | | | | | | | | | | | | | |
| aluminum | 100 | 200 | NS | 54 F | **430 B** | NS | U | U | NS | NS | NA | | | |
| antimony | 3 | 50 | NS | U | U | NS | U | U | NS | NS | NA | | | |
| arsenic | 50 | 30 | NS | U | U | NS | U | U | NS | NS | NA | | | |
| barium | 1,000 | 50 | NS | 9.7 F | 12 F | NS | 11 F | 9.0 FB | NS | NS | NA | | | |
| berylium | 3 | 4 | NS | U | U | NS | U | U | NS | NS | NA | | | |
| boron, Total | 1,000 | 110 | NS | 11 B | 11 B | NS | 14 | 25 B | NS | NS | NA | | | |
| cadmium | 5 | 5 | NS | U | U | NS | U | U | NS | NS | NA | | | |
| calcium | -- | 1,100 | NS | 27,000 | 25,000 | NS | 41,000 | 43,000 B | NS | NS | NA | | | |
| chromium | 50 | 10 | NS | U | U | NS | U | U | NS | NS | NA | | | |
| cobalt | 5 | 60 | NS | U | U | NS | U | U | NS | NS | NA | | | |
| copper | 200 | 10 | NS | U | 2.3 F | NS | U | U | NS | NS | NA | | | |
| iron | 300 | 200 | NS | 180 F | **800** | NS | 160 F | 52 F | NS | NS | NA | | | |
| lead | 50 | 25 | NS | U | U | NS | U | U | NS | NS | NA | | | |
| magnesium | 35,000 | 1,000 | NS | 2,200 | 2,100 | NS | 4,300 | 4,700 B | NS | NS | NA | | | |
| manganese | 300 | 10 | NS | 240 | 290 | NS | 42 | 30 | NS | NS | NA | | | |
| molybdenum | -- | 15 | NS | U | U | NS | U | U | NS | NS | NA | | | |
| nickel | 100 | 20 | NS | U | U | NS | U | U | NS | NS | NA | | | |
| potassium | -- | 1,000 | NS | 1,500 | 1,600 | NS | 2,100 | 2,900 B | NS | NS | NA | | | |
| selenium | 10 | 30 | NS | U | U | NS | U | U | NS | NS | NA | | | |
| silver | 50 | 10 | NS | U | U | NS | U | U | NS | NS | NA | | | |
| sodium | -- | 1,000 | NS | 590 F | 540 F | NS | 930 F | 1,200 B | NS | NS | NA | | | |
| thallium | 0.5 | 80 | NS | U | U | NS | U | U | NS | NS | NA | | | |
| vanadium | -- | 10 | NS | U | 1.1 F | NS | U | U | NS | NS | NA | | | |
| zinc | 2,000 | 20 | NS | 14 F | 18 F | NS | 13 F | 10 FB | NS | NS | NA | | | |
| mercury | 0.7 | 1 | NS | NA | NA | NS | NS | NS | NS | NS | NA | | | |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | NS | 70 | | NS | 120 | 130 | 180 | NS | 84 | | | |
| ammonia | 2 | 0.2 | NS | U | | NS | 0.029 F | U | 0.15 | NS | 0.18 | | | |
| BOD5 | -- | 2.4 | NS | 6.9 | | NS | U | U | U | NS | 4.8 | | | |
| bromide | 2 | 0.5 | NS | U | | NS | 0.021 F | U | U | NS | 0.13 J | | | |
| COD | -- | 5 | NS | 44 | | NS | 27 | 22 B | 35 | NS | 73 | | | |
| chloride | 250 | 1 | NS | 0.81 F | | NS | 0.54 F | 0.51 F | 1.0 F | NS | 9.3 | | | |
| color | 15 | 5 | NS | **30** | | NS | **25** | **20** | **50** | NS | **150** | | | |
| cyanide, Total | 200 | 0.02 | NS | NA | | NS | NA | NA | NA | NS | U | | | |
| hardness, Total | -- | 1 | NS | 68 | | NS | 130 | 130 | 170 | NS | 130 | | | |
| nitrate | 10 | 1 | NS | 0.018 F | | NS | 0.033 F | 0.014 F | U | NS | **U** | | | |
| TKN | 1 | 1 | NS | **1.2** | | NS | 0.23 | 0.61 B | **1.1** | NS | **2.1** | | | |
| sulfate | 250 | 1 | NS | 2.7 | | NS | 3.1 | 2.7 | 0.67 F | NS | 5.7 | | | |
| TDS | 500 | 10 | NS | 67 | | NS | 69 | 160 | 210 | NS | 130 | | | |
| TOC | -- | 1 | NS | 8.6 | | NS | 6.2 | 8.5 | 12 | NS | 13 | | | |
| Phenolics, Total | -- | 0.005 | NS | NA | | NS | NA | NA | NA | NS | U | | | |

For notes, please refer to the end of the tables section.

**Table 3-2**
**Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class A Surface Water Standards | Reporting Limit | LF2SW-3 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 12/4/2003 | 3/26/2004 | 6/25/2004 | 9/15/2004 | 12/14/2004 | 3/31/2005 | 6/21/2005 | 9/8/2005 | 12/16/2005 | 3/10/2006 | 9/13/2006 | 4/2/2007 | |
| Sample ID No. | | | Not Sampled | LF2SW0301BA | Not Sampled | Not Sampled | LF2SW0301EA | LF2SW0301FA | Not Sampled | Not Sampled | Not Sampled | LF2SW0301JA | Not Sampled | LF2SW0301LA | |
| Depth to Water (ft) | | | Surface | Surface | NS | NS | Surface | Surface | NS | NS | NS | Surface | NS | Surface | |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | |
| acetone | 50 | 10 | NS | U | NS | NS | U | 1.5 F | NS | NS | NS | U | NS | NA | |
| 2-butanone (MEK) | 50 | 10 | NS | U | U | NS | U | U | NS | NS | NS | U | NS | NA | |
| toluene | 5 | 1 | NS | U | NS | NS | U | U | NS | NS | NS | U | NS | NA | |
| **Metals (µg/L) [Dissolved / Total][1]** | | | | | | | | | | | | | | | |
| aluminum | 100 | 200 | NS | **1,580** | NS | NS | 59.8 | **320** | NS | NS | NS | **1,720** | NS | U | U |
| antimony | 3 | 50 | NS | U | NS | NS | U | U | NS | NS | NS | U | NS | U | U |
| arsenic | 50 | 30 | NS | U | NS | NS | U | U | NS | NS | NS | U | NS | U | U |
| barium | 1,000 | 50 | NS | 14.1 F | NS | NS | 6.7 F | 11.5 F | NS | NS | NS | 23 F | NS | 5.3 F | 3.6 F |
| berylium | 3 | 4 | NS | U | NS | NS | U | U | NS | NS | NS | U | NS | U | U |
| boron, Total | 1,000 | 110 | NS | NA | NS | NS | NA | 18.5 | NS | NS | NS | 11.3 | NS | NA | NA |
| cadmium | 5 | 5 | NS | U | NS | NS | U | U | NS | NS | NS | U | NS | U | U |
| calcium | -- | 1,100 | NS | 19,200 | NS | NS | 45,800 | 37,000 | NS | NS | NS | 29,400 | NS | 63,000 | 60,000 |
| chromium | 50 | 10 | NS | 1.5 F | NS | NS | U | U | NS | NS | NS | 2.4 F | NS | 5.3 F | 2.8 F |
| cobalt | 5 | 60 | NS | U | NS | NS | U | U | NS | NS | NS | U | NS | U | U |
| copper | 200 | 10 | NS | U | NS | NS | U | 4.1 F | NS | NS | NS | 4.4 F | NS | U | U |
| iron | 300 | 200 | NS | **1,380** | NS | NS | 24.8 | 298 | NS | NS | NS | **1,700** | NS | 29 F | 25 F |
| lead | 50 | 25 | NS | U | NS | NS | U | 2.7 F | NS | NS | NS | 4.2 F | NS | U | U |
| magnesium | 35,000 | 1,000 | NS | 2,190 | NS | NS | 8,700 | 5,900 | NS | NS | NS | 3,920 | NS | 12,000 | 12,000 |
| manganese | 300 | 10 | NS | 44.4 | NS | NS | 82.2 | **377** | NS | NS | NS | 296 | NS | **6,600** | **7,100** |
| molybdenum | -- | 15 | NS | U | NS | NS | U | 0.6 F | NS | NS | NS | U | NS | U | U |
| nickel | 100 | 20 | NS | U | NS | NS | U | U | NS | NS | NS | 1.9 F | NS | 1.3 F | 1.3 F |
| potassium | -- | 1,000 | NS | 1,370 | NS | NS | 580 F | 1,090 | NS | NS | NS | 1,610 | NS | 1,200 | 1,100 |
| selenium | 10 | 30 | NS | U | NS | NS | U | U | NS | NS | NS | U | NS | U | 4.8 F |
| silver | 50 | 10 | NS | U | NS | NS | U | U | NS | NS | NS | U | NS | U | U |
| sodium | -- | 1,000 | NS | 929 F | NS | NS | 3,910 | 2,450 | NS | NS | NS | 2,080 | NS | 5,800 | 6,200 |
| thallium | 0.5 | 80 | NS | U | NS | NS | U | U | NS | NS | NS | U | NS | U | U |
| vanadium | -- | 10 | NS | 3.2 F | NS | NS | U | U | NS | NS | NS | 3.2 F | NS | U | U |
| zinc | 2,000 | 20 | NS | 6.7 F | NS | NS | U | 5.2 F | NS | NS | NS | 11.2 F | NS | U | U |
| mercury | 0.7 | 1 | NS | NA | NS | NS | NA | U | NS | NS | NS | U | NS | NA | NA |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | NS | 49 | NS | NS | 136 | 116 | NS | NS | NS | 76 | NS | 200 | |
| ammonia | 2 | 0.2 | NS | U | NS | NS | 0.1 | 0.059 | NS | NS | NS | U | NS | 0.19 | |
| BOD5 | -- | 2.4 | NS | U | NS | NS | U | U | NS | NS | NS | U | NS | U | |
| bromide | 2 | 0.5 | NS | U | NS | NS | U | U | NS | NS | NS | U | NS | 0.088 F | |
| COD | -- | 5 | NS | 18.7 | NS | NS | U | 13.1 | NS | NS | NS | 15.8 | NS | 26 B | |
| chloride | 250 | 1 | NS | 1.4 | NS | NS | 6.5 | 3.4 | NS | NS | NS | 2.6 | NS | 9.0 | |
| color | 15 | 5 | NS | NA | NS | NS | NA | **20 J** | NS | NS | NS | **25** | NS | NA | |
| cyanide, Total | 200 | 0.02 | NS | NA | NS | NS | NA | U | NS | NS | NS | U | NS | NA | |
| hardness, Total | -- | 1 | NS | 60 | NS | NS | 156 | 120 | NS | NS | NS | 75.3 | NS | 230 | |
| nitrate | 10 | 1 | NS | 0.21 F | NS | NS | 0.05 F | 0.18 F | NS | NS | NS | 0.4 F | NS | 0.055 F | |
| TKN | 1 | 1 | NS | 0.38 | NS | NS | 0.35 | **1.4** | NS | NS | NS | 0.72 | NS | 0.41 | |
| sulfate | 250 | 1 | NS | 4.7 | NS | NS | 10.2 | 7.3 | NS | NS | NS | 10.6 | NS | 9.9 | |
| TDS | 500 | 10 | NS | 95 | NS | NS | 200 | 138 | NS | NS | NS | 118 | NS | 260 | |
| TOC | -- | 1 | NS | 2.9 | NS | NS | 2.7 | 3.3 | NS | NS | NS | 21.6 | NS | 2.1 | |
| Phenolics, Total | -- | 0.005 | NS | 0.0098 F | NS | NS | U | U | NS | NS | NS | U | NS | NA | |

For notes, please refer to the end of the tables section.

**Table 3-2**
**Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class A Surface Water Standards | Reporting Limit | LF2SW-3 | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Date of Collection** | | | **9/25/2007** | **3/31/2008** | | **9/18/2008** | **4/8/2009** | **3/29/2010** | **6/13/2011** | **6/5/2013** | **6/16/2015** | | | |
| **Sample ID No.** | | | **LF2SW0301MA** | **LF2SW0301NA** | | **LF2SW0301OA** | **LF2SW0301PA** | **LF2SW0301QA** | **LF2SW0301RA** | **LF2SW0301SA** | **LF2SW0301TA** | | | |
| **Depth to Water (ft)** | | | **NS** | **Surface** | | **NS** | **Surface** | **NS** | **Surface** | **Surface** | **Surface** | | | |
| **VOCs (µg/L)** | | | | | | | | | | | | | | |
| acetone | 50 | 10 | NA | NA | | NA | NA | NA | NA | NA | NA | | | |
| 2-butanone (MEK) | 50 | 10 | NA | NA | | NA | NA | NA | NA | NA | NA | | | |
| toluene | 5 | 1 | NA | NA | | NA | NA | NA | NA | NA | NA | | | |
| **Metals (µg/L) [Dissolved / Total][1]** | | | | | | | | | | | | | | |
| aluminum | 100 | 200 | NS | **160 F** | **280 B** | NS | 86 F | NS | NS | NS | NA | | | |
| antimony | 3 | 50 | NS | U | 2.1 F | NS | U | NS | NS | NS | NA | | | |
| arsenic | 50 | 30 | NS | U | U | NS | U | NS | NS | NS | NA | | | |
| barium | 1,000 | 50 | NS | 6.3 F | 7.4 F | NS | 5.8 F | NS | NS | NS | NA | | | |
| berylium | 3 | 4 | NS | U | U | NS | U | NS | NS | NS | NA | | | |
| boron, Total | 1,000 | 110 | NS | 24 B | 9.6 F | NS | 16 | NS | NS | NS | NA | | | |
| cadmium | 5 | 5 | NS | U | U | NS | U | NS | NS | NS | NA | | | |
| calcium | -- | 1,100 | NS | 22,000 | 22,000 | NS | 49,000 | NS | NS | NS | NA | | | |
| chromium | 50 | 10 | NS | U | U | NS | U | NS | NS | NS | NA | | | |
| cobalt | 5 | 60 | NS | U | U | NS | U | NS | NS | NS | NA | | | |
| copper | 200 | 10 | NS | U | U | NS | U | NS | NS | NS | NA | | | |
| iron | 300 | 200 | NS | 80 F | **330** | NS | 72 F | NS | NS | NS | NA | | | |
| lead | 50 | 25 | NS | U | U | NS | U | NS | NS | NS | NA | | | |
| magnesium | 35,000 | 1,000 | NS | 2,600 | 2,600 | NS | 7,700 | NS | NS | NS | NA | | | |
| manganese | 300 | 10 | NS | 2.5 F | 67 | NS | 29 | NS | NS | NS | NA | | | |
| molybdenum | -- | 15 | NS | U | U | NS | U | NS | NS | NS | NA | | | |
| nickel | 100 | 20 | NS | U | U | NS | U | NS | NS | NS | NA | | | |
| potassium | -- | 1,000 | NS | 830 F | 850 F | NS | 720 F | NS | NS | NS | NA | | | |
| selenium | 10 | 30 | NS | U | U | NS | U | NS | NS | NS | NA | | | |
| silver | 50 | 10 | NS | U | U | NS | U | NS | NS | NS | NA | | | |
| sodium | -- | 1,000 | NS | 890 F | 830 F | NS | 2,900 | NS | NS | NS | NA | | | |
| thallium | 0.5 | 80 | NS | U | U | NS | U | NS | NS | NS | NA | | | |
| vanadium | -- | 10 | NS | U | U | NS | U | NS | NS | NS | NA | | | |
| zinc | 2,000 | 20 | NS | 11 F | 13 F | NS | 17 F | NS | NS | NS | NA | | | |
| mercury | 0.7 | 1 | NS | NA | NA | NS | NA | NS | NS | NS | NA | | | |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | NS | 70 | | NS | 140 | NS | 170 | NS | 84 | | | |
| ammonia | 2 | 0.2 | NS | U | | NS | 0.029 F | NS | 0.18 | NS | 0.18 B | | | |
| BOD5 | -- | 2.4 | NS | U | | NS | 2.2 | NS | 9.5 | NS | 4.8 | | | |
| bromide | 2 | 0.5 | NS | U | | NS | 0.030 F | NS | U | NS | 0.13 J | | | |
| COD | -- | 5 | NS | 35 | | NS | 23 | NS | 29 | NS | 73 | | | |
| chloride | 250 | 1 | NS | 0.91 F | | NS | 3.3 | NS | 1.7 F | NS | 9.3 | | | |
| color | 15 | 5 | NS | **25** | | NS | 15 | NS | **35** | NS | **150** | | | |
| cyanide, Total | 200 | 0.02 | NS | NA | | NS | NA | NS | NA | NS | U | | | |
| hardness, Total | -- | 1 | NS | 72 | | NS | 160 | NS | 180 | NS | 130 | | | |
| nitrate | 10 | 1 | NS | U | | NS | 0.34 | NS | U | NS | **U** | | | |
| TKN | 1 | 1 | NS | 0.41 B | | NS | 0.21 | NS | 0.87 F | NS | **2.1** | | | |
| sulfate | 250 | 1 | NS | 4.9 | | NS | 8.7 | NS | 4.2 | NS | 5.7 | | | |
| TDS | 500 | 10 | NS | 68 | | NS | 130 | NS | 200 | NS | 130 | | | |
| TOC | -- | 1 | NS | 5.1 | | NS | 3.2 | NS | 6.9 | NS | 13 | | | |
| Phenolics, Total | -- | 0.005 | NS | NA | | NS | NA | NS | NA | NS | U | | | |

For notes, please refer to the end of the tables section.

**Table 3-3**
**LF002 (Landfill 2/3 AOC) LTM Network**

| Sampling Locations | Screen Interval Depth (ft MSL) | Sampling Rationale | Target Analytes/ Method Numbers[1] | Matrix | # of Samples | Current Sampling Frequency | 2016 Recommended Sampling Frequency | Evaluation Criteria |
|---|---|---|---|---|---|---|---|---|
| **Groundwater**<br>LF2MW2-1<br>LF2MW-4<br>LF2MW-12<br>LF2MW-13<br>LF2MW-14<br>LF2MW-100<br><br>**Surface Water**<br>LF2SW-1<br>LF2SW-2<br>LF2SW-3 | <br>516.28' – 506.28'<br>526.17' – 516.19'<br>521.5'– 511.5'<br>519.98' – 509.98'<br>531.35' – 521.35'<br>475.2'– 465.2'<br><br>Depth to groundwater ranged from 3.12 to 29.79 ft bgs. | ----------<br>Downgradient from potential source<br>Downgradient from potential source<br>Downgradient from potential source<br>Downgradient from potential source<br>Upgradient from potential source<br>Downgradient from potential source<br><br>Potential contaminant receptor<br>Potential contaminant receptor<br>Potential contaminant receptor | <u>Landfill Leachate Indicators:</u><br>Anions – SW9056<br>Nitrogen (TKN) – 351.2<br>Ammonia – 350.1<br>COD – 410.4<br>BOD – 405.1<br>TOC – SW9060<br>TDS – 160.1<br>Alkalinity – 310.2<br>Phenols – SW9066<br>Hardness – 130.2<br>Color – 110.2<br>Boron – SW6010B | Water | 9 | Biennially | Biennially | If downgradient wells do not exhibit exceedances of NYS Groundwater Standards or Base background levels for two successive monitoring events, evaluate monitoring frequency and number of wells. |
| **Gas Sampling**<br>Gas monitoring probes/vents | | In accordance with 6 NYCRR 360-2.17(f) | Methane (FID/CGI) | Gas | 9 probes<br>14 vents | Semiannually | Annually | |

[1] Baseline parameters based on 6 NYCRR Part 360, Subpart 2, Appendix A.

**Table 4-1**
**Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF7MW-22 | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 1/12/1999[8] | 2/7/2003 | 6/17/2003 | 9/10/2003 | 12/3/2003 | 3/24/2004 | 6/24/2004 | 9/15/2004 | 12/9/2004 | 3/30/2005 | 6/21/2005 | 9/7/2005 |
| Sample ID No. | | | LF7M2203AA | LF7MW2210AA | LF7MW2210BB | LF7M2208CA | LF7M2208DA | LF7M2208EA | LF7M2208FA | LF7M2208GA | LF7M2208HA | LF7M2208IA | LF7M2208JA | LF7M2208KA |
| Depth to Water (ft) | | | 3.23 | 2.89 | 2.54 | 1.61 | 0.41 | 0.00 | 0.54 | 0.98 | 0.55 | 0.00 | 1.37 | 2.05 |
| **VOCs (µg/L)** | | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 5* | 1 | U | U | U | U | U | U | NA | NA | NA | U | NA | NA |
| 1,1-dichloroethene | 5* | 1 | 0.36 F | U | U | U | U | U | NA | NA | NA | U | NA | NA |
| benzene | 1 | 0.1 | 0.22 F | U | U | U | U | U | NA | NA | NA | U | NA | NA |
| cis-1,2-dichloroethene | 5* | 1 | 3.58 | 0.26 F | 0.69 F ♦ | 2.7 | U | U | U | U | U | U | U | U |
| methylene chloride | 5* | 1 | 0.48 F | U | U | U | U | U | NA | NA | NA | U | NA | NA |
| trichloroethene (TCE) | 5* | 1 | **18.3** | **6.15** | **7.5 J ♦** | **26** | 0.42 F | 2.5 | **8.5** | 3 | 1.4 | 0.97 F | **11.8** | 1.9 |
| toluene | 5* | 1 | U | U | U | U | U | U | NA | NA | NA | U | NA | NA |
| trans-1,2-dichloroethene | 5* | 1 | U | U | U | 0.39 F | U | U | U | U | U | U | U | U |
| **Metals (µg/L) [Dissolved / Total][1]** | | | | | | | | | | | | | | |
| aluminum | 2,000 | 200 | 0.83 J | U | 73.3 F | 180 F | 97.1 F | 250 | U | 83.4 F | U | 132 F | U | 50.2 F |
| antimony | 3 | 50 | U | U | U | U | U | U | U | U | U | U | U | U |
| arsenic | 25 | 30 | U | U | U | U | U | U | U | U | U | U | U | U |
| barium | 1,000 | 50 | 0.0661 | 73.7 | 79.5 | 53.1 | 86.8 | 88.8 | 88.4 | 98.1 | 110 | 103 | 89.7 | 116 |
| berylium | 3 | 4 | U | U | U | U | U | 0.6 F | U | U | U | 0.3 F | U | U |
| boron, Total | 1,000 | 110 | 287 | 285.6 | 257 B | NA | NA | 288 | NA | NA | NA | 278 | NA | NA |
| cadmium | 5 | 5 | 1.2 F | U | U | U | U | U | U | U | U | U | U | U |
| calcium | -- | 1,100 | 177,210 | 189,058.5 | 166,000 | 133,000 | 177,000 | 186,000 | 185,000 | 177,000 | 177,000 | 197,000 | 156,000 | 180,000 |
| chromium | 50 | 10 | 1 F | U | U | U | U | U | U | U | U | U | U | U |
| cobalt | -- | 60 | 0.4 F | U | U | U | U | U | U | U | U | U | U | U |
| copper | 200 | 10 | U | U | U | U | 4.5 F | 6.8 F | 2 F | U | 1.8 F | 7.3 F | 2.1 F | U |
| iron | 300 | 200 | **7,401 J** | **6,278.7** | **8,730** | **4,280** | **5,240** | **11,500** | **6,990** | **6,550** | **6,340** | **10,500** | **5,960** | **9,640** |
| lead | 25 | 25 | U | U | U | U | U | U | U | U | U | U | U | U |
| magnesium | 35,000 | 1,000 | 22,645 | **50,165.2** | 25,300 | 22,200 | **43,700** | **49,700** | **36,900** | **39,500** | **42,100** | **50,400** | **35,700** | **37,400** |
| manganese | 300 | 10 | **1,914** | **919.8** | **2,090** | **1,330** | **937** | **808** | **1,780** | **1,090** | **1,090** | **888** | **887** | **1,160** |
| molybdenum | -- | 15 | 1 | 4.5 F | U | U | U | U | U | U | U | U | U | U |
| nickel | 100 | 20 | 2 F | U | U | U | U | U | U | U | U | U | 2.6 F | U |
| potassium | -- | 1,000 | 7,117 | 4,824.4 | 6,400 | 5,000 | 6,760 | 5,080 | 6,410 | 7,470 | 7,180 | 5,140 | 5,130 | 7,540 |
| selenium | -- | 30 | U | U | U | U | U | U | U | U | U | U | U | U |
| silver | 50 | 10 | 3 F | U | U | U | U | U | U | U | U | U | U | U |
| sodium | 20,000 | 1,000 | 10,670 | **20,185.6** | 9,860 | 5,840 | 18,200 | 19,200 | 14,500 | 15,700 | 16,900 | 19,000 | 13,700 | 14,300 |
| thallium | 0.5 | 80 | U | U | U | U | U | U | U | U | U | U | U | U |
| vanadium | -- | 10 | 4 F | U | U | U | U | U | U | U | U | U | U | U |
| zinc | 2,000 | 20 | 10 J | 4.1 F | U | U | 35.5 | 7.5 F | U | U | U | 7.3 F | 4 F | 6.8 F |
| mercury | 0.7 | 1 | U | U | U | NA | NA | U | NA | NA | NA | U | NA | NA |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 478 | 610 | 421 | 403 | 595 | 622 | 483 | 594 | 606 | 642 | 603 | 601 |
| ammonia | 2 | 0.2 | 0.700 J | 0.42 | 0.77 | 0.61 | 0.61 | 0.44 | 0.65 | 0.83 | 0.74 | 0.52 | 0.39 | 0.84 |
| BOD5 | -- | 2.4 | U | U | U | 5.7 | U | U | 2.8 | U | U | U | U | U |
| bromide | 2 | 0.5 | 0.20 F | U | U | U | U | 0.25 F | 0.24 F | 0.31 F | 0.23 F | 0.31 F | 0.24 F | 0.36 F |
| COD | -- | 5 | U | U | 23.6 | U | U | 10.8 | 6 F | U | 10.5 | U | 5.3 F | U |
| chloride | 250 | 1 | 7.15 F | 17.9345 | 3.3 | 6.4 | 11.3 | 12.3 | 13.1 | 13.1 | 15.9 | 16.2 | 18.1 | 16.5 |
| color | 15 | 5 | **25** | **150 R** | **20** | NA | NA | **40** | NA | NA | NA | **200 J** | NA | NA |
| fluoride | 1.5 | 1 | U | U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| hardness, Total | -- | 1 | 475 J | 678.51 | 522 | 463 | 790 | 670 | 612 | 640 | 668 | 655 | 690 | 72.7 |
| nitrate | 10 | 1 | U | U | 2.0 | U | U | U | 0.027 F | U | U | U | U | U |
| TKN | 1 | 1 | U | **1.68** | **1.1** | **1.1** | **1.6** | U | **1.2 B** | **1.3** | 1 | **1.8** | **1.2** | **1.5** |
| sulfate | 250 | 1 | 92.50 F | 87.2678 | 4.8 | 55.5 | 82.6 | 83.2 | 85.5 | 69.8 | 72.3 | 79.7 | 72.2 | 55.4 |
| TDS | 500 | 10 | **623** | **731** | 306 | **566** | **716** | **759** | **677** | **673** | **696** | **719** | **693** | **722** |
| TOC | -- | 1 | 3.99 | 3.05 | 1.6 | U | 3.1 | 3.1 | 1.6 | 3 | 3.3 | 2.6 | 3.2 | 4.7 |
| phenolics, Total | -- | 0.005 | 0.0026 UJ | 0.11245 | U | U | U | 0.0039 F | U | U | U | U | U | U |

For notes, please refer to the end of the tables section.

**Table 4-2**
**Groundwater and Surface Water Sampling Results (continued)**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF7MW-22 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 12/15/2005 | 3/10/2006 | 9/14/2006 | | 3/28/2007 | | 9/25/2007 | | 3/28/2008 | | 9/16/2008 | 4/21/2009 | 4/1/2010 | 6/21/2011 | 6/24/2013 | 6/25/2015 |
| Sample ID No. | | | LF7M2208LA | LF7M2208MA | LF7M2208NA | | LF7M2208OA | | LF7M2208PA | | LF7M2208QA | | LF7M2208RA | LF7M2208SA | LF7M2208TA | LF7M2208UA | LF7M2210VA | LF7M2208WA |
| Depth to Water (ft) | | | 1.66 | 0.00 | 1.37 | | 0.00 | | 2.63 | | 0.00 | | 3.20 | 0.44 | 0.00 | 1.60 | 2.25 | 1.85 |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 5* | 1 | NA | NA | NS | | NS | | NS | | NS | | NS | NS | NS | NA | NA | NA |
| 1,1-dichloroethene | 5* | 1 | NA | NA | NS | | NS | | NS | | NS | | NS | NS | NS | NA | NA | NA |
| benzene | 1 | 0.1 | NA | NA | NS | | NS | | NS | | NS | | NS | NS | NS | NA | NA | NA |
| cis-1,2-dichloroethene | 5* | 1 | U | U | NS | | NS | | NS | | NS | | NS | NS | NS | NA | NA | NA |
| methylene chloride | 5* | 1 | NA | NA | NS | | NS | | NS | | NS | | NS | NS | NS | NA | NA | NA |
| trichloroethene (TCE) | 5* | 1 | 0.92 F | 0.93 F | NS | | NS | | NS | | NS | | NS | NS | NS | NA | NA | NA |
| toluene | 5* | 1 | NA | NA | NS | | NS | | NS | | NS | | NS | NS | NS | NA | NA | NA |
| trans-1,2-dichloroethene | 5* | 1 | U | U | NS | | NS | | NS | | NS | | NS | NS | NS | NA | NA | NA |
| **Metals (µg/L) [Dissolved / Total][1]** | | | | | | | | | | | | | | | | | | |
| aluminum | 2,000 | 200 | 228 | 637 | U | 160 F | 52 F | 95 F | U | 250 | U | 48 F | 53 F | 190 F | 360 | NA | NA | NA |
| antimony | 3 | 50 | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA |
| arsenic | 25 | 30 | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA |
| barium | 1,000 | 50 | 132 | 134 | 127 | 123 | 110 | 120 | 130 | 140 | 110 | 110 | 150 | 120 | 120 | NA | NA | NA |
| berylium | 3 | 4 | 0.4 F | 0.5 F | U | U | U | U | U | U | U | 0.17 F | U | U | U | NA | NA | NA |
| boron, Total | 1,000 | 110 | NA | 288 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| cadmium | 5 | 5 | U | U | U | U | 0.57 F | 1.0 F | U | U | U | U | U | U | U | NA | NA | NA |
| calcium | -- | 1,100 | 191,000 | 204,000 | 186,000 | 184,000 | 200,000 | 210,000 | 180,000 | 190,000 | 200,000 | 200,000 | 200,000 | 190,000 | 180,000 | NA | NA | NA |
| chromium | 50 | 10 | 1 F | 2.1 F | 2.9 F | 4.07 F | 6.9 F | 8.8 F | 4F | 4.2F | 4.4 F | 5.1 F | 3.5 F | 5.0 F | U | NA | NA | NA |
| cobalt | -- | 60 | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA |
| copper | 200 | 10 | 3.5 F | 5.6 F | U | U | U | U | U | 4.6F | U | U | U | U | U | NA | NA | NA |
| iron | 300 | 200 | **12,900** | **33,100** | **6,610** | **10,800** | **5,100** | **12,000** | **6,700** | **15,000** | **5,400** | **7,500** | **10,000** | **11,000** | **8,100** | NA | NA | NA |
| lead | 25 | 25 | U | 2.5 F | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA |
| magnesium | 35,000 | 1,000 | **43,400** | **51,900** | **37,200** | **36,400** | **52,000** | **53,000** | **36,000** | **36,000** | **51,000** | **50,000** | **39,000** | **45,000** | **47,000** | NA | NA | NA |
| manganese | 300 | 10 | **1,130** | **963** | **1,250** | **1,270** | **840** | **860** | **1,200** | **1,300** | **870** | **850** | **1,300** | **1,000** | **880** | NA | NA | **NA** |
| molybdenum | -- | 15 | U | 1.7 F | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA |
| nickel | 100 | 20 | U | 2.1 F | 1.13 F | U | U | U | U | 1.5F | U | U | U | 2.2 F | U | NA | NA | NA |
| potassium | -- | 1,000 | 7,270 | 5,630 | 7,750 | 7,730 | 5,200 | 5,400 | 7,800 | 7,800 | 5,400 | 5,300 | 8,000 | 5,200 | 5,700 | NA | NA | NA |
| selenium | -- | 30 | U | U | U | U | U | U | U | U | U | U | 2.9 F | U | U | NA | NA | NA |
| silver | 50 | 10 | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA |
| sodium | 20,000 | 1,000 | 17,300 | 19,700 | 14,700 | 14,400 | **21,000** | **21,000** | 15,000 | 15,000 | **21,000** | **20,000** | 17,000 | 18,000 | 18,000 | NA | NA | NA |
| thallium | 0.5 | 80 | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA |
| vanadium | -- | 10 | 1 F | 2.6 F | U | 1 F | U | U | U | .92F | U | U | U | U | U | NA | NA | NA |
| zinc | 2,000 | 20 | 8.5 F | 9.2 F | 15.6 F | 31.6 | U | U | 23.0 | 29.0 | 1.0 F | 1.1 F | 19 F | 17 F | 23 | NA | NA | NA |
| mercury | 0.7 | 1 | NA | U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 605 | 633 | NS | | NS | | NS | | NS | | NS | NS | NS | 410 | 510 | 510 |
| ammonia | 2 | 0.2 | 0.81 | 0.59 | NS | | NS | | NS | | NS | | NS | NS | NS | 0.73 | 0.93 | 1.1 |
| BOD5 | -- | 2.4 | U | U | NS | | NS | | NS | | NS | | NS | NS | NS | 1.8 F | 2.8 B | U |
| bromide | 2 | 0.5 | 0.32 F | 0.49 F | NS | | NS | | NS | | NS | | NS | NS | NS | 0.11 F | 0.24 J | 0.23 |
| COD | -- | 5 | U | U | NS | | NS | | NS | | NS | | NS | NS | NS | 7.0 F | 15 J | U |
| chloride | 250 | 1 | 20.4 | 19.5 | NS | | NS | | NS | | NS | | NS | NS | NS | 22 | 34 | 29 |
| color | 15 | 5 | NA | **100** | NS | | NS | | NS | | NS | | NS | NS | NS | **40** | U | **180** |
| fluoride | 1.5 | 1 | NA | NA | NS | | NS | | NS | | NS | | NS | NS | NS | U | U | U |
| hardness, Total | -- | 1 | 660 | 588 | NS | | NS | | NS | | NS | | NS | NS | NS | 480 | 540 | 540 |
| nitrate | 10 | 1 | U | U | NS | | NS | | NS | | NS | | NS | NS | NS | U | U | U |
| TKN | 1 | 1 | **1.9** | 0.82 | NS | | NS | | NS | | NS | | NS | NS | NS | 0.88 F | 0.90 J | 0.58 J |
| sulfate | 250 | 1 | 79.3 | 82.2 | NS | | NS | | NS | | NS | | NS | NS | NS | 38 | 42 | 47 |
| TDS | 500 | 10 | **698** | **750** | NS | | NS | | NS | | NS | | NS | NS | NS | 500 | **640** | **630** |
| TOC | -- | 1 | 2 | 3.7 B | NS | | NS | | NS | | NS | | NS | NS | NS | 2.3 | 2.8 B | 2.5 |
| phenolics, Total | -- | 0.005 | U | U | NS | | NS | | NS | | NS | | NS | NS | NS | NA | U | U |

For notes, please refer to the end of the tables section.

**Table 4-1**
**Groundwater and Surface Water Sampling Results (continued)**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF7MW-23 | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 1/12/1999[8] | 2/7/2003 | 6/17/2003 | 9/10/2003 | 12/4/2003 | 3/25/2004 | 6/24/2004 | 9/15/2004 | 12/9/2004 | 3/30/2005 | 6/21/2005 | 9/7/2005 |
| Sample ID No. | | | LF7MW2303AA | LF7MW2311AA | LF7MW2316BB | LF7M2310CA | LF7M2300DA | LF7M2312EA | LF7M2312FA | LF7M2312GA | LF7M2312HA | LF7M2312IA | LF7M2312JA | LF7M2312KA |
| Depth to Water (ft) | | | 3.08 | 1.93 | 2.06 | 0.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.28 | 0.47 |
| **VOCs (µg/L)** | | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 5* | 1 | U | U | U | U | U | U | NA | NA | NA | U | NA | NA |
| 1,1-dichloroethene | 5* | 1 | U | U | U | U | U | U | NA | NA | NA | U | NA | NA |
| benzene | 1 | 0.1 | U | U | U | U | U | U | NA | NA | NA | U | NA | NA |
| cis-1,2-dichloroethene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U |
| methylene chloride | 5* | 1 | 0.63 B | U | U | U | U | U | NA | NA | NA | U | NA | NA |
| trichloroethene (TCE) | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U |
| toluene | 5* | 1 | U | 0.19 F | U | U | U | U | NA | NA | NA | U | NA | NA |
| trans-1,2-dichloroethene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U |
| **Metals (µg/L) [Dissolved / Total][1]** | | | | | | | | | | | | | | |
| aluminum | 2,000 | 200 | 420 | U | 26.6 F ♦ | 636 J | 296 | **2,110** | 581 | 616 | 162 F | 366 | 360 | 231 |
| antimony | 3 | 50 | U | U | U | U | U | U | U | U | U | U | U | U |
| arsenic | 25 | 30 | U | U | U | U | U | U | U | U | U | U | U | U |
| barium | 1,000 | 50 | 29.6 | 21.1 F | 18.5 F ♦ | 51.6 | 21.4 F | 26.2 F | 21.7 F | 22.4 F | 19.7 F | 21.4 | 19.9 F | 24 F |
| berylium | 3 | 4 | U | U | U | U | U | 0.3 F | U | U | U | U | U | U |
| boron, Total | 1,000 | 110 | U | U | 69.3 B ♦ | NA | NA | 27.5 | NA | NA | NA | 26.2 | NA | NA |
| cadmium | 5 | 5 | U | U | U | U | U | U | U | U | U | U | U | U |
| calcium | -- | 1,100 | 38,620 | 22,058.1 | 20,400 | 48,000 | 22,400 | 22,300 | 23,300 | 23,300 | 21,700 | 23,900 | 22,200 | 23,600 |
| chromium | 50 | 10 | 1 F | 1.0 F | U | U | U | 2.4 F | 1.1 F | U | U | 1.1 F | U | U |
| cobalt | -- | 60 | U | U | U | U | U | U | U | U | U | U | U | 0.9 F |
| copper | 200 | 10 | U | U | U | U | U | 2.4 F | 1.7 F | U | U | U | U | U |
| iron | 300 | 200 | **1,409** | 140.9 F | 62.3 F ♦ | **937** | **404** | **1,990** | **946** | **856** | 276 | **533** | **525** | **568** |
| lead | 25 | 25 | U | U | U | U | U | U | U | U | U | U | U | U |
| magnesium | 35,000 | 1,000 | 7,237.6 | 6,521.7 | 5,720 | 14,000 | 6,210 | 6,740 | 6,420 | 6,430 | 6,070 | 6,690 | 6,210 | 5,440 |
| manganese | 300 | 10 | **405.4** | 60.1 | 23.2 ♦ | 119 | 36.8 | 51.3 | 46.1 | 38.7 | 27.5 | 53.3 | 41.4 | 103 |
| molybdenum | -- | 15 | U | U | U | U | U | U | U | U | U | U | U | U |
| nickel | 100 | 20 | 1 F | U | U | U | U | U | 1.8 F | U | U | 1.6 F | 2.8 F | U |
| potassium | -- | 1,000 | 2,093 | 1,658.7 | 1,900 ♦ | 3,260 | 2,220 | 2,720 | 2,200 | 2,500 | 2,240 | 2,010 | 1,980 | 1,900 |
| selenium | -- | 30 | U | U | U | U | U | U | U | U | U | U | U | U |
| silver | 50 | 10 | U | U | U | U | U | U | U | U | U | U | U | U |
| sodium | 20,000 | 1,000 | 8,410 | 11,176 | 9,560 | 7,020 | 10,100 | 9,740 | 9,510 | 10,300 | 9,900 | 9,990 | 9,290 | 8,720 |
| thallium | 0.5 | 80 | U | U | U | U | U | U | U | U | U | U | U | U |
| vanadium | -- | 10 | 1 F | U | U | U | U | 4.2 F | 1.5 F | 1.2 F | U | 1 F | U | U |
| zinc | 2,000 | 20 | 10 | 3.5 F | U | U | 2.7 F | U | 57.3 | 34.4 | 17 F | 27.4 | 41.7 | 25.8 |
| mercury | 0.7 | 1 | U | U | U | NA | NA | U | NA | NA | NA | U | NA | NA |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 156 | 85 | 79.2 | 173 | 94 | 82.6 | 71.9 | 86.3 | 89.5 | 86 | 89 | 93 |
| ammonia | 2 | 0.2 | 0.28 | U | 0.26 | 0.34 | 0.32 | 0.3 | 0.32 | 0.38 | 0.36 | 0.3 | 0.31 | 0.32 |
| BOD5 | -- | 2.4 | U | U | U | U | U | 2 | U | U | U | U | U | 7.4 B |
| bromide | 2 | 0.5 | 0.11 F | U | U | U | U | U | U | U | U | U | U | U |
| COD | -- | 5 | U | U | U | U | U | U | U | U | 14.1 | U | U | U |
| chloride | 250 | 1 | 2.89 F | 2.1783 | 1.8 | 1.7 | 2.1 | 0.52 F | 1.8 | 2 | 1.9 | 1.8 | 1.7 | 2.4 |
| color | 15 | 5 | U | 5 R | 0 | NA | NA | 15 | NA | NA | NA | **20 J** | NA | NA |
| fluoride | 1.5 | 1 | U | 0.1017 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| hardness, Total | -- | 1 | 148 | 86.28 | 45.6 ♦ | 195 | 140 | 72 | 92 | 90 | 100 | 92 | 112 | 70.5 |
| nitrate | 10 | 1 | U | U | U | U | U | 0.18 F | U | U | U | U | U | U |
| TKN | 1 | 1 | U | U | 0.41 B | 0.52 | U | 0.4 | 0.60 B | 0.43 | 0.6 | 0.45 | 0.36 | 0.3 |
| sulfate | 250 | 1 | 16 F | 18.3229 | 18.7 | 14.2 | 16.4 | 2.7 | 19.4 | 18.9 | 17.7 | 17.5 | 18 | 16.9 |
| TDS | 500 | 10 | 200 | 100 | 129 ♦ | 229 | 136 | 94 | 112 | 103 | 108 | 117 | 128 | 201 |
| TOC | -- | 1 | U | 0.59 SU | U | U | U | U | U | U | U | U | 0.46 F | 1.3 |
| phenolics, Total | -- | 0.005 | 0.0026 UJ | U | U | U | U | U | U | U | U | U | 0.0050 F | U |

For notes, please refer to the end of the tables section.

**Table 4-1**

**Groundwater and Surface Water Sampling Results (continued)**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF7MW-23 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 12/16/2005 | 3/10/2006 | 9/13/2006 | | 3/29/2007 | | 9/25/2007 | | 3/28/2008 | | 9/17/2008 | 4/22/2009 | 3/31/2010 | 6/21/2011 | 6/24/2013 | 7/8/2015 |
| Sample ID No. | | | LF7M2312LA | LF7M2312MA | LF7M2312NA | | LF7M2312OA | | LF7M2312PA | | LF7M2312QA | | LF7M2312RA | LF7M2312SA | LF7M2312TA | LF7M2312UA | LF7M2312VA | LF7M2312WA |
| Depth to Water (ft) | | | 0.00 | 0.00 | 0.00 | | 0.00 | | 0.45 | | 0.00 | | 0.00 | 0.00 | 0.00 | 1.10 | 13.50 | 0.00 |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 5* | 1 | NA | NA | NS | | NS | | NS | | NS | | NS | NS | NS | NA | NA | NA |
| 1,1-dichloroethene | 5* | 1 | NA | NA | NS | | NS | | NS | | NS | | NS | NS | NS | NA | NA | NA |
| benzene | 1 | 0.1 | NA | NA | NS | | NS | | NS | | NS | | NS | NS | NS | NA | NA | NA |
| cis-1,2-dichloroethene | 5* | 1 | U | U | NS | | NS | | NS | | NS | | NS | NS | NS | NA | NA | NA |
| methylene chloride | 5* | 1 | NA | NA | NS | | NS | | NS | | NS | | NS | NS | NS | NA | NA | NA |
| trichloroethene (TCE) | 5* | 1 | U | U | NS | | NS | | NS | | NS | | NS | NS | NS | NA | NA | NA |
| toluene | 5* | 1 | NA | NA | NS | | NS | | NS | | NS | | NS | NS | NS | NA | NA | NA |
| trans-1,2-dichloroethene | 5* | 1 | U | U | NS | | NS | | NS | | NS | | NS | NS | NS | NA | NA | NA |
| **Metals (µg/L) [Dissolved / Total][1]** | | | | | | | | | | | | | | | | | | |
| aluminum | 2,000 | 200 | 166 F | 460 | 45.8 F | 906 | 62 F | 320 | U | 1,400 | U | 56 F | 1,100 | U | 300 | NA | NA | NA |
| antimony | 3 | 50 | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA |
| arsenic | 25 | 30 | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA |
| barium | 1,000 | 50 | 19.5 F | 22.6 F | 19.2 F | 22.8 F | 21 F | 22 F | 28F | 35F | 22 F | 22 F | 33 F | 24 F | 27 F | NA | NA | NA |
| berylium | 3 | 4 | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA |
| boron, Total | 1,000 | 110 | NA | 27.5 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| cadmium | 5 | 5 | U | U | U | U | 0.83 F | 0.76 F | U | U | U | U | U | U | U | NA | NA | NA |
| calcium | -- | 1,100 | 22,000 | 23,500 | 22,100 | 23,900 | 25,000 | 25,000 | 31,000 | 35,000 | 32,000 | 31,000 | 38,000 | 37,000 | 43,000 | NA | NA | NA |
| chromium | 50 | 10 | U | 1.8 F | U | 3.78 F | 4.0 F | 4.2 F | U | 4F | U | U | 15.0 | U | U | NA | NA | NA |
| cobalt | -- | 60 | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA |
| copper | 200 | 10 | 1.7 F | U | U | 2.95 F | U | U | U | 3.9F | U | U | 4.6 F | U | U | NA | NA | NA |
| iron | 300 | 200 | 283 | **635** | 21.1 F | **1,510** | 19 F | **510** | 160F | **2,300** | 90 F | 180 F | **2,500** | **390** | **1,700** | NA | NA | NA |
| lead | 25 | 25 | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA |
| magnesium | 35,000 | 1,000 | 6,210 | 7,020 | 6,200 | 6,890 | 7,100 | 7,200 | 7,800 | 9,100 | 7,900 | 7,600 | 7,900 | 8,200 | 9,000 | NA | NA | NA |
| manganese | 300 | 10 | 34.6 | 39.3 | 21.9 | 51 | 23 | 42 | 120 | 180 | 43 | 45 | 180 | 62 | 81 | NA | NA | NA |
| molybdenum | -- | 15 | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA |
| nickel | 100 | 20 | U | U | U | 2.16 F | U | U | U | 3.1 | U | U | 8.9 F | U | U | NA | NA | NA |
| potassium | -- | 1,000 | 2,120 | 2,060 | 2,060 | 2,360 | 2,100 | 2,100 | 2,200 | 2,700 | 1,800 | 1,800 | 2,000 | 1,500 | 1,800 | NA | NA | NA |
| selenium | -- | 30 | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA |
| silver | 50 | 10 | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA |
| sodium | 20,000 | 1,000 | 10,000 | 10,900 | 9,660 | 9,960 | 11,000 | 11,000 | 9,000 | 9,300 | 11,000 | 10,000 | 9,300 B | 8,200 | 9,200 | NA | NA | NA |
| thallium | 0.5 | 80 | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA |
| vanadium | -- | 10 | U | U | U | 1.68 F | U | U | U | 2.6F | U | U | 3.5 F | U | U | NA | NA | NA |
| zinc | 2,000 | 20 | 12.6 F | 14.9 F | 15.3 F | 47.7 B | U | 25 | 22.0 | 53 | 12 F | 12 F | 62 B | 15 F | 10 F | NA | NA | NA |
| mercury | 0.7 | 1 | NA | U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | U | NA | NA | NA |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 89.3 | 89.5 | NS | | NS | | NS | | NS | | NS | NS | NS | 230 | 89 | 89 B |
| ammonia | 2 | 0.2 | 0.34 | 0.34 | NS | | NS | | NS | | NS | | NS | NS | NS | 0.093 F | 0.37 | 0.54 |
| BOD5 | -- | 2.4 | U | U | NS | | NS | | NS | | NS | | NS | NS | NS | U | 1.8 J | U |
| bromide | 2 | 0.5 | U | U | NS | | NS | | NS | | NS | | NS | NS | NS | U | 0.12 J | U |
| COD | -- | 5 | U | U | NS | | NS | | NS | | NS | | NS | NS | NS | 5.3 F | 10 J | U |
| chloride | 250 | 1 | 2.2 | 2.2 | NS | | NS | | NS | | NS | | NS | NS | NS | 9.4 | 13 | 12 |
| color | 15 | 5 | NA | 5 | NS | | NS | | NS | | NS | | NS | NS | NS | **35** | U | 5 |
| fluoride | 1.5 | 1 | NA | NA | NS | | NS | | NS | | NS | | NS | NS | NS | U | 0.074 J | U |
| hardness, Total | -- | 1 | 76.1 | 75.1 | NS | | NS | | NS | | NS | | NS | NS | NS | 240 | 95 | 97 |
| nitrate | 10 | 1 | U | U | NS | | NS | | NS | | NS | | NS | NS | NS | U | U | U |
| TKN | 1 | 1 | 0.39 B | 0.37 | NS | | NS | | NS | | NS | | NS | NS | NS | 0.41 F | 0.49 J | 0.81 J |
| sulfate | 250 | 1 | 17.4 | 18 | NS | | NS | | NS | | NS | | NS | NS | NS | 22 | 19 | 22 |
| TDS | 500 | 10 | 135 | 132 | NS | | NS | | NS | | NS | | NS | NS | NS | 280 | 140 | 130 |
| TOC | -- | 1 | U | U | NS | | NS | | NS | | NS | | NS | NS | NS | 1.1 | 0.68 JB | 0.20 J |
| phenolics, Total | -- | 0.005 | U | U | NS | | NS | | NS | | NS | | NS | NS | NS | NA | U | U |

For notes, please refer to the end of the tables section.

**Table 4-1**
**Groundwater and Surface Water Sampling Results (continued)**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF7MW-26 | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 2/7/2003 | 6/17/2003 | 9/9/2003 | 12/3/2003 | 3/24/2004 | 6/23/2004 | 9/14/2004 | 12/8/2004 | 3/30/2005 | 6/21/2005 | 9/6/2005 | 12/15/2005 |
| Sample ID No. | | | LF7MW2612AA | LF7MW2612BB | LF7M2613CA | LF7M2612DA | LF7M2612EA | LF7M2612FA | LF7M2613GA | LF7M2612HA | LF7M2612IA | LF7M2613JA | LF7M2614KA | LF7M2613LA |
| Depth to Water (ft) | | | 12.10 | 12.17 | 13.16 | 11.70 | 11.50 | 12.39 | 12.75 | 12.17 | 11.73 | 13.15 | 14.22 | 12.68 |
| **VOCs (µg/L)** | | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 5* | 1 | U | U | U | U | U | NA | NA | NA | U | NA | NA | NA |
| 1,1-dichloroethene | 5* | 1 | U | U | U | U | U | NA | NA | NA | U | NA | NA | NA |
| benzene | 1 | 0.1 | U | U | U | U | U | NA | NA | NA | U | NA | NA | NA |
| cis-1,2-dichloroethene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U |
| methylene chloride | 5* | 1 | U | U | U | U | U | NA | NA | NA | U | NA | NA | NA |
| trichloroethene (TCE) | 5* | 1 | 2.41 | 3 | 1.3 | 0.42 F | 1.8 | 1.9 | 0.76 F | 0.73 F | 1.3 | 2.2 | 1.6 | 0.72 F |
| toluene | 5* | 1 | 0.08 F | U | U | U | U | NA | NA | NA | U | NA | NA | NA |
| trans-1,2-dichloroethene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U |
| **Metals (µg/L) [Dissolved / Total][1]** | | | | | | | | | | | | | | |
| aluminum | 2,000 | 200 | **12,441.8** | 1,850 | 218 | **4,180** | **8,020** | **2,590** | **5,380** | **3,620** | 1,180 | **2,650** | **2,580** | **2,520** |
| antimony | 3 | 50 | U | U | U | U | U | U | U | U | U | U | U | U |
| arsenic | 25 | 30 | U | U | U | U | U | U | U | U | U | 3.1 F | U | U |
| barium | 1,000 | 50 | 77.3 | 35.6 F | 18.3 F | 30.8 F | 47.7 F | 29.3 F | 34.5 F | 36.5 F | 25.7 F | 25.4 F | 31.1 F | 38.4 F |
| berylium | 3 | 4 | 0.65 F | U | U | 0.3 F | 0.5 F | U | U | U | U | U | U | U |
| boron, Total | 1,000 | 110 | U | 75.4 B | NA | NA | 19.5 | NA | NA | NA | 27.6 | NA | NA | NA |
| cadmium | 5 | 5 | U | U | U | U | U | U | U | U | U | U | U | U |
| calcium | -- | 1,100 | 122,758.4 | 123,000 | 84,000 | 70,100 | 84,600 | 94,800 | 71,500 | 111,000 | 103,000 | 77,200 | 94,400 | 126,000 |
| chromium | 50 | 10 | 17.8 | 3.0 F | U | 6.2 F | 11.5 | 4.7 F | 7.7 F | 5.2 F | 2.6 F | 3.7 F | 6.6 F | 48.9 |
| cobalt | -- | 60 | 6.2 F | U | U | U | 2.7 F | 1.6 F | 1.5 F | U | U | 1.4 F | 1.3 F | 1.1 F |
| copper | 200 | 10 | 44.7 | 6.1 F | U | 7.4 F | 16.7 | 6.3 F | 11.2 | 6.6 F | 4 F | 4.6 F | 6.6 F | 8.9 F |
| iron | 300 | 200 | **23,658.7** | **2,860** | 193 F | **4,250** | **7,910** | **2,580** | **4,860** | **2,900** | **1,100** | **2,260** | **2,290** | **2,060** |
| lead | 25 | 25 | 12.3 F | U | U | 3.8 F | 5.6 F | U | 4.1 F | U | 2.5 F | U | U | U |
| magnesium | 35,000 | 1,000 | 19,330.4 | 14,000 | 10,400 | 9,550 | 11,500 | 11,500 | 9,700 | 12,900 | 11,400 | 9,180 | 10,400 | 13,400 |
| manganese | 300 | 10 | **1,751.5** | **1,200** | **661** | **456** | **1,050** | **1,180** | **1,050** | **1,100** | **635** | **836** | **2,130** | **1,330** |
| molybdenum | -- | 15 | 4.3 F | U | U | U | U | U | U | U | U | U | U | U |
| nickel | 100 | 20 | 13.6 F | 3.8 F | U | 4.8 F | 9.1 F | 4 F | 6.1 F | 4.5 F | 2.3 F | 5.8 F | 10.4 F | 50.4 |
| potassium | -- | 1,000 | 3,621.7 | 2,230 | 1,700 | 2,230 | 3,260 | 2,170 | 2,310 | 2,270 | 1,690 | 1,640 | 1,810 | 2,360 |
| selenium | -- | 30 | U | U | U | U | U | U | U | U | U | U | U | U |
| silver | 50 | 10 | U | U | U | U | U | U | U | U | U | U | U | U |
| sodium | 20,000 | 1,000 | 1,939.3 | 1,900 | 996 F | 667 F | 948 F | 1,330 | 368 F | 2,310 | 2,930 | 916 F | 2,880 | 16,800 |
| thallium | 0.5 | 80 | U | U | U | U | U | U | U | U | U | U | U | U |
| vanadium | -- | 10 | 19.4 | 3.8 F | U | 5.9 F | 11.8 | 3.5 F | 6.6 F | 4.1 F | 1.9 F | 3.4 F | 3.3 F | 3.1 F |
| zinc | 2,000 | 20 | 55.7 | U | U | 18.4 F | 19.1 F | 13.5 F | 14.1 F | 8.1 F | 5.2 F | 5.4 F | 7.7 F | 7.3 F |
| mercury | 0.7 | 1 | U | U | NA | NA | U | NA | NA | NA | U | NA | NA | NA |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 304 | 252 | 228 | 215 | 225 | 234 B | 47.3 | 239 | 283 | 293 | 296 | 239 |
| ammonia | 2 | 0.2 | U | 0.090 | U | U | U | 0.035 F | 0.130 | 0.1 | 0.032 F | U | 0.19 | U |
| BOD5 | -- | 2.4 | U | U | U | U | U | U | U | U | U | U | U | 3.4 |
| bromide | 2 | 0.5 | U | U | U | U | U | U | U | U | U | U | U | U |
| COD | -- | 5 | 9.77 | U | U | U | U | U | 11.6 | U | U | U | U | U |
| chloride | 250 | 1 | U | 7.0 | 2.1 | 1.9 | 2.6 | 1.8 | 5.2 | 6.1 | 6.3 | 4.4 | 17.2 | 40.6 |
| color | 15 | 5 | **250 R** | **70** | NA | NA | **120** | NA | NA | NA | **160 J** | NA | NA | NA |
| fluoride | 1.5 | 1 | 0.0501 F | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| hardness, Total | -- | 1 | 364.75 | 372 | 224 | 380 | 320 | 280 | 225 | 348 | 312 | 236 | 300 | 450 |
| nitrate | 10 | 1 | 1.3269 | U | 2.3 | 1.5 | 1.4 | 1 | 1 | 1.7 | 1.7 | 0.48 F | 0.93 F | 0.54 F |
| TKN | 1 | 1 | U | 0.46 B | U | U | 0.23 | 0.44 B | 0.48 | U | 0.39 | 0.28 | 0.55 | 1 B |
| sulfate | 250 | 1 | 7.3051 | 122 | 5.8 | 5.3 | 4.6 | 5.2 | 7.4 | 10.1 | 6.2 | 4 | 5.6 | 7.2 |
| TDS | 500 | 10 | 314 | **614** | 287 | 246 | 242 | 225 | 289 | 370 | 297 | 245 | 361 | 369 |
| TOC | -- | 1 | 2.57 | U | U | 1.2 | 1.7 | U | 0.93 F | 1.4 | 1.9 | 2.8 | 1.8 | 0.69 F |
| phenolics, Total | -- | 0.005 | U | U | U | U | U | U | U | 0.0075 F | 0.006 F | 0.0040 F | U | U |

For notes, please refer to the end of the tables section.

**Table 4-1**
**Groundwater and Surface Water Sampling Results (continued)**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF7MW-26 | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 3/10/2006 | 9/12/2006 | | 3/29/2007 | | 9/24/2007 | | 3/28/2008 | | 9/16/2008 | | 4/22/2009 | | 3/25/2010 | 6/20/2011 | 6/20/2013 | 6/25/2015 | | | | | |
| Sample ID No. | | | LF7M2612MA | LF7M2612NA | | LF7M2610OA | | LF7M2614PA | | LF7M2611QA | | LF7M2613RA | | LF7M2612SA | | LF7M2612TA | LF7M2612UA | LF7M2612VA | LF7M2612WA | | | | | |
| Depth to Water (ft) | | | 11.75 | 13.32 | | 10.17 | | 13.95 | | 10.70 | | 13.39 | | 11.57 | | 11.91 | 11.74 | 12.41 | 12.42 | | | | | |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 5* | 1 | NA | NS | | NS | | NS | | NS | | NS | | NS | | NS | NA | NA | NA | | | | | |
| 1,1-dichloroethene | 5* | 1 | NA | NS | | NS | | NS | | NS | | NS | | NS | | NS | NA | NA | NA | | | | | |
| benzene | 1 | 0.1 | NA | NS | | NS | | NS | | NS | | NS | | NS | | NS | NA | NA | NA | | | | | |
| cis-1,2-dichloroethene | 5* | 1 | U | NS | | NS | | NS | | NS | | NS | | NS | | NS | NA | NA | NA | | | | | |
| methylene chloride | 5* | 1 | NA | NS | | NS | | NS | | NS | | NS | | NS | | NS | NA | NA | NA | | | | | |
| trichloroethene (TCE) | 5* | 1 | 0.98 F | NS | | NS | | NS | | NS | | NS | | NS | | NS | NA | NA | NA | | | | | |
| toluene | 5* | 1 | NA | NS | | NS | | NS | | NS | | NS | | NS | | NS | NA | NA | NA | | | | | |
| trans-1,2-dichloroethene | 5* | 1 | U | NS | | NS | | NS | | NS | | NS | | NS | | NS | NA | NA | NA | | | | | |
| **Metals (µg/L) [Dissolved / Total][1]** | | | | | | | | | | | | | | | | | | | | | | | | |
| aluminum | 2,000 | 200 | **2,470** | U | **2,020** | 58 F | **4,300** | U | **3,600** | U | **2,200** | 67 F | **10,000** | U | **2,900** | **3,500** | NA | NA | NA | | | | | |
| antimony | 3 | 50 | U | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | | | | | |
| arsenic | 25 | 30 | U | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | | | | | |
| barium | 1,000 | 50 | 28.7 F | 18.7 F | 26 F | 18 F | 38 F | 18 F | 38 F | 16 F | 28 F | 16 F | 59 | 13 F | 36 F | 34 F | NA | NA | NA | | | | | |
| berylium | 3 | 4 | U | U | U | U | U | U | U | U | 0.11 F | U | 4.6 F | U | U | U | NA | NA | NA | | | | | |
| boron, Total | 1,000 | 110 | 22.6 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NS | NA | NA | NA | | | | | |
| cadmium | 5 | 5 | U | U | U | 0.61 F | 0.53 F | U | U | U | U | U | U | U | U | U | NA | NA | NA | | | | | |
| calcium | -- | 1,100 | 88,600 | 96,000 | 84,400 | 92,000 | 90,000 | 99,000 | 96,000 | 89,000 | 96,000 | 82,000 | 88,000 | 70,000 | 93,000 | 89,000 | NA | NA | NA | | | | | |
| chromium | 50 | 10 | 13.7 | U | 49.1 | 4.5 F | **52** | 1.7F | **120** | U | 15 | 1.7 F | **63** | U | **86** | 15 | NA | NA | NA | | | | | |
| cobalt | -- | 60 | 1 F | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | | | | | |
| copper | 200 | 10 | 4.3 F | U | 5.06 F | U | 13 | U | 9.5F | U | 7.2 F | U | 17 | U | 9.6 F | 4.5 F | NA | NA | NA | | | | | |
| iron | 300 | 200 | **1,960** | U | **2,350** | 5.9 F | **5,300** | U | **3,700** | U | **2,900** | U | **9,500** | U | **3,700** | **3,000** | NA | NA | NA | | | | | |
| lead | 25 | 25 | U | U | U | U | U | U | U | U | U | U | 8.2 F | U | U | U | NA | NA | NA | | | | | |
| magnesium | 35,000 | 1,000 | 10,600 | 10,500 | 10,000 | 11,000 | 12,000 | 11,000 | 12,000 | 11,000 | 12,000 | 9,500 | 12,000 | 8,900 | 12,000 | 12,000 | NA | NA | NA | | | | | |
| manganese | 300 | 10 | **459** | **1,720 J** | **1,170** | **310** | **1,100** | **1,400** | **2,100** | 47 | **540** | **640** | **1,500** | 12 | **2,200** | **520** | NA | NA | NA | | | | | |
| molybdenum | -- | 15 | U | U | U | U | U | U | 3.5F | U | U | U | U | U | U | U | NA | NA | NA | | | | | |
| nickel | 100 | 20 | 7.1 F | 12.9 F | 12.6 F | 10 F | 25 | 3.7F | 29 | U | 7.8 F | 2.7 F | 19 F | U | 17 F | 5.6 F | NA | NA | NA | | | | | |
| potassium | -- | 1,000 | 1,960 | 1,530 | 1,580 | 1,300 | 2,000 | 1,700 | 2,000 | 1,200 | 1,700 | 1,400 | 3,000 | 830 F | 1,700 | 2,200 | NA | NA | NA | | | | | |
| selenium | -- | 30 | U | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | | | | | |
| silver | 50 | 10 | U | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | | | | | |
| sodium | 20,000 | 1,000 | 5,060 | 15,400 J | 8,430 J | 7,100 J | 5,400 J | 4,000J | 1,900J | 10,000 | 11,000 | 10,000 B | 7,000 B | 4,000 | 12,000 | 5,800 | NA | NA | NA | | | | | |
| thallium | 0.5 | 80 | U | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | | | | | |
| vanadium | -- | 10 | 3.1 F | U | 2.94 F | U | 6.3 F | U | 4.9F | U | 3.5 F | U | 13 | U | 5.3 F | 5.6 F | NA | NA | NA | | | | | |
| zinc | 2,000 | 20 | 7.4 F | 30.2 B | 35.9 B | U | 15 F | 40.0 | 49.0 | 11 F | 17 F | 13 F | 30.0 | 11 F | 21 B | 21 | NA | NA | NA | | | | | |
| mercury | 0.7 | 1 | U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | | | | |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 285 | NS | | NS | | NS | | NS | | NS | | NS | | NS | 310 | 240 | 290 | | | | | |
| ammonia | 2 | 0.2 | 0.1 | NS | | NS | | NS | | NS | | NS | | NS | | NS | 0.46 | 0.13 | U | | | | | |
| BOD5 | -- | 2.4 | U | NS | | NS | | NS | | NS | | NS | | NS | | NS | U | U | U | | | | | |
| bromide | 2 | 0.5 | U | NS | | NS | | NS | | NS | | NS | | NS | | NS | U | U | U | | | | | |
| COD | -- | 5 | U | NS | | NS | | NS | | NS | | NS | | NS | | NS | 4.3 F | 8.0 J | U | | | | | |
| chloride | 250 | 1 | 23.1 | NS | | NS | | NS | | NS | | NS | | NS | | NS | 8.5 | 4.0 | 4.1 | | | | | |
| color | 15 | 5 | **20** | NS | | NS | | NS | | NS | | NS | | NS | | NS | 15 | U | 5 | | | | | |
| fluoride | 1.5 | 1 | NA | NS | | NS | | NS | | NS | | NS | | NS | | NS | 0.088 J | 0.096 J | U | | | | | |
| hardness, Total | -- | 1 | 242 | NS | | NS | | NS | | NS | | NS | | NS | | NS | 350 | 280 | 300 | | | | | |
| nitrate | 10 | 1 | 1.1 | NS | | NS | | NS | | NS | | NS | | NS | | NS | 0.090 F | 0.33 J | 0.18 J | | | | | |
| TKN | 1 | 1 | 0.39 | NS | | NS | | NS | | NS | | NS | | NS | | NS | 0.79 F | 0.48 J | 0.20 J | | | | | |
| sulfate | 250 | 1 | 5.9 | NS | | NS | | NS | | NS | | NS | | NS | | NS | 3.3 F | 2.8 J | 2.8 JM | | | | | |
| TDS | 500 | 10 | 311 | NS | | NS | | NS | | NS | | NS | | NS | | NS | 360 | 270 | 320 | | | | | |
| TOC | -- | 1 | 1.2 B | NS | | NS | | NS | | NS | | NS | | NS | | NS | 2.2 | 1.6 B | 1.7 | | | | | |
| phenolics, Total | -- | 0.005 | U | NS | | NS | | NS | | NS | | NS | | NS | | NS | NA | U | U | | | | | |

For notes, please refer to the end of the tables section.

**Table 4-1**

**Groundwater and Surface Water Sampling Results (continued)**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF7MW-27 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 2/7/2003 | 6/18/2003 | 9/9/2003 | 12/3/2003 | 3/25/2004 | 6/23/2004 | 9/14/2004 | 12/8/2004 | 3/30/2005 | 6/21/2005 | 9/7/2005 | 12/15/2005 | 3/10/2006 |
| Sample ID No. | | | LF7MW2713AA | LF7MW2707BB | LF7M2713CA | LF7M2713DA | LF7M2713EA | LF7M2713FA | LF7M2713GA | LF7M2713HA | LF7M2713IA | LF7M2713JA | LF7M2713KA | LF7M2713LA | LF7M2713MA |
| Depth to Water (ft) | | | 6.29 | 6.59 | 7.91 | 5.82 | 6.12 | 7.44 | 7.74 | 6.86 | 5.75 | 8.39 | 10.83 | 7.65 | 6.57 |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 5* | 1 | U | U | U | U | U | NA | NA | NA | U | NA | NA | NA | NA |
| 1,1-dichloroethene | 5* | 1 | U | U | U | U | UM | NA | NA | NA | U | NA | NA | NA | NA |
| benzene | 1 | 0.1 | U | U | U | U | UM | NA | NA | NA | U | NA | NA | NA | NA |
| cis-1,2-dichloroethene | 5* | 1 | U | U | U | U | UM | U | U | U | U | U | U | U | U |
| methylene chloride | 5* | 1 | U | U | U | U | UM | NA | NA | NA | U | NA | NA | NA | NA |
| trichloroethene (TCE) | 5* | 1 | 0.69 F | 0.47 F♦ | 1.1 | 0.84 F | 0.53 M | 0.69 F | 0.94 F | 0.64 F | U | 0.77 F | 0.83 F | 0.68 F | 0.48 F |
| toluene | 5* | 1 | 0.29 F | U | U | U | UM | NA | NA | NA | U | NA | NA | NA | NA |
| trans-1,2-dichloroethene | 5* | 1 | U | U | U | U | UM | U | U | U | U | U | U | U | U |
| **Metals (µg/L) [Dissolved / Total][1]** | | | | | | | | | | | | | | | |
| aluminum | 2,000 | 200 | 34.5 F | 58.7 F | 62.4 F | 246 | U | U | 69.7 F | U | 77.8 F | U | 101 F | 36.4 F | U |
| antimony | 3 | 50 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| arsenic | 25 | 30 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| barium | 1,000 | 50 | 18.0 F | 18.4 F♦ | 18.4 F | 17.9 F | 17.5 F | 16.6 F | 18.2 F | 16.6 F | 20 F | 16.1 F | 16.9 F | 15.7 F | 15 F |
| berylium | 3 | 4 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| boron, Total | 1,000 | 110 | U | 56 ♦ | NA | NA | 11.7 | NA | NA | NA | 11.2 | NA | NA | NA | 8.9 F |
| cadmium | 5 | 5 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| calcium | -- | 1,100 | 81,375.5 | 75,900 ♦ | 75,800.0 | 74,500 | 74,600 | 74,500 | 76,200 | 76,900 | 57,200 | 72,600 | 77,200 | 77,100 | 81,600 |
| chromium | 50 | 10 | 2.0 F | 1.7 F | U | 1.9 F | U | 0.9 F | 0.9 F | U | 1 F | U | U | 0.9 F | 1.3 F |
| cobalt | -- | 60 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| copper | 200 | 10 | 1.9 F | U | U | U | U | U | 3 F | U | 2.2 F | U | U | U | U |
| iron | 300 | 200 | 72.4 F | 38.8 F | 44.8 F | 273 M | 62.6 F | U | 80.2 F | U | 89.2 F | U | 124 F | 43.4 | U |
| lead | 25 | 25 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| magnesium | 35,000 | 1,000 | 10,190.9 | 9,120 | 8,840 | 9,060 | 9,080 | 8,580 | 9,110 | 8,890 | 6,470 | 8,560 | 8,910 | 9,310 | 9,350 |
| manganese | 300 | 10 | 13 | 8.4 F | 7.4 F | 43.4 | 1.7 F | 1.1 F | 8.3 F | 0.7 F | 7.3 F | 2.2 F | 11.1 | 3.2 F | 0.6 F |
| molybdenum | -- | 15 | 3.1 F | U | U | U | U | U | U | U | U | U | U | U | U |
| nickel | 100 | 20 | U | 9.3 F | 6.0 F | 21.6 | 2.6 F | 9.4 F | 11.3 F | 6.2 F | 5.2 F | 14.8 F | 13.9 F | 14.1 F | 13.3 F |
| potassium | -- | 1,000 | 1,575.2 | 2,140 | 2,490 | 2,360 | 1,950 | 2,150 | 2,470 | 2,060 | 2,730 | 2,070 | 2,130 | 1,890 | 1,610 |
| selenium | -- | 30 | 6.7 F | U | U | U | U | U | U | U | U | U | U | U | U |
| silver | 50 | 10 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| sodium | 20,000 | 1,000 | 6,648.1 | 5,420 ♦ | 5,910 | 6,290 | 5,990 | 5,890 | 5,630 | 4,080 | 3,960 | 4,220 | 3,590 | 3,550 | 4,330 |
| thallium | 0.5 | 80 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| vanadium | -- | 10 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| zinc | 2,000 | 20 | 7.3 F | U | U | 3.1 F | U | U | U | U | U | U | U | 2.8 F | U |
| mercury | 0.7 | 1 | U | U | NA | NA | U | NA | NA | NA | U | NA | NA | NA | U |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 234 | 220 ♦ | 210 | 219 | 217 M | 177 B | 224 | 246 | 172 | 233 | 230 | 230 | 231 |
| ammonia | 2 | 0.2 | U | U | U | U | U | U | U | 0.027 F | U | U | U | U | 0.016 F |
| BOD5 | -- | 2.4 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| bromide | 2 | 0.5 | U | U | U | U | U | U | U | UM | U | U | U | U | U |
| COD | -- | 5 | U | U | U | UM | U | 3.7 UM | U | U | U | 5.3 F | U | U | U |
| chloride | 250 | 1 | 3.7045 | 2 | 2.8 | 3.1 M | 2.5 | 1.9 | 2 | 1.6 M | 1.1 | 1.6 | 1.6 | 1.8 | 1.3 |
| color | 15 | 5 | 5 R | 0 | NA | NA | U | NA | NA | NA | 10 J | NA | NA | NA | 3 |
| fluoride | 1.5 | 1 | U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| hardness, Total | -- | 1 | 243.16 | 297 | 216 | 250 | 220 | 208 | 235 | 248 | 166 | 240 | 251 | 159 | 214 |
| nitrate | 10 | 1 | 1.5298 | 1.4 | 2 | 2 | 1.9 | 1.8 | 1.4 | 1.2 M | 0.21 F | 1.2 | 0.99 F | 0.98 F | 1.2 |
| TKN | 1 | 1 | U | U | U | UM | U | 0.20 B | 0.34 | 0.47 | 0.26 | 0.27 | 0.31 | 0.66 B | 0.26 |
| sulfate | 250 | 1 | 11.5627 | 14.3 | 11 | 12 | 12.7 | 10.4 | 9.2 | 8.9 M | 2.9 | 7.3 | 7.1 | 10 | 10.5 |
| TDS | 500 | 10 | 247 | 302 | 239 | 257 | 231 | 238 | 275 | 271 | 167 | 257 | 300 | 236 | 241 |
| TOC | -- | 1 | 0.81 F | U | U | U | 0.85 F | U | 0.87 F | 0.86 F | 1.6 | 1 | 1.8 | U | 0.56 F |
| phenolics, Total | -- | 0.005 | U | U | U | UM | U | U | U | 0.0044 F | U | 0.0050 F | U | U | UJ |

For notes, please refer to the end of the tables section.

**Table 4-1**

**Groundwater and Surface Water Sampling Results (continued)**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF7MW-27 | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 9/13/2006 | | 3/29/2007 | | 9/25/2007 | | 3/27/2008 | | 9/16/2008 | 4/21/2009 | 3/25/2010 | 6/20/2011 | 6/20/2013 | 6/25/2015 |
| Sample ID No. | | | LF7M2713NA | | LF7M2713OA | | LF7M2713PA | | LF7M2713QA | | LF7M2713RA | LF7M2713SA | LF7M2713TA | LF7M2713UA | LF7M2713VA | LF7M2713WA |
| Depth to Water (ft) | | | 8.67 | | 4.99 | | 9.28 | | 5.56 | | 8.90 | 6.62 | 7.01 | 6.56 | 7.13 | 8.51 |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 5* | 1 | NS | | NS | | NS | | NS | | NS | NS | NS | NA | NA | NA |
| 1,1-dichloroethene | 5* | 1 | NS | | NS | | NS | | NS | | NS | NS | NS | NA | NA | NA |
| benzene | 1 | 0.1 | NS | | NS | | NS | | NS | | NS | NS | NS | NA | NA | NA |
| cis-1,2-dichloroethene | 5* | 1 | NS | | NS | | NS | | NS | | NS | NS | NS | NA | NA | NA |
| methylene chloride | 5* | 1 | NS | | NS | | NS | | NS | | NS | NS | NS | NA | NA | NA |
| trichloroethene (TCE) | 5* | 1 | NS | | NS | | NS | | NS | | NS | NS | NS | NA | NA | NA |
| toluene | 5* | 1 | NS | | NS | | NS | | NS | | NS | NS | NS | NA | NA | NA |
| trans-1,2-dichloroethene | 5* | 1 | NS | | NS | | NS | | NS | | NS | NS | NS | NA | NA | NA |
| **Metals (µg/L) [Dissolved / Total][1]** | | | | | | | | | | | | | | | | |
| aluminum | 2,000 | 200 | 50.2 F | 96.4 F | 62 F | 160 F | U | 170F | U | 190 F | 400 B♦ | U | 160 F♦ | NA | NA | NA |
| antimony | 3 | 50 | U | U | U | U | U | U | U | 1.7 F | U | U | U | NA | NA | NA |
| arsenic | 25 | 30 | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA |
| barium | 1,000 | 50 | 15.9 F | 15.4 F | 19 F | 20 F | 16F | 17F | 14 F | 15 F | 17 F♦ | 14 F | 14 F | NA | NA | NA |
| berylium | 3 | 4 | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA |
| boron, Total | 1,000 | 110 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| cadmium | 5 | 5 | U | U | 0.67 F | 0.49 F | U | U | U | U | U | U | U | NA | NA | NA |
| calcium | -- | 1,100 | 70,700 | 70,500 | 65,000 | 68,000 | 70,000 | 73,000 | 74,000 | 76,000 | 76,000♦ | 73,000 | 73,000 | NA | NA | NA |
| chromium | 50 | 10 | 1.47 F | 2.11 F | 4.1 F | 4.3 F | 1.9F | 3.4F | U | 3.6 F | 3.3 F♦ | U | U | NA | NA | NA |
| cobalt | -- | 60 | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA |
| copper | 200 | 10 | U | U | U | U | U | U | U | U | 2.9 F♦ | U | U | NA | NA | NA |
| iron | 300 | 200 | U | 74.6 F | U | 110 F | 6.1F | 150F | U | 210 | **390♦** | U | 110 F♦ | NA | NA | NA |
| lead | 25 | 25 | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA |
| magnesium | 35,000 | 1,000 | 8,250 | 8,100 | 7,200 | 7,500 | 8,400 | 8,900 | 9,100 | 9,400 | 9,000 B | 8,900 | 9,000 | NA | NA | NA |
| manganese | 300 | 10 | U | 5.3 F | U | 6.5 F | U | 12 | U | 16 | 32 J♦ | U | 7.0 F♦ | NA | NA | NA |
| molybdenum | -- | 15 | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA |
| nickel | 100 | 20 | 17 F | 13.9 F | 2.6 F | 4.0 F | 25.0 | 29.0 | 30 | 40 | 38♦ | 24 | 29 | NA | NA | NA |
| potassium | -- | 1,000 | 1,920 | 1,910 | 3,000 | 3,100 | 2,200 | 2,300 | 1,700 | 1,800 | 2,000♦ | 1,400 | 1,800 | NA | NA | NA |
| selenium | -- | 30 | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA |
| silver | 50 | 10 | U | U | U | U | U | U | U | U | 0.99 F♦ | U | U | NA | NA | NA |
| sodium | 20,000 | 1,000 | 2,920 | 2,930 | 2,800 | 3,000 | 3,800 | 4,000 | 3,400 | 3,500 | 3,000 B♦ | 2,600 | 2,700 | NA | NA | NA |
| thallium | 0.5 | 80 | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA |
| vanadium | -- | 10 | U | U | U | U | U | U | U | U | 1.2 F♦ | U | U | NA | NA | NA |
| zinc | 2,000 | 20 | 16.7 F | 23.3 B | U | U | 26J | 21J | 11 F | 11 F | 14 F | 13 F | 6.0 F♦ | NA | NA | NA |
| mercury | 0.7 | 1 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | NS | | NS | | NS | | NS | | NS | NS | NS | 210 | 220 | 210 |
| ammonia | 2 | 0.2 | NS | | NS | | NS | | NS | | NS | NS | NS | 0.21 ♦ | 0.076 J ♦ | 0.072 J ♦ |
| BOD5 | -- | 2.4 | NS | | NS | | NS | | NS | | NS | NS | NS | U | U | U |
| bromide | 2 | 0.5 | NS | | NS | | NS | | NS | | NS | NS | NS | U | U | U |
| COD | -- | 5 | NS | | NS | | NS | | NS | | NS | NS | NS | U | 8.3 J | U |
| chloride | 250 | 1 | NS | | NS | | NS | | NS | | NS | NS | NS | 0.34 F | 0.65 J | 0.38 J ♦ |
| color | 15 | 5 | NS | | NS | | NS | | NS | | NS | NS | NS | 10 | U | U |
| fluoride | 1.5 | 1 | NS | | NS | | NS | | NS | | NS | NS | NS | U | 0.062 J | U |
| hardness, Total | -- | 1 | NS | | NS | | NS | | NS | | NS | NS | NS | 200 | 230 ♦ | 220 |
| nitrate | 10 | 1 | NS | | NS | | NS | | NS | | NS | NS | NS | 0.36 F | 0.6 | 0.48 J |
| TKN | 1 | 1 | NS | | NS | | NS | | NS | | NS | NS | NS | 0.39 F♦ | 0.45 J ♦ | 0.27 J ♦ |
| sulfate | 250 | 1 | NS | | NS | | NS | | NS | | NS | NS | NS | 5.5 ♦ | 7.6 | 5.5 |
| TDS | 500 | 10 | NS | | NS | | NS | | NS | | NS | NS | NS | 230 ♦ | 220 | 230 |
| TOC | -- | 1 | NS | | NS | | NS | | NS | | NS | NS | NS | 0.78 F | 0.94 JB | 1.3 ♦ |
| phenolics, Total | -- | 0.005 | NS | | NS | | NS | | NS | | NS | NS | NS | NA | U | U |

For notes, please refer to the end of the tables section.

**Table 4-1**

**Groundwater and Surface Water Sampling Results (continued)**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF7MW-28 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 3/18/2003 | 6/17/2003 | 9/10/2003 | 12/4/2003 | 3/25/2004 | 6/24/2004 | 9/15/2004 | 12/9/2004 | 3/30/2005 | 6/21/2005 | 9/7/2005 | 12/15/2005 | 3/10/2006 |
| Sample ID No. | | | LF7MW2802AA | LF7MW2807BB | LF7M2806CA | LF7M2810DA | LF7M2806EA | LF7M2806FA | LF7M2810GA | LF7M2810HA | LF7M2810IA | LF7M2810JA | LF7M2810KA | LF7M2810LA | LF7M2810MA |
| Depth to Water (ft) | | | 2.15 | 3.32 | 1.31 | 0.42 | 0.00 | 0.44 | 0.67 | 0.00 | 0.00 | 1.00 | 1.07 | 0.64 | 0.00 |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 5* | 1 | U | U | U | U | U | NA | NA | NA | U | NA | NA | NA | NA |
| 1,1-dichloroethene | 5* | 1 | U | U | U | U | U | NA | NA | NA | U | NA | NA | NA | NA |
| benzene | 1 | 0.1 | U | U | U | U | U | NA | NA | NA | U | NA | NA | NA | NA |
| cis-1,2-dichloroethene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| methylene chloride | 5* | 1 | U | U | U | U | U | NA | NA | NA | U | NA | NA | NA | NA |
| trichloroethene (TCE) | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| toluene | 5* | 1 | 0.08 F | U | U | U | U | NA | NA | NA | U | NA | NA | NA | NA |
| trans-1,2-dichloroethene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| **Metals (µg/L) [Dissolved / Total][1]** | | | | | | | | | | | | | | | |
| aluminum | 2,000 | 200 | 128.9 F | 62.4 F | 480 | 695 | 347 | U | 149 F | 232 | 143 F | 800 | 222 | 125 F | 199 F |
| antimony | 3 | 50 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| arsenic | 25 | 30 | 3.9 F | U | U | U | U | U | U | U | U | U | U | U | U |
| barium | 1,000 | 50 | 15.9 F | 17.7 F | 25.1 F | 24.9 F | 14 F | 50.2 | 22.5 F | 19.4 F | 18.1 F | 26.4 F | 28.3 F | 21.9 F | 22.5 F |
| berylium | 3 | 4 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| boron, Total | 1,000 | 110 | 36.7 F | 102 B | NA | NA | U | NA | NA | NA | 27.4 | NA | NA | NA | 34.5 |
| cadmium | 5 | 5 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| calcium | -- | 1,100 | 71,228.7 | 64,400 | 62,300 | 54,700 | 44,300 | 85,900 | 62,700 | 56,400 | 50,900 | 55,300 | 75,800 | 63,300 | 69,600 |
| chromium | 50 | 10 | 1.0 F | 1.4 F | U | 1.4 F | 1.5 F | U | U | U | U | 1 F | U | U | 1.5 F |
| cobalt | -- | 60 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| copper | 200 | 10 | 2.0 F | U | 2.4 F | 2.8 F | U | 5.2 F | U | U | 1.7 F | 2.2 F | U | 2.3 F | U |
| iron | 300 | 200 | 249.3 | U | **512** | **693** | **411** | 57.2 F | 138 F | 275 | 169 F | **750** | 227 | 148 F | 290 |
| lead | 25 | 25 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| magnesium | 35,000 | 1,000 | 7,315.6 | 6,440 | 6,360 | 5,610 | 5,180 | 9,540 | 6,500 | 6,040 | 5,660 | 5,690 | 7,960 | 6,870 | 7,370 |
| manganese | 300 | 10 | 63.4 | 11 | 58 | 62.9 | 44.3 | 61 | 77 | 71.9 | 53.8 | 122 | 47.4 | 51.1 | 61.7 |
| molybdenum | -- | 15 | 5.0 F | U | U | U | U | U | U | U | U | U | U | U | U |
| nickel | 100 | 20 | U | U | U | U | U | U | U | 1.6 F | U | 3.4 F | U | U | U |
| potassium | -- | 1,000 | 2,332 | 2,820 | 3,330 | 2,540 | 1,780 | 3,700 | 3,280 | 2,900 | 2,350 | 3,430 | 3,070 | 2,160 | 2,250 |
| selenium | -- | 30 | 7.1 F | U | U | U | U | U | U | U | U | U | U | U | U |
| silver | 50 | 10 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| sodium | 20,000 | 1,000 | 851.5 F | 917 F | 950 | 1,100 | 616 F | 1,300 | 1,190 | 536 F | 507 F | 370 | 943 F | 430 F | 889 F |
| thallium | 0.5 | 80 | **8.2 F** | U | U | U | U | U | U | U | U | U | U | U | U |
| vanadium | -- | 10 | 1.6 F | U | U | U | U | U | U | U | U | U | U | U | U |
| zinc | 2,000 | 20 | 5.8 F | U | U | 50.7 | 8.4 F | 19.5 F | 11.6 F | 15.1 F | 11.8 F | 16.2 | 11 F | 13 F | 12.8 F |
| mercury | 0.7 | 1 | U | U | NA | NA | U | NA | NA | NA | U | NA | NA | NA | U |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 213 | 189 | 179 | 159 | 140 | 210 | 184 | 168 | 146 | 168 | 206 | 220 | 190 |
| ammonia | 2 | 0.2 | U | U | 0.086 | U | U | U | 0.065 | 0.027 F | U | U | U | U | 0.013 F |
| BOD5 | -- | 2.4 | 7 | U | U | U | U | U | U | U | U | U | U | U | U |
| bromide | 2 | 0.5 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| COD | -- | 5 | U | U | U | U | U | 8.1 F | U | U | U | U | U | 3.4 F | U |
| chloride | 250 | 1 | 0.7607 | U | U | U | 1.8 | 0.86 F | 0.75 F | 39.6 | 0.49 F | U | 0.95 F | 0.63 F | 0.19 F |
| color | 15 | 5 | U | 0 | NA | NA | U | NA | NA | NA | 2.5 J | NA | NA | NA | U |
| fluoride | 1.5 | 1 | 0.07 F | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| hardness, Total | -- | 1 | 235.7 | U | 195 | 240 | 164 | 252 | 195 | 172 | U | 192 | 223 | 136 | 176 |
| nitrate | 10 | 1 | 0.2659 | U | 2.2 | U | U | 0.034 F | 0.09 F | 0.56 F | 0.17 F | 0.14 F | 0.67 F | 0.12 F | 0.097 F |
| TKN | 1 | 1 | 0.73 | 0.25 B | U | U | 0.11 F | 0.37 B | 0.084 F | U | 0.6 | 0.17 F | 0.4 | 0.29 B | 0.25 |
| sulfate | 250 | 1 | 5.285 | 9.2 | 5.1 | 3.8 | 17.8 | 5.4 | 6 | 20.5 | 3 | 3.6 | 20.8 | 6.7 | 4.3 |
| TDS | 500 | 10 | 206 | 215 | 203 | 174 | 127 | 212 | 156 | 152 | 144 | 190 | 309 | 242 | 190 |
| TOC | -- | 1 | 1.36 | U | U | U | 0.55 F | U | 0.81 F | 0.9 F | 0.82 F | 0.91 | 1.4 | U | U |
| phenolics, Total | -- | 0.005 | 0.00408 F | U | U | U | 0.0065 F | 0.012 | U | U | U | 0.0040 F | U | U | U |

For notes, please refer to the end of the tables section.

**Table 4-1**

**Groundwater and Surface Water Sampling Results (continued)**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF7MW-28 | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 9/13/2006 | | 3/29/2007 | | 9/25/2007 | | 3/28/2008 | | 9/17/2008 | 4/22/2009 | 4/1/2010 | 6/20/2011 | 6/24/2013 | 7/8/2015 |
| Sample ID No. | | | LF7M2810NA | | LF7M2810OA | | LF7M2810PA | | LF7M2810QA | | LF7M2810RA | LF7M2810SA | LF7M2810TA | LF7M2810SA | LF7M2805VA | LF7M2810WA |
| Depth to Water (ft) | | | 0.30 | | 0.00 | | 1.48 | | 0.00 | | 0.80 | 0.33 | 0.00 | NS | 1.31 | 1.00 |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 5* | 1 | NS | | NS | | NS | | NS | | NS | NS | NS | NS | NA | NA |
| 1,1-dichloroethene | 5* | 1 | NS | | NS | | NS | | NS | | NS | NS | NS | NS | NA | NA |
| benzene | 1 | 0.1 | NS | | NS | | NS | | NS | | NS | NS | NS | NS | NA | NA |
| cis-1,2-dichloroethene | 5* | 1 | NS | | NS | | NS | | NS | | NS | NS | NS | NS | NA | NA |
| methylene chloride | 5* | 1 | NS | | NS | | NS | | NS | | NS | NS | NS | NS | NA | NA |
| trichloroethene (TCE) | 5* | 1 | NS | | NS | | NS | | NS | | NS | NS | NS | NS | NA | NA |
| toluene | 5* | 1 | NS | | NS | | NS | | NS | | NS | NS | NS | NS | NA | NA |
| trans-1,2-dichloroethene | 5* | 1 | NS | | NS | | NS | | NS | | NS | NS | NS | NS | NA | NA |
| **Metals (µg/L) [Dissolved / Total][1]** | | | | | | | | | | | | | | | | |
| aluminum | 2,000 | 200 | 43.7 F | 722 | U | 270 | U | 250 | U | 230 | 240 B | 77 F | 1,700 | NS | NA | NA |
| antimony | 3 | 50 | U | U | U | U | U | U | U | 1.9 F | U | U | U | NS | NA | NA |
| arsenic | 25 | 30 | U | U | U | U | U | U | U | U | U | U | U | NS | NA | NA |
| barium | 1,000 | 50 | 52.4 | 67.8 | 19 F | 21 F | 26 F | 28 F | 14 F | 19 F | 64 | 30 F | 47 F | NS | NA | NA |
| berylium | 3 | 4 | U | U | U | U | U | U | U | U | 0.39 F | U | U | NS | NA | NA |
| boron, Total | 1,000 | 110 | NA | NA | NA | NA | NA | NA | NA | NA | U | NA | NA | NS | NA | NA |
| cadmium | 5 | 5 | U | U | U | 0.53 F | U | U | U | U | NA | U | U | NS | NA | NA |
| calcium | -- | 1,100 | 76,900 | 84,600 | 53,000 | 54,000 | 63,000 | 62,000 | 63,000 | 65,000 | 71,000 | 71,000 | 98,000 | NS | NA | NA |
| chromium | 50 | 10 | U | 6.25 F | U | 4.8 F | U | 2.8 F | U | 1.9 F | 11 | U | 31 | NS | NA | NA |
| cobalt | -- | 60 | U | U | U | U | U | U | U | U | U | U | U | NS | NA | NA |
| copper | 200 | 10 | U | 4.06 F | U | U | U | U | U | U | 2.7 F | U | 5.1 F | NS | NA | NA |
| iron | 300 | 200 | U | **970** | U | 290 | 6.8F | 280 | U | **360** | **440** | 270 | 3,100 | NS | NA | NA |
| lead | 25 | 25 | U | U | U | U | U | U | U | U | U | U | U | NS | NA | NA |
| magnesium | 35,000 | 1,000 | 8,110 | 8,690 | 6,000 | 6,000 | 7,400 | 7,200 | 7,500 | 7,700 | 7,800 | 7,800 | 12,000 | NS | NA | NA |
| manganese | 300 | 10 | 2.99 F | **345** | U | 98 | U | 140 | U | 140 | 150 | 170 | **520** | NS | NA | NA |
| molybdenum | -- | 15 | 4.55 F | U | U | U | U | U | U | U | U | U | U | NS | NA | NA |
| nickel | 100 | 20 | 2.48 F | 6.29 F | U | 2.1 F | 1.3 F | 2.5 F | U | 2.4 F | 11 F | U | 19 F | NS | NA | NA |
| potassium | -- | 1,000 | 3,420 | 3,650 | 1,800 | 1,900 | 2,300 | 2,200 | 1,800 | 1,800 | 2,500 | 1,700 | 2,600 | NS | NA | NA |
| selenium | -- | 30 | U | U | U | U | U | U | U | U | U | U | U | NS | NA | NA |
| silver | 50 | 10 | U | U | U | U | U | U | U | U | U | U | U | NS | NA | NA |
| sodium | 20,000 | 1,000 | 1,380 | 1,520 | 720 F | 750 F | 810 F | 780 F | 1,600 | 1,600 | 4,900 B | 8,100 | 5,900 | NS | NA | NA |
| thallium | 0.5 | 80 | U | U | U | U | U | U | U | U | U | U | U | NS | NA | NA |
| vanadium | -- | 10 | U | 1.26 F | U | U | U | U | U | U | 1.2 F | U | 3.4 F | NS | NA | NA |
| zinc | 2,000 | 20 | 56.1 B | 76.9 B | U | 17 F | 36.0 | 63.0 | 14 F | 26 | 30 B | 29 B | 47 | NS | NA | NA |
| mercury | 0.7 | 1 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | U | NS | NA | NA |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | NS | | NS | | NS | | NS | | NS | NS | NS | NS | 440 | 310 |
| ammonia | 2 | 0.2 | NS | | NS | | NS | | NS | | NS | NS | NS | NS | 0.059 J | 0.29 |
| BOD5 | -- | 2.4 | NS | | NS | | NS | | NS | | NS | NS | NS | NS | 2.8 B | U |
| bromide | 2 | 0.5 | NS | | NS | | NS | | NS | | NS | NS | NS | NS | U | U |
| COD | -- | 5 | NS | | NS | | NS | | NS | | NS | NS | NS | NS | 9.0 J | U |
| chloride | 250 | 1 | NS | | NS | | NS | | NS | | NS | NS | NS | NS | 4.8 | 2.2 J |
| color | 15 | 5 | NS | | NS | | NS | | NS | | NS | NS | NS | NS | U | **20** |
| fluoride | 1.5 | 1 | NS | | NS | | NS | | NS | | NS | NS | NS | NS | U | U |
| hardness, Total | -- | 1 | NS | | NS | | NS | | NS | | NS | NS | NS | NS | 330 | 280 |
| nitrate | 10 | 1 | NS | | NS | | NS | | NS | | NS | NS | NS | NS | 0.097 J | U |
| TKN | 1 | 1 | NS | | NS | | NS | | NS | | NS | NS | NS | NS | 0.55 J | 0.59 J |
| sulfate | 250 | 1 | NS | | NS | | NS | | NS | | NS | NS | NS | NS | 4.2 J | 6.2 |
| TDS | 500 | 10 | NS | | NS | | NS | | NS | | NS | NS | NS | NS | 360 | 310 |
| TOC | -- | 1 | NS | | NS | | NS | | NS | | NS | NS | NS | NS | 2.4 B | 2.2 |
| phenolics, Total | -- | 0.005 | NS | | NS | | NS | | NS | | NS | NS | NS | NS | U | U |

For notes, please refer to the end of the tables section.

**Table 4-1**

**Groundwater and Surface Water Sampling Results (continued)**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF7MW-29 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 2/6/2003 | 6/17/2003 | 9/9/2003 | 12/3/2003 | 3/25/2004 | 6/23/2004 | 9/14/2004 | 12/8/2004 | 3/30/2005 | 6/21/2005 | 9/6/2005 | 12/14/2005 | 3/10/2006 |
| Sample ID No. | | | LF7MW2923AA | LF7MW2920BB | LF7M2923CA | LF7M2923DA | LF7M2923EA | LF7M2923FA | LF7M2923GA | LF7M2923HA | LF7M2923IA | LF7M2923JA | LF7M2923KA | LF7M2923LA | LF7M2923MA |
| Depth to Water (ft) | | | 17.71 | 16.17 | 17.21 | 16.59 | 16.57 | 16.45 | 17.40 | 18.17 | 17.25 | 17.28 | 19.21 | 18.37 | 16.52 |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 5* | 1 | U | U | U | U | U | NA | NA | NA | U | NA | NA | NA | NA |
| 1,1-dichloroethene | 5* | 1 | U | U | U | U | U | NA | NA | NA | U | NA | NA | NA | NA |
| benzene | 1 | 0.1 | U | U | U | U | U | NA | NA | NA | U | NA | NA | NA | NA |
| cis-1,2-dichloroethene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| methylene chloride | 5* | 1 | U | U | U | U | U | NA | NA | NA | U | NA | NA | NA | NA |
| trichloroethene (TCE) | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| toluene | 5* | 1 | 0.16 F | U | U | U | U | NA | NA | NA | U | NA | NA | NA | NA |
| trans-1,2-dichloroethene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| **Metals (µg/L) [Dissolved / Total][1]** | | | | | | | | | | | | | | | |
| aluminum | 2,000 | 200 | 22.5 F | 43.5 F | U | 31.8 F | 54.4 F | U | U | U | U | U | 60.5 F | U | 29.6 F |
| antimony | 3 | 50 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| arsenic | 25 | 30 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| barium | 1,000 | 50 | 4.8 F | 5.8 F | 4.3 F | 5.3 F | 5.6 F | 5.3 F | 4.3 F | 3.5 F | 3.9 F | 3.5 F | 3.1 F | 35.4 F | 5.8 F |
| berylium | 3 | 4 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| boron, Total | 1,000 | 110 | U | 48.9 B | NA | NA | 4.9 F | NA | NA | NA | 5.7 F | NA | NA | NA | 3.6 F |
| cadmium | 5 | 5 | U | U | U | U | U | U | U | U | U | U | 0.9 F | U | U |
| calcium | -- | 1,100 | 4,498.5 | 3,060 | 4,000 | 3,600 | 3,240 | 3,290 | 3,920 | 4,030 | 3,620 | 3,120 | 4,110 | 112,000 | 3,150 |
| chromium | 50 | 10 | 0.9 F | U | U | U | U | U | U | U | U | U | U | 8.9 F | 0.8 F |
| cobalt | -- | 60 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| copper | 200 | 10 | U | U | U | U | U | U | 2.4 F | U | U | U | 1.9 F | 1.6 F | U |
| iron | 300 | 200 | 32.8 F | U | U | U | 70.4 F | 50.9 F | U | U | 24.7 F | U | U | 46 F | 29.8 F |
| lead | 25 | 25 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| magnesium | 35,000 | 1,000 | 1,224.9 | 773 F | 1,040.0 | 938 F | 842 F | 835 F | 1,040.0 | 1,040 | 954 F | 850 | 1,000 | 14,000 | 862 F |
| manganese | 300 | 10 | 5.9 F | 3.3 F | 2.9 F | 3.4 F | 4.7 F | 2.5 F | 2.2 F | 1.2 F | 1.3 F | 0.90 F | 6.6 F | **379** | 3.2 F |
| molybdenum | -- | 15 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| nickel | 100 | 20 | U | U | U | U | U | U | U | U | U | 2.4 F | U | 1.8 F | U |
| potassium | -- | 1,000 | 210.2 F | 446 F | 612 F | 558 F | 445 F | 447 F | 570 F | 585 F | 476 F | 430 F | 544 F | 1,570 | 358 |
| selenium | -- | 30 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| silver | 50 | 10 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| sodium | 20,000 | 1,000 | 2,229.1 | 1,490 | 1,680 | 1,750 | 1,530 | 1,480 | 1,720 | 1,800 | 1,680 | 1,100 | 1,750 | **59,800** | 1,830 |
| thallium | 0.5 | 80 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| vanadium | -- | 10 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| zinc | 2,000 | 20 | 5.7 F | U | U | 3.5 F | U | U | U | U | U | U | 9.9 F | 3.5 F | 3.2 F |
| mercury | 0.7 | 1 | U | U | NA | NA | U | NA | NA | NA | U | NA | NA | NA | U |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 13 | U | U | U | 6.7 F | 313 B | 7.2 F | 9.2 F | 5.2 F | 7.7 F | 10 | 10.4 | 8.7 F |
| ammonia | 2 | 0.2 | U | U | U | U | U | 0.023 F | 0.011 F | U | U | 0.76 | 0.012 F | U | 0.023 F |
| BOD5 | -- | 2.4 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| bromide | 2 | 0.5 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| COD | -- | 5 | 5.43 | U | U | U | U | U | 11.9 | U | U | U | U | U | U |
| chloride | 250 | 1 | 1.5687 | 1.1 | 1.5 | 1.7 | 2.5 | 1.4 | 1.5 | 1.5 | 1.3 | 1.2 | 1.8 | 80.9 | 1.1 |
| color | 15 | 5 | U | 0 | NA | NA | U | NA | NA | NA | 12 J | NA | NA | NA | U |
| fluoride | 1.5 | 1 | 0.0397 F | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| hardness, Total | -- | 1 | 19.61 | U | 28 | 68 | 16 | 48 | 30 | 24 | 18 | 36 | 8 | 321 | 4.4 |
| nitrate | 10 | 1 | 0.2163 | U | U | U | 1.9 | 0.029 F | U | U | U | U | 0.03 F | 0.33 F | 0.033 F |
| TKN | 1 | 1 | U | 0.25 B | U | U | U | 0.24 B | 0.42 | 0.25 | 0.8 | 0.098 F | U | 0.076 F | 0.22 |
| sulfate | 250 | 1 | 7.7013 | 7.2 | 7.3 | 7.5 | 12.7 | 7.2 | 7.3 | 7.2 | 7.4 | 7.1 | 7.2 | 32 | 6.9 |
| TDS | 500 | 10 | 10.0 SU | 40 | 21 | 33 | 221 | 17 F | 27 | 46 | 27 | 47 | 30 | 95 | 44 |
| TOC | -- | 1 | 0.59 SU | U | U | U | U | U | U | U | U | U | U | U | U |
| phenolics, Total | -- | 0.005 | U | U | U | U | U | U | U | 0.0062 F | U | 0.01 | U | U | 0.045 |

For notes, please refer to the end of the tables section.

**Table 4-1**

**Groundwater and Surface Water Sampling Results (continued)**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF7MW-29 | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 9/12/2006 | | 3/28/2007 | | 9/24/2007 | | 3/27/2008 | | 9/16/2008 | 4/17/2009 | 3/25/2010 | 6/20/2011 | 6/20/2013 | 7/8/2015 |
| Sample ID No. | | | LF7M2923NA | | LF7M2923OA | | LF7M2923PA | | LF7M2923QA | | LF7M2923RA | LF7M2923SA | LF7M2923TA | LF7M2923UA | LF7M2923VA | LF7M2923WA |
| Depth to Water (ft) | | | 17.48 | | 15.30 | | 18.50 | | 14.14 | | 18.04 | 14.96 | 17.95 | 14.37 | 16.68 | 16.46 |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 5* | 1 | NS | | NS | | NS | | NS | | NS | NS | NS | NA | NA | NA |
| 1,1-dichloroethene | 5* | 1 | NS | | NS | | NS | | NS | | NS | NS | NS | NA | NA | NA |
| benzene | 1 | 0.1 | NS | | NS | | NS | | NS | | NS | NS | NS | NA | NA | NA |
| cis-1,2-dichloroethene | 5* | 1 | NS | | NS | | NS | | NS | | NS | NS | NS | NA | NA | NA |
| methylene chloride | 5* | 1 | NS | | NS | | NS | | NS | | NS | NS | NS | NA | NA | NA |
| trichloroethene (TCE) | 5* | 1 | NS | | NS | | NS | | NS | | NS | NS | NS | NA | NA | NA |
| toluene | 5* | 1 | NS | | NS | | NS | | NS | | NS | NS | NS | NA | NA | NA |
| trans-1,2-dichloroethene | 5* | 1 | NS | | NS | | NS | | NS | | NS | NS | NS | NA | NA | NA |
| **Metals (µg/L) [Dissolved / Total][1]** | | | | | | | | | | | | | | | | |
| aluminum | 2,000 | 200 | U | 77 F | 77 F | 180 F | U | 180 F | 53 F | 60 F | 260 B | U | 190 F | NA | NA | NA |
| antimony | 3 | 50 | U | U | U | U | U | U | U | 1.7 F | U | U | U | NA | NA | NA |
| arsenic | 25 | 30 | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA |
| barium | 1,000 | 50 | 3.28 F | 4.1 F | 12 F | 13 F | 5.7F | 6.5F | 29 F | 29 F | 11 F | 21 F | 4.4 F | NA | NA | NA |
| berylium | 3 | 4 | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA |
| boron, Total | 1,000 | 110 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| cadmium | 5 | 5 | U | U | 1.0 F | 1.5 F | U | U | U | U | U | U | U | NA | NA | NA |
| calcium | -- | 1,100 | 3,520 B | 3,580 B | 2,800 | 2,900 | 3,900 | 4,200 | 2,300 | 2,200 | 4,000 B | 2,100 | 4,100 | NA | NA | NA |
| chromium | 50 | 10 | U | U | 3.5 F | 6.3 F | U | U | U | 3.4 F | U | U | U | NA | NA | NA |
| cobalt | -- | 60 | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA |
| copper | 200 | 10 | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA |
| iron | 300 | 200 | U | 33 F | 7.6 F | 110 F | 39F | 130F | U | 23 F | 160 F | U | 76 F | NA | NA | NA |
| lead | 25 | 25 | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA |
| magnesium | 35,000 | 1,000 | 924 F | 940 | 730 | 780 F | 1,000 | 1,100 | 380 F | 390 F | 1,100 | 510 F | 1,100 | NA | NA | NA |
| manganese | 300 | 10 | 2.89 F | 2.18 F | 4.4 F | 9.2 F | U | 4.9F | 14 | 14 | 6.2 F | 7.3 F | 3.2 F | NA | NA | NA |
| molybdenum | -- | 15 | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA |
| nickel | 100 | 20 | U | U | U | U | U | U | U | 2.7 F | U | U | U | NA | NA | NA |
| potassium | -- | 1,000 | 400 F | 410 F | U | 480 F | 580F | 590F | 320 F | 310 F | 480 F | 240 F | 630 F | NA | NA | NA |
| selenium | -- | 30 | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA |
| silver | 50 | 10 | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA |
| sodium | 20,000 | 1,000 | 1,480 B | 1,450 | 1,400 | 1,300 | 1,800 | 1,800 | 1,500 | 1,800 | 1,700 B | 1,200 | 2,000 | NA | NA | NA |
| thallium | 0.5 | 80 | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA |
| vanadium | -- | 10 | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA |
| zinc | 2,000 | 20 | 18.3 F | 26.5 B | U | U | 30J | 23J | 15 F | 14 F | 23 | 14 F | 14 F | NA | NA | NA |
| mercury | 0.7 | 1 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | NS | | NS | | NS | | NS | | NS | NS | NS | 2.2 F | 6.7 | 7.3 B |
| ammonia | 2 | 0.2 | NS | | NS | | NS | | NS | | NS | NS | NS | 0.17 F | 0.029 J | U |
| BOD5 | -- | 2.4 | NS | | NS | | NS | | NS | | NS | NS | NS | U | U | U |
| bromide | 2 | 0.5 | NS | | NS | | NS | | NS | | NS | NS | NS | U | U | U |
| COD | -- | 5 | NS | | NS | | NS | | NS | | NS | NS | NS | U | 5.4 J | U |
| chloride | 250 | 1 | NS | | NS | | NS | | NS | | NS | NS | NS | 0.70 F | 0.90 J | 1.0 J |
| color | 15 | 5 | NS | | NS | | NS | | NS | | NS | NS | NS | U | U | U |
| fluoride | 1.5 | 1 | NS | | NS | | NS | | NS | | NS | NS | NS | U | U | U |
| hardness, Total | -- | 1 | NS | | NS | | NS | | NS | | NS | NS | NS | 7.6 | 12 | 8.6 |
| nitrate | 10 | 1 | NS | | NS | | NS | | NS | | NS | NS | NS | U | U | U |
| TKN | 1 | 1 | NS | | NS | | NS | | NS | | NS | NS | NS | 0.27 F | 0.24 J | 0.65 J |
| sulfate | 250 | 1 | NS | | NS | | NS | | NS | | NS | NS | NS | 6.6 | 5.7 | 6.4 |
| TDS | 500 | 10 | NS | | NS | | NS | | NS | | NS | NS | NS | 30 | 20 | 27 |
| TOC | -- | 1 | NS | | NS | | NS | | NS | | NS | NS | NS | 0.60 F | 0.60 JB | 0.52 J |
| phenolics, Total | -- | 0.005 | NS | | NS | | NS | | NS | | NS | NS | NS | NA | U | U |

For notes, please refer to the end of the tables section.

**Table 4-1**
**Groundwater and Surface Water Sampling Results (continued)**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF7MW-30 | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 2/6/2003 | 6/17/2003 | 9/10/2003 | 12/3/2003 | 3/24/2004 | 6/23/2004 | 9/14/2004 | 12/9/2004 | 3/30/2005 | 6/21/2005 | 9/7/2005 | 12/14/2005 |
| Sample ID No. | | | LF7MW3011AA | LF7MW3011BB | LF7M3007CA | LF7M3011DA | LF7M3008EA | LF7M3008FA | LF7M3004GA | LF7M3004HA | LF7M3004IA | LF7M3004JA | LF7M3004KA | LF7M3004LA |
| Depth to Water (ft) | | | 2.99 | 3.49 | 3.82 | 3.02 | 2.90 | 3.40 | 3.64 | 3.11 | 2.94 | 3.88 | 4.32 | 3.61 |
| **VOCs (µg/L)** | | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 5* | 1 | 0.17 F | U | U | U | U | NA | NA | NA | U | NA | NA | NA |
| 1,1-dichloroethene | 5* | 1 | U | U | U | U | U | NA | NA | NA | U | NA | NA | NA |
| benzene | 1 | 0.1 | U | U | U | U | U | NA | NA | NA | U | NA | NA | NA |
| cis-1,2-dichloroethene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U |
| methylene chloride | 5* | 1 | U | U | U | U | U | NA | NA | NA | U | NA | NA | NA |
| trichloroethene (TCE) | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U |
| toluene | 5* | 1 | 0.20 F | U | U | U | U | NA | NA | NA | U | NA | NA | NA |
| trans-1,2-dichloroethene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U |
| **Metals (µg/L) [Dissolved / Total][1]** | | | | | | | | | | | | | | |
| aluminum | 2,000 | 200 | 55.2 F | 108 F | 40.2 F | U | 32.6 F | U | U | U | U | U | U | 167 F |
| antimony | 3 | 50 | U | U | U | U | U | U | U | U | U | U | U | U |
| arsenic | 25 | 30 | U | U | U | U | U | U | U | U | U | U | U | U |
| barium | 1,000 | 50 | 23.6 F | 29.4 F | 31.3 F | 22.5 F | 30 F | 28.8 F | 31.2 F | 32.1 F | 33 F | 32.3 F | 32.8 F | 4.3 F |
| berylium | 3 | 4 | U | U | U | U | 0.4 F | U | U | U | U | U | U | U |
| boron, Total | 1,000 | 110 | U | 52.2 B | NA | NA | 8.9 F | NA | NA | NA | 9.2 F | NA | NA | NA |
| cadmium | 5 | 5 | U | U | U | U | U | U | U | U | U | U | U | U |
| calcium | -- | 1,100 | 93,405.9 | 97,600 | 96,300 | 96,800 | 114,000 | 113,000 | 118,000 | 125,000 | 134,000 | 123,000 | 89,300 | 4,210 |
| chromium | 50 | 10 | 4.5 F | **88.1** | 7.7 F | 5.6 F | **510** | **214** | 38.3 | 2.4 F | **53.8** | 5.4 F | 1.7 F | 2.1 F |
| cobalt | -- | 60 | U | U | U | U | U | U | U | U | U | U | U | U |
| copper | 200 | 10 | U | 3.5 F | U | U | 16.4 | 6.3 F | 3.9 F | U | 2.8 F | U | U | 2.9 F |
| iron | 300 | 200 | 275.6 | **496** | 114 F | 41.5 F | **2,630** | **696** | 175 F | U | **463** | 26.9 F | U | 166 F |
| lead | 25 | 25 | U | U | U | U | U | U | U | U | U | U | U | U |
| magnesium | 35,000 | 1,000 | 12,774.6 | 13,600 | 13,500 | 13,300 | 15,600 | 14,700 | 15,400 | 15,700 | 16,600 | 15,700 | 10,300 | 1,130 |
| manganese | 300 | 10 | **355.6** | **314** | 198 | 85.6 | 196 | **350** | **461** | 248 | 268 | 89.6 | **391** | 9.4 F |
| molybdenum | -- | 15 | 4.3 F | U | U | U | 8.9 F | 3.6 F | U | U | 0.9 F | U | U | U |
| nickel | 100 | 20 | 6.2 F | 13.5 F | 26.3 | 16.6 F | 54 | 12.5 F | 10.9 F | 2.5 F | 11.2 F | 3.9 F | 3 F | U |
| potassium | -- | 1,000 | 735.8 F | 1,500 | 1,710 | 1,500 | 1,600 | 1,430 | 1,740 | 1,630 | 1,460 | 1,540 | 1,420 | 594 F |
| selenium | -- | 30 | U | U | U | U | U | U | U | U | U | U | U | U |
| silver | 50 | 10 | U | U | U | U | U | U | U | U | U | U | U | U |
| sodium | 20,000 | 1,000 | 4,621.1 | 12,300 | 14,700 | 5,110 | **34,300** | 14,600 | **23,700** | **24,300** | **24,400** | **37,100** | **52,800** | 1,690 |
| thallium | 0.5 | 80 | U | U | U | U | U | U | U | U | U | U | U | U |
| vanadium | -- | 10 | U | U | U | U | U | U | U | U | U | U | U | U |
| zinc | 2,000 | 20 | 7.3 F | U | U | U | 3.6 F | U | U | U | 2.7 F | U | U | 6.7 F |
| mercury | 0.7 | 1 | U | U | NA | NA | U | NA | NA | NA | U | NA | NA | NA |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 226 | 264 | 261 | 240 | 282 | 266 B | 66.6 F | 380 | 332 | 381 | 264 | 336 |
| ammonia | 2 | 0.2 | U | U | 0.072 | U | U | U | U | U | U | 0.12 | 0.17 | U |
| BOD5 | -- | 2.4 | U | U | U | U | U | U | U | U | U | U | U | U |
| bromide | 2 | 0.5 | U | U | U | U | U | U | U | U | U | U | U | U |
| COD | -- | 5 | U | U | U | U | U | 7 F | 52 | 14.8 | U | U | U | U |
| chloride | 250 | 1 | 41.5736 | 27.3 | 33.7 | 47.2 | 76.6 | 31.7 | 48.8 | 0.51 F | 62.4 | 52.5 | 77.4 | 1.9 |
| color | 15 | 5 | U | 0 | NA | NA | **40** | NA | NA | NA | UJ | NA | NA | NA |
| fluoride | 1.5 | 1 | U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| hardness, Total | -- | 1 | 286.31 | 30.4 | 341 | 320 | 400 | 328 | 370 | 484 | 384 | 384 | 285 | 24.7 |
| nitrate | 10 | 1 | 1.0192 | 3.6 | U | 2.6 | 2.2 | 1.8 | 0.74 F | 0.25 F | 1.9 | 0.96 F | 0.09 F | U |
| TKN | 1 | 1 | U | 0.27 B | 0.22 | U | 0.09 F | 0.49 B | 0.37 | 0.17 F | 0.34 | 0.5 | 0.37 | 0.097 F |
| sulfate | 250 | 1 | 10.4815 | 15.3 | 12.8 | 13.2 | 21.8 | 27.7 | 15.5 | 5 | 35.3 | 29.8 | 22.6 | 8.1 |
| TDS | 500 | 10 | 276 | 379 | 353 | 398 | 476 | 395 | 469 | 438 | 451 | 500 | 462 | **542** |
| TOC | -- | 1 | 1.15 | U | U | U | 1.2 | U | 1.1 | 1.6 | 1.1 | 1.6 | 1.4 | 0.91 F |
| phenolics, Total | -- | 0.005 | U | U | U | U | U | U | U | 0.0069 F | U | 0.0070 F | U | U |

For notes, please refer to the end of the tables section.

**Table 4-1**
**Groundwater and Surface Water Sampling Results (continued)**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF7MW-30 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 3/10/2006 | 9/13/2006 | | 3/29/2007 | | 9/24/2007 | | 3/27/2008 | | 9/16/2008 | 4/17/2009 | 3/25/2010 | 6/20/2011 | 6/20/2013 | 6/25/2015 |
| Sample ID No. | | | LF7M3004MA | LF7M3004NA | | LF7M3004OA | | LF7M3004PA | | LF7M3001QA | | LF7M3001RA | LF7M3004SA | LF7M3010TA | LF7M3010UA | LF7M3010VA | LF7M3010WA |
| Depth to Water (ft) | | | 2.66 | 3.60 | | 2.28 | | 4.13 | | 2.57 | | 3.79 | 3.20 | 3.09 | 3.40 | 3.55 | 3.81 |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 5* | 1 | NA | NS | | NS | | NS | | NS | | NS | NS | NS | NA | NA | NA |
| 1,1-dichloroethene | 5* | 1 | NA | NS | | NS | | NS | | NS | | NS | NS | NS | NA | NA | NA |
| benzene | 1 | 0.1 | NA | NS | | NS | | NS | | NS | | NS | NS | NS | NA | NA | NA |
| cis-1,2-dichloroethene | 5* | 1 | U | NS | | NS | | NS | | NS | | NS | NS | NS | NA | NA | NA |
| methylene chloride | 5* | 1 | NA | NS | | NS | | NS | | NS | | NS | NS | NS | NA | NA | NA |
| trichloroethene (TCE) | 5* | 1 | U | NS | | NS | | NS | | NS | | NS | NS | NS | NA | NA | NA |
| toluene | 5* | 1 | NA | NS | | NS | | NS | | NS | | NS | NS | NS | NA | NA | NA |
| trans-1,2-dichloroethene | 5* | 1 | U | NS | | NS | | NS | | NS | | NS | NS | NS | NA | NA | NA |
| **Metals (µg/L) [Dissolved / Total][1]** | | | | | | | | | | | | | | | | | |
| aluminum | 2,000 | 200 | U | U | U | 48 F | 66 F | U | U | U | U | U | U | 150 F | NA | NA | NA |
| antimony | 3 | 50 | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA |
| arsenic | 25 | 30 | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA |
| barium | 1,000 | 50 | 37.9 F | 41.1 F | 40.1 F | 33 F | 32 F | 57 | 58 | 31 F | 32 F | 59 | 37 F | 43 F | NA | NA | NA |
| berylium | 3 | 4 | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA |
| boron, Total | 1,000 | 110 | 8.3 F | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| cadmium | 5 | 5 | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA |
| calcium | -- | 1,100 | 143,000 | 157,000 | 161,000 | 140,000 | 140,000 | 190,000 | 200,000 | 130,000 | 130,000 | 210,000 | 130,000 | 140,000 | NA | NA | NA |
| chromium | 50 | 10 | 8.7 F | 2.7 F | 4.76 F | 4.8 F | 14 | 3F | 7.8F | 2.3 F | 8.5 F | 4.7 F | 18 | 43 | NA | NA | NA |
| cobalt | -- | 60 | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA |
| copper | 200 | 10 | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA |
| iron | 300 | 200 | 70.4 F | U | 13.1 F | 6.7 F | 49 F | U | 29F | U | 67 F | 47 F | 140 F | **390** | NA | NA | NA |
| lead | 25 | 25 | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA |
| magnesium | 35,000 | 1,000 | 19,600 | 20,600 | 21,000 | 18,000 | 18,000 | 23,000 | 24,000 | 19,000 | 19,000 | 28,000 | 19,000 | 23,000 | NA | NA | NA |
| manganese | 300 | 10 | **302** | 116 | 129 | 38 | 180 | 190 | **480** | 57 | **340** | **500** | **580** | **2,300** | NA | NA | NA |
| molybdenum | -- | 15 | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA |
| nickel | 100 | 20 | 1.9 F | U | U | U | 1.7 F | 2F | 2.7F | U | 1.2 F | 1.7 F | 2.9 F | 6.0 F | NA | NA | NA |
| potassium | -- | 1,000 | 1,360 | 1,550 | 1,570 | 1,400 | 1,500 | 1,700 | 1,800 | 1,400 | 1,400 | 1,900 | 1,400 | 1,700 | NA | NA | NA |
| selenium | -- | 30 | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA |
| silver | 50 | 10 | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA |
| sodium | 20,000 | 1,000 | **31,300** | 18,200 | 18,900 | 18,000 | 18,000 | 12,000 | 12,000 | 18,000 | 18,000 | 13,000 | **24,000** | 6,000 | NA | NA | NA |
| thallium | 0.5 | 80 | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA |
| vanadium | -- | 10 | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA |
| zinc | 2,000 | 20 | 5.8 F | 17 F | 24.7 B | U | U | 49J | 22J | 10 F | 10 F | 11 F | 11 F | 6.9 F | NA | NA | NA |
| mercury | 0.7 | 1 | U | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 358 | NS | | NS | | NS | | NS | | NS | NS | NS | 320 | 350 | 310 |
| ammonia | 2 | 0.2 | U | NS | | NS | | NS | | NS | | NS | NS | NS | 0.27 | 0.033 J | 0.033 J |
| BOD5 | -- | 2.4 | U | NS | | NS | | NS | | NS | | NS | NS | NS | U | U | U |
| bromide | 2 | 0.5 | U | NS | | NS | | NS | | NS | | NS | NS | NS | U | U | U |
| COD | -- | 5 | U | NS | | NS | | NS | | NS | | NS | NS | NS | U | 7.0 J | U |
| chloride | 250 | 1 | 51.4 | NS | | NS | | NS | | NS | | NS | NS | NS | 5.4 | 5.6 | 2.9 J |
| color | 15 | 5 | U | NS | | NS | | NS | | NS | | NS | NS | NS | U | U | U |
| fluoride | 1.5 | 1 | NA | NS | | NS | | NS | | NS | | NS | NS | NS | U | 0.064 J | U |
| hardness, Total | -- | 1 | 381 | NS | | NS | | NS | | NS | | NS | NS | NS | 380 | 410 | 350 |
| nitrate | 10 | 1 | 1.4 | NS | | NS | | NS | | NS | | NS | NS | NS | 1.4 | 1.4 | 1.6 |
| TKN | 1 | 1 | 0.4 | NS | | NS | | NS | | NS | | NS | NS | NS | 0.33 F | 0.42 J | U |
| sulfate | 250 | 1 | 44.2 | NS | | NS | | NS | | NS | | NS | NS | NS | 63 | 49 | 27 |
| TDS | 500 | 10 | 482 | NS | | NS | | NS | | NS | | NS | NS | NS | 440 | 450 | 370 |
| TOC | -- | 1 | 0.78 F | NS | | NS | | NS | | NS | | NS | NS | NS | 1.5 | 1.7B | 1.5 |
| phenolics, Total | -- | 0.005 | U | NS | | NS | | NS | | NS | | NS | NS | NS | NA | U | U |

For notes, please refer to the end of the tables section.

**Table 4-1**

**Groundwater and Surface Water Sampling Results (continued)**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF7MW-100 | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 2/7/2003 | 6/18/2003 | 9/10/2003 | 12/4/2003 | 3/25/2004 | 6/24/2004 | 9/15/2004 | 12/9/2004 | 3/30/2005 | 6/22/2005 | 9/7/2005 | 12/15/2005 |
| Sample ID No. | | | LF7MW10046AA | LF7MW1004SBB | NS | LF7M10045DA | LF7M10045EA | LF7M10045FA | LF7M10045GA | LF7M10045HA | LF7M10045IA | NS | LF7M10044KA | LF7M10045LA |
| Depth to Water (ft) | | | 45.40 | 45.18 | NS | 44.85 | 44.75 | 44.85 | 44.93 | 45.00 | 44.95 | 44.93 | 44.85 | 44.85 |
| **VOCs (µg/L)** | | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 5* | 1 | U | U | NS | U | U | NA | NA | NA | U | NS | NA | NA |
| 1,1-dichloroethene | 5* | 1 | U | U | NS | U | U | NA | NA | NA | U | NS | NA | NA |
| benzene | 1 | 0.1 | 0.56 | U | NS | U | U | NA | NA | NA | U | NS | NA | NA |
| cis-1,2-dichloroethene | 5* | 1 | U | U | NS | U | U | U | U | U | U | NS | U | U |
| methylene chloride | 5* | 1 | U | U | NS | U | U | NA | NA | NA | U | NS | NA | NA |
| trichloroethene (TCE) | 5* | 1 | U | U | NS | U | U | U | U | U | U | NS | U | U |
| toluene | 5* | 1 | U | 2.9 | NS | U | U | NA | NA | NA | U | NS | NA | NA |
| trans-1,2-dichloroethene | 5* | 1 | U | U | NS | U | U | U | U | U | U | NS | U | U |
| **Metals (µg/L) [Dissolved / Total][1]** | | | | | | | | | | | | | | |
| aluminum | 2,000 | 200 | NA | NA | NS | NA | NA | NS | NA | NA | NA | NS | NS | NS |
| antimony | 3 | 50 | NA | NA | NS | NA | NA | NS | NA | NA | NA | NS | NS | NS |
| arsenic | 25 | 30 | NA | NA | NS | NA | NA | NS | NA | NA | NA | NS | NS | NS |
| barium | 1,000 | 50 | NA | NA | NS | NA | NA | NS | NA | NA | NA | NS | NS | NS |
| berylium | 3 | 4 | NA | NA | NS | NA | NA | NS | NA | NA | NA | NS | NS | NS |
| boron, Total | 1,000 | 110 | NA | NA | NS | NA | NA | NS | NA | NA | NA | NS | NS | NS |
| cadmium | 5 | 5 | NA | NA | NS | NA | NA | NS | NA | NA | NA | NS | NS | NS |
| calcium | -- | 1,100 | NA | NA | NS | NA | NA | NS | NA | NA | NA | NS | NS | NS |
| chromium | 50 | 10 | NA | NA | NS | NA | NA | NS | NA | NA | NA | NS | NS | NS |
| cobalt | -- | 60 | NA | NA | NS | NA | NA | NS | NA | NA | NA | NS | NS | NS |
| copper | 200 | 10 | NA | NA | NS | NA | NA | NS | NA | NA | NA | NS | NS | NS |
| iron | 300 | 200 | NA | NA | NS | NA | NA | NS | NA | NA | NA | NS | NS | NS |
| lead | 25 | 25 | NA | NA | NS | NA | NA | NS | NA | NA | NA | NS | NS | NS |
| magnesium | 35,000 | 1,000 | NA | NA | NS | NA | NA | NS | NA | NA | NA | NS | NS | NS |
| manganese | 300 | 10 | NA | NA | NS | NA | NA | NS | NA | NA | NA | NS | NS | NS |
| molybdenum | -- | 15 | NA | NA | NS | NA | NA | NS | NA | NA | NA | NS | NS | NS |
| nickel | 100 | 20 | NA | NA | NS | NA | NA | NS | NA | NA | NA | NS | NS | NS |
| potassium | -- | 1,000 | NA | NA | NS | NA | NA | NS | NA | NA | NA | NS | NS | NS |
| selenium | -- | 30 | NA | NA | NS | NA | NA | NS | NA | NA | NA | NS | NS | NS |
| silver | 50 | 10 | NA | NA | NS | NA | NA | NS | NA | NA | NA | NS | NS | NS |
| sodium | 20,000 | 1,000 | NA | NA | NS | NA | NA | NS | NA | NA | NA | NS | NS | NS |
| thallium | 0.5 | 80 | NA | NA | NS | NA | NA | NS | NA | NA | NA | NS | NS | NS |
| vanadium | -- | 10 | NA | NA | NS | NA | NA | NS | NA | NA | NA | NS | NS | NS |
| zinc | 2,000 | 20 | NA | NA | NS | NA | NA | NS | NA | NA | NA | NS | NS | NS |
| mercury | 0.7 | 1 | NA | NA | NS | NA | NA | NS | NA | NA | NA | NS | NS | NS |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | NA | NA | NS | NA | NA | NS | NA | NA | NA | NS | NS | NS |
| ammonia | 2 | 0.2 | NA | NA | NS | NA | NA | NS | NA | NA | NA | NS | NS | NS |
| BOD5 | -- | 2.4 | NA | NA | NS | NA | NA | NS | NA | NA | NA | NS | NS | NS |
| bromide | 2 | 0.5 | NA | NA | NS | NA | NA | NS | NA | NA | NA | NS | NS | NS |
| COD | -- | 5 | NA | NA | NS | NA | NA | NS | NA | NA | NA | NS | NS | NS |
| chloride | 250 | 1 | NA | NA | NS | NA | NA | NS | NA | NA | NA | NS | NS | NS |
| color | 15 | 5 | NA | NA | NS | NA | NA | NS | NA | NA | NA | NS | NS | NS |
| fluoride | 1.5 | 1 | NA | NA | NS | NA | NA | NS | NA | NA | NA | NS | NS | NS |
| hardness, Total | -- | 1 | NA | NA | NS | NA | NA | NS | NA | NA | NA | NS | NS | NS |
| nitrate | 10 | 1 | NA | NA | NS | NA | NA | NS | NA | NA | NA | NS | NS | NS |
| TKN | 1 | 1 | NA | NA | NS | NA | NA | NS | NA | NA | NA | NS | NS | NS |
| sulfate | 250 | 1 | NA | NA | NS | NA | NA | NS | NA | NA | NA | NS | NS | NS |
| TDS | 500 | 10 | NA | NA | NS | NA | NA | NS | NA | NA | NA | NS | NS | NS |
| TOC | -- | 1 | NA | NA | NS | NA | NA | NS | NA | NA | NA | NS | NS | NS |
| phenolics, Total | -- | 0.005 | NA | NA | NS | NA | NA | NS | NA | NA | NA | NS | NS | NS |

For notes, please refer to the end of the tables section.

**Table 4-1**
**Groundwater and Surface Water Sampling Results (continued)**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF7MW-100 | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 3/10/2006 | 9/13/2006 | 3/29/2007 | 9/24/2007 | 3/27/2008 | 9/16/2008 | 4/17/2009 | 3/25/2010 | 6/21/2011 | 6/25/2013 | 6/29/2015 |
| Sample ID No. | | | LF7M10045MA | LF7M10045NA | LF7M10045OA | LF7M10044PA | LF7M10045QA | LF7M10045RA | LF7M10045SA | LF7M10044TA | LF7M10044UA | LF7M10044VA | LF7M10044WA |
| Depth to Water (ft) | | | 44.70 | 44.59 | 44.59 | 44.65 | 44.68 | 44.81 | 44.53 | 45.45 | 44.28 | 43.60 | 43.53 |
| **VOCs (µg/L)** | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 5* | 1 | NA | NS | NS | NS | NS | NS | NS | NS | NA | NA | NA |
| 1,1-dichloroethene | 5* | 1 | NA | NS | NS | NS | NS | NS | NS | NS | NA | NA | NA |
| benzene | 1 | 0.1 | NA | NS | NS | NS | NS | NS | NS | NS | NA | NA | NA |
| cis-1,2-dichloroethene | 5* | 1 | U | NS | NS | NS | NS | NS | NS | NS | NA | NA | NA |
| methylene chloride | 5* | 1 | NA | NS | NS | NS | NS | NS | NS | NS | NA | NA | NA |
| trichloroethene (TCE) | 5* | 1 | U | NS | NS | NS | NS | NS | NS | NS | NA | NA | NA |
| toluene | 5* | 1 | NA | NS | NS | NS | NS | NS | NS | NS | NA | NA | NA |
| trans-1,2-dichloroethene | 5* | 1 | U | NS | NS | NS | NS | NS | NS | NS | NA | NA | NA |
| **Metals (µg/L) [Dissolved / Total][1]** | | | | | | | | | | | | | |
| aluminum | 2,000 | 200 | NS | NS | **4,620** | 63 F | **3,400** | U | **3,500** | NS | **4,100** | **8,400** | **8,800** | **5,500** | NA | NA | NA |
| antimony | 3 | 50 | NS | NS | U | U | U | U | U | NS | U | **11 F** | U | U | NA | NA | NA |
| arsenic | 25 | 30 | NS | NS | U | U | U | U | U | NS | U | U | 4.7 F | 10 F | NA | NA | NA |
| barium | 1,000 | 50 | NS | NS | 51.9 | 36 F | 53 | 35F | 44F | NS | 48 F | 97 | 67 | 69 | NA | NA | NA |
| berylium | 3 | 4 | NS | NS | U | U | U | U | U | NS | U | U | U | U | NA | NA | NA |
| boron, Total | 1,000 | 110 | NS | NS | NA | NA | NA | NA | NA | NS | NA | NA | NA | NA | NA | NA | NA |
| cadmium | 5 | 5 | NS | NS | 2.29 F | 10 F | 2.3 F | U | U | NS | 2.8 F | 0.67 F | 4.8 F | U | NA | NA | NA |
| calcium | -- | 1,100 | NS | NS | 57,000 | 55,000 | 55,000 | 47,000 | 48,000 | NS | 42,000 | 48,000 | 43,000 | 47,000 | NA | NA | NA |
| chromium | 50 | 10 | NS | NS | 26.1 | 2.0 F | 28 | U | 18 | NS | **11,000** | **4,300** | **20,000** | **21,000** | NA | NA | NA |
| cobalt | -- | 60 | NS | NS | U | U | U | U | U | NS | 46 F | U | 72 | 34 F | NA | NA | NA |
| copper | 200 | 10 | NS | NS | 50.3 | 7.6 F | 44 | 6.7F | 31 | NS | 130 | 98 | **200** | 180 | NA | NA | NA |
| iron | 300 | 200 | NS | NS | **1,600** | U | **1,400** | U | **920** | NS | **25,000** | **11,000** | **18,000** | **21,000** | NA | NA | NA |
| lead | 25 | 25 | NS | NS | U | U | U | U | U | NS | 9.3 F | 7.0 F | 12 F | 4.2 F | NA | NA | NA |
| magnesium | 35,000 | 1,000 | NS | NS | 13,900 | 13,000 | 14,000 | 12,000 | 12,000 | NS | 11,000 | 12,000 | 11,000 | 11,000 | NA | NA | NA |
| manganese | 300 | 10 | NS | NS | 300 | 210 | 250 | 150 | 180 | NS | **670** | 240 | **1,400** | **680** | NA | NA | NA |
| molybdenum | -- | 15 | NS | NS | 16 | 17 | 17 | 16 | 17 | NS | 260 | 150 | 350 | 370 | NA | NA | NA |
| nickel | 100 | 20 | NS | NS | 44.3 | 15 F | 38 | 13F | 31 | NS | **4,900** | **860** | **5,900** | **4,100** | NA | NA | NA |
| potassium | -- | 1,000 | NS | NS | 20,800 | 21,000 | 21,000 | 19,000 | 19,000 | NS | 19,000 | 18,000 | 19,000 | 20,000 | NA | NA | NA |
| selenium | -- | 30 | NS | NS | 4.39 F | 4.2 F | 5.0 F | U | 3.2 | NS | 5.5 F | 9.4 F | 5.8 F | U | NA | NA | NA |
| silver | 50 | 10 | NS | NS | U | U | U | U | U | NS | U | U | U | U | NA | NA | NA |
| sodium | 20,000 | 1,000 | NS | NS | **1,020,000** | **1,100,000** | **1,100,000** | **990,000** | **990,000** | NS | **990,000** | **950,000** | **1,000,000** | **910,000** | NA | NA | NA |
| thallium | 0.5 | 80 | NS | NS | U | U | 1.7 F | U | U | NS | U | U | U | U | NA | NA | NA |
| vanadium | -- | 10 | NS | NS | 2.42 F | U | U | U | 1.5F | NS | 43.0 | 22.0 | 61 | 76 | NA | NA | NA |
| zinc | 2,000 | 20 | NS | NS | 401 | 26 | 61 | 30 | 110 | NS | 110 | 69 | 90 B | 46 | NA | NA | NA |
| mercury | 0.7 | 1 | NS | NS | NA | NA | NA | NA | NA | NS | NA | NA | NA | NS | NA | NA | NA |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | NS | NS | NS | NS | NS | NS | NS | NS | 530 | 510 | NS |
| ammonia | 2 | 0.2 | NS | NS | NS | NS | NS | NS | NS | NS | 0.56 | NA | 1.2 |
| BOD5 | -- | 2.4 | NS | NS | NS | NS | NS | NS | NS | NS | U | NA | NS |
| bromide | 2 | 0.5 | NS | NS | NS | NS | NS | NS | NS | NS | **2.5 F** | **2.4** | NS |
| COD | -- | 5 | NS | NS | NS | NS | NS | NS | NS | NS | 84 | NA | 83 |
| chloride | 250 | 1 | NS | NS | NS | NS | NS | NS | NS | NS | 200 | 210 | NS |
| color | 15 | 5 | NS | NS | NS | NS | NS | NS | NS | NS | **25** | NA | NS |
| fluoride | 1.5 | 1 | NS | NS | NS | NS | NS | NS | NS | NS | 0.73 J | 0.86 J | NS |
| hardness, Total | -- | 1 | NS | NS | NS | NS | NS | NS | NS | NS | 180 | NA | 120 |
| nitrate | 10 | 1 | NS | NS | NS | NS | NS | NS | NS | NS | 0.78 F | 1.0 | NS |
| TKN | 1 | 1 | NS | NS | NS | NS | NS | NS | NS | NS | 0.18 F | NA | U |
| sulfate | 250 | 1 | NS | NS | NS | NS | NS | NS | NS | NS | **500** | **450** | NS |
| TDS | 500 | 10 | NS | NS | NS | NS | NS | NS | NS | NS | **3,000** | **2,700** | NS |
| TOC | -- | 1 | NS | NS | NS | NS | NS | NS | NS | NS | 33 | 29 | NS |
| phenolics, Total | -- | 0.005 | NS | NS | NS | NS | NS | NS | NS | NS | NA | NA | NS |

For notes, please refer to the end of the tables section.

**Table 4-1**
**Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class A Surface Water Standards | Reporting Limit | LF7WL-3 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 2/7/2003 | 6/17/2003 | 9/10/2003 | 12/3/2003 | 3/24/2004 | 6/23/2004 | 9/14/2004 | 12/8/2004 | 3/30/2005 | 6/21/2005 | 9/7/2005 | 12/15/2005 | 3/10/2006 |
| Sample ID No. | | | NS | LF7WL0300BB | LF7WL0301CA | NS | LF7WL0301EA | LF7WL0301FA | LF7WL0301GA | LF7WL0301HA | LF7WL0301IA | LF7WL0301JA | NS | LF7WL0301LA | LF7WL0301MA |
| Depth to Water (ft) | | | surface | surface | surface | NS | surface | surface | surface | surface | surface | surface | NS | surface | surface |
| **VOCs in (µg/L)** | | | | | | | | | | | | | | | |
| cis-1,2-dichloroethene | 5 | 1 | NS | U | U | NS | U | U | U | U | U | U | NS | U | U |
| trichloroethylene | 5 | 1 | NS | U | U | NS | U | U | U | U | U | U | NS | 0.61 F | U |
| trans-1,2-dichloroethene | 5 | 1 | NS | U | U | NS | U | U | U | U | U | U | NS | U | U |
| vinyl chloride | 0.3 | 1 | NS | U | U | NS | U | U | U | U | U | U | NS | U | U |
| **Metals (µg/L) [Dissolved / Total][1]** | | | | | | | | | | | | | | | |
| aluminum | 100 | 200 | NS | 34.4 F | **349** | NS | U | U | **222** | U | U | **1,860** | NS | **236** | 74.1 F |
| antimony | 3 | 50 | NS | U | U | NS | U | U | U | U | U | U | NS | U | U |
| arsenic | 50 | 30 | NS | U | **52.9** | NS | U | U | 5.9 F | 4.2 F | U | 5 F | NS | 5.5 F | U |
| barium | 1,000 | 50 | NS | 188 | 234 | NS | 17.4 F | 106 | 95.1 | U | 50.1 | 146 | NS | 59 | 30.2 F |
| berylium | 3 | 4 | NS | U | 0.3 F | NS | U | U | U | U | U | U | NS | U | U |
| boron, Total | 1,000 | 110 | NS | 124 B | NA | NS | 15.9 | NA | NA | NA | 21.8 | NA | NS | NA | 17.6 |
| cadmium | 5 | 5 | NS | U | U | NS | U | U | U | U | U | 0.4 F | NS | U | U |
| calcium | -- | 1,100 | NS | 96,900 | 77,800 | NS | 43,700 | 63,600 | 74,400 | 43,400 | 24,800 | 38,500 | NS | 111,000 | 20,600 |
| chromium | 50 | 10 | NS | U | U | NS | U | U | U | U | U | 2 F | NS | 1 F | 1.1 F |
| cobalt | 5 | 60 | NS | U | 3.7 F | NS | U | U | 1.8 F | U | U | 3.3 F | NS | U | U |
| copper | 200 | 10 | NS | U | 8.2 F | NS | U | U | 4.2 F | U | U | 6.6 F | NS | 3.9 F | U |
| iron | 300 | 200 | NS | **4,680** | **99,100** | NS | 58.9 F | **1,990** | **32,700** | **2,600** | **362** | **12,400** | NS | **8,200** | 170 F |
| lead | 50 | 25 | NS | 5.0 F | 9.4 F | NS | U | U | U | U | U | 4.4 F | NS | U | U |
| magnesium | 35,000 | 1,000 | NS | 14,600 | 14,100 | NS | 6,280 | 5,680 | 9,110 | 5,850 | 2,450 | 5,810 | NS | 17,800 | 2,920 |
| manganese | 300 | 10 | NS | **7,050** | **7,780** | NS | 32.6 | 214 | **1,690** | **448** | **400** | **3,540** | NS | **436** | 73.7 |
| nickel | 100 | 20 | NS | U | 4.4 F | NS | U | U | 1.8 F | U | U | 6.4 F | NS | U | U |
| potassium | -- | 1,000 | NS | 125 F | 243 F | NS | 1,250 | 499 F | 136 F | 1,660 | 1,350 | 433 F | NS | 2,190 | 1,400 |
| selenium | 10 | 30 | NS | U | 8.5 F | NS | U | U | U | U | U | U | NS | U | U |
| sodium | -- | 1,000 | NS | 2,660 | 4,580 | NS | 1,210 | U | 583 F | 377 F | 553 F | 1,210 | NS | 9,540 | 1,690 |
| thallium | 0.5 | 80 | NS | **5.8 F** | **14.9 F** | NS | U | U | U | U | U | U | NS | U | U |
| vanadium | -- | 10 | NS | U | 7.6 F | NS | U | U | 1.8 F | U | U | 4.4 F | NS | 1 F | U |
| zinc | 2,000 | 20 | NS | U | 46.8 | NS | 2.8 F | 11.5 F | 12.5 F | U | U | 40.1 | NS | 14.3 F | 5.2 F |
| mercury | 0.7 | 1 | NS | U | NA | NS | U | NA | NA | NA | U | NA | NS | NA | U |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | NS | 304 | 210 | NS | 132 | 142 B | 35 | 133 | 78.5 | 179 | NS | 321 | 61.5 |
| ammonia | 2 | 0.2 | NS | U | U | NS | U | 0.02 F | 0.025 F | U | U | U | NS | U | U |
| BOD5 | -- | 2.4 | NS | U | 8.7 | NS | U | 3 | U | 2.2 | U | 4.2 | NS | 4 | U |
| bromide | 2 | 0.5 | NS | U | U | NS | U | U | U | U | U | U | NS | U | U |
| COD | -- | 5 | NS | 27.4 | 276 | NS | U | 34.9 | 32.5 | 15.8 | U | 44.7 | NS | 21.4 | U |
| chloride | 250 | 1 | NS | U | 9.4 | NS | 2 | 0.65 F | 0.44 F | 0.94 F | 0.9 F | 0.35 F | NS | 27.5 | 2.1 |
| color | 15 | 5 | NS | **70** | NA | NS | 7.5 | NA | NA | NA | **25 J** | NA | NS | NA | 13 |
| cyanide, Total | 200 | 0.02 | NS | U | NA | NS | U | NA | NA | NA | U | NA | NS | NA | U |
| Fluoride | 1.5 | 1 | NS | NA | NA | NS | NA | NA | NA | NA | NA | NA | NS | NA | NA |
| hardness, Total | -- | 1 | NS | 209 | 268 | NS | 330 | 190 | 250 | 136 | 78 | 236 | NS | 430 | 53.3 |
| nitrate | 10 | 1 | NS | U | U | NS | 0.16 F | U | U | U | U | U | NS | 0.11 F | 0.087 F |
| nitrite-N | 1 | 1 | NS | U | NA | NS | NA | NA | NA | NA | NA | NA | NS | NA | NA |
| TKN | 1 | 1 | NS | 0.87 B | **7.1** | NS | U | 0.75 B | 1 | 0.67 | 0.42 | 0.89 | NS | 1 B | U |
| sulfate | 250 | 1 | NS | 1 | 1.6 | NS | 4.7 | U | U | 5.7 | 0.86 F | 32.5 | NS | 6.8 | 3.8 |
| TDS | 500 | 10 | NS | 330 | 257 | NS | 154 | 199 | 240 | 146 | 81 | 241 | NS | 382 | 76 |
| TOC | -- | 1 | NS | 9.3 | 5.3 | NS | 1.8 | 8.4 | 6.2 | 2.2 | 2.2 | 9.0 | NS | 3.9 | 2.4 B |
| phenolics, Total | -- | 0.005 | NS | U | U | NS | U | U | U | U | U | 0.0090 F | NS | 0.004 F | U |

For notes, please refer to the end of the tables section.

**Table 4-1**
**Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class A Surface Water Standards | Reporting Limit | LF7WL-3 | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 9/12/2006 | | 3/29/2007 | | 9/24/2007 | 3/27/2008 | | 9/16/2008 | | 4/21/2009 | 4/1/2010 | 6/20/2011 | 6/25/2013 | 6/25/2015 |
| Sample ID No. | | | LF7WL0301NA | | LF7WL0301OA | | LF7WL0301PA | LF7WL0301QA | | LF7WL0301RA | | LF7WL0301SA | LF7WL0301TA | LF7WL0301UA | LF7WL0301VA | LF7WL0301WA |
| Depth to Water (ft) | | | surface | | surface | | surface | surface | | surface | | surface | surface | surface | surface | surface |
| **VOCs in (µg/L)** | | | | | | | | | | | | | | | | |
| cis-1,2-dichloroethene | 5 | 1 | NS | | NS | | NS | NS | | NS | | NS | NS | NS | NS | NS |
| trichloroethylene | 5 | 1 | NS | | NS | | NS | NS | | NS | | NS | NS | NS | NS | NS |
| trans-1,2-dichloroethene | 5 | 1 | NS | | NS | | NS | NS | | NS | | NS | NS | NS | NS | NS |
| vinyl chloride | 0.3 | 1 | NS | | NS | | NS | NS | | NS | | NS | NS | NS | NS | NS |
| **Metals (µg/L) [Dissolved / Total][1]** | | | | | | | | | | | | | | | | |
| aluminum | 100 | 200 | U | **18,200** | 56 F | **180 F** | NS | U | **110 F** | U | 64 F | U | U | NS | NS | NS |
| antimony | 3 | 50 | U | U | U | U | NS | U | 1.9 F | U | U | U | U | NS | NS | NS |
| arsenic | 50 | 30 | U | **755** | U | U | NS | U | U | U | U | U | U | NS | NS | NS |
| barium | 1,000 | 50 | 108 | **11,900** | 21 F | 50 | NS | 19 F | 29 F | 51 | 55 | 33 F | 18 F | NS | NS | NS |
| berylium | 3 | 4 | U | U | U | U | NS | U | U | U | U | U | U | NS | NS | NS |
| boron, Total | 1,000 | 110 | NA | NA | NA | NA | NS | NA | NA | NA | NA | NA | NA | NS | NS | NS |
| cadmium | 5 | 5 | U | **26.3 F** | U | 0.55 F | NS | U | U | U | U | U | U | NS | NS | NS |
| calcium | -- | 1,100 | 88,600 | 418,000 | 48,000 | 48,000 | NS | 66,000 | 67,000 | 71,000 | 79,000 | 7,400 | 62,000 | NS | NS | NS |
| chromium | 50 | 10 | U | U | 2.1 F | 3.5 F | NS | U | U | U | U | U | U | NS | NS | NS |
| cobalt | 5 | 60 | U | **388 F** | U | U | NS | U | U | U | U | U | U | NS | NS | NS |
| copper | 200 | 10 | U | 145 | U | 2.3 F | NS | U | 2.4 F | U | U | U | U | NS | NS | NS |
| iron | 300 | 200 | 250 | **4,050,000** | 5.4 F | **520** | NS | U | **550** | 69 F | **440** | **1,200** | 82 F | NS | NS | NS |
| lead | 50 | 25 | U | **147 F** | U | U | NS | U | U | U | U | U | U | NS | NS | NS |
| magnesium | 35,000 | 1,000 | 12,300 | 33,500 | 5,900 | 5,900 | NS | 8,400 | 8,600 | 8,800 | 9,900 | 10,000 | 8,000 | NS | NS | NS |
| manganese | 300 | 10 | **2,880** | **218,000** | 3.0 F | **960** | NS | U | 250 | **570** | **650** | **310** | 10 | NS | NS | NS |
| nickel | 100 | 20 | U | 88.9 F | U | U | NS | U | U | U | U | U | U | NS | NS | NS |
| potassium | -- | 1,000 | 2,480 | 5,680 F | 1,300 | 1,400 | NS | 970 F | 1,000 | 2,000 | 2,000 | 1,400 | 1,600 | NS | NS | NS |
| selenium | 10 | 30 | U | U | U | U | NS | U | U | U | U | U | U | NS | NS | NS |
| sodium | -- | 1,000 | 4,070 B | 5,070 F | 4,600 | 4,600 | NS | 3,000 | 3,100 | 7,200 B | 7,800 B | 6,000 | 4,000 | NS | NS | NS |
| thallium | 0.5 | 80 | U | U | U | U | NS | U | U | U | U | U | U | NS | NS | NS |
| vanadium | -- | 10 | U | 167 | U | U | NS | U | U | U | U | U | U | NS | NS | NS |
| zinc | 2,000 | 20 | 18.8 F | 1,100 | U | 9.3 F | NS | 10 F | 23 | 14 F | 18 F | 18 F | 6.2 F | NS | NS | NS |
| mercury | 0.7 | 1 | NA | NA | NA | NA | NS | NA | NA | NA | NA | NA | NA | NS | NS | NS |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | NS | | NS | | NS | NS | | NS | | NS | NS | NS | NS | NS |
| ammonia | 2 | 0.2 | NS | | NS | | NS | NS | | NS | | NS | NS | NS | NS | NS |
| BOD5 | -- | 2.4 | NS | | NS | | NS | NS | | NS | | NS | NS | NS | NS | NS |
| bromide | 2 | 0.5 | NS | | NS | | NS | NS | | NS | | NS | NS | NS | NS | NS |
| COD | -- | 5 | NS | | NS | | NS | NS | | NS | | NS | NS | NS | NS | NS |
| chloride | 250 | 1 | NS | | NS | | NS | NS | | NS | | NS | NS | NS | NS | NS |
| color | 15 | 5 | NS | | NS | | NS | NS | | NS | | NS | NS | NS | NS | NS |
| cyanide, Total | 200 | 0.02 | NS | | NS | | NS | NS | | NS | | NS | NS | NS | NS | NS |
| Fluoride | 1.5 | 1 | NS | | NS | | NS | NS | | NS | | NS | NS | NS | NS | NS |
| hardness, Total | -- | 1 | NS | | NS | | NS | NS | | NS | | NS | NS | NS | NS | NS |
| nitrate | 10 | 1 | NS | | NS | | NS | NS | | NS | | NS | NS | NS | NS | NS |
| nitrite-N | 1 | 1 | NS | | NS | | NS | NS | | NS | | NS | NS | NS | NS | NS |
| TKN | 1 | 1 | NS | | NS | | NS | NS | | NS | | NS | NS | NS | NS | NS |
| sulfate | 250 | 1 | NS | | NS | | NS | NS | | NS | | NS | NS | NS | NS | NS |
| TDS | 500 | 10 | NS | | NS | | NS | NS | | NS | | NS | NS | NS | NS | NS |
| TOC | -- | 1 | NS | | NS | | NS | NS | | NS | | NS | NS | NS | NS | NS |
| phenolics, Total | -- | 0.005 | NS | | NS | | NS | NS | | NS | | NS | NS | NS | NS | NS |

For notes, please refer to the end of the tables section.

**Table 4-1**
**Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class A Surface Water Standards | Reporting Limit | LF7WL-4 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 2/7/2003 | 6/17/2003 | 9/10/2003 | 12/3/2003 | 3/24/2004 | 6/23/2004 | 9/14/2004 | 12/8/2004 | 3/30/2005 | 6/21/2005 | 9/7/2005 | 12/15/2005 | 3/10/2006 |
| Sample ID No. | | | NS | LFWL0400BB | LF7WL0401CA | NS | LF7WL0401EA | LF7WL0401FA | LF7WL0401GA | LF7WL0401HA | LF7WL0401IA | LF7WL0401JA | NS | NS | LF7WL0401MA |
| Depth to Water (ft) | | | surface | surface | surface | NS | surface | surface | surface | surface | surface | surface | NS | NS | surface |
| **VOCs in (µg/L)** | | | | | | | | | | | | | | | |
| cis-1,2-dichloroethene | 5 | 1 | NS | U | U | NS | U | U | U | U | U | U | NS | NS | U |
| trichloroethylene | 5 | 1 | NS | 0.24 F | U | NS | U | U | U | U | U | U | NS | NS | U |
| trans-1,2-dichloroethene | 5 | 1 | NS | U | U | NS | U | U | U | U | U | U | NS | NS | U |
| vinyl chloride | 0.3 | 1 | NS | U | U | NS | U | U | U | U | U | U | NS | NS | U |
| **Metals (µg/L) [Dissolved / Total][1]** | | | | | | | | | | | | | | | |
| aluminum | 100 | 200 | NS | 83.4 F | **3,490** | NS | U | 43.5 F | U | **113 F** | **402** | **1,600** | NS | NS | **155 F** |
| antimony | 3 | 50 | NS | U | **29.6 F** | NS | U | U | U | U | U | U | NS | NS | U |
| arsenic | 50 | 30 | NS | U | **491** | NS | U | U | U | 4.1 F | U | 5.5 F | NS | NS | U |
| barium | 1,000 | 50 | NS | 44.7 F | **2,110** | NS | 17.9 F | 123 | 90.1 | 398 | 159 | 88.3 | NS | NS | 25.9 F |
| berylium | 3 | 4 | NS | U | 1.2 F | NS | U | U | U | U | U | U | NS | NS | U |
| boron, Total | 1,000 | 110 | NS | 151 B | NA | NS | 28.8 | NA | NA | NA | U | NA | NS | NS | 19.1 |
| cadmium | 5 | 5 | NS | U | U | NS | U | U | U | U | U | U | NS | NS | U |
| calcium | -- | 1,100 | NS | 164,000 | 415,000 | NS | 57,300 | 66,300 | 70,000 | 57,400 | 166,000 | 167,000 | NS | NS | 22,100 |
| chromium | 50 | 10 | NS | U | 6.6 F | NS | U | U | U | U | U | 2.5 F | NS | NS | 1.4 F |
| cobalt | 5 | 60 | NS | U | **16.6 F** | NS | U | U | U | 4.5 F | 1.5 F | 3.4 F | NS | NS | U |
| copper | 200 | 10 | NS | U | 50.7 | NS | U | 3.3 F | 2.7 F | 2.7 F | 15.2 | 10.4 | NS | NS | 2.3 F |
| iron | 300 | 200 | NS | **1,690** | **1,240,000** | NS | 104 F | 122 F | 66.2 F | **20,300** | **22,400** | **29,200** | NS | NS | 260 |
| lead | 50 | 25 | NS | U | **84** | NS | U | U | U | U | 8.2 F | 7.8 F | NS | NS | U |
| magnesium | 35,000 | 1,000 | NS | 14,300 | 20,100 | NS | 7,080 | 8,930 | 11,000 | 6,320 | 8,530 | 8,680 | NS | NS | 2,650 |
| manganese | 300 | 10 | NS | **602** | **27,300** | NS | 20.5 | 40.5 | 44.5 | **9,530** | **4,850** | **3,540** | NS | NS | 9.5 F |
| nickel | 100 | 20 | NS | U | 28 | NS | U | U | U | U | 3.8 F | 8.3 F | NS | NS | U |
| potassium | -- | 1,000 | NS | 8,130 | 7,090 | NS | 2,730 | 1,760 | 2,700 | 3,330 | 2,360 | 4,580 | NS | NS | 1,590 |
| selenium | 10 | 30 | NS | U | **55.1** | NS | U | U | U | 5.1 F | U | U | NS | NS | U |
| sodium | -- | 1,000 | NS | 3,790 | 4,930 | NS | 1,720 | 1,800 | 3,220 | 1,030 | 1,720 | 1,650 | NS | NS | 1,580 |
| thallium | 0.5 | 80 | NS | U | **138** | NS | U | U | U | U | U | U | NS | NS | U |
| vanadium | -- | 10 | NS | U | 63 | NS | U | U | U | U | 4 F | 4.8 F | NS | NS | U |
| zinc | 2,000 | 20 | NS | U | 339 | NS | 3.5 F | 8.1 F | U | 23 | 60.9 | 27.4 | NS | NS | 5.7 F |
| mercury | 0.7 | 1 | NS | U | NA | NS | U | NA | NA | NA | U | NA | NS | NS | U |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | NS | 370 | 309 | NS | 153 | 155 B | 53.4 | 234 | 208 | 390 | NS | NS | 63.2 |
| ammonia | 2 | 0.2 | NS | U | **70.4** | NS | U | 0.011 F | 0.012 F | 0.044 F | 0.075 | 0.070 | NS | NS | 0.059 |
| BOD5 | -- | 2.4 | NS | 2.1 | 41.3 | NS | U | U | U | 3.8 | 6.9 | 8.4 | NS | NS | U |
| bromide | 2 | 0.5 | NS | U | U | NS | U | U | U | U | U | U | NS | NS | U |
| COD | -- | 5 | NS | 24.9 | U | NS | 18 | 22 | 16.5 | 28 | 21.5 | 26.2 | NS | NS | U |
| chloride | 250 | 1 | NS | 3.6 | 4.9 | NS | 2 | U | 2.2 | 1.8 | 1 | 2.9 | NS | NS | 1.2 |
| color | 15 | 5 | NS | **40** | NA | NS | 7.5 | NA | NA | NA | 15 J | NA | NS | NS | 15 |
| cyanide, Total | 200 | 0.02 | NS | U | NA | NS | U | NA | NA | NA | U | NA | NS | NS | U |
| Fluoride | 1.5 | 1 | NS | NA | NA | NS | NA | NA | NA | NA | NA | NA | NS | NS | NA |
| hardness, Total | -- | 1 | NS | 422 | 1,460 | NS | 310 | 192 | 230 | 216 | 425 | 670 | NS | NS | 53.5 |
| nitrate | 10 | 1 | NS | U | U | NS | 0.1 F | U | U | U | 0.06 F | U | NS | NS | 0.16 F |
| nitrite-N | 1 | 1 | NS | U | NA | NS | NA | NA | NA | NA | NA | NA | NS | NS | NA |
| TKN | 1 | 1 | NS | 0.84 B | **30.2** | NS | 0.15 F | 0.71 B | 0.54 | **1.4** | 0.79 | **2.5** | NS | NS | 0.3 |
| sulfate | 250 | 1 | NS | 34.5 | U | NS | 22.3 | 16.4 | 0.81 F | 25.7 | 16.3 | 18.6 | NS | NS | 7 |
| TDS | 500 | 10 | NS | 480 | 334 | NS | 189 | 216 | 258 | 283 | 179 | 422 | NS | NS | 72 |
| TOC | -- | 1 | NS | 4.2 | 4 | NS | 2.4 | 6.3 | 4.6 | 5.3 | 2.1 | 5 | NS | NS | 2.1 B |
| phenolics, Total | -- | 0.005 | NS | U | 0.064 | NS | U | U | U | 0.0087 F | U | 0.0050 F | NS | NS | U |

For notes, please refer to the end of the tables section.

**Table 4-1**
**Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class A Surface Water Standards | Reporting Limit | LF7WL-4 | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 9/12/2006 | | 3/29/2007 | | 9/24/2007 | 3/27/2008 | | 9/16/2008 | | 4/21/2009 | 4/1/2010 | 6/20/2011 | 6/25/2013 | 6/25/2015 |
| Sample ID No. | | | LF7WL0401MA | | LF7WL0401OA | | LF7WL0401PA | LF7WL0401QA | | LF7WL0401RA | | LF7WL0401SA | LF7WL0401TA | LF7WL0401UA | LF7WL0401VA | LF7WL0401WA |
| Depth to Water (ft) | | | surface | | surface | | surface | surface | | surface | | surface | surface | surface | surface | surface |
| **VOCs in (µg/L)** | | | | | | | | | | | | | | | | |
| cis-1,2-dichloroethene | 5 | 1 | NS | | NS | | NS | NS | | NS | | NS | NS | NS | NS | NA |
| trichloroethylene | 5 | 1 | NS | | NS | | NS | NS | | NS | | NS | NS | NS | NS | NA |
| trans-1,2-dichloroethene | 5 | 1 | NS | | NS | | NS | NS | | NS | | NS | NS | NS | NS | NA |
| vinyl chloride | 0.3 | 1 | NS | | NS | | NS | NS | | NS | | NS | NS | NS | NS | NA |
| **Metals (µg/L) [Dissolved / Total][1]** | | | | | | | | | | | | | | | | |
| aluminum | 100 | 200 | U | **173 F** | 50 F | 52 F | NS | U | 47 F | U | U | U | U | NS | NS | NA |
| antimony | 3 | 50 | U | U | U | U | NS | U | U | U | U | U | U | NS | NS | NA |
| arsenic | 50 | 30 | U | 46.2 | U | U | NS | U | U | U | U | U | U | NS | NS | NA |
| barium | 1,000 | 50 | 59.8 | 229 | 11 F | 11 F | NS | 15 F | 14 F | 23 F | 90 | 13 F | 43 F | NS | NS | NA |
| berylium | 3 | 4 | U | U | U | U | NS | U | U | U | U | U | U | NS | NS | NA |
| boron, Total | 1,000 | 110 | NA | NA | NA | NA | NS | NA | NA | NA | NA | NA | NA | NS | NS | NA |
| cadmium | 5 | 5 | U | U | U | 0.47 F | NS | U | U | U | U | U | U | NS | NS | NA |
| calcium | -- | 1,100 | 87,700 | 101,000 | 61,000 | 63,000 | NS | 80,000 | 76,000 | 79,000 | 92,000 | 63,000 | 68,000 | NS | NS | NA |
| chromium | 50 | 10 | U | U | 1.7 F | 3.2 F | NS | U | U | U | 1.5 F | U | U | NS | NS | NA |
| cobalt | 5 | 60 | U | U | U | U | NS | U | U | U | U | U | U | NS | NS | NA |
| copper | 200 | 10 | U | 3.07 F | U | U | NS | U | U | U | 3.0 F | U | U | NS | NS | NA |
| iron | 300 | 200 | **8,490** | **119,000** | U | 65 F | NS | 5.9 F | 69 F | U | **3,800** | 39 F | 26 F | NS | NS | NA |
| lead | 50 | 25 | U | U | U | U | NS | U | U | U | U | U | U | NS | NS | NA |
| magnesium | 35,000 | 1,000 | 12,100 | 12,500 | 7,500 | 7,900 | NS | 8,900 | 8,600 | 12,000 | 13,000 | 10,000 | 8,700 | NS | NS | NA |
| manganese | 300 | 10 | **2,150** | **2,880** | U | 12 | NS | U | 2.4 F | 16 | **3,400** | 12 | 4.9 F | NS | NS | NA |
| nickel | 100 | 20 | U | 2.52 F | U | U | NS | U | U | U | 2.1 F | 2.9 F | U | NS | NS | NA |
| potassium | -- | 1,000 | 2,800 | 3,020 | 1,700 | 1,700 | NS | 2,100 | 2,000 | 2,700 | 2,800 | 1,200 | 5,800 | NS | NS | NA |
| selenium | 10 | 30 | U | U | U | U | NS | U | U | U | U | U | U | NS | NS | NA |
| sodium | -- | 1,000 | 3,940 B | 3,940 | 1,500 | 1,500 | NS | 2,400 | 2,200 | 4,500 | 4,100 | 1,500 | 4,300 | NS | NS | NA |
| thallium | 0.5 | 80 | U | U | U | U | NS | U | U | U | U | U | U | NS | NS | NA |
| vanadium | -- | 10 | 0.93 F | 8.65 F | U | U | NS | U | U | U | U | U | U | NS | NS | NA |
| zinc | 2,000 | 20 | 21.8 B | 43.3 B | U | U | NS | 9.7 F | 11 F | 14 F | 27 | 12 F | 5.3 F | NS | NS | NA |
| mercury | 0.7 | 1 | NA | NA | NA | NA | NS | NA | NA | NA | NA | NA | NA | NS | NS | NA |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | NS | | NS | | NS | NS | | NS | | NS | NS | NS | NS | 240 |
| ammonia | 2 | 0.2 | NS | | NS | | NS | NS | | NS | | NS | NS | NS | NS | 0.038 J |
| BOD5 | -- | 2.4 | NS | | NS | | NS | NS | | NS | | NS | NS | NS | NS | U |
| bromide | 2 | 0.5 | NS | | NS | | NS | NS | | NS | | NS | NS | NS | NS | U |
| COD | -- | 5 | NS | | NS | | NS | NS | | NS | | NS | NS | NS | NS | U |
| chloride | 250 | 1 | NS | | NS | | NS | NS | | NS | | NS | NS | NS | NS | 2.7 J |
| color | 15 | 5 | NS | | NS | | NS | NS | | NS | | NS | NS | NS | NS | **25** |
| cyanide, Total | 200 | 0.02 | NS | | NS | | NS | NS | | NS | | NS | NS | NS | NS | NS |
| Fluoride | 1.5 | 1 | NS | | NS | | NS | NS | | NS | | NS | NS | NS | NS | U |
| hardness, Total | -- | 1 | NS | | NS | | NS | NS | | NS | | NS | NS | NS | NS | 250 |
| nitrate | 10 | 1 | NS | | NS | | NS | NS | | NS | | NS | NS | NS | NS | U |
| nitrite-N | 1 | 1 | NS | | NS | | NS | NS | | NS | | NS | NS | NS | NS | U |
| TKN | 1 | 1 | NS | | NS | | NS | NS | | NS | | NS | NS | NS | NS | U |
| sulfate | 250 | 1 | NS | | NS | | NS | NS | | NS | | NS | NS | NS | NS | 1.3 JM |
| TDS | 500 | 10 | NS | | NS | | NS | NS | | NS | | NS | NS | NS | NS | 240 |
| TOC | -- | 1 | NS | | NS | | NS | NS | | NS | | NS | NS | NS | NS | 2.3 |
| phenolics, Total | -- | 0.005 | NS | | NS | | NS | NS | | NS | | NS | NS | NS | NS | U |

For notes, please refer to the end of the tables section.

**Table 4-2**
**LF003 (Landfill 7 AOC) LTM Network**

| Sampling Locations | Screen Interval Depth (ft MSL) | Sampling Rationale | Target Analytes/ Method Numbers[1] | Matrix | # of Samples | Sampling Frequency | 2016 Recommended Sampling Frequency | Evaluation Criteria |
|---|---|---|---|---|---|---|---|---|
| **Groundwater** | | ---------- | Landfill Leachate Indicators: | Water | 10 | Biennially | Every 5 Years | If downgradient wells do not exhibit exceedances of NYS Groundwater Standards or Base background levels for two successive monitoring events, evaluate monitoring frequency and number of wells. |
| LF7MW-22 | 479.12' – 474.19' | Downgradient from source, | Anions – SW9056 | | | | | |
| | | | Nitrogen (TKN) – 351.2 | | | | | |
| LF7MW-23 | 482.03' – 472.01' | within plume | Ammonia – 350.2 | | | | | |
| | | Downgradient from | COD – 410.4 | | | | | |
| LF7MW-26 | 495.53' – 485.53' | source, | BOD – 405.1 | | | | | |
| | | cross-gradient from | TOC – SW9060 | | | | | |
| LF7MW-27 | 500.91' – 490.91' | plume | TDS – 160.1 | | | | | |
| LF7MW-28 | 484.31' – 474.31' | Downgradient from | Alkalinity – 310.1 | | | | | |
| LF7MW-29 | 514.56' – 504.56' | source, within plume | Phenols – SW9066 | | | | | |
| LF7MW-30 | 494.67' – 484.67' | Downgradient from | Hardness – 130.2 | | | | | |
| LF7MW-100 | 470.57' – 460.57' | source | Color – 110.2 | | | | | |
| | | POC well | Boron – SW6010B | | | | | |
| | ---------- | Upgradient from source | | | | | | |
| | | Downgradient from | | | | | | |
| **Surface** | Depth to | source | | | | | | |
| **Water** | groundwater ranged | Downgradient from | | | | | | |
| LF7WL-3 | from less than | source, within plume, | | | | | | |
| | 1 ft to 17.71 ft bgs. | Bedrock well | | | | | | |
| LF7WL-4 | | ---------- | | | | | | |
| | | Potential contaminant receptor | | | | | | |
| | | Potential contaminant receptor | | | | | | |

1 Baseline parameters based on 6 NYCRR Part 360, Subpart 2, Appendix A.

**Table 5-1**
**Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF5MW-1A | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 2/3/2003 | 6/16/2003 | 9/8/2003 | 12/1/2003 | 3/26/2004 | 6/21/2004 | 9/13/2004 | 12/10/2004 | 3/30/2005 | 6/20/2005 | 9/6/2005 | 12/13/2005 | 3/9/2006 |
| Sample ID No. | | | LF5M1A22AA | LF5M1A21BB | LF5M1A22CA | LF5M1A21DA | LF5M1A21EA | LF5M1A21FA | LF5M1A21GA | LF5M1A22HA | LF5M1A221A | LF5M1A22JA | LF5M1A22KA | LF5M1A22LA | LF5M1A23MA |
| **Depth to Water (ft)** | | | **21.80** | **20.99** | **21.59** | **21.16** | **20.98** | **21.10** | **21.33** | **21.81** | **21.84** | **21.80** | **22.46** | **21.78** | **22.53** |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | |
| 1,2,3-trichlorobenzene | 5 | 1 | U | U | NA | NA | U | NA | NA | NA | U | NA | NA | NA | U |
| 1,2,4-trichlorobenzene | 5* | 1 | U | UM | NA | NA | U | NA | NA | NA | U | NA | NA | NA | U |
| 1,2,4-trimethylbenzene | 5* | 1 | U | UM | NA | NA | U | NA | NA | NA | UM | NA | NA | NA | UM |
| 1,3,5-trimethylbenzene | 5* | 1 | U | UM | NA | NA | U | NA | NA | NA | UM | NA | NA | NA | U |
| 4-chlorotoluene | 5* | 1 | U | 0.20 M | NA | NA | U | NA | NA | NA | U | NA | NA | NA | U |
| acetone | 50 | 10 | U | U | NA | NA | U | NA | NA | NA | 1.7 F | NA | NA | NA | U |
| carbon disulfide | 1,000 | 0.5 | U | U | NA | NS | U | NA | NA | NA | U | NA | NA | NA | U |
| chlorobenzene | 5* | 0.5 | U | UM | NA | NA | U | NA | NA | NA | U | NA | NA | NA | U |
| chloroform | 7 | 0.3 | 0.35 B | UM | NA | NA | 0.26 F | NA | NA | NA | 0.33 F | NA | NA | NA | U |
| naphthalene | 10 | 1 | U | UM | NA | NA | U | NA | NA | NA | U | NA | NA | NA | U |
| o-xylene | 5* | 1 | U | UM | NA | NA | U | NA | NA | NA | U | NA | NA | NA | U |
| styrene | 50* | 1 | U | UM | NA | NA | U | NA | NA | NA | UM | NA | NA | NA | UM |
| toluene | 5* | 1 | 0.16 F | UM | NA | NA | U | NA | NA | NA | U | NA | NA | NA | U |
| vinyl acetate | -- | 5 | U | U | NA | NA | U | NA | NA | NA | U | NA | NA | NA | U |
| **Metals (µg/L) [Dissolved / Total][1]** | | | | | | | | | | | | | | | |
| aluminum | 2,000 | 200 | **33,118.6** | **11,000 M** | **10,400** | **23,500** | **15,600 M** | **12,200 M** | **3,990** | **6,020** | **8,370 M** | **9,220 M** | **3,530 F** | 1,900 J | 1,520 |
| antimony | 3 | 50 | **21.8 F** | **21.0 F** | **17.5 F** | **14.3 F** | U | U | U | U | U | U | U | U | U |
| arsenic | 25 | 30 | **29.5 F** | 6.1 F | 8.7 F | 20.9 F | 10.3 F | 8.1 F | U | 5.2 F | 3.1 F | 3.8 F | U | U | U |
| barium | 1,000 | 50 | 233.1 | 91.7 | 92.9 | 152 | 117 | 108 | 68 | 74.8 | 99.1 M | 98.2 | 80.4 | 70.2 | 54.2 |
| berylium | 3 | 4 | 1.79 F | 0.50 F | 0.6 F | 1.2 F | 0.8 F | U | U | U | 0.5 F | 0.5 F | U | U | U |
| boron, Total | 1,000 | 10 | 35.5 F | 60.6 B | NA | NS | 24.4 | NA | NA | NA | 17.8 | NA | NA | NA | 15.1 |
| cadmium | 5 | 5 | U | U | U | U | 0.5 F | U | U | U | U | U | U | U | U |
| calcium | -- | 1,100 | 99,808.9 | 65,000 | 86,500 | 75,800 | 90,700 | 118,000 M | 106,000 | 145,000 | 140,000 | 126,000 | 191,000 | 139,000 | 101,000 |
| chromium | 50 | 10 | **14,712.7** | **1,160** | **1,100 M** | **749 J** | **346 M** | **1,000 M** | **240 M** | **394 F** | **447 M** | **965 M** | **458 M** | **219 M** | **610 M** |
| cobalt | -- | 60 | 52.5 | 10.1 F | 11.2 F | 22.8 F | 12.7 F | 11.3 F | 2.6 F | 4.5 F | 7.7 F | 11.5 F | 4.5 F | 2.2 F | 1.9 F |
| copper | 200 | 10 | **328.6** | 45.7 | 47.2 | 93.6 | 52.8 M | 56.4 | 15.5 | 22 J | 38.3 J | 37.6 | 18.1 J | 9 F | 13 |
| iron | 300 | 200 | **134,816.7** | **19,500** | **23,600 M** | **51,400** | **29,500** | **26,000 M** | **7,610** | **11,000** | **14,700 M** | **18,600 M** | **7,980 F** | **3,480 F** | **3,590 M** |
| lead | 25 | 25 | 22 F | 8.0 F | 9.2 F | 22.5 F | 12.6 F | 8.9 F | U | 3.9 F | 5.1 F | 4.1 F | U | U | U |
| magnesium | 35,000 | 1,000 | 19,850.2 | 6,510 | 6,890 | 11,600 | 9,270 | 9,600 M | 6,300 | 9,000 | 8,060 | 8,810 M | 9,590 | 7,050 | 5,020 |
| manganese | 300 | 10 | **4,461.8** | **1,000** | **941 M** | **2,360** | **1,450** | **1,180 M** | **310** | **419** | **620 M** | **869 M** | **340 M** | 136 M | 124 M |
| molybdenum | -- | 15 | 151.1 | 13.1 F | 14.1 F | 8.8 F | 4.6 F | 11.4 F | 2.9 F | 2.9 F | 3.1 F | 9.8 F | 5.4 F | 2.7 F | 9.9 F |
| nickel | 100 | 20 | **757.2** | 80.9 | 82.4 | **127** | 72.2 M | 81 | 33.1 J | 84.5 | **107 M** | **109 M** | **122** | 59.8 J | 45.3 M |
| potassium | -- | 1,000 | 6,355.4 | 4,850 M | 4,450.0 | 7,710 | 6,190 | 5,040 | 2,750 | 3,260 | 3,720 | 4,390 | 2,560 | 2,260 | 1,530 |
| selenium | 10 | 30 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| silver | 50 | 10 | 2.2 F | U | U | U | U | U | U | U | U | U | U | U | U |
| sodium | 20,000 | 1,000 | **70,416.3** | **32,400** | **79,900 M** | **74,000** | **47,400** | **47,600 M** | **71,500** | **92,200** | **126,000** | **111,000** | **135,000** | **166,000 M** | **104,000** |
| thallium | 0.5 | 80 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| vanadium | -- | 10 | 107.8 | 26.1 | 24.4 | 46.8 | 31.3 | 25.7 | 7.3 F | 11.4 | 16.4 J | 18.8 | 7.5 F | 4 F | 4.9 F |
| zinc | 2,000 | 20 | 171.3 | 42.7 | 59 | 116 | 69.1 | 55.2 M | 17 F | 24.9 | 34.9 | 37.7 M | 17.2 F | 7.3 F | 7.4 F |
| **PCBs (µg/L) [Filtered/Unfiltered]** | | | | | | | | | | | | | | | |
| aroclor 1242 | 0.09 | 0.5 | U | U | U | U | U | U | U | U | U | NA | NA | NA | U |
| aroclor 1248 | 0.09 | 0.5 | U | U | U | U | U | U | U | U | U | NA | NA | NA | U |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 247 | 180 | 252 M | 219 | 205 | 168 | 212 | 379 | 356 | 249 | 342 M | 252 | 240 |
| ammonia | 2 | 0.2 | U | 0.15 | UM | 0.11 F | 0.078 | U | 0.03 F | 0.14 | U | U | 0.029 F | U | U |
| BOD5 | -- | 2.4 | U | 6.1 B | UM | U | U | U | UM | U | UM | U | U | U | U |
| bromide | 2 | 0.5 | U | UM | UM | U | U | UM | U | U | U | U | U | U | U |
| COD | -- | 5 | 12.54 | 19.1 M | UM | U | U | U | U | U | U | 6.3 M | U | 19.4 M | UM |
| chloride | 250 | 1 | 74.323 R | 27.9 | 71.3 M | 83.2 | 126 | 184 | 231 | 147 | 184 | 262 | **325** | **363 M** | 203 M |
| color | 15 | 5 | **50** | **100** | NA | NA | **250** | NA | NA | NA | **400 F** | NA | NA | NA | **20** |
| cyanide | 200 | 0.02 | U | U | NA | NA | U | NA | NA | NA | U | NA | NA | NA | 0.0071 F |
| fluoride | 1 | 1.5 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| hardness, Total | -- | 1 | 1.94 | 221 | 269 | 300 | 272 | 308 | 320 | 444 | 290 | 384 | U | 80.3 M | 300 M |
| nitrate | 10 | 1 | 5.6315 | 5 M | **14.5 F** | U | 3.8 F | UM | 3.7 M | 3.4 | 3.3 M | 3.3 M | 3.3 M | 3.1 M | 2.6 |
| TKN | 1 | 1 | **1.12** | 0.43 | 0.79 M | 0.45 | 0.34 J | 0.36 | 0.17 F | 0.73 B | 0.34 | 0.22 | 0.36 M | 0.89 M | 0.91 M |
| sulfate | 250 | 1 | 16.6555 | 14 | 15.9 M | 16 | 10.7 | 12 | 11 | 15.1 | 19.1 M | 15.2 | 14.9 | 23.4 M | 14 |
| TDS | 500 | 10 | 275.6 | 325 | 451 | 434 | 494 | **608** | **626** | **667** | **649** | **707** | **1,040** | **848** | **577** |
| TOC | -- | 1 | 5.99 | 2.7 | 3.1 | 3.7 | 2.5 | 0.95 F | 2.7 | 4.2 | 3.9 | 3.5 | 3.2 | 2.2 | 2.3 |

For notes, please refer to the end of the tables section.

**Table 5-1**
**Groundwater and Surface Water Sampling Results (continued)**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF5MW-1A | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 9/12/2006 | | 3/27/2007 | | 9/24/2007 | | 3/27/2008 | | 9/15/2008 | | 4/7/2009 | | 3/24/2010 | | 6/9/2011 | | 6/4/2013 | | 6/17/2015 | |
| Sample ID No. | | | LF5M1A22NA | | LF51A21OA | | LF5M1A22PA | | LF5M1A20QA | | LF5M1A22RA | | LF5M1A20SA | | LF5M1A21TA | | LF5M1A21UA | | LF5M1A21VA | | LF5M1A21WA | |
| Depth to Water (ft) | | | 21.91 | | 20.52 | | 22.20 | | 20.12 | | 21.88 | | 20.32 | | 21.47 | | 19.62 | | 20.73 | | 19.49 | |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | | | | | | | | |
| 1,2,3-trichlorobenzene | 5 | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| 1,2,4-trichlorobenzene | 5* | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| 1,2,4-trimethylbenzene | 5* | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| 1,3,5-trimethylbenzene | 5* | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| 4-chlorotoluene | 5* | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| acetone | 50 | 10 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| carbon disulfide | 1,000 | 0.5 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| chlorobenzene | 5* | 0.5 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| chloroform | 7 | 0.3 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| naphthalene | 10 | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| o-xylene | 5* | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| styrene | 50* | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| toluene | 5* | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| vinyl acetate | -- | 5 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| **Metals (µg/L) [Dissolved / Total][1]** | | | | | | | | | | | | | | | | | | | | | | |
| aluminum | 2,000 | 200 | U | **1,870** | U | **13,000** | U | 5,700 | U | **9,500♦** | U | **4,800♦** | U | **14,000 F** | U | **4,600 ♦** | NA | | NA | | NA | |
| antimony | 3 | 50 | U | U | U | U | U | 2.5F | U | U | **3.9 F♦** | U | U | U | U | U | NA | | NA | | NA | |
| arsenic | 25 | 30 | U | U | U | 8.3 F | U | 5F | U | 8.0 F | U | 4.6 F♦ | U | 11 F | U | U | NA | | NA | | NA | |
| barium | 1,000 | 50 | 46 F | 55.7 | 34 F | 93 | 34F | 65 | 30 F | 78♦ | 50♦ | 82♦ | 36 F♦ | 99 | 69 ♦ | 76 | NA | | NA | | NA | |
| berylium | 3 | 4 | U | U | U | 0.73 F | U | .28F | 0.11 F | 0.87 F | U | 0.72 F♦ | U | 0.80 F | U | 0.24 F♦ | NA | | NA | | NA | |
| boron, Total | 1,000 | 10 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | | NA | |
| cadmium | 5 | 5 | U | U | U | U | U | U | U | 0.53 F | U | U | U | U | U | U | NA | | NA | | NA | |
| calcium | -- | 1,100 | 108,000 | 105,000 | 110,000 | 110,000 | 120,000 | 120,000 | 68,000 | 70,000♦ | 130,000 | 140,000♦ | 78,000 ♦ | 89,000 | 160,000 J ♦ | 110,000 J | NA | | NA | | NA | |
| chromium | 50 | 10 | U | **189** | 3.6 F | **1,400 F** | U | **620M** | U | **2,200 F** | U | **1,700♦** | U | **950 F♦** | U | **620 M** | NA | | NA | | NA | |
| cobalt | -- | 60 | U | U | U | 9.1 F | U | U | U | 7.8 F | U | 7.0 F | U | 11 F | U | U | NA | | NA | | NA | |
| copper | 200 | 10 | U | 9.79 F | 4.0 F | 55 | U | 26J | U | 45 J♦ | U | 38 | U | 51 | U | 19 | NA | | NA | | NA | |
| iron | 300 | 200 | 13.8 F | **4,740** | U | **25,000** | U | **13,000** | U | **27,000♦** | 22 F | **16,000** | U | **29,000 F** | 290 | **9,700 ♦** | NA | | NA | | NA | |
| lead | 25 | 25 | U | U | U | 9.7 F | U | U | U | 8.5 F♦ | U | U | U | 13 F | U | U | NA | | NA | | NA | |
| magnesium | 35,000 | 1,000 | 4,560 | 5,010 | 6,700 | 10,000 | 5,400 | 7,300 | 4,400 | 7,300♦ | 4,900♦ | 6,800♦ | 4,100 ♦ | 8,400 | 7,400 F ♦ | 6,200 | NA | | NA | | NA | |
| manganese | 300 | 10 | 8.63 F | 130 | 23 | **1,000** | 30F | **470** | 12 | **960♦** | 91 F♦ | **460♦** | 6.9 F♦ | **1,400 F** | 76 ♦ | **320** | NA | | NA | | NA | |
| molybdenum | -- | 15 | U | U | U | 13 F | U | 7.3F | U | 12 F♦ | U | 17.0 | U | 7.7 F♦ | U | 5.7 F♦ | NA | | NA | | NA | |
| nickel | 100 | 20 | 30.9 | 43.1 | 44 | **110 F** | 66.0 | **120F** | 17 F | **110 F♦** | **160 F♦** | **250** | 19 F♦ | **150 F♦** | 94 F | **230 F ♦** | NA | | NA | | NA | |
| potassium | -- | 1,000 | 1,080 | 1,720 | 1,000 | 4,900 | 1,100 | 2,600 | 1,100 | 3,800♦ | 1,200 | 2,800♦ | 1,000 | 4,900 J | 1,600 | 3,100 ♦ | NA | | NA | | NA | |
| selenium | 10 | 30 | U | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | | NA | | NA | |
| silver | 50 | 10 | U | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | | NA | | NA | |
| sodium | 20,000 | 1,000 | **146,000** | **142,000** | **57,000** | **58,000** | **100,000** | **100,000** | **92,000 J** | **93,000 J♦** | **140,000♦** | **150,000♦** | **110,000 J♦** | **130,000 J** | **300,000 J ♦** | **220,000 J** | NA | | NA | | NA | |
| thallium | 0.5 | 80 | U | **6.85 F** | U | U | U | U | U | 6.3 F | U | U | U | U | U | U | NA | | NA | | NA | |
| vanadium | -- | 10 | U | 4.35 F | U | 27 | U | 12 | U | 26 F♦ | U | 12 | U | 28 | U | 10 ♦ | NA | | NA | | NA | |
| zinc | 2,000 | 20 | 29.2 B | 37.1 B | U | 59 | U | 30 | 12 F | 60 B♦ | 15 F | 29♦ | 15 F♦ | 83 | 8.9 F♦ | 20 ♦ | NA | | NA | | NA | |
| **PCBs (µg/L) [Filtered/Unfiltered]** | | | | | | | | | | | | | | | | | | | | | | |
| aroclor 1242 | 0.09 | 0.5 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| aroclor 1248 | 0.09 | 0.5 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | 230 | | 250 ♦ | | 240 | |
| ammonia | 2 | 0.2 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | 0.17 F | | 0.15 ♦ | | 0.21 J♦ | |
| BOD5 | -- | 2.4 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | U | | U | | 8 | |
| bromide | 2 | 0.5 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | U | | U | | U | |
| COD | -- | 5 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | 6.6 F♦ | | 16 J | | 8.0 J | |
| chloride | 250 | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | 180 | | 310 ♦ | | 110 | |
| color | 15 | 5 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | 5 | | U | | 15 ♦ | |
| cyanide | 200 | 0.02 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | U | | U | |
| fluoride | 1 | 1.5 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | 0.065 J♦ | | 0.072 J | | U | |
| hardness, Total | -- | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | 280♦ | | 220 ♦ | | 170 | |
| nitrate | 10 | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | 0.40 F | | 0.74 J ♦ | | 0.17 J♦ | |
| TKN | 1 | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | 0.67 F♦ | | 0.79 J ♦ | | U | |
| sulfate | 250 | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | 11 | | 18 J | | 11 | |
| TDS | 500 | 10 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | **540** | | **850 B ♦** | | 480 | |
| TOC | -- | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | 4.7 | | 5.0 ♦ | | 2.5 | |

For notes, please refer to the end of the tables section.

**Table 5-1**
**Groundwater and Surface Water Sampling Results (continued)**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF5MW-3 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 1/8/1999[8] | 2/5/2003 | 6/16/2003 | 9/8/2003 | 12/1/2003 | 3/29/2004 | 6/18/2004 | 9/16/2004 | 12/29/2004 | 3/30/2005 | 6/20/2005 | 9/6/2005 | 12/13/2005 |
| Sample ID No. | | | LF5M0308AB | LF5M0314AA | LF5M0314BA | LF5M0315CA | LF5M0315DA | LF5M0315EA | LF5M0315FA | LF5M0315GA | LF5M0315HA | LF5M0315IA | LF5M0315JA | LF5M0315KA | LF5M0315LA |
| **Depth to Water (ft)** | | | **8.11** | **7.83** | **7.62** | **7.46** | **6.16** | **5.67** | **7.00** | **8.11** | **7.28** | **5.21** | **7.28** | **7.69** | **7.08** |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | |
| 1,2,3-trichlorobenzene | 5 | 1 | NA | 0.10 F | U | NA | NA | U | NA | NA | NA | U | NA | NA | NA |
| 1,2,4-trichlorobenzene | 5* | 1 | NA | 0.07 F | U | NA | NA | U | NA | NA | NA | U | NA | NA | NA |
| 1,2,4-trimethylbenzene | 5* | 1 | U | U | U | NA | NA | U | NA | NA | NA | U | NA | NA | NA |
| 1,3,5-trimethylbenzene | 5* | 1 | NA | U | U | NA | NA | U | NA | NA | NA | U | NA | NA | NA |
| 4-chlorotoluene | 5* | 1 | NA | U | U | NA | NA | U | NA | NA | NA | U | NA | NA | NA |
| acetone | 50 | 10 | U | U | U | NA | NA | U | NA | NA | NA | U | NA | NA | NA |
| carbon disulfide | 1,000 | 0.5 | U | U | U | NA | NA | U | NA | NA | NA | U | NA | NA | NA |
| chlorobenzene | 5* | 0.5 | U | U | U | NA | NA | U | NA | NA | NA | U | NA | NA | NA |
| chloroform | 7 | 0.3 | U | U | U | NA | NA | U | NA | NA | NA | U | NA | NA | NA |
| naphthalene | 10 | 1 | U | U | U | NA | NA | U | NA | NA | NA | U | NA | NA | NA |
| o-xylene | 5* | 1 | U | U | U | NA | NA | U | NA | NA | NA | U | NA | NA | NA |
| styrene | 50* | 1 | NA | U | U | NA | NA | U | NA | NA | NA | U | NA | NA | NA |
| toluene | 5* | 1 | U | 0.43 F | U | NA | NA | U | NA | NA | NA | U | NA | NA | NA |
| vinyl acetate | -- | 5 | NA | UJ | U | NA | NA | U | NA | NA | NA | U | NA | NA | NA |
| **Metals (µg/L) [Dissolved / Total][1]** | | | | | | | | | | | | | | | |
| aluminum | 2,000 | 200 | 570 J | **3,154.6** | **10,600** | 992 | **17,300** | **6,390** | **4,610** | 1,580 | 568 | 318 | 256 | 192 F | 195 F |
| antimony | 3 | 50 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| arsenic | 25 | 30 | U | U | U | U | 6.3 F | U | U | U | U | U | U | U | U |
| barium | 1,000 | 50 | 13.98 | 58.1 | 113 | 45.6 F | 170 | 63.1 | 63.1 | 43.9 F | 50.6 | 66.4 | 42.3 F | 51.7 | 67 |
| berylium | 3 | 4 | U | U | 0.60 F | 0.40 F | 0.9 F | 0.3 F | U | U | U | U | U | U | U |
| boron, Total | 1,000 | 10 | U | 6.2 F | 68.5 B | NA | NS | 17.6 | NA | NA | NA | 22.7 | NA | NA | NA |
| cadmium | 5 | 5 | U | U | U | U | U | U | U | U | U | 0.4 F | 0.3 F | U | U |
| calcium | -- | 1,100 | 209,400 M | 84,004 | 58,000 | 83,900 | 56,800 | 37,700 | 64,400 | 61,600 | 128,000 | 118,000 | 122,000 | 134,000 | 183,000 |
| chromium | 50 | 10 | 1.0 F | 4.4 F | 14.3 | 2.3 F | 22 | 8.9 F | 7.3 F | 5.1 F | 1.9 F | 1.6 F | 0.9 F | U | U |
| cobalt | -- | 60 | 0.7 F | 0.5 F | 3.7 F | U | 7.6 F | 2.4 F | 2.2 F | U | U | U | U | U | U |
| copper | 200 | 10 | U | 21.8 | 47.8 | 34.9 | 59.1 | 32.7 | 41.2 | 28.1 | 16 | 11.8 | 14 | 13 | 13.6 |
| iron | 300 | 200 | **607.8 F** | **2,929.5** | **8,990** | **958** | **14,900** | **5,180** | **3,980** | **1,390** | **527** | 222 | 232 | 217 | 188 F |
| lead | 25 | 25 | 3.0 F | 2.7 F | 4.9 F | U | 7.3 F | U | U | U | U | U | U | U | U |
| magnesium | 35,000 | 1,000 | 25,945 | 10,255.1 | 6,120 | 6,130 | 7,650 | 3,940 | 5,680 | 5,140 | 12,900 | 11,100 | 12,600 | 13,400 | 17,800 |
| manganese | 300 | 10 | **1,766.3** | **389.9** | 85.9 | 188 | 144 | 48.7 | 90.1 | 32.4 | **335** | 77.2 | 151 | 294 | **661** |
| molybdenum | -- | 15 | U | 4.3 F | U | 2.2 F | U | U | U | U | U | 0.7 F | U | U | U |
| nickel | 100 | 20 | 6.0 F | 3.7 F | 12.6 F | 5.1 F | 18.9 F | 8.7 F | 8.0 F | 5.8 F | 3.6 F | 3.5 F | 2.3 F | 2.5 F | 2.6 F |
| potassium | -- | 1,000 | 4,638 | 21,330 | 3,090 | 1,340 | 4,480 | 1,770 | 1,560 | 975 F | 1,440 | 1,070 | 1,460 | 1,490 | 1,780 |
| selenium | 10 | 30 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| silver | 50 | 10 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| sodium | 20,000 | 1,000 | 13,570 | 4,088.7 | 2,580 | 4,190 | 4,240 | 3,570 | 3,980 | 2,680 | 1,410 | 2,210 | 1,440 | 1,240 | 8,370 |
| thallium | 0.5 | 80 | U | U | **10 F** | U | U | U | U | U | U | U | U | U | U |
| vanadium | -- | 10 | U | 4.5 F | 18.0 | 2.8 F | 29.4 | 11.7 | 8.5 F | 3.2 F | 1.6 F | 1.1 F | U | U | U |
| zinc | 2,000 | 20 | U | 13.4 F | 29.8 | U | 50.1 | 18.6 F | 14.5 F | 5.8 F | U | 7.1 F | U | 3.7 F | U |
| **PCBs (µg/L) [Filtered/Unfiltered]** | | | | | | | | | | | | | | | |
| aroclor 1242 | 0.09 | 0.5 | NA | U | UJ | U | U | U | U | U | U | U | NA | NA | NA |
| aroclor 1248 | 0.09 | 0.5 | NA | U | UJ | U | U | U | U | U | U | U | NA | NA | NA |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 362 | 186 | 142 | 202 | 89.6 | 63.6 | 162 | 140 | 326 | 111 | 232 | 247 | 247 |
| ammonia | 2 | 0.2 | U | U | U | U | U | U | 0.071 | 0.13 | 0.14 B | 0.1 | U | 0.015 F | U |
| BOD5 | -- | 2.4 | 2.4 F | U | 6.5 B | U | U | U | U | U | U | U | U | U | U |
| bromide | 2 | 0.5 | U | U | U | U | U | U | U | 0.28 F | U | 0.21 F | U | U | U |
| COD | -- | 5 | 27.5 M | 47.74 | 58.4 | 67.8 | 77.8 | 54.2 | 64.9 | 64.5 | 32.6 | 22.9 | 19.8 | 16.2 | 32.8 |
| chloride | 250 | 1 | 84 F | 9.9047 | 1.7 | 1.2 | U | 1.5 | 1.4 | 1.2 | 1.4 | 6.6 | 4.1 | 8 | 18.8 |
| color | 15 | 5 | **60** | **90** | **160** | NA | NA | **280** | NA | NA | NA | **50 F** | NA | NA | NA |
| cyanide | 200 | 0.02 | U | U | U | NA | NA | U | NA | NA | NA | U | NA | NA | NA |
| fluoride | 1 | 1.5 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| hardness, Total | -- | 1 | 752 F | 247.09 | 198 | 368 | 230 | 104 | 204 | 350 | 400 | 344 | 352 | 480 | 221 |
| nitrate | 10 | 1 | 0.02 M | 3.6409 | U | U | 8.9 | 6.8 | 0.83 F | 7.2 | 0.98 F | 5.8 | 0.38 F | 0.2 F | 2.5 |
| TKN | 1 | 1 | U | **1.26** | 1 | **1.4** | **3** | **4** | **2** | **6** | 0.89 | **1.2** | 0.48 | 0.86 | 0.66 |
| sulfate | 250 | 1 | 175 F | 30.2992 | 15 | 13.3 | 35.8 | 9.6 | 12 | 14.5 | 36.3 | 236 | 141 | 146 | **334** |
| TDS | 500 | 10 | **854** | 396 | 355 | 325 | 463 | 200 | 319 | 276 | 440 | 450 | 445 | **524** | **705** |
| TOC | -- | 1 | 20.8 | 21.55 | 21.2 | 27.6 | 27.8 | 19.4 | 23.4 | 22.6 | 11.9 | 11.3 | 9.8 | 10.1 | 9.6 |

For notes, please refer to the end of the tables section.

**Table 5-1**
**Groundwater and Surface Water Sampling Results (continued)**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF5MW-3 | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 3/9/2006 | 9/12/2006 | | 3/28/2007 | | 9/24/2007 | | 3/27/2008 | | 9/15/2008 | | 4/6/2009 | | 3/24/2010 | | 6/8/2011 | 6/4/2013 | 6/17/2015 |
| Sample ID No. | | | LF5M0315MA | LF5M0315NA | | LF5M0315OA | | LF5M0315PA | | LF5M0315QA | | LF5M0315RA | | LF5MO315SA | | LF5M0315TA | | LF5M0315UA | LF5M0315VA | LF5M0315WA |
| Depth to Water (ft) | | | 7.01 | 7.61 | | 3.97 | | 7.93 | | 5.25 | | 7.14 | | 5.51 | | 5.76 | | 6.34 | 6.04 | 4.85 |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | | | | | | |
| 1,2,3-trichlorobenzene | 5 | 1 | U | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | NA | NA |
| 1,2,4-trichlorobenzene | 5* | 1 | U | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | NA | NA |
| 1,2,4-trimethylbenzene | 5* | 1 | U | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | NA | NA |
| 1,3,5-trimethylbenzene | 5* | 1 | U | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | NA | NA |
| 4-chlorotoluene | 5* | 1 | U | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | NA | NA |
| acetone | 50 | 10 | U | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | NA | NA |
| carbon disulfide | 1,000 | 0.5 | U | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | NA | NA |
| chlorobenzene | 5* | 0.5 | U | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | NA | NA |
| chloroform | 7 | 0.3 | U | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | NA | NA |
| naphthalene | 10 | 1 | U | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | NA | NA |
| o-xylene | 5* | 1 | U | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | NA | NA |
| styrene | 50* | 1 | U | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | NA | NA |
| toluene | 5* | 1 | U | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | NA | NA |
| vinyl acetate | -- | 5 | U | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | NA | NA |
| **Metals (µg/L) [Dissolved / Total][1]** | | | | | | | | | | | | | | | | | | | | |
| aluminum | 2,000 | 200 | 498 | 44.5 F | 107 F | 190 F | 920 | 44F | 210 | 180 F | 320 | 62 F | 250 | 120 F | 420 | U | 220 | NA | NA | NA |
| antimony | 3 | 50 | U | U | U | U | U | U | U | U | U | 1.8 F | U | U | U | U | U | NA | NA | NA |
| arsenic | 25 | 30 | U | U | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA |
| barium | 1,000 | 50 | 62.3 | 67.7 | 68.9 | 97 | 100 | 69 | 70 | 100 | 120 | 65 | 70 | 100 | 110 | 82 | 79 | NA | NA | NA |
| berylium | 3 | 4 | U | U | U | U | U | U | U | 0.17 F | 0.16 F | U | U | U | U | U | U | NA | NA | NA |
| boron, Total | 1,000 | 10 | 47.7 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | U | U | U | NA | NA | NA | NA |
| cadmium | 5 | 5 | 1 F | U | U | U | U | U | U | U | U | U | U | NA | NA | U | U | NA | NA | NA |
| calcium | -- | 1,100 | 188,000 | 201,000 | 199,000 | 200,000 | 200,000 | 210,000 | 200,000 | 320,000 | 350,000 | 190,000 | 210,000 | 420,000 | 440,000 | 320,000 | 300,000 | NA | NA | NA |
| chromium | 50 | 10 | 2.1 F | 3.04 F | 4.3 F | 6.5 F | 7.7 F | 3.1F | 3.2F | 2.6 F | 4.0 F | 2.1 F | 5.4 F | 3.9 F | 6.7 F | U | U | NA | NA | NA |
| cobalt | -- | 60 | 1 F | U | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA |
| copper | 200 | 10 | 12.2 | 12.7 | 12.4 | 15 | 17 | 14 | 15 | 15 | 17 | 6.4 F | 10 | 22 | 25 | 13 | 13 | NA | NA | NA |
| iron | 300 | 200 | **502** | 16.6 F | 70.7 F | 80 F | **690** | 47F | 200 | 71 F | 180 F | **330** | **710** | 65 F | **370** | 160 F | 290 | NA | NA | NA |
| lead | 25 | 25 | U | U | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA |
| magnesium | 35,000 | 1,000 | 18,100 | 21,100 | 20,900 | 23,000 | 23,000 | 21,000 | 21,000 | **36,000** | **39,000** | 21,000 | 22,000 | **43,000** | **45,000** | **36,000** | **35,000** | NA | NA | NA |
| manganese | 300 | 10 | **452** | 251 | 255 | 56 | 190 | 290 | 320 | 38 | 77 | **2,200** | **2,300** | 38 | 110 | 150 | 130 | NA | NA | NA |
| molybdenum | -- | 15 | U | U | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA |
| nickel | 100 | 20 | 3.4 F | 3.33 F | 3.54 F | 6.8 F | 7.1 F | 3.6F | 4.1F | 6.5 F | 7.3 F | 4.8 F | 11 F | 60 F | 7.2 F | 4.5 F | 4.1 F | NA | NA | NA |
| potassium | -- | 1,000 | 1,600 | 1,910 | 1,910 | 1,400 | 1,600 | 1,700 | 1,700 | 1,500 | 1,700 | 1,800 | 1,900 | 2,100 | 2,400 | 1,700 | 1,800 | NA | NA | NA |
| selenium | 10 | 30 | U | U | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA |
| silver | 50 | 10 | U | U | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA |
| sodium | 20,000 | 1,000 | 3,250 | 2,850 B | 2,840 B | 3,300 | 3,200 | 2,700 | 2,600 | 5,800 | 6,300 | 2,100 B | 2,600B | 7,100 | 7,300 | 5,100 | 4,700 | NA | NA | NA |
| thallium | 0.5 | 80 | U | U | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA |
| vanadium | -- | 10 | 1.3 F | U | U | U | 1.8 F | U | U | U | U | U | 1.2 F | U | U | U | U | NA | NA | NA |
| zinc | 2,000 | 20 | 5.8 | 16 F | 20.9 B | 6.9 F | 13 F | U | 5.2F | 17 F | 20 B | 16 F | 14 F | 24 | 25 | 8.3 F | 12 F | NA | NA | NA |
| **PCBs (µg/L) [Filtered/Unfiltered]** | | | | | | | | | | | | | | | | | | | | |
| aroclor 1242 | 0.09 | 0.5 | U | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | NA | NA |
| aroclor 1248 | 0.09 | 0.5 | U | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | NA | NA |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 323 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | 230 | 190 | 440 |
| ammonia | 2 | 0.2 | U | NA | | NA | | NA | | NA | | NA | | NA | | NA | | 0.093 F | 0.079 J | 0.040 J |
| BOD5 | -- | 2.4 | U | NA | | NA | | NA | | NA | | NA | | NA | | NA | | 4.3 | 34 J | U |
| bromide | 2 | 0.5 | U | NA | | NA | | NA | | NA | | NA | | NA | | NA | | **9.1** | U | 0.19 J |
| COD | -- | 5 | 15.5 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | 59 | 75 | 54 |
| chloride | 250 | 1 | 4.7 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | 5 | 3.5 | 13 |
| color | 15 | 5 | **25** | NA | | NA | | NA | | NA | | NA | | NA | | NA | | **50** | **40** | **100** |
| cyanide | 200 | 0.02 | 0.01 F | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | U | U |
| fluoride | 1 | 1.5 | NA | NA | | NA | | NA | | NA | | NA | | NA | | NA | | U | U | U |
| hardness, Total | -- | 1 | 560 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | 1,400 | 1400 | 930 D |
| nitrate | 10 | 1 | 2.1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | 1.5 | U | U |
| TKN | 1 | 1 | 0.79 B | NA | | NA | | NA | | NA | | NA | | NA | | NA | | **1.4** | **1.4** | 0.75 J |
| sulfate | 250 | 1 | 188 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | **1,000** | **1,100** | **290** |
| TDS | 500 | 10 | **626** | NA | | NA | | NA | | NA | | NA | | NA | | NA | | **1,700** | **2,000 B ♦** | **970** |
| TOC | -- | 1 | 8.8 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | 25 | 29 | 22 |

For notes, please refer to the end of the tables section.

**Table 5-1**
**Groundwater and Surface Water Sampling Results (continued)**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF5MW-5 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 2/5/2003 | 6/16/2003 | 9/8/2003 | 12/1/2003 | 3/29/2004 | 6/21/2004 | 9/14/2004 | 12/10/2004 | 3/30/2005 | 6/20/2005 | 9/6/2005 | 12/12/2005 | 3/9/2006 |
| Sample ID No. | | | LF5M0512AA | LF5M0505BB | LF5M0513CA | LF5M0512DA | LF5M0512EA | LF5M0512FA | LF5M0512GA | LF5M0512HA | LF5M0512IA | LF5M0512JA | LF5M0512KA | LF5M0512LA | LF5M0512MA |
| **Depth to Water (ft)** | | | **5.60** | **4.92** | **5.53** | **4.75** | **4.35** | **5.17** | **5.42** | **5.03** | **5.33** | **5.66** | **6.17** | **5.61** | **5.52** |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | |
| 1,2,3-trichlorobenzene | 5 | 1 | U | U | NA | NA | U | NA | NA | NA | U | NA | NA | NA | U |
| 1,2,4-trichlorobenzene | 5* | 1 | U | U | NA | NA | U | NA | NA | NA | U | NA | NA | NA | U |
| 1,2,4-trimethylbenzene | 5* | 1 | U | U | NA | NA | U | NA | NA | NA | U | NA | NA | NA | U |
| 1,3,5-trimethylbenzene | 5* | 1 | U | U | NA | NA | U | NA | NA | NA | U | NA | NA | NA | U |
| 4-chlorotoluene | 5* | 1 | U | U | NA | NA | U | NA | NA | NA | U | NA | NA | NA | U |
| acetone | 50 | 10 | U | U | NA | NA | U | NA | NA | NA | U | NA | NA | NA | U |
| carbon disulfide | 1,000 | 0.5 | U | U | NS | NS | U | NA | NA | NA | U | NA | NA | NA | U |
| chlorobenzene | 5* | 0.5 | U | U | NA | NA | U | NA | NA | NA | U | NA | NA | NA | U |
| chloroform | 7 | 0.3 | U | U | NA | NA | U | NA | NA | NA | U | NA | NA | NA | U |
| naphthalene | 10 | 1 | U | U | NA | NA | U | NA | NA | NA | U | NA | NA | NA | U |
| o-xylene | 5* | 1 | U | U | NA | NA | U | NA | NA | NA | U | NA | NA | NA | U |
| styrene | 50* | 1 | U | U | NA | NA | U | NA | NA | NA | U | NA | NA | NA | U |
| toluene | 5* | 1 | 0.15 F | U | NA | NA | U | NA | NA | NA | U | NA | NA | NA | U |
| vinyl acetate | -- | 5 | UF | U | NA | NA | U | NA | NA | NA | U | NA | NA | NA | U |
| **Metals (µg/L) [Dissolved / Total][1]** | | | | | | | | | | | | | | | |
| aluminum | 2,000 | 200 | **2,162.1** | **2,420** | 195 F | 1,720 | 1,470 | 536 | **3,880** | 1,660 | 1,080 | 1,130 | 824 | 1,830 | 1,710 |
| antimony | 3 | 50 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| arsenic | 25 | 30 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| barium | 1,000 | 50 | 59 | 50.0 | 62.3 | 45.2 F | 41.6 F | 54 | 51.5 | 54.6 | 39.5 F | 46.1 F | 50.1 | 58.4 | 49.6 F |
| berylium | 3 | 4 | U | 0.30 F | U | 0.50 F | U | U | U | U | U | U | U | 0.3 F | U |
| boron, Total | 1,000 | 10 | U | 51.2 B | NA | NS | 10.3 | NA | NA | NA | 13.3 | NA | NA | NA | 14.6 |
| cadmium | 5 | 5 | U | U | U | U | U | U | U | U | U | U | U | U | 0.3 F |
| calcium | -- | 1,100 | 38,853.6 | 21,300 | 97,600 | 25,700 | 19,400 | 53,400 | 27,800 | 20,000 | 18,600 | 36,500 | 54,600 | 35,500 | 33,300 |
| chromium | 50 | 10 | 2.9 F | 4.1 F | U | 3.1 F | 2 F | 1.2 F | 4.1 F | U | 1.8 F | 1.7 F | U | 2.1 F | 3.4 F |
| cobalt | -- | 60 | 6.8 F | 4.9 F | 1.7 F | 7 F | 7.1 F | 5.2 F | 9.9 F | 1.8 F | 4.9 F | 6.6 F | 2.6 F | 5 F | 6.9 F |
| copper | 200 | 10 | 30.7 | 38.1 | 13.8 | 35 | 33 | 27 | 40.9 | 34.4 | 31.8 | 31.4 | 35.3 | 35.2 | 32.6 F |
| iron | 300 | 200 | **2,389.8** | **2,380** | **519** | **1,940** | **1,900** | **1,410** | **3,500** | **1,800** | **1,110** | **1,440** | **1,290** | **1,730** | **2,400** |
| lead | 25 | 25 | U | U | U | U | U | U | U | U | U | U | 2 F | U | 2.7 F |
| magnesium | 35,000 | 1,000 | 6,631.1 | 5,450 | 15,200 | 6,240 | 4,470 | 13,300 | 6,600 | 4,340 | 3,780 | 6,600 | 10,300 | 6,740 | 7,630 |
| manganese | 300 | 10 | **315.1** | 146 | **534** | 267 | 231 | **655** | **490** | 202 | 151 | 506 | **444** | 212 | 277 |
| molybdenum | -- | 15 | 1.9 F | U | U | U | U | U | U | U | U | U | U | U | U |
| nickel | 100 | 20 | 11.0 F | 10.2 F | 3.5 F | 9.9 F | 11.1 F | 8.6 F | 11.8 F | 10.7 F | 8.6 F | 10.7 F | 6.4 F | 10.9 F | 12 F |
| potassium | -- | 1,000 | 1,322.9 | 1,620 | 1,660 | 1,540 | 1,200 | 1,270 | 2,270 | 1,340 | 1,060 | 1,110 | 1,900 | 1,870 | 980 F |
| selenium | 10 | 30 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| silver | 50 | 10 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| sodium | 20,000 | 1,000 | 2,290.3 | 1,820 | 2,270 | 1,750 | 1,370 | 1,820 | 1,250 | 2,080 | 2,340 | 2,030 | 6,980 | 3,460 | 2,560 |
| thallium | 0.5 | 80 | U | **5.9 F** | U | U | U | U | U | U | U | U | U | U | U |
| vanadium | -- | 10 | U | 4.6 F | U | 3.2 F | 2 F | 0.9 F | 6.1 F | 2.1 F | 1.7 F | 1.6 F | 1.2 F | 3 F | 3.5 F |
| zinc | 2,000 | 20 | 23 | U | U | 18.9 F | 19.5 F | 10.3 F | 18.8 F | 20.6 | 18.2 F | 12.7 | 8.6 F | 15.6 F | 17.2 F |
| **PCBs (µg/L) [Filtered/Unfiltered]** | | | | | | | | | | | | | | | |
| aroclor 1242 | 0.09 | 0.5 | U | U | U | U | U | U | U | U | U | NA | NA | NA | U |
| aroclor 1248 | 0.09 | 0.5 | U | U | U | U | U | U | U | U | U | NA | NA | NA | U |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 90 | 60 | 274 | 78 | 48.6 | 148 | 27.5 | 62.9 | 52.8 | 102 | 161 | 90.7 | 93.5 |
| ammonia | 2 | 0.2 | U | 0.093 | 0.052 B | U | U | 0.024 F | 0.059 | 0.026 F | U | U | 0.014 F | U | U |
| BOD5 | -- | 2.4 | U | 6.6 B | U | U | U | U | U | U | U | U | U | U | U |
| bromide | 2 | 0.5 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| COD | -- | 5 | 19.53 | 66.4 | 33.7 | 56.1 | 52.5 | 49.6 | 63.8 | 35.6 | 21.5 | 40.6 | 29 | 39.6 | 48.2 |
| chloride | 250 | 1 | 3.7745 | 2 | 1.6 | U | 1.4 | 2.1 | 1.2 | 2.5 | 2.3 | 2.2 | 2.7 | 1.5 | 1.5 |
| color | 15 | 5 | **50** | **70** | NA | NA | **70** | NA | NA | NA | **100 F** | NA | NA | NA | **70** |
| cyanide | 200 | 0.02 | U | U | NA | NA | U | NA | NA | NA | U | NA | NA | NA | 0.01 F |
| fluoride | 1 | 1.5 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| hardness, Total | -- | 1 | 121.58 | 96.6 | 495 | 300 | U | 192 | 170 | 68 | 84 | 128 | 220 | 200 | 180 |
| nitrate | 10 | 1 | 1.7616 | U | U | U | 0.12 F | U | 0.03 F | 0.14 F | 0.19 F | 0.040 F | 0.03 F | 0.34 F | 0.19 F |
| TKN | 1 | 1 | 0.64 | 0.94 | 0.55 | **1.4** | 0.59 | 0.7 | 0.9 | 0.84 B | 0.42 | 0.37 | 0.59 | **1.3 B** | 0.52 B |
| sulfate | 250 | 1 | 14.9267 | 9.1 | 18.5 | 11.9 | U | 13.8 | 10.1 | 13.8 | 14.8 | 19.5 | 35.5 | 22 | 21.6 |
| TDS | 500 | 10 | 85 | 191 | 350 | 161 | 124 | 245 | 163 | 126 | 123 | 195 | 277 | 172 | 170 |
| TOC | -- | 1 | 15.72 | 17.2 | 13.3 | 20.2 | 16.8 | 15.6 | 22.3 | 18.3 | 16.2 | 16.1 | 17 | 15.3 | 13.9 |

For notes, please refer to the end of the tables section.

**Table 5-1**
**Groundwater and Surface Water Sampling Results (continued)**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF5MW-5 | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Date of Collection** | | | **9/12/2006** | | **3/27/2007** | | **9/24/2007** | | **3/27/2008** | | **9/15/2008** | | **4/7/2009** | | **3/24/2010** | | **6/9/2011** | **6/4/2013** | **6/11/2015** | |
| **Sample ID No.** | | | **LF5M0512NA** | | **LF5M0512OA** | | **LF5M0512PA** | | **LF5M0512QA** | | **LF5M0512RA** | | **LF5M0512SA** | | **LF5M0512TA** | | **LF5M0512UA** | **LF5M0512VA** | **LF5M0512WA** | |
| **Depth to Water (ft)** | | | **5.86** | | **3.45** | | **6.01** | | **3.71** | | **5.46** | | **3.74** | | **4.30** | | **4.56** | **4.65** | **3.35** | |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | | | | | | |
| 1,2,3-trichlorobenzene | 5 | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | NA | NA | |
| 1,2,4-trichlorobenzene | 5* | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | NA | NA | |
| 1,2,4-trimethylbenzene | 5* | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | NA | NA | |
| 1,3,5-trimethylbenzene | 5* | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | NA | NA | |
| 4-chlorotoluene | 5* | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | NA | NA | |
| acetone | 50 | 10 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | NA | NA | |
| carbon disulfide | 1,000 | 0.5 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | NA | NA | |
| chlorobenzene | 5* | 0.5 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | NA | NA | |
| chloroform | 7 | 0.3 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | NA | NA | |
| naphthalene | 10 | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | NA | NA | |
| o-xylene | 5* | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | NA | NA | |
| styrene | 50* | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | NA | NA | |
| toluene | 5* | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | NA | NA | |
| vinyl acetate | -- | 5 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | NA | NA | |
| **Metals (µg/L) [Dissolved / Total][1]** | | | | | | | | | | | | | | | | | | | | |
| aluminum | 2,000 | 200 | 293 B | 1,140 | 510 | **2,200** | 170F | 230 | 450 B | 1,600 | 1,500 | **3,700** | 410 | 1,500 | 540 | **4,000** | NA | NA | NA | |
| antimony | 3 | 50 | U | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | |
| arsenic | 25 | 30 | U | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | |
| barium | 1,000 | 50 | 41.7 F | 47.3 F | 28 F | 43 F | 57 | 58 | 20 F | 31 F | 54 | 80 | 25 F | 34 F | 26 F | 49 F | NA | NA | NA | |
| berylium | 3 | 4 | U | U | U | U | .12F | U | U | 0.11 F | 0.20 F | 0.27 F | U | U | U | 0.29 F | NA | NA | NA | |
| boron, Total | 1,000 | 10 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | U | NA | NA | NA | NA | |
| cadmium | 5 | 5 | U | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | |
| calcium | -- | 1,100 | 39,800 | 39,000 | 14,000 | 14,000 | 93,000 | 92,000 | 13,000 | 14,000 | 22,000 | 22,000 | 13,000 | 13,000 | 12,000 | 11,000 | NA | NA | NA | |
| chromium | 50 | 10 | U | 2.15 F | 2.0 F | 4.1 F | 5F | 4F | U | U | 2.3 F | 3.8 F | U | U | U | 5.9 F | NA | NA | NA | |
| cobalt | -- | 60 | U | U | U | 7.4 F | 7.6F | 6.4F | U | U | U | U | U | U | U | 13 F | NA | NA | NA | |
| copper | 200 | 10 | 27.8 | 32.2 | 27 | 33 | 7.6F | 9.7F | 16 | 20 | 37 | 47 | 15 | 17 | 22 | 29 | NA | NA | NA | |
| iron | 300 | 200 | **476** | **1,390** | **310** | **1,900** | **2,300** | **2,400** | **330** | **1,300** | **1,400** | **3,500** | 260 | **1,200** | **400** | **3,500** | NA | NA | NA | |
| lead | 25 | 25 | U | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | |
| magnesium | 35,000 | 1,000 | 8,650 | 8,510 | 2,600 | 2,900 | 26,000 | 26,000 | 1,800 | 2,100 | 4,800 | 5,300 | 2,100 | 2,200 | 1,800 | 2,200 | NA | NA | NA | |
| manganese | 300 | 10 | 266 | 272 | 81 | 190 | 2,000 | 2,000 | 19 | 33 | 110 | 170 | 20 | 37 | 9.8 F | 290 | NA | NA | NA | |
| molybdenum | -- | 15 | U | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | |
| nickel | 100 | 20 | 9.3 F | 10.5 F | 7.3 F | 12 | 9.1F | 9.7F | 4.2 F | 5.8 F | 11 F | 14 F | 3.9 F | 4.7 F | 6.0 F | 9.4 F | NA | NA | NA | |
| potassium | -- | 1,000 | 950 F | 1,200 | 680 F | 1,100 | 1,400 | 1,400 | 970 F | 1,300 | 1,500 | 2,100 | 1,200 | 1,400 | 790 F | 1,900 | NA | NA | NA | |
| selenium | 10 | 30 | 2.79 F | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | |
| silver | 50 | 10 | U | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | |
| sodium | 20,000 | 1,000 | 4,180 B | 3,930 B | 2,200 | 2,200 | 3,300 | 3,200 | 2,000 | 2,100 B | 3,600B | 4,100 B | 2,200 | 2,100 | 2,200 | 2,000 | NA | NA | NA | |
| thallium | 0.5 | 80 | U | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | |
| vanadium | -- | 10 | U | 2.18 F | 0.95 F | 3.5 F | 1.8F | 2F | 1.8 F | 3.6 F | 2.4 F | 6.2 F | U | 3.7 F | U | 8.9 F | NA | NA | NA | |
| zinc | 2,000 | 20 | 27 B | 24 B | 16 F | U | 8.5F | 11F | 21 B | 40 B | 28 | 70 | 28 | 33 | 15 F | 30 | NA | NA | NA | |
| **PCBs (µg/L) [Filtered/Unfiltered]** | | | | | | | | | | | | | | | | | | | | |
| aroclor 1242 | 0.09 | 0.5 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | NA | NA | |
| aroclor 1248 | 0.09 | 0.5 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | NA | NA | |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | 47 | 31 | 26 | |
| ammonia | 2 | 0.2 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | 0.22 | 0.11 | U | |
| BOD5 | -- | 2.4 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | U | U | |
| bromide | 2 | 0.5 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | U | U | |
| COD | -- | 5 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | 54 | 62 | 88 | |
| chloride | 250 | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | 2.5 F | 0.88 J | 0.89 J | |
| color | 15 | 5 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | 5 | **50** | **300** | |
| cyanide | 200 | 0.02 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | U | U | |
| fluoride | 1 | 1.5 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | U | 0.062 J | 0.10 J | |
| hardness, Total | -- | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | 65 | 37 | 54 | |
| nitrate | 10 | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | U | 0.15 J | 0.093 J | |
| TKN | 1 | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | 1.1 | **1.4** | 0.59 J | |
| sulfate | 250 | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | 5 | 2.8 J | 2.1 J | |
| TDS | 500 | 10 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | 110 | 120 B | 78 | |
| TOC | -- | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | 22 | 24 | 27 | |

For notes, please refer to the end of the tables section.

**Table 5-1**
**Groundwater and Surface Water Sampling Results (continued)**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF5MW-100 | | | | LF5MW-100R | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 2/5/2003 | 6/17/2003 | 9/8/2003 | 12/1/2003 | 3/29/2004 | 6/21/2004 | 9/14/2004 | 12/10/2004 | 3/30/2005 | 6/20/2005 | 9/6/2005 | 12/12/2005 | 3/9/2006 |
| Sample ID No. | | | LF5M10009AA | LF5M10009BB | NS | NS | LF5M100R08EA | LF5M100R68FA | LF5M100R10GA | LF5M100R11HA | LF5M100R10IA | LF5M100R10JA | LF5M100R10KA | LF5M100R10LA | LF5M100R10MA |
| **Depth to Water (ft)** | | | **9.50** | **9.08** | **NS** | **NS** | **8.47** | **19.48** | **9.79** | **11.16** | **9.73** | **9.85** | **10.26** | **9.78** | **9.79** |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | |
| 1,2,3-trichlorobenzene | 5 | 1 | U | U | NS | NS | U | NA | NA | NA | U | NA | NA | NA | U |
| 1,2,4-trichlorobenzene | 5* | 1 | U | U | NS | NS | U | NA | NA | NA | U | NA | NA | NA | U |
| 1,2,4-trimethylbenzene | 5* | 1 | U | U | NS | NS | U | NA | NA | NA | U | NA | NA | NA | U |
| 1,3,5-trimethylbenzene | 5* | 1 | U | U | NS | NS | U | NA | NA | NA | U | NA | NA | NA | U |
| 4-chlorotoluene | 5* | 1 | U | U | NS | NS | U | NA | NA | NA | U | NA | NA | NA | U |
| acetone | 50 | 10 | U | U | NS | NS | 3.3 F | NA | NA | NA | U | NA | NA | NA | U |
| carbon disulfide | 1,000 | 0.5 | U | U | NS | NS | U | NA | NA | NA | 0.42 F | NA | NA | NA | U |
| chlorobenzene | 5* | 0.5 | 0.52 | U | NS | NS | U | NA | NA | NA | U | NA | NA | NA | U |
| chloroform | 7 | 0.3 | U | U | NS | NS | 2.0 B | NA | NA | NA | U | NA | NA | NA | U |
| naphthalene | 10 | 1 | U | U | NS | NS | U | NA | NA | NA | U | NA | NA | NA | U |
| o-xylene | 5* | 1 | 0.08 F | U | NS | NS | U | NA | NA | NA | U | NA | NA | NA | U |
| styrene | 50* | 1 | U | U | NS | NS | U | NA | NA | NA | U | NA | NA | NA | U |
| toluene | 5* | 1 | 0.20 F | 0.27 F | NS | NS | U | NA | NA | NA | U | NA | NA | NA | U |
| vinyl acetate | -- | 5 | UJ | U | NS | NS | U | NA | NA | NA | U | NA | NA | NA | U |
| **Metals (µg/L) [Dissolved / Total][1]** | | | | | | | | | | | | | | | |
| aluminum | 2,000 | 200 | 1,882 | **2,020** | NS | NS | **9,790** | **28,200** | **2,020** | **2,260** | **7,520** | **4,970** | **5,910** | **2,140** | **6,360** |
| antimony | 3 | 50 | U | **6.4 F** | NS | NS | U | U | U | U | U | U | U | U | U |
| arsenic | 25 | 30 | U | U | NS | NS | U | 12.1 F | U | U | 3.5 F | U | U | U | U |
| barium | 1,000 | 50 | **13,480.7** | 266 | NS | NS | 511 | **9,620** | **7,850** | **7,890** | **8,390** | **7,510** | **8,990** | **6,850** | **7,590** |
| berylium | 3 | 4 | U | U | NS | NS | 0.7 F | 1.7 F | 1.4 F | U | 1.4 F | 0.6 F | 0.4 F | 0.6 F | 0.8 F |
| boron, Total | 1,000 | 10 | U | 67.1 | NS | NS | 24 | NA | NA | NA | 565 | NA | NA | NA | 500 |
| cadmium | 5 | 5 | U | U | NS | NS | U | 0.6 F | U | U | U | U | U | U | 0.4 F |
| calcium | -- | 1,100 | 532,223.6 | 87,600 | NS | NS | 518,000 | 482,000 | 44,900 | 411,000 | 455,000 | 397,000 | 390,000 | 386,000 | 434,000 |
| chromium | 50 | 10 | 23.6 F | 3.1 F | NS | NS | **89.9** | **50.7** | 12.2 | 22 | **55.2** | 25.9 | 15 | 10.8 | 28.5 |
| cobalt | -- | 60 | U | U | NS | NS | 6.4 F | 25.1 F | 2.9 F | 3.1 F | 9.4 | 3.8 F | 5.3 F | 2 F | 4.8 F |
| copper | 200 | 10 | 8.0F | U | NS | NS | 34.5 | 88.1 | 7.7 F | 7.2 F | 49 | 14.5 | 25.2 | 7 F | 17.8 |
| iron | 300 | 200 | **4,215.7** | **21,900** | NS | NS | **14,300** | **52,900** | **3,610** | **3,760** | **22,900** | **7,820** | **9,680** | **3,090** | **10,300** |
| lead | 25 | 25 | U | U | NS | NS | 5.3 F | 16.8 F | U | U | 22.4 F | 2.2 F | 2.5 F | U | 3.8 F |
| magnesium | 35,000 | 1,000 | **115,200.5** | 23,700 | NS | NS | 4,160 | **122,000** | 14,600 | 19,400 | **92,200** | **45,000** | **77,600** | **18,700** | **42,600** |
| manganese | 300 | 10 | **754** | **1,320** | NS | NS | 259 | **1,620** | 133 | 109 | **2,840** | **313** | **307** | 110 | **325** |
| molybdenum | -- | 15 | U | U | NS | NS | 19.7 | 5.5 F | 5.2 F | 5 F | 4.4 F | 5 F | 5 F | 4.6 F | 4.8 F |
| nickel | 100 | 20 | 24.6 F | U | NS | NS | 20.4 | 49.8 | 6.6 F | 13 F | 42.2 | 16.1 F | 14.7 F | 5.9 F | 18.1 F |
| potassium | -- | 1,000 | 68,473 | 1,770 | NS | NS | 40,100 | 59,300 F | 5,300 | 48,700 F | 87,400 | 86,400 | 101,000 | 79,500 | 82,900 |
| selenium | 10 | 30 | U | U | NS | NS | U | U | U | U | U | U | U | U | U |
| silver | 50 | 10 | U | U | NS | NS | U | U | U | U | U | U | U | U | U |
| sodium | 20,000 | 1,000 | **4,607,994** | 1,380 | NS | NS | **138,000** | **3,460,000** | **286,000** | **2,810,000** | **3,520,000** | **2,950,000** | **3,270,000** | **2,540,000** | **2,850,000** |
| thallium | 0.5 | 80 | U | **7.2 F** | NS | NS | U | U | U | U | U | U | U | U | U |
| vanadium | -- | 10 | 11.1F | 5.5 F | NS | NS | 17.5 | 45.8 | 4.1 F | 3.3 F | 16.6 | 7.8 F | 9.4 F | 3.7 F | 11 |
| zinc | 2,000 | 20 | 48.4 F | U | NS | NS | 47.6 | 141.0 | 12.5 F | 16.5 | 63 | 23.4 B | 33.3 | 10.2 F | 38.5 |
| **PCBs (µg/L) [Filtered/Unfiltered]** | | | | | | | | | | | | | | | |
| aroclor 1242 | 0.09 | 0.5 | UJ | U | NS | NS | U | U | U | U | **0.45 F** | NA | NA | NA | U |
| aroclor 1248 | 0.09 | 0.5 | UJ | U | NS | NS | U | U | U | U | U | NA | NA | NA | U |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 76 | 149 | NS | NS | 1,080 | 39.1 | 10.4 | 81.1 | 36.2 | 76 | 80.4 | 96.8 | 90.8 |
| ammonia | 2 | 0.2 | **18.34** | **8.7** | NS | NS | 1.9 | **18.6** | **18.5** | **14.2** | **20.1** | **15.4** | **17.2** | **13.5** | **15.5** |
| BOD5 | -- | 2.4 | U | 15.7 | NS | NS | U | U | U | U | 3.2 | U | U | U | U |
| bromide | 2 | 0.5 | **160.4726** | **46.8** | NS | NS | **4.3** | **252** | **83** | **80.4** | **116** | **134** | **130** | **57.2** | **72** |
| COD | -- | 5 | 119.35 | 16 | NS | NS | 16 | 664 | U | U | 118 | 94.5 | 54.3 | 112 | 132 |
| chloride | 250 | 1 | **8,821.04** | **2,920** | NS | NS | **375** | **13,500** | **9,110** | **7,820** | **12,900** | **8,370** | **5,840** | **10,200** | **6,560** |
| color | 15 | 5 | 10 | 15 | NS | NS | **250** | NA | NA | NA | **2,000 F** | NA | NA | NA | 5 |
| cyanide | 200 | 0.02 | U | U | NS | NS | U | NA | NA | NA | U | NA | NA | NA | 0.0059 F |
| fluoride | 1 | 1.5 | NA | NA | NS | NS | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| hardness, Total | -- | 1 | 1,882.56 | 308 | NS | NS | 1,210 | 1,800 | 1,270 | 1,210 | 430 | 1,210 | 1,510 | 3,200 | 1,600 |
| nitrate | 10 | 1 | U | U | NS | NS | U | U | U | U | U | U | U | U | U |
| TKN | 1 | 1 | **18.68** | **10.4** | NS | NS | **2.2** | **17.9** | **14.8** | **12.9** | **19.2** | **15** | **16.1** | **9.6** | **15.9** |
| sulfate | 250 | 1 | 11.2708 | 33.9 | NS | NS | 3.2 | U | U | U | U | 1.3 | U | 0.87 F | 1.1 |
| TDS | 500 | 10 | **13,874** | **5,850** | NS | NS | **1,640** | **11,400** | **11,300** | **10,100** | **10,400** | **8,750** | **8,810** | **7,090** | **8,360** |
| TOC | -- | 1 | U | U | NS | NS | 13.2 | U | U | U | 1.5 | U | U | U | U |

For notes, please refer to the end of the tables section.

**Table 5-1**
**Groundwater and Surface Water Sampling Results (continued)**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF5MW-100R | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Date of Collection** | | | **9/12/2006** | | **3/27/2007*** ** | | **9/25/2007** | | **3/27/2008** | | **9/15/2008** | | **4/7/2009** | | **3/25/2010** | | **6/9/2011** | **6/3/2013** | **7/7/2015** | |
| **Sample ID No.** | | | **LF5M100R10NA** | | **LF5M100R08OA** | | **LF5M100R10PA** | | **LF5M100R08QA** | | **LF5M100R08RA** | | **LF5M100R09SA** | | **LF5M100R09TA** | | **LF5M100R09UA** | **LF5M100R08VA** | **LF5M100R07WA** | |
| **Depth to Water (ft)** | | | **10.00** | | **8.09** | | **10.17** | | **8.47** | | **9.81** | | **8.55** | | **8.95** | | **8.59** | **8.25** | **6.93** | |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | | | | | | |
| 1,2,3-trichlorobenzene | 5 | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | NA | NA | |
| 1,2,4-trichlorobenzene | 5* | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | NA | NA | |
| 1,2,4-trimethylbenzene | 5* | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | NA | NA | |
| 1,3,5-trimethylbenzene | 5* | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | NA | NA | |
| 4-chlorotoluene | 5* | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | NA | NA | |
| acetone | 50 | 10 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | NA | NA | |
| carbon disulfide | 1,000 | 0.5 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | NA | NA | |
| chlorobenzene | 5* | 0.5 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | NA | NA | |
| chloroform | 7 | 0.3 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | NA | NA | |
| naphthalene | 10 | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | NA | NA | |
| o-xylene | 5* | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | NA | NA | |
| styrene | 50* | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | NA | NA | |
| toluene | 5* | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | NA | NA | |
| vinyl acetate | -- | 5 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | NA | NA | |
| **Metals (µg/L) [Dissolved / Total][1]** | | | | | | | | | | | | | | | | | | | | |
| aluminum | 2,000 | 200 | U | **3,620** | U | 850 | U | 160F | U | 690 | U | 240 | U | **2,500** | 760 | 840 | NA | NA | NA | |
| antimony | 3 | 50 | U | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | |
| arsenic | 25 | 30 | U | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | |
| barium | 1,000 | 50 | **5,970** | **6,050** | **6,700** | **5,700** | **8,500J** | **4,000J** | **10,000 J** | **1,700 J** | **3,900** | **4,100** | **4,300** | **4,800** | 360 | 360 | NA | NA | NA | |
| berylium | 3 | 4 | U | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | |
| boron, Total | 1,000 | 10 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| cadmium | 5 | 5 | U | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | |
| calcium | -- | 1,100 | 309,000 | 311,000 | 370,000 | 360,000 | 330,000 | 290,000 | 420,000 J | 300,000 J | 270,000 | 290,000 | 290,000 | 300,000 | 210,000 | 210,000 | NA | NA | NA | |
| chromium | 50 | 10 | U | 12.6 | 6.9 F | 11 | U | 6.2F | U | 13 | U | 5.1 F | U | 24 | U | 5.6 F | NA | NA | NA | |
| cobalt | -- | 60 | U | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | |
| copper | 200 | 10 | U | 19.4 | U | U | U | U | U | U | U | U | U | 9.5 F | U | U | NA | NA | NA | |
| iron | 300 | 200 | U | **7,770** | U | **1,200** | U | 240 | U | **660** | U | 110 F | U | **4,300** | U | 170 F | NA | NA | NA | |
| lead | 25 | 25 | U | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | |
| magnesium | 35,000 | 1,000 | 30,000 | **32,900** | **45,000** | **37,000** | **70,000F** | **19,000F** | **85,000 F** | 4,100 J | 2,300 | 9,300 | 26,000 | **37,000** | U | 250 F | NA | NA | NA | |
| manganese | 300 | 10 | 5.68 F | 170 | U | 140 | 140J | 79J | 190 J | 30 J | U | 19 | U | **310** | U | 4.2 F | NA | NA | NA | |
| molybdenum | -- | 15 | 3.63 F | 5.01 F | U | U | U | 3.1F | U | 3.9 F | 3.4 F | 3.8 F | U | U | U | U | NA | NA | NA | |
| nickel | 100 | 20 | U | 11.9 F | U | 3.4 F | U | 2.2F | U | 6.1 F | U | 2.0 F | U | 17 F | U | U | NA | NA | NA | |
| potassium | -- | 1,000 | 62,800 | 61,700 | 65,000 | 54,000 | 62,000F | 37,000F | 74,000 F | 21,000 F | 42,000 | 46,000 | 39,000 | 43,000 | 9,200 | 9,000 | NA | NA | NA | |
| selenium | 10 | 30 | U | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | |
| silver | 50 | 10 | U | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | |
| sodium | 20,000 | 1,000 | **2,920,000** | **2,890,000** | **3,300,000** | **2,800,000** | **3,800,000J** | **1,800,000J** | **4,400,000 J** | **760,000 J** | **1,900,000** | **2,100,000** | **1,900,000** | **2,100,000 ♦** | **170,000** | **160,000** | NA | NA | NA | |
| thallium | 0.5 | 80 | **16.8 F** | **24.7 F** | U | U | U | U | U | U | U | **6.0 F** | U | U | U | U | NA | NA | NA | |
| vanadium | -- | 10 | U | 6.94 F | U | 2.0 F | U | U | U | 1.3 F | U | U | U | 5.2 F | U | U | NA | NA | NA | |
| zinc | 2,000 | 20 | 24.7 B | 62.6 B | U | U | 26F | 43 | U | 13 F | 15 F | 15 F | 11 F | 25 | 11 F | 6.5 F | NA | NA | NA | |
| **PCBs (µg/L) [Filtered/Unfiltered]** | | | | | | | | | | | | | | | | | | | | |
| aroclor 1242 | 0.09 | 0.5 | UJ | | U | U | NA | | U | U | U | U | NA | | NA | | NA | NA | NA | |
| aroclor 1248 | 0.09 | 0.5 | **0.255 F** | | U | U | NA | | U | U | U | U | NA | | NA | | NA | NA | NA | |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | 38 | 320 | 21 | |
| ammonia | 2 | 0.2 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | **23** | **13** | **30** | |
| BOD5 | -- | 2.4 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | U | 13 | U | |
| bromide | 2 | 0.5 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | **67** | **10** | **99** | |
| COD | -- | 5 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | 120 | 32 | 140 D | |
| chloride | 250 | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | **6,500** | **940** | **10,000** | |
| color | 15 | 5 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | U | U | 10 | |
| cyanide | 200 | 0.02 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | U | U | |
| fluoride | 1 | 1.5 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | U | 0.13 J | U | |
| hardness, Total | -- | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | 1,400 | 790 | 1,300 D | |
| nitrate | 10 | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | U | U | U | |
| TKN | 1 | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | **18** | **11** | **22 J** | |
| sulfate | 250 | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | 2.4 F | 1.6 J | U | |
| TDS | 500 | 10 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | **10,000** | **2,600 B** | **16,000** | |
| TOC | -- | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | 0.55 F | 0.37 J | 0.24 J | |

For notes, please refer to the end of the tables section.

**Table 5-1**
**Groundwater and Surface Water Sampling Results (continued)**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | MW49D07 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 1/9/1999[8] | 2/3/2003 | 6/17/2003 | 9/8/2003 | 12/1/2003 | 3/29/2004 | 6/21/2004 | 9/14/2004 | 12/10/2004 | 3/31/2005 | 6/20/2005 | 9/6/2005 | 12/12/2005 |
| Sample ID No. | | | MW49D0706AB | MW49D0709AA | MW49D0705BB | LF5M49D0707CA | MW49D0704DA | MW49D0704EA | M49D0705FA | M49D0705GA | M49D0705HA | M49D0705IA | M49D0705JA | M49D0705KA | M49D0705LA |
| Depth to Water (ft) | | | 5.55 | 4.90 | 4.87 | 7.48 | 4.08 | 3.85 | 4.47 | 4.88 | 4.91 | 5.80 | 4.79 | 5.11 | 4.65 |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | |
| 1,2,3-trichlorobenzene | 5 | 1 | NA | U | U | NA | NA | U | NA | NA | NA | U | NA | NA | NA |
| 1,2,4-trichlorobenzene | 5* | 1 | NA | U | U | NA | NA | U | NA | NA | NA | U | NA | NA | NA |
| 1,2,4-trimethylbenzene | 5* | 1 | NA | 0.06 M | U | NA | NA | U | NA | NA | NA | U | NA | NA | NA |
| 1,3,5-trimethylbenzene | 5* | 1 | NA | 0.06 M | U | NA | NA | U | NA | NA | NA | U | NA | NA | NA |
| 4-chlorotoluene | 5* | 1 | NA | U | U | NA | NA | U | NA | NA | NA | U | NA | NA | NA |
| acetone | 50 | 10 | 5.5 F | U | U | NA | NA | U | NA | NA | NA | 1.9 F | NA | NA | NA |
| carbon disulfide | 1,000 | 0.5 | U | U | U | NA | NA | U | NA | NA | NA | U | NA | NA | NA |
| chlorobenzene | 5* | 0.5 | U | U | U | NA | NA | U | NA | NA | NA | U | NA | NA | NA |
| chloroform | 7 | 0.3 | U | U | U | NA | NA | U | NA | NA | NA | U | NA | NA | NA |
| naphthalene | 10 | 1 | 0.06 F | U | U | NA | NA | U | NA | NA | NA | U | NA | NA | NA |
| o-xylene | 5* | 1 | NA | U | U | NA | NA | U | NA | NA | NA | U | NA | NA | NA |
| styrene | 50* | 1 | NA | 0.05 M | U | NA | NA | U | NA | NA | NA | U | NA | NA | NA |
| toluene | 5* | 1 | U | 0.40 F | U | NA | NA | U | NA | NA | NA | U | NA | NA | NA |
| vinyl acetate | -- | 5 | NA | 1.06 M | U | NA | NA | U | NA | NA | NA | U | NA | NA | NA |
| **Metals (µg/L) [Dissolved / Total][1]** | | | | | | | | | | | | | | | |
| aluminum | 2,000 | 200 | **13,220** | U | 368 | 1,300 | **2,100** | 1,270 | **5,640** | **11,100** | **4,630** | 1,080 | **2,580** | **5,100** | **13,200** |
| antimony | 3 | 50 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| arsenic | 25 | 30 | 9 F | U | U | U | U | U | U | U | U | 3 F | U | U | 5 F |
| barium | 1,000 | 50 | 192.3 | 151.8 | **6,410** | 171 | 208 | 192 | 199 | 236 | 198 | 164 | 172 | 186 | 230 |
| berylium | 3 | 4 | 0.4 F | U | 0.60 F | U | U | U | U | U | U | U | U | U | 0.7 F |
| boron, Total | 1,000 | 10 | 78 F | U | 438 | NA | NS | 19.9 | NA | NA | NA | 19.5 | NA | NA | NA |
| cadmium | 5 | 5 | 2.8 F | U | U | U | U | U | U | U | U | U | U | U | U |
| calcium | -- | 1,100 | 103,330 | 91,608.3 | 266,000 | 97,700 | 97,200 | 95,200 | 102,000 | 114,000 | 101,000 | 89,500 | 93,200 | 95,900 | 115,000 |
| chromium | 50 | 10 | 18 | 2.2 F | 17.7 | U | 2.8 F | U | 7.5 F | 12.9 | 6 F | 1.5 F | 2.7 F | 5.8 F | 15.4 |
| cobalt | -- | 60 | 6.5 | U | 2.8 F | U | U | U | 3.2 F | 6.1 F | 1.5 F | U | 1.2 F | 3.4 F | 7.5 F |
| copper | 200 | 10 | 14 | U | 15.5 | U | 4.1 F | U | 15.8 | 20.7 | 6.1 F | 1.8 F | U | 10.3 | 24.9 |
| iron | 300 | 200 | **18,178** | **3,634.1** | **646** | **1,420** | **8,310** | **7,330** | **8,620** | **15,000** | **8,110** | **3,190** | **1,840** | **7,760** | **18,700** |
| lead | 25 | 25 | 10.0 F | U | U | U | U | U | 3.8 F | 6.1 F | U | U | U | 2.6 F | 6.5 F |
| magnesium | 35,000 | 1,000 | 31,652 | 27,269.3 | **60,800** | 26,300 | 26,900 | 25,800 | 30,000 | **35,200** | 26,900 | 21,800 | 23,600 | 23,600 | 30,500 |
| manganese | 300 | 10 | **1,147.7** | **318.3** | **407** | 264 | **833** | **645** | **542** | **747** | **564** | **830** | **305** | **446** | **700** |
| molybdenum | -- | 15 | U | 4.9 F | 9.2 F | U | U | U | U | U | U | 0.8 F | U | U | U |
| nickel | 100 | 20 | 14 | U | 59.3 | U | U | U | 5.4 F | 13.4 F | 4.4 F | 1.5 F | 1.8 F | 7 F | 17 F |
| potassium | -- | 1,000 | 31,652 | 843.5 F | 38,200 | 1,760 | 1,990 | 1,530 | 2,950 | 4,920 | 2,500 | 1,460 | 1,960 | 2,480 | 5,100 |
| selenium | 10 | 30 | U | **10.6 F** | U | U | U | U | U | U | U | U | U | U | U |
| silver | 50 | 10 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| sodium | 20,000 | 1,000 | 7,950 | 1,660.6 | **2,440,000** | 1,510 | 1,800 | 1,230 | 3,200 | 2,500 | 2,420 | 2,390 | 2,980 | 1,930 | 2,380 |
| thallium | 0.5 | 80 | U | U | **6.2 F** | U | U | U | U | U | U | U | U | U | U |
| vanadium | -- | 10 | 28 | 1.7 F | U | 3 F | 4.5 F | 2.8 F | 10 | 19 | 7.7 F | 2 F | 4.3 F | 8.2 F | 22.2 |
| zinc | 2,000 | 20 | 45 | 8.2 F | 28 | U | 13.1 F | 7.3 F | 20.3 | 40.1 | 18.6 F | 8.1 F | 4.9 F | 25.1 | 37.5 |
| **PCBs (µg/L) [Filtered/Unfiltered]** | | | | | | | | | | | | | | | |
| aroclor 1242 | 0.09 | 0.5 | NA | U | U | U | U | U | U | U | U | U | NA | NA | NA |
| aroclor 1248 | 0.09 | 0.5 | NA | U | U | U | U | U | U | U | U | U | NA | NA | NA |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 296 | 295 | 273 | 296 | 331 | 288 | 264 | 90.2 | 181 | 270 | 270 | 280 | 299 |
| ammonia | 2 | 0.2 | U | U | U | U | U | U | 0.029 F | 0.064 | 0.046 F | 0.062 | U | 0.052 | U |
| BOD5 | -- | 2.4 | 2.40 UJ | U | U | U | U | U | U | U | U | U | U | U | U |
| bromide | 2 | 0.5 | U | U | U | U | U | U | U | U | U | U | U | U | 0.19 F |
| COD | -- | 5 | 8.7 | 19.38 | 24.2 | U | 12 B | 40 | 16.4 | U | U | 37.3 | U | 13.3 | 3.1 F |
| chloride | 250 | 1 | 6.78 F | 3.0623 | 1.8 | 1.9 | 2.3 | 0.41 F | 2.1 | 5.4 | 4.8 | 1.9 | 2.3 | 4 | 7.5 |
| color | 15 | 5 | 10 J | 10 | **120** | NA | NA | **80** | NA | NA | NA | **400 F** | NA | NA | NA |
| cyanide | 200 | 0.02 | U | U | U | NA | NA | U | NA | NA | NA | U | NA | NA | NA |
| fluoride | 1 | 1.5 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| hardness, Total | -- | 1 | 12 | 271.88 | 960 | 421 | 430 | 352 | 348 | 480 | 360 | 308 | 328 | 390 | 620 |
| nitrate | 10 | 1 | 0.19 UJ | U | U | U | U | U | 0.027 F | U | 0.030 F | U | U | U | U |
| TKN | 1 | 1 | U | U | 0.46 | 0.74 | 0.29 | 0.50 | U | 0.56 | 0.58 B | 0.46 B | 0.2 | 0.62 | 0.91 B |
| sulfate | 250 | 1 | 29.60 F | 26.8659 | 30.4 | 27.9 | 29.8 | 27.6 | 30.2 | 35.9 | 43.3 | 44.2 | 39.7 | 33.1 | 40.7 |
| TDS | 500 | 10 | 355 | 278 | 353 | 358 | 364 | 333 | 372 | 411 | 372 | 317 | 346 | 370 | 419 |
| TOC | -- | 1 | 5.09 | 4.53 | 2.9 | 3.7 | 4 | 2.7 | 2.7 | 3.8 | 5.2 | 4.8 | 5.3 | 4.6 | 3.5 |

For notes, please refer to the end of the tables section.

**Table 5-1**
**Groundwater and Surface Water Sampling Results (continued)**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | MW49D07 | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 3/9/2006 | 9/12/2006 | | 3/28/2007 | | 9/24/2007 | | 3/27/2008 | | 9/15/2008 | | 4/7/2009 | | 3/25/2010 | | 6/9/2011 | | 6/3/2013 | | 6/24/2015 | |
| Sample ID No. | | | M49D0705MA | M49D0705NA | | M49D0703OA | | MW49D0705PA | | MW49D0705QA | | MW49D0705RA | | MW49DO704SA | | MW49D0704TA | | MW49D0704UA | | MW49D0703VA | | MW49D0703WA | |
| Depth to Water (ft) | | | 4.78 | 4.89 | | 3.32 | | 5.15 | | 3.69 | | 4.79 | | 3.71 | | 4.07 | | 3.93 | | 3.24 | | 1.81 | |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,2,3-trichlorobenzene | 5 | 1 | U | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | |
| 1,2,4-trichlorobenzene | 5* | 1 | U | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | |
| 1,2,4-trimethylbenzene | 5* | 1 | U | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | |
| 1,3,5-trimethylbenzene | 5* | 1 | U | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | |
| 4-chlorotoluene | 5* | 1 | U | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | |
| acetone | 50 | 10 | U | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | |
| carbon disulfide | 1,000 | 0.5 | U | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | |
| chlorobenzene | 5* | 0.5 | U | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | |
| chloroform | 7 | 0.3 | U | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | |
| naphthalene | 10 | 1 | U | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | |
| o-xylene | 5* | 1 | U | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | |
| styrene | 50* | 1 | U | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | |
| toluene | 5* | 1 | U | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | |
| vinyl acetate | -- | 5 | U | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | |
| **Metals (µg/L) [Dissolved / Total][1]** | | | | | | | | | | | | | | | | | | | | | | | | |
| aluminum | 2,000 | 200 | **4,150** | U | **2,180** | U | **3,300** | U | **3,400** | 44 F | 940 | U | 900 | U | 440 | U | 610 | NA | | NA | | NA | | |
| antimony | 3 | 50 | U | U | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | | NA | | NA | | |
| arsenic | 25 | 30 | U | U | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | | NA | | NA | | |
| barium | 1,000 | 50 | 184 | 155 | 172 | 150 | 170 | 170 | 210 | 190 | 220 | 210 | 240 | 200 | 240 | 190 | 190 | NA | | NA | | NA | | |
| berylium | 3 | 4 | U | U | U | U | U | U | U | 0.11 F | U | U | U | U | U | U | U | NA | | NA | | NA | | |
| boron, Total | 1,000 | 10 | 24.2 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | | NA | | NA | | |
| cadmium | 5 | 5 | U | U | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | | NA | | NA | | |
| calcium | -- | 1,100 | 99,400 | 90,700 | 92,100 | 93,000 | 99,000 | 100,000 | 120,000 | 110,000 | 110,000 | 130,000 | 150,000 | 100,000 | 110,000 | 96,000 | 96,000 | NA | | NA | | NA | | |
| chromium | 50 | 10 | 5.3 F | U | 3.85 F | 2.9 F | 7.2 F | 3F | 6.7F | 2.5 F | 3.1 F | 2.9 F | 4.3 F | U | 2.9 F | U | U | NA | | NA | | NA | | |
| cobalt | -- | 60 | 2.1 F | U | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | | NA | | NA | | |
| copper | 200 | 10 | 5.9 F | U | 3.05 F | U | 5.3 F | U | 4.9F | U | U | U | U | U | U | U | U | NA | | NA | | NA | | |
| iron | 300 | 200 | **4,840** | 65.8 F | **2,890** | U | **3,900** | 10F | **5,100** | 13 F | **3,900** | **420** | **2,000** | 8.4 F | **2,100** | 27 F | **1,100** | NA | | NA | | NA | | |
| lead | 25 | 25 | U | U | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | | NA | | NA | | |
| magnesium | 35,000 | 1,000 | 23,800 | 20,600 | 20,900 | 20,000 | 22,000 | 22,000 | 26,000 | 25,000 | 25,000 | 28,000 | 32,000 | 22,000 | 24,000 | 22,000 | 22,000 | NA | | NA | | NA | | |
| manganese | 300 | 10 | **379** | 242 | **316** | 180 | **550** | **330** | **440** | **310** | **970** | **590** | **870** | 290 | **590** | 260 | **390** | NA | | NA | | NA | | |
| molybdenum | -- | 15 | U | U | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | | NA | | NA | | |
| nickel | 100 | 20 | 4.3 F | U | 2.78 F | U | 3.0 F | U | 4.6F | U | U | U | 1.4 F | U | U | U | U | NA | | NA | | NA | | |
| potassium | -- | 1,000 | 2,390 | 924 F | 1,740 | 1,100 | 2,300 | 1,200 | 2,300 | 1,200 | 1,400 | 1,300 | 1,700 | 1,200 | 1,400 | 1,400 | 1,600 | NA | | NA | | NA | | |
| selenium | 10 | 30 | U | U | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | | NA | | NA | | |
| silver | 50 | 10 | U | U | U | U | U | U | U | U | U | 0.97 F | U | U | U | U | U | NA | | NA | | NA | | |
| sodium | 20,000 | 1,000 | 3,190 | 3,250 B | 3,120 B | 3,900 | 4,200 | 4,400 | 5,000 | 7,500 | 7,000 | 7,100 | 8,000 | **20,000** | **25,000** | **22,000** | **22,000** | NA | | NA | | NA | | |
| thallium | 0.5 | 80 | U | U | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | | NA | | NA | | |
| vanadium | -- | 10 | 7.1 F | U | 4.18 F | U | 5.9 F | U | 5.8F | U | 1.9 F | U | 1.8 F | U | U | U | U | NA | | NA | | NA | | |
| zinc | 2,000 | 20 | 13.5 F | 35.8 B | 35.2 B | U | 12 F | U | 15F | 9.5 F | 14 F | 15 F | 14 F | 13 F | 15 F | 42 F | 6.4 F | NA | | NA | | NA | | |
| **PCBs (µg/L) [Filtered/Unfiltered]** | | | | | | | | | | | | | | | | | | | | | | | | |
| aroclor 1242 | 0.09 | 0.5 | U | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | |
| aroclor 1248 | 0.09 | 0.5 | U | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 267 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | 370 | | 310 | | 270 | | |
| ammonia | 2 | 0.2 | 0.023 F | NA | | NA | | NA | | NA | | NA | | NA | | NA | | 0.14 | | 0.10 | | 0.082 J | | |
| BOD5 | -- | 2.4 | U | NA | | NA | | NA | | NA | | NA | | NA | | NA | | U | | 12 | | U | | |
| bromide | 2 | 0.5 | U | NA | | NA | | NA | | NA | | NA | | NA | | NA | | U | | U | | 0.11 J | | |
| COD | -- | 5 | 22.9 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | 9.3 F | | 14 J | | U | | |
| chloride | 250 | 1 | 4.7 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | 13 | | 39 | | 160 | | |
| color | 15 | 5 | **140** | NA | | NA | | NA | | NA | | NA | | NA | | NA | | U | | U | | **250** | | |
| cyanide | 200 | 0.02 | 0.0052 F | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | | U | | U | | |
| fluoride | 1 | 1.5 | NA | NA | | NA | | NA | | NA | | NA | | NA | | NA | | U | | U | | U | | |
| hardness, Total | -- | 1 | 370 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | 360 | | 470 | | 370 | | |
| nitrate | 10 | 1 | U | NA | | NA | | NA | | NA | | NA | | NA | | NA | | U | | U | | U | | |
| TKN | 1 | 1 | 0.58 B | NA | | NA | | NA | | NA | | NA | | NA | | NA | | 0.79 F | | 0.55 J | | U | | |
| sulfate | 250 | 1 | 39.8 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | 18 | | 27 | | 28 | | |
| TDS | 500 | 10 | 334 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | 390 | | 450 B | | **560** | | |
| TOC | -- | 1 | 4.3 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | 5.3 | | 4.1 | | 3.1 | | |

For notes, please refer to the end of the tables section.

**Table 5-1**
**Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class A Surface Water Standards | Reporting Limit | LF5SW-1 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 2/6/2003 | 6/16/2003 | 9/8/2003 | 12/1/2003 | 3/26/2004 | 6/18/2004 | 9/13/2004 | 12/13/2004 | 3/30/2005 | 6/20/2005 | 9/6/2005 | 12/12/2005 | 3/9/2006 |
| Sample ID No. | | | LF5SW0101AA | LF5SW0100BA | LF5SW0101CA | LF5SW0101DA | LF5SW0101EA | LF5SW0101FA | LF5SW0101GA | LF5SW0101HA | LF5SW0101IA | LF5SW0101JA | LF5SW0101KA | LF5SW0101LA | LF5SW0101MA |
| Depth to Water (ft) | | | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | |
| 1,2,4-trimethylbenzene | 5 | 1 | U | U | NA | NA | U | NA | NA | NA | U | NA | NA | NA | U |
| 1,2-dichlorobenzene | 3 | 1 | U | U | NA | NA | U | NA | NA | NA | 1.7 | NA | NA | NA | U |
| 1,3,5-trimethylbenzene | 5 | 1 | U | U | NA | NA | U | NA | NA | NA | U | NA | NA | NA | U |
| 1,4-dichlorobenzene | 3 | 0.5 | U | U | NA | NA | U | NA | NA | NA | 0.96 | NA | NA | NA | U |
| acetone | 50 | 10 | U | U | NA | NA | U | NA | NA | NA | 3.5 F | NA | NA | NA | U |
| benzene | 1 | 0.1 | 0.13 F | U | NA | NA | U | NA | NA | NA | U | NA | NA | NA | U |
| chlorobenzene | 5 | 0.5 | 0.45 F | 0.52 | NA | NA | 0.26 F | NA | NA | NA | **6.7** | NA | NA | NA | 0.53 |
| chloroform | 7 | 0.3 | 0.17 F | U | NA | NA | 0.29 F | NA | NA | NA | 0.29 F | NA | NA | NA | U |
| naphthalene | 10 | 1 | U | U | NA | NA | U | NA | NA | NA | 0.21 F | NA | NA | NA | U |
| trichloroethene | 5 | 1 | 0.31 F | U | NA | NA | 0.26 F | NA | NA | NA | 0.27 F | NA | NA | NA | U |
| toluene | 5 | 1 | 0.10 F | U | NA | NA | U | NA | NA | NA | U | NA | NA | NA | U |
| vinyl acetate | -- | 5 | UJ | U | NA | NA | U | NA | NA | NA | U | NA | NA | NA | U |
| **Metals (µg/L) [Dissolved / Total][1]** | | | | | | | | | | | | | | | |
| aluminum | 100 | 200 | U | **508** | 42.9 F | **111 F** | **202** | U | U | 379 | **102** | **137 F** | U | **441** | 50.2 F |
| antimony | 3 | 50 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| arsenic | 50 | 30 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| barium | 1,000 | 50 | 44.5 F | 60.2 | 57.8 | 37.6 F | 34.6 F | 49.9 F | 48.2 F | 32.7 F | 41.7 F | 46.5 F | 49.8 F | 48.8 F | 48.3 F |
| berylium | 3 | 4 | U | U | 0.3 F | U | U | U | U | U | U | U | U | U | U |
| boron, Total | 1,000 | 110 | U | 67.5 B | NA | NS | 17.8 | NA | NA | NA | 24.2 | NA | NA | NA | 25.8 |
| cadmium | 5 | 5 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| calcium | -- | 1,100 | 95,594.8 | 101,000 | 112,000 | 68,800 | 85,900 | 111,000 | 102,000 | 77,800 | 120,000 | 142,000 | 131,000 | 117,000 | 117,000 |
| chromium | 50 | 10 | U | 2.5 F | U | U | U | 1.1 F | U | U | 0.8 F | U | U | U | 0.9 F |
| cobalt | 5 | 60 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| copper | 200 | 10 | U | 3.9 F | U | 2.5 F | U | 4.2 F | 2 F | 3.1 F | U | 3.3 F | U | 2.4 F | U |
| iron | 300 | 200 | 78.6 F | **991** | 58.4 F | 232 | 298 | 98.1 F | 139 F | **442** | 166 F | **472** | 237 | **622** | 241 |
| lead | 50 | 25 | U | 6.2 F | U | U | U | U | U | U | U | U | U | U | U |
| magnesium | 35,000 | 1,000 | 15,486.9 | 16,500 | 18,500 | 9,380 | 11,800 | 16,900 | 15,500 | 9,510 | 14,900 | 18,900 | 20,100 | 16,500 | 17,200 |
| manganese | 300 | 10 | 62.8 | 164 | 71.8 | 68.3 | 64.9 | 65.2 | 71.4 | 139 | **326** | **758** | **559** | **446** | **432** |
| molybdenum | -- | 15 | 3.9 F | U | U | U | U | 2.1 F | U | 2.6 F | 2 F | 6.2 F | U | U | U |
| nickel | 100 | 20 | U | U | U | U | U | U | U | U | U | 1.7 F | U | U | U |
| potassium | -- | 1,000 | 1,492.5 | 2,180 | 2,050 | 2,080 | 1,880 | 2,210 | 2,230 | 1,980 F | 2,500 | 3,370 | 2,440 | 2,680 | 2,280 |
| selenium | 10 | 30 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| silver | 50 | 10 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| sodium | -- | 1,000 | 90,342 | 76,300 | 94,000 | 199,000 | 88,200 | 98,400 | 92,400 | 98,500 | 110,000 | 101,000 | 109,000 | 102,000 | 110,000 |
| thallium | 0.5 | 80 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| vanadium | -- | 10 | U | 3.9 F | U | U | U | U | U | 3.3 F | 2.5 F | 1.9 F | U | 1.7 F | U |
| zinc | 2,000 | 20 | 14.5 F | U | U | 27.3 | 10.7 F | 12.1 F | U | 12.4 F | 10 F | 7.4 F | 5.1 F | 9.4 F | 6.6 F |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 232 | 222 | 254 | 166 | 172 | 222 | 241 | 163 | 207 | 262 | 285 | 241 | 230 |
| ammonia | 2 | 0.2 | U | U | 0.092 B | U | U | U | 0.037 | 0.13 | U | 0.076 F | 0.024 F | 0.029 F | 0.025 F |
| BOD5 | -- | 2.4 | U | 7.1 B | U | U | U | U | U | U | U | U | U | 2.5 | U |
| bromide | 2 | 0.5 | U | U | U | U | U | U | U | U | U | U | U | 6.6 | U |
| COD | -- | 5 | U | U | U | U | U | U | U | U | U | 9.3 F | U | U | U |
| chloride | 250 | 1 | 160.3862 | 148 | 163 | **300** | 195 | 192 | 172 | 209 | **274** | 250 | 218 | 180 | 224 |
| color | 15 | 5 | U | 10 | NA | NA | **20** | NA | NA | NA | 15 J | NA | NA | NA | 5 |
| cyanide | 200 | 0.02 | 0.00173 F | U | NA | NA | U | NA | NA | NA | U | NA | NA | NA | 0.0084 F |
| fluoride | 1 | 1.5 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| hardness, Total | -- | 1 | 298.07 | 451 | 295 | 280 | 276 | 300 | 340 | 288 | 344 | 432 | 470 | 410 | 440 |
| nitrate | 10 | 1 | 1.4562 | 1 | 1.2 | 1.6 | 1.2 | 1.4 | 1.1 | 0.96 F | 1.1 | 0.5 F | 0.35 F | U | 1.1 |
| TKN | 1 | 1 | 0.56 | 0.43 | 0.37 | 0.5 | 0.16 F | 0.34 B | U | 0.74 | 0.32 | 0.72 | 0.55 | 0.63 B | U |
| sulfate | 250 | 1 | 42.954 | 48.8 | 46.8 | 29.3 | 33 | 43 | 0.14 F | 53.1 | 62.6 | 99 | 67.8 | 58.6 | 53.6 |
| TDS | 500 | 10 | **559** | **577** | **641** | **712** | **536** | **657** | **598** | **535** | **665** | **813** | **771** | **684** | **677** |
| TOC | -- | 1 | 1.01 | 1.2 | 1.1 | 1.4 | 1.1 | 0.85 F | 0.75 F | 2.3 | 1.8 | 3.4 | 2 | 0.57 F | 0.85 F |
| phenolics, Total | -- | 0.005 | U | U | U | U | 0.0048 F | U | U | U | U | 0.011 | 0.017 | U | U |

For notes, please refer to the end of the tables section.

**Table 5-1**
**Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class A Surface Water Standards | Reporting Limit | LF5SW-1 | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 9/12/2006 | | 3/28/2007 | | 9/24/2007 | | 3/27/2008 | | 9/15/2008 | | 4/7/2009 | | 3/25/2010 | | 6/10/2011 | 6/4/2013 | 6/18/2015 | |
| Sample ID No. | | | LF5SW0101NA | | LF5SW0101OA | | LF5SW0101PA | | LF5SW0101QA | | LF5SW0101RA | | LF5SW0101SA | | LF5SW0101TA | | LF5SW0101UA | LF5SW0101VA | LF5SW0101WA | |
| Depth to Water (ft) | | | Surface | | Surface | | Surface | | Surface | | Surface | | Surface | | Surface | | Surface | Surface | Surface | |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | | | | | | |
| 1,2,4-trimethylbenzene | 5 | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | NA | NA | |
| 1,2-dichlorobenzene | 3 | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | NA | NA | |
| 1,3,5-trimethylbenzene | 5 | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | NA | NA | |
| 1,4-dichlorobenzene | 3 | 0.5 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | NA | NA | |
| acetone | 50 | 10 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | NA | NA | |
| benzene | 1 | 0.1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | NA | NA | |
| chlorobenzene | 5 | 0.5 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | NA | NA | |
| chloroform | 7 | 0.3 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | NA | NA | |
| naphthalene | 10 | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | NA | NA | |
| trichloroethene | 5 | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | NA | NA | |
| toluene | 5 | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | NA | NA | |
| vinyl acetate | -- | 5 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | NA | NA | |
| **Metals (µg/L) [Dissolved / Total][1]** | | | | | | | | | | | | | | | | | | | | |
| aluminum | 100 | 200 | U | 51.1 F | U | 70 F | U | **110 F** | **200 B** | U | 48 F | 96 F | U | **170 F** | U | 96 F | NA | NA | NA | |
| antimony | 3 | 50 | U | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | |
| arsenic | 50 | 30 | U | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | |
| barium | 1,000 | 50 | 36.4 F | 37 F | 37 F | 37 F | 53 | 56 | 37 F | 38 F | 68 | 85 | 38 F | 41 F | 48 F | 50 | NA | NA | NA | |
| berylium | 3 | 4 | U | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | |
| boron, Total | 1,000 | 110 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| cadmium | 5 | 5 | U | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | |
| calcium | -- | 1,100 | 109,000 | 107,000 | 96,000 | 95,000 | 110,000 | 110,000 | 97,000 | 100,000 | 110,000 | 120,000 | 91,000 | 90,000 | 100,000 | 100,000 | NA | NA | NA | |
| chromium | 50 | 10 | U | U | 3.2 F | 2.0 F | 2.1 F | 1.5 F | U | U | 2.2 F | U | U | U | U | U | NA | NA | NA | |
| cobalt | 5 | 60 | U | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | |
| copper | 200 | 10 | U | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | |
| iron | 300 | 200 | 25.8 | **319** | 6.3 F | 180 F | 24 F | 280 | 13 F | 160 F | 29 F | **510** | 120 F | **500** | 93 F | **330** | NA | NA | NA | |
| lead | 50 | 25 | U | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | |
| magnesium | 35,000 | 1,000 | 17,600 | 17,600 | 13,000 | 12,000 | 17,000 | 18,000 | 14,000 | 14,000 | 18,000 | 19,000 | 13,000 | 12,000 | 15,000 | 16,000 | NA | NA | NA | |
| manganese | 300 | 10 | 250 | 249 | 120 | 130 | **370** | **390** | 120 | 120 | **470** | **500** | 180 | 160 | 150 | 210 | NA | NA | NA | |
| molybdenum | -- | 15 | U | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | |
| nickel | 100 | 20 | U | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | |
| potassium | -- | 1,000 | 1,910 | 1,970 | 2,000 | 2,000 | 2,000 | 2,000 | 2,000 | 2,000 | 2,200 | 2,300 | 1,900 | 1,900 | 2,000 | 2,200 | NA | NA | NA | |
| selenium | 10 | 30 | U | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | |
| silver | 50 | 10 | U | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | |
| sodium | -- | 1,000 | 97,700 | 99,200 | 110,000 | 110,000 | 110,000 | 110,000 | 99,000 | 100,000 | 98,000 | 110,000 | 90,000 | 90,000 | 98,000 | 96,000 | NA | NA | NA | |
| thallium | 0.5 | 80 | U | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | |
| vanadium | -- | 10 | U | U | U | U | U | U | U | U | U | 1.1 F | U | U | U | U | NA | NA | NA | |
| zinc | 2,000 | 20 | 25.8 B | 22.5 B | 6.3 F | 7.6 F | 2.7 B | 5.2 F | 16 F | 24 B | 17 F | 17 F | 19 F | 23 | 12 F | 14 F | NA | NA | NA | |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | 200 | 210 | 79 | |
| ammonia | 2 | 0.2 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | 0.14 | 0.094 J | 0.8 | |
| BOD5 | -- | 2.4 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | U | 19 | 2.7 J | |
| bromide | 2 | 0.5 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | U | U | U | |
| COD | -- | 5 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | 9.0 F | 15 J | 42 | |
| chloride | 250 | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | 140 | 190 | 29 | |
| color | 15 | 5 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | U | U | **80** | |
| cyanide | 200 | 0.02 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | U | U | |
| fluoride | 1 | 1.5 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | 0.086 F | 0.061 J | U | |
| hardness, Total | -- | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | 260 | 290 | 100 | |
| nitrate | 10 | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | 0.8 | 0.25 J | 0.12 J | |
| TKN | 1 | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | 0.53 F | 0.69 J | 0.55 J | |
| sulfate | 250 | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | 33 | 36 | 9.3 | |
| TDS | 500 | 10 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | 500 | **580 B** | 150 | |
| TOC | -- | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | 1.6 | 3.1 | 5.4 | |
| phenolics, Total | -- | 0.005 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | U | U | |

For notes, please refer to the end of the tables section.

**Table 5-1**
**Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class A Surface Water Standards | Reporting Limit | LF5SW-2 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 2/6/2003 | 6/16/2003 | 9/8/2003 | 12/1/2003 | 3/26/2004 | 6/18/2004 | 9/13/2004 | 12/13/2004 | 3/30/2005 | 6/20/2005 | 9/6/2005 | 12/12/2005 | 3/9/2006 |
| Sample ID No. | | | LF5SW0201AA | LF5SW0201BA | LF5SW0201CA | LF5SW0201DA | LF5SW0201EA | LF5SW0201FA | LF5SW0201GA | LF5SW0201HA | LF5SW0201IA | LF5SW0201JA | LF5SW0201KA | LF5SW0201LA | LF5SW0201MA |
| Depth to Water (ft) | | | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | |
| 1,2,4-trimethylbenzene | 5 | 1 | U | U | NA | NA | U | NA | NA | NA | 0.47 F | NA | NA | NA | U |
| 1,2-dichlorobenzene | 3 | 1 | U | U | NA | NA | U | NA | NA | NA | **4.3** | NA | NA | NA | 0.82 F |
| 1,3,5-trimethylbenzene | 5 | 1 | U | U | NA | NA | U | NA | NA | NA | 0.78 F | NA | NA | NA | U |
| 1,4-dichlorobenzene | 3 | 0.5 | U | U | NA | NA | U | NA | NA | NA | 2.1 | NA | NA | NA | 0.41 F |
| acetone | 50 | 10 | U | U | NA | NA | U | NA | NA | NA | 12 | NA | NA | NA | 2.8 F |
| benzene | 1 | 0.1 | **2.79** | 0.34 F | NA | NA | **2.2** | NA | NA | NA | **3.5** | NA | NA | NA | 0.62 |
| chlorobenzene | 5 | 0.5 | 2.55 | 1.3 | NA | NA | 1.8 | NA | NA | NA | **22** | NA | NA | NA | **5.5** |
| chloroform | 7 | 0.3 | 0.15 F | U | NA | NA | 0.29 F | NA | NA | NA | U | NA | NA | NA | U |
| naphthalene | 10 | 1 | U | U | NA | NA | U | NA | NA | NA | U | NA | NA | NA | U |
| trichloroethene | 5 | 1 | 0.25 F | U | NA | NA | 0.28 F | NA | NA | NA | U | NA | NA | NA | U |
| toluene | 5 | 1 | 0.13 F | U | NA | NA | U | NA | NA | NA | U | NA | NA | NA | U |
| vinyl acetate | -- | 5 | UJ | U | NA | NA | U | NA | NA | NA | U | NA | NA | NA | U |
| **Metals (µg/L) [Dissolved / Total][1]** | | | | | | | | | | | | | | | |
| aluminum | 100 | 200 | U | 70.4 F | 25.5 F | **139 F** | **229** | U | **115 F** | **290** | **786** | **224** | U | **166 F** | 37.8 F |
| antimony | 3 | 50 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| arsenic | 50 | 30 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| barium | 1,000 | 50 | 44.8 F | 51.1 | 58.3 | 37.6 F | 34.6 F | 48.0 F | 57.2 | 43.5 F | 50.5 | 43.7 F | 45.4 F | 42.5 F | 47.7 F |
| berylium | 3 | 4 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| boron, Total | 1,000 | 110 | U | 63.6 B | NA | NS | 18.3 | NA | NA | NA | 74.2 | NA | NA | NA | 23 |
| cadmium | 5 | 5 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| calcium | -- | 1,100 | 95,166.7 | 98,200 | 113,000 | 69,900 | 84,300 | 104,000 | 112,000 | 91,000 | 203,000 | 127,000 | 123,000 | 110,000 | 114,000 |
| chromium | 50 | 10 | 1.0 F | U | U | U | U | U | U | U | 1 F | U | U | U | 1.1 F |
| cobalt | 5 | 60 | U | U | U | U | U | U | U | U | 1.4 F | U | U | U | U |
| copper | 200 | 10 | U | U | U | 2.8 F | U | 3.4 F | 2.8 F | 3.2 F | 8.3 F | 3.7 F | U | 1.7 F | U |
| iron | 300 | 200 | 128.0 F | 109 F | 50.3 F | 215 | **382** | 119 F | **382** | **540** | **1,320** | **457** | 214 | 288 | 205 |
| lead | 50 | 25 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| magnesium | 35,000 | 1,000 | 15,931.8 | 15,500 | 19,200 | 9,510 | 11,500 | 16,200 | 15,900 | 11,400 | 12,800 | 19,200 | 19,500 | 15,600 | 16,900 |
| manganese | 300 | 10 | 82.3 | 76.9 | 82.5 | 63.6 | 66.7 | 67.2 | 185 | 244 | **495** | **556** | **502** | **340** | **346** |
| molybdenum | -- | 15 | 4.0 F | U | U | U | U | U | 3.5 F | 3.5 F | 19.8 | 4 F | U | 2.9 F | U |
| nickel | 100 | 20 | U | U | U | U | U | U | 1.7 F | 1.5 F | 6.7 F | 1.7 F | U | U | U |
| potassium | -- | 1,000 | 1,356.3 | 2,030 | 1,990 | 2,040 | 1,820 | 2,070 | 2,660 | 2,270 | 4,540 | 2,790 | 2,380 | 2,650 | 2,010 |
| selenium | 10 | 30 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| silver | 50 | 10 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| sodium | -- | 1,000 | 86,248.3 | 83,000 | 94,800 | 185,000 | 82,700 | 90,200 | 89,400 | 98,500 | 34,100 | 102,000 | 105,000 | 102,000 | 113,000 |
| thallium | 0.5 | 80 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| vanadium | -- | 10 | U | 1.7 F | U | U | 1.9 F | 1.1 F | 2.4 F | 3.6 F | 23.8 | 1.5 F | U | U | U |
| zinc | 2,000 | 20 | 13.5 F | U | U | 19 F | 11.6 F | 11.0 F | 7.3 F | 11.5 F | 6.6 F | 8.4 F | 4.4 F | 6.7 F | 8.7 F |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 240 | 229 | 258 | 170 | 172 | 224 | 246 | 161 | 184 | 253 | 274 | 233 | 233 |
| ammonia | 2 | 0.2 | U | U | U | U | U | 0.1 | 0.079 | 0.068 | 0.2 | 0.069 | 0.013 F | U | 0.057 |
| BOD5 | -- | 2.4 | U | 6.9 B | U | U | U | U | U | U | 7.5 | U | U | U | U |
| bromide | 2 | 0.5 | U | U | U | U | U | U | U | U | 0.6 | U | U | 6.6 | U |
| COD | -- | 5 | U | U | U | U | U | U | U | 10.8 | 29.6 | 17.1 | 5.6 F | U | U |
| chloride | 250 | 1 | 154.286 | 155 | 170 | 234 | 178 | 184 | 177 | 195 | 79.1 | 241 | 217 | 180 | 230 |
| color | 15 | 5 | U | 5 | NA | NA | **20** | NA | NA | NA | **70 J** | NA | NA | NA | 5 |
| cyanide | 200 | 0.02 | U | U | NA | NA | 0.0086 F | NA | NA | NA | U | NA | NA | NA | U |
| fluoride | 1 | 1.5 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| hardness, Total | -- | 1 | 298.07 | 300 | 400 | 250 | 268 | 296 | 350 | 312 | 594 | 424 | 440 | 460 | 370 |
| nitrate | 10 | 1 | 1.1061 | 1.1 | 1.1 | 1.7 | 1.3 | 1.3 | 0.99 F | 0.94 F | 1.6 | 0.55 F | 0.32 F | U | 0.99 F |
| TKN | 1 | 1 | U | 0.44 | 0.43 | 0.59 | 0.24 | 0.40 B | 0.21 | 0.72 | **1.3** | 0.47 | 0.51 | 0.42 B | 0.57 B |
| sulfate | 250 | 1 | 43.0834 | 44 | 46.5 | 29.6 | 32.3 | 42.1 | 57.6 | 67.6 | **573** | 79.1 | 66.9 | 61 | 62 |
| TDS | 500 | 10 | **550** | **583** | **633** | **707** | **516** | **631** | **618** | **586** | **874** | **764** | **748** | **706** | **657** |
| TOC | -- | 1 | 1.57 | 1 | 1.1 | 1.5 | 2.3 | 0.87 F | 2.2 | 2.9 | 13.8 | 2.9 | 2 | 0.47 F | 1.2 |
| phenolics, Total | -- | 0.005 | U | 0.011 B | U | U | U | U | U | U | 0.0047 F | 0.01 | U | U | U |

For notes, please refer to the end of the tables section.

**Table 5-1**
**Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class A Surface Water Standards | Reporting Limit | LF5SW-2 | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 9/12/2006 | | 3/28/2007 | | 9/24/2007 | | 3/27/2008 | | 9/15/2008 | | 4/7/2009 | | 3/25/2010 | | 6/10/2011 | 6/4/2013 | 6/18/2015 | |
| Sample ID No. | | | LF5SW0201NA | | LF5SW0201OA | | LF5SW0201PA | | LF5SW0201QA | | LF5SW0201RA | | LF5SW0201SA | | LF5SW0201TA | | LF5SW0201UA | LF5SW0201VA | LF5SW0201WA | |
| Depth to Water (ft) | | | Surface | | Surface | | Surface | | Surface | | Surface | | Surface | | Surface | | Surface | Surface | Surface | |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | | | | | | |
| 1,2,4-trimethylbenzene | 5 | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | NA | NA | |
| 1,2-dichlorobenzene | 3 | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | NA | NA | |
| 1,3,5-trimethylbenzene | 5 | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | NA | NA | |
| 1,4-dichlorobenzene | 3 | 0.5 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | NA | NA | |
| acetone | 50 | 10 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | NA | NA | |
| benzene | 1 | 0.1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | NA | NA | |
| chlorobenzene | 5 | 0.5 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | NA | NA | |
| chloroform | 7 | 0.3 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | NA | NA | |
| naphthalene | 10 | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | NA | NA | |
| trichloroethene | 5 | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | NA | NA | |
| toluene | 5 | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | NA | NA | |
| vinyl acetate | -- | 5 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | NA | NA | |
| **Metals (µg/L) [Dissolved / Total][1]** | | | | | | | | | | | | | | | | | | | | |
| aluminum | 100 | 200 | U | 96.6 F | U | 87 F | U | 63 F | 46 F | 51 F | 42 F | 72 F | U | 68 F | U | U | NA | NA | NA | |
| antimony | 3 | 50 | U | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | |
| arsenic | 50 | 30 | U | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | |
| barium | 1,000 | 50 | 43.5 F | 44.9 F | 36 F | 37 F | 54 | 56 | 3.7 F | 40 F | 63 | 71 | 36 F | 36 F | 49 F | 49 F | NA | NA | NA | |
| berylium | 3 | 4 | U | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | |
| boron, Total | 1,000 | 110 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| cadmium | 5 | 5 | U | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | |
| calcium | -- | 1,100 | 111,000 | 110,000 | 96,000 | 95,000 | 110,000 | 110,000 | 99,000 | 100,000 | 110,000 | 120,000 | 89,000 | 88,000 | 100,000 | 100,000 | NA | NA | NA | |
| chromium | 50 | 10 | U | 2.12 F | 3.3 F | 2.5 F | 1.8 F | 1.8 F | U | U | 2.3 F | 3.0 F | U | U | U | U | NA | NA | NA | |
| cobalt | 5 | 60 | U | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | |
| copper | 200 | 10 | U | U | U | U | U | 2.2 F | U | U | U | U | U | U | U | U | NA | NA | NA | |
| iron | 300 | 200 | 29.8 F | 167 F | 8.4 F | 190 F | 26 F | 290 | 8.7 F | 160 F | 28 F | **400** | 19 F | 160 F | 67 F | 180 F | NA | NA | NA | |
| lead | 50 | 25 | U | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | |
| magnesium | 35,000 | 1,000 | 17,600 | 17,700 | 12,000 | 12,000 | 19,000 | 19,000 | 14,000 | 15,000 | 19,000 | 20,000 | 12,000 | 12,000 | 16,000 | 16,000 | NA | NA | NA | |
| manganese | 300 | 10 | 198 | 201 | 120 | 120 | 280 | **300** | 130 | 140 | **350** | **410** | 100 | 100 | 160 | 160 | NA | NA | NA | |
| molybdenum | -- | 15 | U | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | |
| nickel | 100 | 20 | 1.58 F | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | |
| potassium | -- | 1,000 | 1,850 | 1,960 | 2,100 | 2,000 | 2,000 | 2,100 | 2,100 | 2,100 | 2,200 | 2,300 | 1,900 | 1,900 | 2,100 | 2,100 | NA | NA | NA | |
| selenium | 10 | 30 | U | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | |
| silver | 50 | 10 | U | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | |
| sodium | -- | 1,000 | 101,000 | 102,000 | 110,000 | 110,000 | 100,000 | 100,000 | 95,000 | 99,000 | 100,000 | 110,000 | 92,000 | 90,000 | 97,000 | 97,000 | NA | NA | NA | |
| thallium | 0.5 | 80 | U | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | |
| vanadium | -- | 10 | U | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | |
| zinc | 2,000 | 20 | 30.5 B | 2.62 B | 6.2 F | 7.6 F | 15 F | 7.0 F | 13 F | 22 B | 18 F | 15 F | 19 F | 18 F | 15 F | 13 F | NA | NA | NA | |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | 180 | 170 | 76 | |
| ammonia | 2 | 0.2 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | 0.16 | 0.17 | 0.26 B | |
| BOD5 | -- | 2.4 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | U | 10 | 3.1 J | |
| bromide | 2 | 0.5 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | U | U | U | |
| COD | -- | 5 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | U | 23 | 26 | |
| chloride | 250 | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | 120 | 130 | 29 | |
| color | 15 | 5 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | U | **45** | **100** | |
| cyanide | 200 | 0.02 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | U | U | |
| fluoride | 1 | 1.5 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | U | U | U | |
| hardness, Total | -- | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | 230 | 230 | 110 | |
| nitrate | 10 | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | 0.71 | U | U | |
| TKN | 1 | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | 0.49 F | 0.85 J | 0.62 J | |
| sulfate | 250 | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | 32 | 25 | 6.1 | |
| TDS | 500 | 10 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | 450 | 460 B | 150 | |
| TOC | -- | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | 1.8 | 7.3 | 7.6 | |
| phenolics, Total | -- | 0.005 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | U | U | |

For notes, please refer to the end of the tables section.

**Table 5-1**
**Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class A Surface Water Standards | Reporting Limit | LF5SW-3 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 2/6/2003 | 6/16/2003 | 9/8/2003 | 12/1/2003 | 3/26/2004 | 6/18/2004 | 9/13/2004 | 12/13/2004 | 3/30/2005 | 6/20/2005 | 9/6/2005 | 12/12/2005 | 3/9/2006 |
| Sample ID No. | | | LF5SW0301AA | LF5SW0301BA | LF5SW0301CA | LF5SW0301DA | LF5SW0301EA | LF5SW0301FA | LF5SW0301GA | LF5SW0301HA | LF5SW0301IA | LF5SW0301JA | LF5SW0301KA | LF5SW0301LA | LF5SW0301MA |
| Depth to Water (ft) | | | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface | Surface |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | |
| 1,2,4-trimethylbenzene | 5 | 1 | U | U | NA | NA | U | NA | NA | NA | 0.27 F | NA | NA | NA | U |
| 1,2-dichlorobenzene | 3 | 1 | U | U | NA | NA | U | NA | NA | NA | 2.3 | NA | NA | NA | 0.44 F |
| 1,3,5-trimethylbenzene | 5 | 1 | U | U | NA | NA | U | NA | NA | NA | 0.37 F | NA | NA | NA | U |
| 1,4-dichlorobenzene | 3 | 0.5 | U | U | NA | NA | U | NA | NA | NA | 1.1 | NA | NA | NA | U |
| acetone | 50 | 10 | U | U | NA | NA | U | NA | NA | NA | 8.4 F | NA | NA | NA | 2.7 F |
| benzene | 1 | 0.1 | **1.43** | 0.22 F | NA | NA | **1.1** | NA | NA | NA | **1.6** | NA | NA | NA | 0.49 F |
| chlorobenzene | 5 | 0.5 | 1.35 | 0.96 | NA | NA | 1.1 | NA | NA | NA | **11** | NA | NA | NA | 3.4 |
| chloroform | 7 | 0.3 | 0.10 F | U | NA | NA | 0.22 F | NA | NA | NA | U | NA | NA | NA | U |
| naphthalene | 10 | 1 | U | U | NA | NA | U | NA | NA | NA | 0.2 F | NA | NA | NA | U |
| trichloroethene | 5 | 1 | 0.18 F | U | NA | NA | 0.21 F | NA | NA | NA | U | NA | NA | NA | U |
| toluene | 5 | 1 | 0.22 F | U | NA | NA | U | NA | NA | NA | U | NA | NA | NA | U |
| vinyl acetate | -- | 5 | UJ | U | NA | NA | U | NA | NA | NA | U | NA | NA | NA | U |
| **Metals (µg/L) [Dissolved / Total][1]** | | | | | | | | | | | | | | | |
| aluminum | 100 | 200 | U | **153 F** | 52.3 F | **247** | **196 F** | U | **164 F** | **4,280** | **551** | **152 F** | U | **136 F** | 63.3 F |
| antimony | 3 | 50 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| arsenic | 50 | 30 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| barium | 1,000 | 50 | 48.1 F | 59.3 | 61.8 | 40.9 F | 31.5 F | 52.5 | 64.3 | 63.9 | 39.9 | 42.9 F | 45.3 F | 40.1 F | 49.2 F |
| berylium | 3 | 4 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| boron, Total | 1,000 | 110 | U | 61.1 B | NA | NS | 15.7 | NA | NA | NA | 48.7 | NA | NA | NA | 26.2 |
| cadmium | 5 | 5 | U | U | U | U | U | U | U | 0.6 F | 0.4 F | U | U | U | U |
| calcium | -- | 1,100 | 91,794.4 | 95,700 | 110,000 | 68,000 | 66,000 | 102,000 | 109,000 | 92,400 | 129,000 | 127,000 | 123,000 | 105,000 | 119,000 |
| chromium | 50 | 10 | U | U | U | 1.8 F | 1.8 F | 1.0 F | U | 5.6 F | 1.2 F | U | U | U | 1.3 F |
| cobalt | 5 | 60 | U | U | U | U | U | U | U | 2.2 F | 0.9 F | U | U | U | U |
| copper | 200 | 10 | U | U | U | 4.7 F | 5.1 F | 4.1 F | 2.6 F | 12.4 | 5.5 F | 2.9 F | U | 1.9 F | U |
| iron | 300 | 200 | 171.0 F | 295 | 60 F | **528** | **540** | 165 F | **516** | **4,320** | **896** | **352** | 179 | 242 | 260 |
| lead | 50 | 25 | U | U | U | 33.3 | U | U | U | 13.2 | 2.5 F | U | U | U | U |
| magnesium | 35,000 | 1,000 | 16,006.9 | 16,200 | 19,100 | 9,670 | 9,440 | 16,500 | 16,500 | 10,700 | 11,700 | 19,400 | 19,800 | 15,700 | 17,400 |
| manganese | 300 | 10 | 90.6 | 87.4 | 67.8 | 87.5 | 56.9 | 70.5 | 184 | 293 | **347** | **572** | **487** | 271 | **408** |
| molybdenum | -- | 15 | 4.5 F | U | U | U | U | 2.1 F | U | 3 F | 10.7 F | 4.4 F | U | U | 1.7 F |
| nickel | 100 | 20 | U | U | U | U | U | U | U | 7.2 F | 4.6 F | 1.6 F | U | U | U |
| potassium | -- | 1,000 | 1,335.1 | 1,980 | 2,170 | 1,940 | 1,290 | 2,080 | 2,500 | 3,150 F | 2,740 | 2,690 | 2,380 | 2,440 | 2,240 |
| selenium | 10 | 30 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| silver | 50 | 10 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| sodium | -- | 1,000 | 82,992.5 | 79,000 | 97,400 | 182,000 | 55,800 | 88,000 | 85,100 | 323,000 | 23,600 | 101,000 | 106,000 | 103,000 | 132,000 |
| thallium | 0.5 | 80 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| vanadium | -- | 10 | U | 2.3 F | U | 2.2 | 2.2 F | 1.4 F | 1.8 F | 19.8 | 13.3 | 1.4 F | U | U | 0.9 F |
| zinc | 2,000 | 20 | 13.3 F | U | U | 20 | 10.9 F | 9.9 F | 5.8 | 41 | 11.4 F | 7.7 F | 4.4 F | 7.2 F | 10.1 F |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 203 | 219 | 246 | 157 | 142 | 223 | 245 | 161 | 146 | 250 | 270 | 228 | 229 |
| ammonia | 2 | 0.2 | U | U | U | 0.05 | U | 0.024 F | 0.11 | 0.062 | 0.18 | U | 0.022 F | 0.023 F | 0.028 F |
| BOD5 | -- | 2.4 | U | 7.2 B | U | U | 1.8 F | U | U | U | 4.4 | U | U | U | U |
| bromide | 2 | 0.5 | U | U | U | U | U | U | U | U | 0.62 | U | U | 6.9 | U |
| COD | -- | 5 | 9.77 | U | U | 12 B | 35.4 | U | 22 | U | 28.6 | U | U | U | U |
| chloride | 250 | 1 | 142.9855 | 148 | 110 | **293** | 114 | 184 | 172 | **726** | 59.5 | 243 | 216 | 187 | **254** |
| color | 15 | 5 | **30** | **20** | NA | NA | **60** | NA | NA | NA | **100 J** | NA | NA | NA | 3 |
| cyanide | 200 | 0.02 | U | U | NA | NA | U | NA | NA | NA | U | NA | NA | NA | 0.0072 F |
| fluoride | 1 | 1.5 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| hardness, Total | -- | 1 | 298.07 | 345 | 358 | 400 | 212 | 308 | 335 | 320 | 414 | 396 | 420 | 340 | 430 |
| nitrate | 10 | 1 | 1.3597 | U | 1 | 1.7 | 1.9 | 1.3 | 0.97 F | 1.2 | 2.4 | 0.53 F | 0.28 F | U | 1 |
| TKN | 1 | 1 | U | 0.45 | 0.49 | 0.75 | 0.63 | 0.51 B | 0.14 F | 0.16 F | **1.3** | 0.36 | 0.58 | 0.77 B | 0.91 B |
| sulfate | 250 | 1 | 41.4313 | 42.9 | 45.8 | 28.9 | 25.1 | 43.2 | 49.7 | 80.8 | **319** | 79 | 65.8 | 53.2 | 58.6 |
| TDS | 500 | 10 | **532** | **577** | **599** | **666** | 388 | **615** | **627** | **1,170** | **634** | **711** | **731** | **670** | **660** |
| TOC | -- | 1 | 4.42 | 1.9 | 1.3 | 4 | 5.6 | 1.1 | 2 | 2.4 | 17.6 | 2.9 | 2 | 0.62 F | 1.1 |
| phenolics, Total | -- | 0.005 | U | U | U | U | 0.0093 F | U | U | 0.0091 F | U | 0.014 | 0.009 F | U | U |

For notes, please refer to the end of the tables section.

**Table 5-1**
**Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class A Surface Water Standards | Reporting Limit | LF5SW-3 | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 9/12/2006 | | 3/28/2007 | | 9/24/2007 | | 3/27/2008 | | 9/15/2008 | | 4/7/2009 | | 3/25/2010 | | 6/10/2011 | 6/4/2013 | 6/18/2015 | |
| Sample ID No. | | | LF5SW0301NA | | LF5SW0301OA | | LF5SW0301PA | | LF5SW0301QA | | LF5SW0301RA | | LF5SW0301SA | | LF5SW0301TA | | LF5SW0301UA | LF5SW0301VA | LF5SW0301WA | |
| Depth to Water (ft) | | | Surface | | Surface | | Surface | | Surface | | Surface | | Surface | | Surface | | Surface | Surface | Surface | |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | | | | | | |
| 1,2,4-trimethylbenzene | 5 | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | NA | NA | |
| 1,2-dichlorobenzene | 3 | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | NA | NA | |
| 1,3,5-trimethylbenzene | 5 | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | NA | NA | |
| 1,4-dichlorobenzene | 3 | 0.5 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | NA | NA | |
| acetone | 50 | 10 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | NA | NA | |
| benzene | 1 | 0.1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | NA | NA | |
| chlorobenzene | 5 | 0.5 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | NA | NA | |
| chloroform | 7 | 0.3 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | NA | NA | |
| naphthalene | 10 | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | NA | NA | |
| trichloroethene | 5 | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | NA | NA | |
| toluene | 5 | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | NA | NA | |
| vinyl acetate | -- | 5 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | NA | NA | |
| **Metals (µg/L) [Dissolved / Total][1]** | | | | | | | | | | | | | | | | | | | | |
| aluminum | 100 | 200 | U | 62.4 F | U | **170 F** | U | 74 F | 45 F | **200** | 41 F | 93 F | U | **120 F** | U | 57 F | NA | NA | NA | |
| antimony | 3 | 50 | U | U | U | U | 1.7 F | U | U | U | U | U | U | U | U | U | NA | NA | NA | |
| arsenic | 50 | 30 | U | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | |
| barium | 1,000 | 50 | 42.2 F | 44.1 F | 36 F | 37 F | 54 | 55 | 36 F | 37 F | 64 | 71 | 35 F | 38 F | 51 | 51 | NA | NA | NA | |
| berylium | 3 | 4 | U | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | |
| boron, Total | 1,000 | 110 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | |
| cadmium | 5 | 5 | U | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | |
| calcium | -- | 1,100 | 108,000 | 109,000 | 93,000 | 90,000 | 110,000 | 110,000 | 95,000 | 97,000 | 110,000 | 120,000 | 84,000 | 88,000 | 100,000 | 100,000 | NA | NA | NA | |
| chromium | 50 | 10 | U | 3.18 F | 2.9 F | 2.3 F | 2.3 F | 2.5 F | U | U | 2.1 F | 2.8 F | U | U | U | U | NA | NA | NA | |
| cobalt | 5 | 60 | U | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | |
| copper | 200 | 10 | U | U | 2.3 F | 2.5 F | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | |
| iron | 300 | 200 | 22.9 F | 162 F | 31 F | 300 | 23 F | 260 | 19 F | 150 F | 33 F | **390** | U | 240 | 61 F | 200 | NA | NA | NA | |
| lead | 50 | 25 | U | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | |
| magnesium | 35,000 | 1,000 | 17,400 | 17,700 | 12,000 | 12,000 | 19,000 | 19,000 | 14,000 | 14,000 | 19,000 | 20,000 | 12,000 | 13,000 | 17,000 | 17,000 | NA | NA | NA | |
| manganese | 300 | 10 | 193 | 198 | 140 | 140 | 270 | 280 | 130 | 140 | **390** | **430** | 95 | 110 | 170 | 170 | NA | NA | NA | |
| molybdenum | -- | 15 | U | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | |
| nickel | 100 | 20 | U | U | U | U | U | U | U | U | U | 1.4 F | U | U | U | U | NA | NA | NA | |
| potassium | -- | 1,000 | 1,800 | 1,950 | 2,000 | 2,000 | 2,000 | 2,000 | 1,900 | 1,900 | 2,200 | 2,300 | 1,800 | 1,900 | 2,100 | 2,200 | NA | NA | NA | |
| selenium | 10 | 30 | U | U | U | U | U | U | U | U | 2.8 F | U | U | U | U | U | NA | NA | NA | |
| silver | 50 | 10 | U | U | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | |
| sodium | -- | 1,000 | 100,000 | 103,000 | 100,000 | 100,000 | 100,000 | 100,000 | 94,000 | 96,000 | 98,000 | 110,000 | 89,000 | 91,000 | 97,000 | 97,000 | NA | NA | NA | |
| thallium | 0.5 | 80 | U | **6.01 F** | U | U | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | |
| vanadium | -- | 10 | U | U | 0.71 F | 0.94 F | U | U | U | U | U | U | U | U | U | U | NA | NA | NA | |
| zinc | 2,000 | 20 | 49.9 B | 29 B | U | 9.4 F | 26 B | U | 16 F | 21 B | 18 F | 65 | 16 F | 19 F | 20 | 87 | NA | NA | NA | |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | 190 | 190 | 82 | |
| ammonia | 2 | 0.2 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | 0.15 | 0.12 | 0.71 | |
| BOD5 | -- | 2.4 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | U | 21 | 5.5 J | |
| bromide | 2 | 0.5 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | U | U | U | |
| COD | -- | 5 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | 7.3 | 21 | 41 | |
| chloride | 250 | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | 140 | 150 | 26 | |
| color | 15 | 5 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | U | U | **180** | |
| cyanide | 200 | 0.02 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | U | U | |
| fluoride | 1 | 1.5 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | U | U | U | |
| hardness, Total | -- | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | 250 | 260 | 220 | |
| nitrate | 10 | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | 0.76 | U | U | |
| TKN | 1 | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | 0.51 F | **1.0** | 0.69 J | |
| sulfate | 250 | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | 33 | 29 | 4.8 J | |
| TDS | 500 | 10 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | 490 | **530 B** | 140 | |
| TOC | -- | 1 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | 1.8 | 5.2 | 11 | |
| phenolics, Total | -- | 0.005 | NA | | NA | | NA | | NA | | NA | | NA | | NA | | NA | U | U | |

For notes, please refer to the end of the tables section.

**Table 5-2**
**LF007 (Landfill 5 AOC) LTM Network**

| Sampling Locations | Screen Interval Depth (ft MSL) | Sampling Rationale | Target Analytes/ Method Numbers[1] | Matrix | # of Samples | Sampling Frequency | 2016 Recommended Sampling Frequency | Evaluation Criteria |
|---|---|---|---|---|---|---|---|---|
| **Groundwater** | | ---------- | Landfill Leachate Indicators: | Water | 8 | Biennially | Every 5 Years | If downgradient wells do not exhibit exceedances of NYS Groundwater Standards or Base background levels for two successive monitoring events, evaluate monitoring frequency and number of wells. |
| LF5MW-3 | 459.25' – 449.25' | Downgradient of potential source and between landfill and hardfill | Anions – SW9056<br>Nitrogen (TKN) – 351.2<br>Ammonia – 350.2<br>COD – 410.4<br>BOD – 405.1<br>TOC – SW9060<br>TDS – 160.1<br>Alkalinity – 310.1<br>Phenols – SW9066<br>Hardness – 130.2<br>Color – 110.2<br>Boron – SW6010B | | | | | |
| MW49D07 | 455.51' – 445.51' | Downgradient from potential source | | | | | | |
| LF5MW-5 | 459.49' – 449.49' | Downgradient from potential source | | | | | | |
| LF5MW-100 | 405.92' – 395.92' | Bedrock, downgradient | | | | | | |
| LF5MW-1A | 465.6' – 455.6' | Upgradient from potential | | | | | | |
| Leachate Samples | | None encountered | | | | | | |
| **Surface Water** | | ---------- | | | | | | |
| LF5SW-1 | | | | | | | | |
| LF5SW-2 | | | | | | | | |
| LF5SW-3 | ---------- Depth to groundwater ranged from 4.90 to 21.80 ft bgs. | Potential contaminant receptor<br>Potential contaminant receptor<br>Potential contaminant receptor | | | | | | |

1 Baseline parameters based on 6 NYCRR Part 360, Subpart 2, Appendix A.

**Table 6-1**
**LF009 (Landfill 6 AOC) Landfill Gas Monitoring Results**

| Sample Location | 21-Dec-04 | | | | 17-Jan-05 | | | | 17-Feb-05 | | | | 24-Mar-05 | | | | 26-Apr-05 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Barometric Pressure (in.) = | | | 29.39 | Barometric Pressure (in.) = | | | 29.77 | Barometric Pressure (in.) = | | | 29.34 | Barometric Pressure (in.) = | | | 30.00 | Barometric Pressure (in.) = | | | 29.28 |
| | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) |
| LF6GMP-01 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| LF6GMP-02 | NI | NI | NI | NI | NI | NI | NI | NI | --- | --- | --- | --- | --- | --- | --- | --- | 0 | 0.0 | 19.6 | 0.4 |
| LF6GMP-03 | NI | NI | NI | NI | NI | NI | NI | NI | 0 | 0.0 | 20.5 | 0.1 | 0 | 0.0 | 20.8 | 0.0 | 0 | 0.0 | 20.7 | 0.0 |
| LF6GMP-04 | NI | NI | NI | NI | NI | NI | NI | NI | 0 | 0.0 | 20.3 | 0.1 | 0 | 0.0 | 20.2 | 0.3 | 0 | 0.0 | 20.4 | 0.0 |
| LF6GMP-05 | NI | NI | NI | NI | NI | NI | NI | NI | 0 | 0.0 | 19.7 | 0.6 | 0 | 0.0 | 20.8 | 0.0 | 0 | 0.0 | 20.4 | 0.1 |
| LF6GMP-06 | NI | NI | NI | NI | NI | NI | NI | NI | 0 | 0.0 | 19.5 | 0.5 | 0 | 0.0 | 19.1 | 0.5 | 0 | 0.0 | 19.6 | 0.5 |
| LF6GMP-07 | NI | NI | NI | NI | NI | NI | NI | NI | 0 | 0.0 | 20.7 | 0.0 | 0 | 0.0 | 16.6 | 2.7 | 0 | 0.0 | 15.9 | 3.6 |
| LF6GMP-08 | NI | NI | NI | NI | NI | NI | NI | NI | --- | --- | --- | --- | --- | --- | --- | --- | 4 | 0.2 | 11.3 | 8.1 |
| LF6GMP-09 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| LF6GMP-10 | NI | NI | NI | NI | NI | NI | NI | NI | --- | --- | --- | --- | --- | --- | --- | --- | 0 | 0.0 | 20.4 | 0.1 |
| LF6GMP-11 | NI | NI | NI | NI | NI | NI | NI | NI | --- | --- | --- | --- | --- | --- | --- | --- | 0 | 0.0 | 19.1 | 1.0 |
| LF6GMP-12 | NI | NI | NI | NI | NI | NI | NI | NI | --- | --- | --- | --- | --- | --- | --- | --- | 0 | 0.0 | 16.7 | 3.5 |
| LF6GMP-13 | NI | NI | NI | NI | NI | NI | NI | NI | --- | --- | --- | --- | --- | --- | --- | --- | 0 | 0.0 | 19.6 | 0.6 |
| LF6GMP-14 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| LF6GMP-15S | NI | NI | NI | NI | NI | NI | NI | NI | 0 | 0.0 | 20.7 | 0.0 | 0 | 0.0 | 20.9 | 0.0 | 0 | 0.0 | 20.7 | 0.0 |
| LF6GMP-15D | NI | NI | NI | NI | NI | NI | NI | NI | 0 | 0.0 | 20.8 | 0.0 | 0 | 0.0 | 20.9 | 0.0 | 0 | 0.0 | 20.6 | 0.0 |
| LF6GMP-16S | NI | NI | NI | NI | NI | NI | NI | NI | 0 | 0.0 | 20.6 | 0.0 | 0 | 0.0 | 20.8 | 0.0 | 0 | 0.0 | 20.5 | 0.0 |
| LF6GMP-16D | NI | NI | NI | NI | NI | NI | NI | NI | 0 | 0.0 | 20.1 | 0.2 | 0 | 0.0 | 20.9 | 0.0 | 0 | 0.0 | 20.7 | 0.0 |
| LF6GMP-17S | NI | NI | NI | NI | NI | NI | NI | NI | 0 | 0.0 | 20.6 | 0.0 | 0 | 0.0 | 21.0 | 0.0 | 0 | 0.0 | 20.6 | 0.0 |
| LF6GMP-17D | NI | NI | NI | NI | NI | NI | NI | NI | 0 | 0.0 | 20.5 | 0.0 | 0 | 0.0 | 21.1 | 0.0 | 0 | 0.0 | 20.7 | 0.0 |
| LF6VENT-01 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| LF6VENT-02 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| LF6VENT-03 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| LF6VENT-04 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| LF6VENT-05 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| LF6VENT-06 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| LF6VENT-07 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| LF6VENT-08 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| LF6VENT-09 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| LF6VENT-10 | 0 | 0.0 | 20.9 | 0.0 | 0 | 0.0 | 20.5 | 0.1 | --- | --- | --- | --- | --- | --- | --- | --- | 0 | 0.0 | 20.2 | 0.2 |
| LF6VENT-11 | 0 | 0.0 | 18.2 | 1.8 | 0 | 0.0 | 17.4 | 2.1 | --- | --- | --- | --- | --- | --- | --- | --- | 0 | 0.0 | 18.7 | 0.9 |
| LF6VENT-12 | 0 | 0.0 | 19.6 | 0.8 | 0 | 0.0 | 16.1 | 1.4 | --- | --- | --- | --- | --- | --- | --- | --- | 0 | 0.0 | 18.9 | 1.2 |
| LF6VENT-13 | 0 | 0.0 | 20.6 | 0.3 | 0 | 0.0 | 14.7 | 3.4 | --- | --- | --- | --- | --- | --- | --- | --- | 0 | 0.0 | 17.6 | 1.0 |
| LF6VENT-14 | 4 | 0.2 | 21.4 | 0.0 | 0 | 0.0 | 18.7 | 0.8 | --- | --- | --- | --- | --- | --- | --- | --- | 0 | 0.0 | 18.5 | 1.1 |
| LF6VENT-15 | 2 | 0.1 | 21.4 | 0.0 | 0 | 0.0 | 17.6 | 0.9 | --- | --- | --- | --- | --- | --- | --- | --- | 0 | 0.0 | 17.6 | 1.4 |
| LF6VENT-16 | 4 | 0.2 | 21.5 | 0.0 | 0 | 0.0 | 17.4 | 1.7 | --- | --- | --- | --- | --- | --- | --- | --- | 0 | 0.0 | 15.5 | 2.7 |

Notes:

NI = Not Installed.

NS = Not Sampled.

--- = Not Monitored.

**Table 6-1**
**LF009 (Landfill 6 AOC) Landfill Gas Monitoring Results**

| Sample Location | 26-May-05 | | | | 24-Jun-05 | | | | 2-Aug-05 | | | | 30-Aug-05 | | | | 10-Oct-05 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Barometric Pressure (in.) = | | | 29.23 | Barometric Pressure (in.) = | | | 29.61 | Barometric Pressure (in.) = | | | 29.55 | Barometric Pressure (in.) = | | | 29.38 | Barometric Pressure (in.) = | | | 29.55 |
| | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) |
| LF6GMP-01 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | 0 | 0.0 | 15.1 | 1.0 |
| LF6GMP-02 | 0 | 0.0 | 18.0 | 1.8 | 0 | 0.0 | 49.1 | 0.6 | --- | --- | --- | --- | 0 | 0.0 | 15.1 | 4.2 | 2 | 0.1 | 20.7 | 0.0 |
| LF6GMP-03 | 0 | 0.0 | 20.7 | 0.1 | 0 | 0.0 | 20.2 | 0.1 | --- | --- | --- | --- | 0 | 0.0 | 18.4 | 1.0 | 0 | 0.0 | 20.7 | 0.0 |
| LF6GMP-04 | 0 | 0.0 | 19.6 | 0.9 | 0 | 0.0 | 19.3 | 0.6 | --- | --- | --- | --- | 0 | 0.0 | 17.4 | 2.4 | 0 | 0.0 | 20.5 | 0.1 |
| LF6GMP-05 | 2 | 0.1 | 20.3 | 0.5 | 0 | 0.0 | 19.6 | 0.5 | --- | --- | --- | --- | 0 | 0.0 | 18.8 | 1.6 | 0 | 0.0 | 20.4 | 0.1 |
| LF6GMP-06 | 2 | 0.1 | 19.9 | 0.5 | 0 | 0.0 | 19.3 | 0.6 | --- | --- | --- | --- | 0 | 0.0 | 19.1 | 1.5 | 0 | 0.0 | 19.1 | 1.2 |
| LF6GMP-07 | 0 | 0.0 | 20.9 | 0.1 | 0 | 0.0 | 19.4 | 0.7 | --- | --- | --- | --- | 0 | 0.0 | 14.4 | 5.9 | 0 | 0.0 | 20.8 | 0.0 |
| LF6GMP-08 | 6 | 0.3 | 13.6 | 7.5 | 42 | 2.1 | 6.4 | 18.6 | --- | --- | --- | --- | 98 | 4.9 | 2.8 | 28.5 | 94 | 4.7 | 5.7 | 17.5 |
| LF6GMP-09 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | 2 | 0.1 | 18.7 | 0.5 |
| LF6GMP-10 | 2 | 0.1 | 20.9 | 0.0 | 0 | 0.0 | 18.9 | 1.6 | --- | --- | --- | --- | 0 | 0.0 | 18.5 | 2.3 | 2 | 0.1 | 18.5 | 2.1 |
| LF6GMP-11 | 2 | 0.1 | 18.8 | 2.1 | 0 | 0.0 | 18.1 | 2.5 | --- | --- | --- | --- | 0 | 0.0 | 15.9 | 5.2 | 2 | 0.1 | 20.6 | 0.1 |
| LF6GMP-12 | 0 | 0.0 | 14.1 | 6.7 | 0 | 0.0 | 17.6 | 3.7 | --- | --- | --- | --- | 0 | 0.0 | 15.3 | 4.3 | 0 | 0.0 | 17.4 | 2.7 |
| LF6GMP-13 | 2 | 0.1 | 19.8 | 0.9 | 0 | 0.0 | 18.3 | 1.9 | --- | --- | --- | --- | 0 | 0.0 | 16.9 | 3.5 | 2 | 0.1 | 16.6 | 3.7 |
| LF6GMP-14 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| LF6GMP-15S | 0 | 0.0 | 20.8 | 0.0 | 0 | 0.0 | 20.7 | 0.0 | 0 | 0.0 | 20.6 | 0.0 | 0 | 0.0 | 20.3 | 0.3 | 0 | 0.0 | 20.6 | 0.0 |
| LF6GMP-15D | 0 | 0.0 | 21.0 | 0.0 | 0 | 0.0 | 20.6 | 0.0 | 0 | 0.0 | 20.5 | 0.0 | 0 | 0.0 | 20.6 | 0.1 | 0 | 0.0 | 20.7 | 0.0 |
| LF6GMP-16S | 0 | 0.0 | 20.6 | 0.0 | 0 | 0.0 | 20.2 | 0.2 | 0 | 0.0 | 20.1 | 0.2 | 0 | 0.0 | 20.0 | 0.4 | 0 | 0.0 | 20.2 | 0.2 |
| LF6GMP-16D | 0 | 0.0 | 20.3 | 0.2 | 0 | 0.0 | 20.7 | 0.0 | 0 | 0.0 | 20.6 | 0.0 | 0 | 0.0 | 20.0 | 0.4 | 0 | 0.0 | 20.2 | 0.2 |
| LF6GMP-17S | 0 | 0.0 | 20.7 | 0.1 | 0 | 0.0 | 20.3 | 0.1 | 0 | 0.0 | 20.3 | 0.1 | 0 | 0.0 | 20.3 | 0.3 | 0 | 0.0 | 20.2 | 0.2 |
| LF6GMP-17D | 0 | 0.0 | 20.8 | 0.0 | 0 | 0.0 | 20.6 | 0.0 | 0 | 0.0 | 20.4 | 0.0 | 0 | 0.0 | 20.4 | 0.2 | 0 | 0.0 | 20.2 | 0.1 |
| LF6VENT-01 | NI | NI | NI | NI | NI | NI | NI | NI | --- | --- | --- | --- | 14 | 0.7 | 5.1 | 2.2 | 0 | 0.0 | 19.5 | 0.2 |
| LF6VENT-02 | NI | NI | NI | NI | NI | NI | NI | NI | --- | --- | --- | --- | >100 | 9.6 | 2.5 | 0.0 | 0 | 0.0 | 20.7 | 0.0 |
| LF6VENT-03 | NI | NI | NI | NI | NI | NI | NI | NI | --- | --- | --- | --- | >100 | 23.8 | 0.0 | 15.2 | 0 | 0.0 | 20.4 | 0.4 |
| LF6VENT-04 | NI | NI | NI | NI | NI | NI | NI | NI | --- | --- | --- | --- | >100 | 8.5 | 10.7 | 3.7 | >100 | 14.5 | 4.9 | 9.4 |
| LF6VENT-05 | NI | NI | NI | NI | NI | NI | NI | NI | --- | --- | --- | --- | >100 | 7.4 | 0.4 | 19.8 | 0 | 0.0 | 16.2 | 2.8 |
| LF6VENT-06 | NI | NI | NI | NI | NI | NI | NI | NI | --- | --- | --- | --- | >100 | 6.3 | 5.4 | 1.1 | 0 | 0.0 | 20.7 | 0.0 |
| LF6VENT-07 | NI | NI | NI | NI | NI | NI | NI | NI | --- | --- | --- | --- | 0 | 0.0 | 6.4 | 13.7 | 0 | 0.0 | 20.7 | 0.0 |
| LF6VENT-08 | NI | NI | NI | NI | NI | NI | NI | NI | --- | --- | --- | --- | 80 | 4.0 | 1.2 | 20.6 | 0 | 0.0 | 20.7 | 0.0 |
| LF6VENT-09 | NI | NI | NI | NI | NI | NI | NI | NI | --- | --- | --- | --- | 0 | 0.0 | 15.6 | 4.4 | 0 | 0.0 | 20.8 | 0.0 |
| LF6VENT-10 | 0 | 0.0 | 21.0 | 0.0 | 0 | 0.0 | 20.3 | 0.2 | --- | --- | --- | --- | 18 | 0.9 | 1.8 | 18.8 | 0 | 0.0 | 20.8 | 0.0 |
| LF6VENT-11 | 0 | 0.0 | 21.0 | 0.0 | 0 | 0.0 | 18.4 | 1.6 | --- | --- | --- | --- | 0 | 0.0 | 12.0 | 7.8 | 0 | 0.0 | 20.7 | 0.0 |
| LF6VENT-12 | 0 | 0.0 | 13.5 | 5.1 | 0 | 0.0 | 18.9 | 1.5 | --- | --- | --- | --- | 46 | 2.3 | 0.9 | 22.3 | 0 | 0.0 | 20.8 | 0.0 |
| LF6VENT-13 | 0 | 0.0 | 17.2 | 2.6 | 0 | 0.0 | 16.2 | 2.8 | --- | --- | --- | --- | 0 | 0.0 | 7.8 | 11.1 | 0 | 0.0 | 20.7 | 0.0 |
| LF6VENT-14 | 0 | 0.0 | 21.2 | 0.0 | 0 | 0.0 | 17.6 | 2.0 | --- | --- | --- | --- | 0 | 0.0 | 11.4 | 7.7 | 0 | 0.0 | 20.8 | 0.0 |
| LF6VENT-15 | 0 | 0.0 | 21.1 | 0.0 | 0 | 0.0 | 10.6 | 8.1 | --- | --- | --- | --- | >100 | 5.1 | 0.0 | 26.0 | 0 | 0.0 | 20.7 | 0.0 |
| LF6VENT-16 | 0 | 0.0 | 21.2 | 0.0 | 0 | 0.0 | 11.9 | 6.2 | --- | --- | --- | --- | 38 | 1.9 | 0.3 | 19.5 | 0 | 0.0 | 20.7 | 0.0 |

Notes:
NI = Not Installed.
NS = Not Sampled.
--- = Not Monitored.

**Table 6-1**
**LF009 (Landfill 6 AOC) Landfill Gas Monitoring Results**

| Sample Location | 14-Nov-05 | | | | 1-Dec-05 | | | | 9-Jan-06 | | | | 13-Jul-06 | | | | 9-Oct-06 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Barometric Pressure (in.) = | | | 30.32 | Barometric Pressure (in.) = | | | 29.94 | Barometric Pressure (in.) = | | | 29.79 | Barometric Pressure (in.) = | | | 29.77-30.04 | Barometric Pressure (in.) = | | | 29.51-29.65 |
| | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) |
| LF6GMP-01 | 0 | 0.0 | 14.0 | 0.8 | 0 | 0.0 | 19.2 | 0.3 | 0 | 0.0 | 17.2 | 0.5 | 0.0 | 0.0 | 16.5 | 11.2 | 0 | 0.0 | 9.6 | 3.0 |
| LF6GMP-02 | 0 | 0.0 | 20.6 | 0.0 | 0 | 0.0 | 12.3 | 5.2 | 0 | 0.0 | 16.7 | 2.7 | 0.0 | 0.0 | 20.6 | 0.0 | 0 | 0.0 | 20.2 | 0.2 |
| LF6GMP-03 | 0 | 0.0 | 20.6 | 0.0 | 0 | 0.0 | 18.3 | 0.7 | 0 | 0.0 | 19.3 | 0.4 | 0.0 | 0.0 | 20.6 | 0.0 | 0 | 0.0 | 21.0 | 0.1 |
| LF6GMP-04 | 0 | 0.0 | 20.5 | 0.0 | 0 | 0.0 | 20.6 | 0.2 | 0 | 0.0 | 19.2 | 1.1 | 0.0 | 0.0 | 20.4 | 0.0 | 0 | 0.0 | 15.9 | 4.1 |
| LF6GMP-05 | 0 | 0.0 | 20.6 | 0.0 | 0 | 0.0 | 18.2 | 1.9 | 0 | 0.0 | 20.5 | 0.0 | 0.0 | 0.0 | 20.6 | 0.0 | 0 | 0.0 | 18.1 | 2.1 |
| LF6GMP-06 | 0 | 0.0 | 19.6 | 0.4 | 0 | 0.0 | 18.5 | 1.6 | 0 | 0.0 | 19.2 | 0.8 | 0.0 | 0.0 | 20.6 | 0.0 | 0 | 0.0 | 21.0 | 0.3 |
| LF6GMP-07 | 0 | 0.0 | 20.5 | 0.0 | 0 | 0.0 | 13.6 | 6.1 | 0 | 0.0 | 20.2 | 0 | 0.0 | 0.0 | 20.6 | 0.0 | 0 | 0.0 | 13.7 | 6.1 |
| LF6GMP-08 | 50 | 2.5 | 13.7 | 7.1 | >100 | 9.1 | 0.1 | 24.0 | >100 | 7.5 | 0.0 | 22.2 | 72.0 | 3.6 | 0.0 | 29.8 | 20 | 1.0 | 1.8 | 15.2 |
| LF6GMP-09 | 0 | 0.0 | 20.5 | 0 | 0 | 0 | 15.5 | 4.1 | 0 | 0 | 18.2 | 1.3 | 0.0 | 0.0 | 20.7 | 0.0 | 0 | 0 | 20.3 | 0.6 |
| LF6GMP-10 | 0 | 0.0 | 20.2 | 0.2 | 0 | 0.0 | 20.7 | 0.3 | 0 | 0.0 | 20.1 | 0.4 | 0.0 | 0.0 | 20.3 | 0.0 | 0 | 0.0 | 19.7 | 1.8 |
| LF6GMP-11 | 0 | 0.0 | 20.5 | 0.0 | 0 | 0.0 | 16.0 | 3.3 | 0 | 0.0 | 20.5 | o | 0.0 | 0.0 | 20.6 | 0.0 | 0 | 0.0 | 14.8 | 5.5 |
| LF6GMP-12 | 0 | 0.0 | 19.8 | 0.4 | 0 | 0.0 | 16.40 | 3.6 | 0 | 0.0 | 18.00 | 2.0 | 0.0 | 0.0 | 20.6 | 0.0 | 0 | 0.0 | 13.40 | 6.2 |
| LF6GMP-13 | 0 | 0.0 | 16.0 | 3.4 | 0 | 0.0 | 16.5 | 3.4 | 0 | 0.0 | 16.6 | 3.3 | 0.0 | 0.0 | 20.4 | 0.1 | 0 | 0.0 | 15.6 | 4.0 |
| LF6GMP-14 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| LF6GMP-15S | 0 | 0.0 | 20.4 | 0.0 | 0 | 0.0 | 20.4 | 0.2 | 0 | 0.0 | 20.3 | 0.1 | --- | --- | --- | --- | --- | --- | --- | --- |
| LF6GMP-15D | 0 | 0.0 | 20.5 | 0.0 | 0 | 0.0 | 20.6 | 0.0 | 0 | 0.0 | 20.4 | 0.1 | --- | --- | --- | --- | --- | --- | --- | --- |
| LF6GMP-16S | 0 | 0.0 | 20.2 | 0.0 | 0 | 0.0 | 20.2 | 0.2 | 0 | 0.0 | 19.8 | 0.4 | --- | --- | --- | --- | --- | --- | --- | --- |
| LF6GMP-16D | 0 | 0.0 | 20.4 | 0.0 | 0 | 0.0 | 19.9 | 0.3 | 0 | 0.0 | 20.5 | 0.0 | --- | --- | --- | --- | --- | --- | --- | --- |
| LF6GMP-17S | 0 | 0.0 | 20.3 | 0.0 | 0 | 0.0 | 20.5 | 0.2 | 0 | 0.0 | 20.2 | 0.2 | --- | --- | --- | --- | --- | --- | --- | --- |
| LF6GMP-17D | 0 | 0.0 | 20.4 | 0.0 | 0 | 0.0 | 20.6 | 0.0 | 0 | 0.0 | 20.4 | 0.0 | --- | --- | --- | --- | --- | --- | --- | --- |
| LF6VENT-01 | 0 | 0.0 | 20.5 | 0.0 | 0 | 0.0 | 15.8 | 0.2 | 0 | 0.0 | 20.5 | 0.0 | 0.0 | 0.0 | 19.1 | 0.3 | 1 | 0.1 | 14.6 | 1.2 |
| LF6VENT-02 | 0 | 0.0 | 20.6 | 0.0 | 30 | 1.5 | 11.6 | 0.0 | 0 | 0.0 | 20.5 | 0.0 | 0.0 | 0.0 | 20.5 | 0.0 | 15 | 0.8 | 16.8 | 0.1 |
| LF6VENT-03 | 0 | 0.0 | 20.5 | 0.0 | 34 | 1.7 | 4.4 | 7.1 | 0 | 0.0 | 20.3 | 0.0 | 0.0 | 0.0 | 18.4 | 1.3 | 18 | 0.9 | 15.6 | 2.8 |
| LF6VENT-04 | 0 | 0.0 | 20.5 | 0.0 | >100 | 5.9 | 4.2 | 4.5 | 0 | 0.0 | 20.4 | 0.0 | 62.0 | 3.1 | 12.9 | 4.4 | >100 | 5.1 | 14.3 | 2.2 |
| LF6VENT-05 | 0 | 0.0 | 20.4 | 0.0 | 0 | 0.0 | 9.8 | 6.7 | 0 | 0.0 | 20.3 | 0.0 | 0.0 | 0.0 | 19.9 | 0.3 | 0 | 0.0 | 19.3 | 1.4 |
| LF6VENT-06 | 0 | 0.0 | 20.5 | 0.0 | 52 | 2.6 | 11.6 | 0.0 | 0 | 0.0 | 20.4 | 0.0 | 0.0 | 0.0 | 19.2 | 0.0 | 7 | 0.4 | 14.5 | 0.5 |
| LF6VENT-07 | 0 | 0.0 | 20.5 | 0.0 | 0 | 0.0 | 15.4 | 3.7 | 0 | 0.0 | 20.4 | 0.0 | 0.0 | 0.0 | 18.6 | 1.4 | 0 | 0.0 | 12.6 | 5.2 |
| LF6VENT-08 | 0 | 0.0 | 20.6 | 0.0 | 0 | 0.0 | 16.6 | 2.5 | 0 | 0.0 | 20.4 | 0.0 | 0.0 | 0.0 | 19.0 | 1.0 | 0 | 0.0 | 17.9 | 1.7 |
| LF6VENT-09 | 0 | 0.0 | 20.5 | 0.0 | 0 | 0.0 | 17.8 | 1.9 | 0 | 0.0 | 20.6 | 0.0 | 0.0 | 0.0 | 19.3 | 0.4 | 0 | 0.0 | 16.2 | 3.1 |
| LF6VENT-10 | 0 | 0.0 | 20.5 | 0.0 | 0 | 0.0 | 15.5 | 3.2 | 0 | 0.0 | 20.5 | 0.0 | 0.0 | 0.0 | 18.7 | 2.2 | 0 | 0.0 | 9.4 | 6.5 |
| LF6VENT-11 | 0 | 0.0 | 20.5 | 0.0 | 0 | 0.0 | 16.1 | 3.2 | 0 | 0.0 | 20.2 | 0.0 | 0.0 | 0.0 | 19.1 | 0.8 | 0 | 0.0 | 6.2 | 7.3 |
| LF6VENT-12 | 0 | 0.0 | 20.5 | 0.0 | 0 | 0.0 | 15.5 | 3.5 | 0 | 0.0 | 20.4 | 0.0 | 0.0 | 0.0 | 18.4 | 2.7 | 0 | 0.0 | 16.6 | 3.1 |
| LF6VENT-13 | 0 | 0.0 | 20.5 | 0.0 | 0 | 0.0 | 13.4 | 4.8 | 0 | 0.0 | 20.5 | 0.0 | 0.0 | 0.0 | 16.4 | 2.6 | 0 | 0.0 | 12.7 | 5.4 |
| LF6VENT-14 | 0 | 0.0 | 20.5 | 0.0 | 0 | 0.0 | 13.6 | 4.3 | 0 | 0.0 | 20.2 | 0.0 | 0.0 | 0.0 | 16.4 | 2.7 | 0 | 0.0 | 14.0 | 3.9 |
| LF6VENT-15 | 0 | 0.0 | 20.5 | 0.0 | 0 | 0.0 | 8.9 | 7.3 | 0 | 0.0 | 20.3 | 0.0 | 0.0 | 0.0 | 13.8 | 7.1 | 5 | 0.3 | 9.7 | 7.4 |
| LF6VENT-16 | 0 | 0.0 | 19.7 | 0.4 | 48 | 2.4 | 1.3 | 13.5 | 0 | 0.0 | 20.2 | 0.0 | 16.0 | 0.8 | 3.3 | 16.2 | 0 | 0.0 | 10.3 | 5.3 |

Notes:

NI = Not Installed.

NS = Not Sampled.

--- = Not Monitored.

**Table 6-1**
**LF009 (Landfill 6 AOC) Landfill Gas Monitoring Results**

| Sample Location | 4-Jan-07 | | | | 1-Jun-07 | | | | 31-Jul-07 | | | | 6-Oct-07 | | | | 29-Jan-08 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Barometric Pressure (in.) = | | | 29.35-29.40 | Barometric Pressure (in.) = | | | 29.41-29.52 | Barometric Pressure (in.) = | | | 29.36-29.48 | Barometric Pressure (in.) = | | | 29.94 | Barometric Pressure (in.) = | | | 29.06-29.42 |
| | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) |
| LF6GMP-01 | 0 | 0.0 | 19.4 | 0.4 | 0 | 0.0 | 14.9 | 1.7 | 0 | 0.0 | 16.1 | 2.5 | 0 | 0.0 | 13.1 | 3.3 | 0 | 0.0 | 18.0 | 1.3 |
| LF6GMP-02 | 0 | 0.0 | 10.0 | 6.4 | 0 | 0.0 | 8.9 | 6.7 | 0 | 0.0 | 11.1 | 6.3 | 0 | 0.0 | 18.2 | 1.9 | 0 | 0.0 | 10.3 | 7.0 |
| LF6GMP-03 | 0 | 0.0 | 13.9 | 2.5 | 0 | 0.0 | 14.9 | 1.7 | 0 | 0.0 | 15.4 | 2.1 | 0 | 0.0 | 17.2 | 1.7 | 0 | 0.0 | 19.0 | 1.0 |
| LF6GMP-04 | 0 | 0.0 | 12.9 | 7.1 | 0 | 0.0 | 13.9 | 6.0 | 0 | 0.0 | 13.1 | 6.3 | 0 | 0.0 | 14.1 | 5.9 | 0 | 0.0 | 14.7 | 5.9 |
| LF6GMP-05 | 0 | 0.0 | 20.5 | 0.4 | 0 | 0.0 | 18.2 | 1.7 | 0 | 0.0 | 18.8 | 1.8 | 0 | 0.0 | 18.4 | 2.0 | 0 | 0.0 | 18.2 | 2.3 |
| LF6GMP-06 | 0 | 0.0 | 18.3 | 2.3 | 0 | 0.0 | 18.2 | 1.7 | 0 | 0.0 | 19.2 | 1.6 | 0 | 0.0 | 17.9 | 2.5 | 0 | 0.0 | 18.3 | 2.2 |
| LF6GMP-07 | 0 | 0.0 | 20.9 | 0.1 | 0 | 0.0 | 15.2 | 5.2 | 0 | 0.0 | 15.7 | 5.0 | 0 | 0.0 | 15.8 | 4.8 | 0 | 0.0 | 15.7 | 5.2 |
| LF6GMP-08 | 0 | 0.0 | 20.6 | 0.4 | 0 | 0.0 | 3.6 | 19.1 | 0 | 0.0 | 9.2 | 11.3 | 0 | 0.0 | 5.1 | 16.0 | 0 | 0.0 | 5.4 | 11.5 |
| LF6GMP-09 | 0 | 0.0 | 20.2 | 0.6 | 0 | 0.0 | 18.3 | 3.4 | 0 | 0.0 | 19.1 | 1.6 | 0 | 0.0 | 14.1 | 6.5 | 0 | 0.0 | 16.8 | 4.0 |
| LF6GMP-10 | 0 | 0.0 | 20.6 | 1.0 | 0 | 0.0 | 20.0 | 0.4 | 0 | 0.0 | 20.0 | 1.0 | 0 | 0.0 | 20.0 | 0.7 | 0 | 0.0 | 19.9 | 1.1 |
| LF6GMP-11 | 0 | 0.0 | 18.6 | 2.6 | 0 | 0.0 | 18.5 | 2.4 | 0 | 0.0 | 17.9 | 3.2 | 0 | 0.0 | 17.7 | 3.2 | 0 | 0.0 | 19.0 | 2.3 |
| LF6GMP-12 | 0 | 0.0 | 19.5 | 1.3 | 0 | 0.0 | 18.1 | 3.1 | 0 | 0.0 | 17.4 | 3.5 | 0 | 0.0 | 17.4 | 7.5 | 0 | 0.0 | 18.3 | 2.7 |
| LF6GMP-13 | 0 | 0.0 | 18.3 | 2.2 | 0 | 0.0 | 19.2 | 1.3 | 0 | 0.0 | 19.3 | 1.7 | 0 | 0.0 | 19.7 | 1.1 | 0 | 0.0 | 19.6 | 1.9 |
| LF6GMP-14 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| LF6GMP-15S | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| LF6GMP-15D | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| LF6GMP-16S | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| LF6GMP-16D | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| LF6GMP-17S | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| LF6GMP-17D | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| LF6VENT-01 | 12 | 0.6 | 10.8 | 0.8 | 0 | 0.0 | 17.1 | 1.2 | 0 | 0.0 | 12.6 | 1.0 | 6 | 0.3 | 12.6 | 1.4 | 7 | 0.4 | 9.5 | 1.4 |
| LF6VENT-02 | 83 | 4.2 | 4.2 | 0.1 | 38 | 1.9 | 11.6 | 0.2 | 32 | 1.6 | 10.6 | 0.4 | >100 | 6.1 | 1.3 | 0.5 | >100 | 5.8 | 0.6 | 0.2 |
| LF6VENT-03 | 99 | 5.0 | 3.2 | 7.9 | 0 | 0.0 | 13.2 | 4.8 | 18 | 0.9 | 8.4 | 7.7 | >100 | 5.3 | 6.7 | 9.2 | >100 | 6.8 | 2.7 | 10.3 |
| LF6VENT-04 | >100 | 9.5 | 0.4 | 4.0 | >100 | 9.4 | 9.1 | 5.7 | >100 | 12.1 | 4.5 | 7.3 | >100 | 15.7 | 6.2 | 6.0 | >100 | 14.6 | 0.5 | 5.5 |
| LF6VENT-05 | 3 | 0.2 | 6.7 | 6.1 | 0 | 0.0 | 19.1 | 1.4 | 0 | 0.0 | 14.2 | 4.5 | 0 | 0.0 | 13.4 | 5.5 | 32 | 1.6 | 3.0 | 11.9 |
| LF6VENT-06 | 66 | 3.3 | 8.4 | 0.5 | 0 | 0.0 | 16.1 | 0.2 | 7 | 0.3 | 9.7 | 0.3 | 30 | 1.5 | 11.4 | 0.4 | 84 | 4.2 | 2.3 | 0.5 |
| LF6VENT-07 | 0 | 0.0 | 13.4 | 5.1 | 0 | 0.0 | 19.5 | 1.4 | 0 | 0.0 | 15.2 | 4.2 | 0 | 0.0 | 13.8 | 5.3 | >100 | 0.0 | 9.9 | 8.6 |
| LF6VENT-08 | 0 | 0.0 | 13.5 | 3.9 | 0 | 0.0 | 17.9 | 2.5 | 0 | 0.0 | 17.8 | 2.4 | 0 | 0.0 | 10.3 | 6.7 | 0 | 0.0 | 8.8 | 7.8 |
| LF6VENT-09 | 0 | 0.0 | 19.8 | 0.7 | 0 | 0.0 | 19.8 | 0.6 | 0 | 0.0 | 17.6 | 1.9 | 0 | 0.0 | 16.6 | 3.1 | 0 | 0.0 | 15.4 | 4.8 |
| LF6VENT-10 | 0 | 0.0 | 13.2 | 4.1 | 0 | 0.0 | 17.7 | 2.9 | 0 | 0.0 | 13.7 | 4.9 | 0 | 0.0 | 6.2 | 10.1 | 0 | 0.0 | 5.9 | 9.4 |
| LF6VENT-11 | 0 | 0.0 | 16.4 | 3.3 | 0 | 0.0 | 19.0 | 1.0 | 0 | 0.0 | 15.8 | 3.3 | 0 | 0.0 | 14.1 | 5.0 | 0 | 0.0 | 6.3 | 8.0 |
| LF6VENT-12 | 0 | 0.0 | 18.0 | 1.5 | 0 | 0.0 | 18.3 | 2.5 | 0 | 0.0 | 14.5 | 5.3 | 0 | 0.0 | 3.8 | 12.8 | 0 | 0.0 | 14.8 | 5.2 |
| LF6VENT-13 | 0 | 0.0 | 14.9 | 4.3 | 0 | 0.0 | 16.8 | 3.0 | 0 | 0.0 | 12.0 | 6.0 | 0 | 0.0 | 10.9 | 7.9 | 0 | 0.0 | 11.5 | 8.1 |
| LF6VENT-14 | 0 | 0.0 | 15.7 | 3.4 | 0 | 0.0 | 17.2 | 2.8 | 0 | 0.0 | 15.9 | 3.8 | 0 | 0.0 | 14.4 | 4.6 | 0 | 0.0 | 12.3 | 7.8 |
| LF6VENT-15 | 0 | 0.0 | 19.7 | 0.8 | 0 | 0.0 | 5.0 | 13.5 | 0 | 0.0 | 4.6 | 12.2 | 8 | 0.4 | 1.4 | 17.3 | 0 | 0.0 | 5.0 | 12.5 |
| LF6VENT-16 | 0 | 0.0 | 20.9 | 0.2 | 0 | 0.0 | 3.0 | 13.6 | 1 | 0.0 | 15.2 | 4.7 | 0 | 0.0 | 4.0 | 12.3 | 0 | 0.0 | 4.8 | 10.1 |

Notes:
NI = Not Installed.
NS = Not Sampled.
--- = Not Monitored.

**Table 6-1**
**LF009 (Landfill 6 AOC) Landfill Gas Monitoring Results**

| Sample Location | 17-Apr-08 | | | | 16-Jul-08 | | | | 18-Nov-08 | | | | 14-Jan-09 | | | | 28-Apr-09 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Barometric Pressure (in.) = | | | 30.01-30.02 | Barometric Pressure (in.) = | | | NA | Barometric Pressure (in.) = | | | 29.60-29.63 | Barometric Pressure (in.) = | | | 29.17-29.66 | Barometric Pressure (in.) = | | | 29.41-29.47 |
| | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) |
| LF6GMP-01 | 0 | 0.0 | 18.5 | 0.4 | 0 | 0.0 | 19.4 | 0.7 | 0 | 0.0 | 20.1 | 0.4 | 0 | 0.0 | 19.2 | 1.4 | 0 | 0.0 | 20.7 | 0.0 |
| LF6GMP-02 | 0 | 0.0 | 13.5 | 4.2 | 0 | 0.0 | 12.7 | 4.3 | 0 | 0.0 | 21.5 | 0.1 | 0 | 0.0 | 12.5 | 6.4 | 0 | 0.0 | 11.5 | 4.8 |
| LF6GMP-03 | 0 | 0.0 | 16.6 | 1.5 | 0 | 0.0 | 15.5 | 1.8 | 0 | 0.0 | 20.8 | 0.0 | 0 | 0.0 | 16.8 | 2.5 | 0 | 0.0 | 16.0 | 2.0 |
| LF6GMP-04 | 0 | 0.0 | 16.7 | 3.6 | 0 | 0.0 | 19.6 | 4.9 | 0 | 0.0 | 21.0 | 0.0 | 0 | 0.0 | 16.0 | 5.0 | 0 | 0.0 | 21.0 | 0.0 |
| LF6GMP-05 | 0 | 0.0 | 19.3 | 1.4 | 0 | 0.0 | 18.9 | 1.1 | 0 | 0.0 | 21.3 | 0.0 | 0 | 0.0 | 19.3 | 2.2 | 0 | 0.0 | 18.8 | 1.8 |
| LF6GMP-06 | 0 | 0.0 | 19.3 | 1.2 | 0 | 0.0 | 18.6 | 1.3 | 0 | 0.0 | 21.2 | 0.0 | 0 | 0.0 | 19.8 | 1.8 | 0 | 0.0 | 18.9 | 1.5 |
| LF6GMP-07 | 2 | 0.1 | 16.5 | 4.2 | 0 | 0.0 | 16.3 | 4.0 | 0 | 0.0 | 21.2 | 0.1 | 0 | 0.0 | 16.4 | 4.9 | 0 | 0.0 | 16.3 | 4.3 |
| LF6GMP-08 | 0 | 0.0 | 14.1 | 3.8 | 0 | 0.0 | 5.1 | 13.6 | 0 | 0.0 | 21.3 | 0.0 | 0 | 0.0 | 11.4 | 7.2 | 0 | 0.0 | 5.2 | 10.6 |
| LF6GMP-09 | 0 | 0 | 17.7 | 1.8 | 0 | 0 | 15.8 | 4.1 | 0 | 0 | 21.7 | 0.1 | 0 | 0 | 19.4 | 2.3 | 0 | 0 | 17.2 | 2.7 |
| LF6GMP-10 | 0 | 0.0 | 21.0 | 0.1 | 0 | 0.0 | 19.4 | 0.9 | 2 | 0.1 | 21.7 | 0.0 | 0 | 0.0 | 21.4 | 0.4 | 0 | 0.0 | 20.3 | 0.0 |
| LF6GMP-11 | 0 | 0.0 | 19.4 | 1.3 | 0 | 0.0 | 18.3 | 2.1 | 0 | 0.0 | 21.5 | 0.4 | 0 | 0.0 | 20.5 | 1.8 | 0 | 0.0 | 19.0 | 1.7 |
| LF6GMP-12 | 0 | 0.0 | 18.5 | 2.0 | 0 | 0.0 | 18.4 | 2.0 | 0 | 0.0 | 21.6 | 0.1 | 0 | 0.0 | 19.5 | 2.4 | 0 | 0.0 | 17.9 | 2.1 |
| LF6GMP-13 | 0 | 0.0 | 20.4 | 0.8 | 0 | 0.0 | 18.3 | 2.1 | 0 | 0.0 | 21.4 | 0.2 | 0 | 0.0 | 20.3 | 1.8 | 0 | 0.0 | 19.2 | 1.4 |
| LF6GMP-14 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| LF6GMP-15S | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| LF6GMP-15D | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| LF6GMP-16S | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| LF6GMP-16D | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| LF6GMP-17S | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| LF6GMP-17D | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| LF6VENT-01 | 0 | 0.0 | 20.4 | 0.4 | 0 | 0.0 | 16.1 | 0.6 | 0 | 0.0 | 16.9 | 2.0 | 0 | 0.0 | 19.5 | 0.5 | 0 | 0.0 | 20.7 | 0.1 |
| LF6VENT-02 | 0 | 0.0 | 19.9 | 0.2 | 4 | 0.2 | 12.1 | 0.2 | 0 | 0.0 | 19.9 | 0.1 | 0 | 0.0 | 19.2 | 0.2 | 0 | 0.0 | 21.0 | 0.0 |
| LF6VENT-03 | 0 | 0.0 | 19.8 | 0.9 | 0 | 0 | 13.3 | 3 | 0 | 0.0 | 18.8 | 1.1 | 0 | 0.0 | 18.8 | 1.1 | 0 | 0.0 | 21.0 | 0.0 |
| LF6VENT-04 | 6 | 0.3 | 15.2 | 2.3 | 60 | 2.9 | 11.1 | 4.8 | 1 | 0.0 | 17.7 | 1.4 | 0 | 0.0 | 18.8 | 1.5 | 1 | 0.0 | 19.9 | 0.6 |
| LF6VENT-05 | 0 | 0.0 | 19.6 | 1.1 | 0 | 0 | 12.8 | 3.8 | 0 | 0.0 | 20.5 | 0.4 | 0 | 0.0 | 20.5 | 1.0 | 0 | 0.0 | 19.3 | 0.6 |
| LF6VENT-06 | 0 | 0.0 | 20.9 | 0.2 | 0 | 0 | 12 | 0.2 | 1 | 0.0 | 20.7 | 0.3 | 0 | 0.0 | 17.7 | 1.9 | 1 | 0.0 | 15.8 | 1.0 |
| LF6VENT-07 | 0 | 0.0 | 20.8 | 0.5 | 0 | 0 | 20.5 | 0.2 | 0 | 0.0 | 20.9 | 0.2 | 0 | 0.0 | 20.0 | 0.4 | 0 | 0.0 | 21.0 | 0.0 |
| LF6VENT-08 | 0 | 0.0 | 20.7 | 0.5 | 0 | 0 | 19.5 | 0.5 | 2 | 0.1 | 20.1 | 1.1 | 0 | 0.0 | 21.6 | 0.3 | 0 | 0.0 | 19.5 | 0.9 |
| LF6VENT-09 | 0 | 0.0 | 20.2 | 0.7 | 0 | 0 | 20 | 0.5 | 2 | 0.1 | 18.5 | 1.9 | 0 | 0.0 | 20.7 | 0.2 | 0 | 0.0 | 20.9 | 0.1 |
| LF6VENT-10 | 0 | 0.0 | 20.3 | 0.8 | 0 | 0.0 | 18.4 | 1.2 | 0 | 0.0 | 20.0 | 0.6 | 0 | 0.0 | 20.4 | 0.9 | 0 | 0.0 | 20.3 | 0.5 |
| LF6VENT-11 | 0 | 0.0 | 19.7 | 1.0 | 0 | 0.0 | 18.4 | 1.1 | 0 | 0.0 | 20.6 | 0.1 | 0 | 0.0 | 20.9 | 0.2 | 0 | 0.0 | 20.7 | 0.0 |
| LF6VENT-12 | 0 | 0.0 | 20.4 | 0.7 | 0 | 0.0 | 19.3 | 1.1 | 0 | 0.0 | 20.2 | 0.5 | 0 | 0.0 | 20.6 | 1.2 | 0 | 0.0 | 20.8 | 0.0 |
| LF6VENT-13 | 0 | 0.0 | 18.1 | 2.0 | 0 | 0.0 | 15.7 | 2.5 | 0 | 0.0 | 19.9 | 0.5 | 0 | 0.0 | 20.6 | 0.7 | 0 | 0.0 | 20.3 | 0.2 |
| LF6VENT-14 | 2 | 0.1 | 19.1 | 1.6 | 0 | 0.0 | 17.3 | 1.8 | 2 | 0.1 | 20.3 | 0.3 | 0 | 0.0 | 21.4 | 0.4 | 0 | 0.0 | 20.5 | 0.1 |
| LF6VENT-15 | 0 | 0.0 | 17.5 | 2.2 | 0 | 0.0 | 13.7 | 4.4 | 2 | 0.1 | 19.6 | 0.8 | 0 | 0.0 | 21.3 | 0.3 | 0 | 0.0 | 18.8 | 1.7 |
| LF6VENT-16 | 0 | 0.0 | 16.5 | 2.8 | 0 | 0.0 | 10.4 | 5.8 | 0 | 0.0 | 17.2 | 2.0 | 0 | 0.0 | 20.9 | 0.4 | 0 | 0.0 | 17.9 | 3.4 |

Notes:

NI = Not Installed.

NS = Not Sampled.

--- = Not Monitored.

**Table 6-1**
**LF009 (Landfill 6 AOC) Landfill Gas Monitoring Results**

| Sample Location | 13-Jul-09 | | | | 22-Oct-09 | | | | 2-Feb-10 | | | | 7-May-10 | | | | 26-Oct-10 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Barometric Pressure (in.) = | | | 29.28-29.31 | Barometric Pressure (in.) = | | | 29.28-29.36 | Barometric Pressure (in.) = | | | NS | Barometric Pressure (in.) = | | | 29.18-29.38 | Barometric Pressure (in.) = | | | 29.19-29.20 |
| | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) |
| LF6GMP-01 | 0 | 0.0 | 19.6 | 0.1 | 0 | 0.0 | 12.3 | 4.0 | NS | NS | NS | NS | 0 | 0.0 | 20.6 | 0.1 | 0 | 0.0 | 19.4 | 0.5 |
| LF6GMP-02 | 2 | 0.1 | 10.5 | 6.0 | 0 | 0.0 | 10.6 | 7.2 | NS | NS | NS | NS | 0 | 0.0 | 20.9 | 0.1 | 0 | 0.0 | 11.8 | 6.6 |
| LF6GMP-03 | 2 | 0.1 | 16.7 | 2.5 | 0 | 0.0 | 14.3 | 2.9 | NS | NS | NS | NS | 0 | 0.0 | 20.9 | 0.0 | 0 | 0.0 | 15.6 | 2.7 |
| LF6GMP-04 | 2 | 0.1 | 19.4 | 1.6 | 0 | 0.0 | 12.6 | 6.9 | NS | NS | NS | NS | 0 | 0.0 | 20.9 | 0.0 | 0 | 0.0 | 19.4 | 1.0 |
| LF6GMP-05 | 2 | 0.1 | 19.5 | 1.4 | 0 | 0.0 | 17.4 | 2.4 | NS | NS | NS | NS | 0 | 0.0 | 20.9 | 0.0 | 0 | 0.0 | 20.6 | 0.2 |
| LF6GMP-06 | 2 | 0.1 | 19.6 | 1.2 | 0 | 0.0 | 17.6 | 2.4 | NS | NS | NS | NS | 0 | 0.0 | 19.7 | 0.9 | 0 | 0.0 | 20.4 | 0.4 |
| LF6GMP-07 | 0 | 0.0 | 20.5 | 0.0 | 0 | 0.0 | 15.3 | 5.3 | NS | NS | NS | NS | 0 | 0.0 | 17.6 | 3.4 | 0 | 0.0 | 16.3 | 4.6 |
| LF6GMP-08 | 0 | 0.0 | 20.2 | 0.3 | 0 | 0.0 | 4.2 | 14.2 | NS | NS | NS | NS | 0 | 0.0 | 10.2 | 9.2 | 0 | 0.0 | 5.4 | 13.8 |
| LF6GMP-09 | 2 | 0.1 | 18.6 | 2.4 | 0 | 0.0 | 13.2 | 6.8 | NS | NS | NS | NS | 0 | 0.0 | 17.4 | 3.1 | 0 | 0.0 | 14.2 | 5.9 |
| LF6GMP-10 | 2 | 0.1 | 19.7 | 1.1 | 0 | 0.0 | 19.5 | 1.3 | NS | NS | NS | NS | 0 | 0.0 | 19.8 | 1.0 | 0 | 0.0 | 19.7 | 1.0 |
| LF6GMP-11 | 2 | 0.1 | 19.5 | 1.3 | 0 | 0.0 | 17.8 | 2.9 | NS | NS | NS | NS | 0 | 0.0 | 19.9 | 1.1 | 0 | 0.0 | 18.0 | 2.7 |
| LF6GMP-12 | 2 | 0.1 | 18.8 | 2.3 | 0 | 0.0 | 17.1 | 3.2 | NS | NS | NS | NS | 0 | 0.0 | 20.3 | 0.6 | 0 | 0.0 | 18.8 | 1.9 |
| LF6GMP-13 | 0 | 0.0 | 19.6 | 0.7 | 0 | 0.0 | 16.8 | 3.5 | NS | NS | NS | NS | 0 | 0.0 | 20.2 | 0.7 | 0 | 0.0 | 18.9 | 1.5 |
| LF6GMP-14 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| LF6GMP-15S | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| LF6GMP-15D | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| LF6GMP-16S | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| LF6GMP-16D | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| LF6GMP-17S | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| LF6GMP-17D | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| LF6VENT-01 | 0 | 0.0 | 14.3 | 2.1 | 5 | 0.2 | 8.1 | 1.6 | NS | NS | NS | NS | 0 | 0.0 | 19.7 | 0.7 | 0 | 0.0 | 20.7 | 0.1 |
| LF6VENT-02 | 38 | 1.9 | 4.0 | 0.6 | 94 | 4.7 | 0.0 | 0.4 | NS | NS | NS | NS | 0 | 0.0 | 20.4 | 0.1 | 0 | 0.0 | 20.6 | 0.0 |
| LF6VENT-03 | 7 | 0.3 | 8.0 | 6.4 | >100 | 5.3 | 0.9 | 11.3 | NS | NS | NS | NS | 0 | 0.0 | 20.2 | 0.5 | 0 | 0.0 | 20.6 | 0.1 |
| LF6VENT-04 | >100 | 7.2 | 6.5 | 5.6 | >100 | 14.7 | 0.2 | 6.4 | NS | NS | NS | NS | 0 | 0.0 | 18.5 | 1.6 | 0 | 0.0 | 20.7 | 0.0 |
| LF6VENT-05 | 2 | 0.1 | 15.6 | 3.3 | 4 | 0.2 | 2.5 | 10.9 | NS | NS | NS | NS | 0 | 0.0 | 20.1 | 0.8 | 0 | 0.0 | 20.2 | 0.2 |
| LF6VENT-06 | 9 | 0.4 | 10.0 | 0.6 | 39 | 1.9 | 1.1 | 0.7 | NS | NS | NS | NS | 0 | 0.0 | 20.2 | 0.4 | 0 | 0.0 | 20.7 | 0.0 |
| LF6VENT-07 | 2 | 0.1 | 14.2 | 4.4 | 0 | 0.0 | 10.2 | 7.4 | NS | NS | NS | NS | 0 | 0.0 | 19.4 | 0.8 | 0 | 0.0 | 20.2 | 0.0 |
| LF6VENT-08 | 2 | 0.1 | 16.5 | 3.2 | 0 | 0.0 | 9.8 | 5.7 | NS | NS | NS | NS | 0 | 0.0 | 19.8 | 0.6 | 0 | 0.0 | 20.3 | 0.0 |
| LF6VENT-09 | 1 | 0.1 | 19.4 | 1.3 | 0 | 0.0 | 15.8 | 3.4 | NS | NS | NS | NS | 0 | 0.0 | 19.5 | 0.7 | 0 | 0.0 | 20.4 | 0.0 |
| LF6VENT-10 | 2 | 0.1 | 16.0 | 3.4 | 0 | 0.0 | 4.9 | 9.6 | NS | NS | NS | NS | 0 | 0.0 | 19.6 | 0.9 | 0 | 0.0 | 20.4 | 0.1 |
| LF6VENT-11 | 2 | 0.1 | 18.2 | 2.4 | 0 | 0.0 | 15.4 | 4.3 | NS | NS | NS | NS | 0 | 0.0 | 19.5 | 0.9 | 0 | 0.0 | 20.6 | 0.0 |
| LF6VENT-12 | 2 | 4.1 | 17.2 | 3.2 | 0 | 0.0 | 8.0 | 7.8 | NS | NS | NS | NS | 0 | 0.0 | 20.1 | 0.7 | 0 | 0.0 | 20.5 | 0.0 |
| LF6VENT-13 | 2 | 0.1 | 15.2 | 4.4 | 0 | 0.0 | 11.6 | 7.5 | NS | NS | NS | NS | 0 | 0.0 | 17.3 | 2.0 | 0 | 0.0 | 20.6 | 0.0 |
| LF6VENT-14 | 2 | 0.1 | 16.9 | 3.5 | 0 | 0.0 | 14.8 | 4.1 | NS | NS | NS | NS | 0 | 0.0 | 19.2 | 1.4 | 0 | 0.0 | 20.6 | 0.0 |
| LF6VENT-15 | 2 | 0.1 | 7.5 | 9.7 | 0 | 0.0 | 4.4 | 13.0 | NS | NS | NS | NS | 0 | 0.0 | 18.7 | 1.5 | 0 | 0.0 | 20.6 | 0.0 |
| LF6VENT-16 | 2 | 0.1 | 13.4 | 5.7 | 0 | 0.0 | 11.2 | 5.9 | NS | NS | NS | NS | 0 | 0.0 | 15.7 | 4.1 | 0 | 0.0 | 20.7 | 0.0 |

Notes:

NI = Not Installed.

NS = Not Sampled.

--- = Not Monitored.

**Table 6-1**
**LF009 (Landfill 6 AOC) Landfill Gas Monitoring Results**

| Sample Location | 16-May-11 | | | | 19-Oct-11 | | | | 10-May-12 | | | | 5-Oct-12 | | | | 2-May-13 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Barometric Pressure (in.) = | | | 29.14-29.19 | Barometric Pressure (in.) = | | | 29.11-29.14 | Barometric Pressure (in.) = | | | 28.99-29.32 | Barometric Pressure (in.) = | | | 29.44 | Barometric Pressure (in.) = | | | 29.73-29.85 |
| | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) |
| LF6GMP-01 | 0 | 0.0 | 19.4 | 0.3 | 0 | 0.0 | 12.0 | 7.0 | 0 | 0.0 | 19.3 | 0.8 | 0 | 0.0 | 11.0 | 2.4 | 0 | 0.0 | 20.6 | 0.0 |
| LF6GMP-02 | 0 | 0.0 | 20.9 | 0.1 | 0 | 0.0 | 19.7 | 0.8 | 0 | 0.0 | 22.8 | 0.1 | 0 | 0.0 | 12.4 | 6.7 | 0 | 0.0 | 20.3 | 0.0 |
| LF6GMP-03 | 0 | 0.0 | 20.6 | 0.1 | 0 | 0.0 | 16.1 | 3.0 | 0 | 0.0 | 22.2 | 0.1 | 0 | 0.0 | 16.3 | 2.7 | 0 | 0.0 | 20.6 | 0.0 |
| LF6GMP-04 | 0 | 0.0 | 20.8 | 0.0 | 0 | 0.0 | 14.8 | 5.7 | 0 | 0.0 | 22.4 | 0.1 | 0 | 0.0 | 15.3 | 5.4 | 0 | 0.0 | 20.6 | 0.0 |
| LF6GMP-05 | 0 | 0.0 | 20.8 | 0.0 | 0 | 0.0 | 18.8 | 2.7 | 0 | 0.0 | 22.7 | 0.1 | 0 | 0.0 | 18.8 | 2.0 | 0 | 0.0 | 20.6 | 0.0 |
| LF6GMP-06 | 0 | 0.0 | 20.8 | 0.1 | 0 | 0.0 | 19.0 | 2.6 | 0 | 0.0 | 22.8 | 0.2 | 0 | 0.0 | 18.6 | 2.4 | 0 | 0.0 | 20.5 | 0.1 |
| LF6GMP-07 | 0 | 0.0 | 20.8 | 0.0 | 0 | 0.0 | 16.6 | 5.2 | 0 | 0.0 | 23.0 | 0.1 | 0 | 0.0 | 17.0 | 4.2 | 0 | 0.0 | 20.0 | 0.5 |
| LF6GMP-08 | 0 | 0.0 | 12.7 | 5.5 | 0 | 0.0 | 4.6 | 14.7 | 0 | 0.0 | 23.0 | 0.1 | 0 | 0.0 | 11.4 | 8.5 | 0 | 0.0 | 12.2 | 5.8 |
| LF6GMP-09 | 0 | 0.0 | 14.6 | 5.2 | 0 | 0.0 | 14.1 | 6.2 | 0 | 0.0 | 20.2 | 1.8 | 0 | 0.0 | 15.3 | 5.2 | 0 | 0.0 | 18 | 1.7 |
| LF6GMP-10 | 0 | 0.0 | 20.8 | 0.0 | 0 | 0.0 | 20.5 | 1.4 | 0 | 0.0 | 22.9 | 0.1 | 0 | 0.0 | 19.5 | 1.2 | 0 | 0.0 | 20.3 | 0.0 |
| LF6GMP-11 | 0 | 0.0 | 18.9 | 2.1 | 0 | 0.0 | 18.5 | 3.0 | 0 | 0.0 | 23.0 | 0.1 | 0 | 0.0 | 18.5 | 2.5 | 0 | 0.0 | 20.0 | 0.7 |
| LF6GMP-12 | 0 | 0.0 | 18.2 | 2.1 | 0 | 0.0 | 18.4 | 3.4 | 0 | 0.0 | 22.8 | 0.2 | 0 | 0.0 | 18.3 | 2.6 | 0 | 0.0 | 18.6 | 1.3 |
| LF6GMP-13 | 0 | 0.0 | 18.5 | 2.5 | 0 | 0.0 | 18.3 | 3.4 | 0 | 0.0 | 22.2 | 0.7 | 0 | 0.0 | 17.8 | 3.0 | 0 | 0.0 | 19.0 | 1.3 |
| LF6GMP-14 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| LF6GMP-15S | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| LF6GMP-15D | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| LF6GMP-16S | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| LF6GMP-16D | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| LF6GMP-17S | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| LF6GMP-17D | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| LF6VENT-01 | 0 | 0.0 | 20.3 | 0.6 | 0 | 0.0 | 14.0 | 2.2 | 0 | 0.0 | 21.9 | 0.2 | 0 | 0.0 | 11.0 | 2.4 | 0 | 0.0 | 20.1 | 0.3 |
| LF6VENT-02 | 0 | 0.0 | 20.7 | 0.0 | 24 | 1.2 | 6.2 | 0.4 | 0 | 0.0 | 21.4 | 0.7 | 35 | 1.7 | 4.1 | 0.6 | 0 | 0.0 | 19.6 | 0.0 |
| LF6VENT-03 | 0 | 0.0 | 20.7 | 0.2 | 14 | 0.7 | 4.7 | 8.1 | 0 | 0.0 | 20.5 | 1.0 | 16 | 0.8 | 4.4 | 9.2 | 5 | 0.2 | 17.8 | 1.1 |
| LF6VENT-04 | 0 | 0.0 | 20.8 | 0.1 | >100 | 10.7 | 0.3 | 6.0 | 0 | 0.0 | 19.4 | 1.6 | >100 | 8.1 | 0.7 | 7.4 | 0 | 0.0 | 19.6 | 0.7 |
| LF6VENT-05 | 0 | 0.0 | 20.9 | 0.0 | 0 | 0.0 | 9.9 | 6.8 | 0 | 0.0 | 21.6 | 0.6 | 0 | 0.0 | 8.1 | 8.7 | 0 | 0.0 | 19.9 | 0.6 |
| LF6VENT-06 | 0 | 0.0 | 20.8 | 0.0 | 2 | 0.0 | 8.9 | 1.3 | 0 | 0.0 | 22.4 | 0.0 | 0 | 0.0 | 8.5 | 0.8 | 0 | 0.0 | 20.0 | 0.2 |
| LF6VENT-07 | 0 | 0.0 | 20.4 | 0.0 | 0 | 0.0 | 14.5 | 5.9 | 0 | 0.0 | 20.6 | 0.7 | 0 | 0.0 | 13.6 | 5.3 | 0 | 0.0 | 20.5 | 0.5 |
| LF6VENT-08 | 0 | 0.0 | 20.4 | 0.0 | 0 | 0.0 | 16.2 | 4.5 | 0 | 0.0 | 19.7 | 1.8 | 0 | 0.0 | 15.5 | 3.7 | 0 | 0.0 | 20.7 | 0.4 |
| LF6VENT-09 | 0 | 0.0 | 19.9 | 0.6 | 0 | 0.0 | 17.7 | 2.9 | 0 | 0.0 | 21.5 | 0.9 | 0 | 0.0 | 16.7 | 3.0 | 0 | 0.0 | 20.4 | 0.4 |
| LF6VENT-10 | 0 | 0.0 | 20.5 | 0.0 | 0 | 0.0 | 14.6 | 5.2 | 0 | 0.0 | 21.1 | 0.8 | 0 | 0.0 | 11.0 | 6.4 | 0 | 0.0 | 20.3 | 0.6 |
| LF6VENT-11 | 0 | 0.0 | 20.7 | 0.0 | 0 | 0.0 | 16.7 | 3.7 | 0 | 0.0 | 22.5 | 0.1 | 0 | 0.0 | 16.0 | 3.8 | 0 | 0.0 | 20.5 | 0.5 |
| LF6VENT-12 | 0 | 0.0 | 20.3 | 0.5 | 0 | 0.0 | 14.6 | 5.2 | 0 | 0.0 | 22.2 | 0.2 | 0 | 0.0 | 11.6 | 5.7 | 0 | 0.0 | 19.0 | 1.3 |
| LF6VENT-13 | 0 | 0.0 | 20.4 | 0.3 | 0 | 0.0 | 13.8 | 6.4 | 0 | 0.0 | 20.3 | 1.5 | 0 | 0.0 | 12.1 | 7.1 | 0 | 0.0 | 20.4 | 0.6 |
| LF6VENT-14 | 0 | 0.0 | 20.5 | 0.4 | 0 | 0.0 | 16.3 | 4.0 | 0 | 0.0 | 22.2 | 0.1 | 0 | 0.0 | 16.4 | 3.3 | 0 | 0.0 | 20.2 | 0.5 |
| LF6VENT-15 | 0 | 0.0 | 18.3 | 2.8 | 0 | 0.0 | 10.7 | 7.0 | 0 | 0.0 | 21.9 | 0.4 | 0 | 0.0 | 5.8 | 9.7 | 0 | 0.0 | 19.4 | 1.1 |
| LF6VENT-16 | 0 | 0.0 | 13.4 | 5.7 | 0 | 0.0 | 10.0 | 7.7 | 0 | 0.0 | 16.4 | 3.0 | 0 | 0.0 | 8.3 | 7.3 | 0 | 0.0 | 18.2 | 1.9 |

Notes:

NI = Not Installed.

NS = Not Sampled.

--- = Not Monitored.

**Table 6-1**
**LF009 (Landfill 6 AOC) Landfill Gas Monitoring Results**

| Sample Location | 15-Oct-13 | | | | 8-May-14 | | | | 19-Nov-14 | | | | 5-May-15 | | | | 9-Sep-15 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Barometric Pressure (in.) = | | | 29.47-29.58 | Barometric Pressure (in.) = | | | 29.48-29.57 | Barometric Pressure (in.) = | | | 29.52-29.60 | Barometric Pressure (in.) = | | | 29.67-29.75 | Barometric Pressure (in.) = | | | 29.32-29.48 |
| | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) | LEL (%) | Methane (%) | Oxygen (%) | Carbon Dioxide (%) |
| LF6GMP-01 | 0 | 0.0 | 14.4 | 4.4 | 0 | 0.0 | 19.5 | 0.2 | 0 | 0.0 | 19.5 | 2.0 | 0 | 0.0 | 19.9 | 0.7 | 0 | 0.0 | 18.9 | 1.5 |
| LF6GMP-02 | 0 | 0.0 | 11.6 | 7.1 | 0 | 0.0 | 13.0 | 4.3 | 0 | 0.0 | 15.7 | 4.8 | 0 | 0.0 | 15.8 | 3.7 | 0 | 0.0 | 20.6 | 0.1 |
| LF6GMP-03 | 0 | 0.0 | 16.5 | 2.7 | 0 | 0.0 | 17.2 | 1.6 | 0 | 0.0 | 18.1 | 1.7 | 0 | 0.0 | 20.9 | 0.2 | 0 | 0.0 | 20.7 | 0.0 |
| LF6GMP-04 | 0 | 0.0 | 15.6 | 5.4 | 0 | 0.0 | 17.1 | 2.8 | 0 | 0.0 | 17.8 | 3.3 | 0 | 0.0 | 18.4 | 2.9 | 0 | 0.0 | 20.7 | 0.0 |
| LF6GMP-05 | 0 | 0.0 | 19.0 | 2.0 | 0 | 0.0 | 19.5 | 8.0 | 0 | 0.0 | 16.2 | 3.7 | 0 | 0.0 | 20.5 | 0.9 | 0 | 0.0 | 20.6 | 0.0 |
| LF6GMP-06 | 0 | 0.0 | 18.7 | 2.5 | 0 | 0.0 | 19.0 | 12.0 | 0 | 0.0 | 18.5 | 2.9 | 0 | 0.0 | 20.3 | 1.4 | 0 | 0.0 | 20.5 | 0.1 |
| LF6GMP-07 | 0 | 0.0 | 17.1 | 4.6 | 0 | 0.0 | 20.3 | 0.1 | 0 | 0.0 | 19.1 | 2.1 | 0 | 0.0 | 20.2 | 1.3 | 0 | 0.0 | 20.5 | 0.1 |
| LF6GMP-08 | 0 | 0.0 | 7.3 | 12.7 | 0 | 0.0 | 20.0 | 0.2 | 0 | 0.0 | 11.0 | 9.5 | 0 | 0.0 | 14.0 | 5.8 | 0 | 0.0 | 20.1 | 0.8 |
| LF6GMP-09 | 0 | 0.0 | 16.5 | 4.6 | 0 | 0.0 | 17.8 | 1.9 | 0 | 0.0 | 18.2 | 3.7 | 0 | 0.0 | 20.1 | 1.4 | 0 | 0.0 | 20 | 0.9 |
| LF6GMP-10 | 0 | 0.0 | 19.4 | 2.2 | 0 | 0.0 | 20.5 | 0.0 | 0 | 0.0 | 16.1 | 3.8 | 0 | 0.0 | 21.4 | 0.0 | 0 | 0.0 | 20.3 | 0.4 |
| LF6GMP-11 | 0 | 0.0 | 19.2 | 2.2 | 0 | 0.0 | 19.7 | 0.9 | 0 | 0.0 | 14.5 | 4.0 | 0 | 0.0 | 20.9 | 1.2 | 0 | 0.0 | 20.7 | 0.1 |
| LF6GMP-12 | 0 | 0.0 | 18.3 | 2.9 | 0 | 0.0 | 18.3 | 1.7 | 0 | 0.0 | 19.4 | 2.1 | 0 | 0.0 | 19.8 | 1.8 | 0 | 0.0 | 20.7 | 0.1 |
| LF6GMP-13 | 0 | 0.0 | 18.5 | 2.9 | 0 | 0.0 | 19.0 | 1.3 | 0 | 0.0 | 20.0 | 1.8 | 0 | 0.0 | 20.5 | 1.5 | 0 | 0.0 | 20.1 | 0.4 |
| LF6GMP-14 | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI | NI |
| LF6GMP-15S | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| LF6GMP-15D | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| LF6GMP-16S | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| LF6GMP-16D | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| LF6GMP-17S | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| LF6GMP-17D | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| LF6VENT-01 | 0 | 0.0 | 12.3 | 2.5 | 0 | 0.0 | 17.4 | 1.1 | 0 | 0.0 | 19.1 | 1.5 | 0 | 0.1 | 19.8 | 1.1 | 1 | 0.0 | 20.9 | 0.0 |
| LF6VENT-02 | 58 | 2.9 | 4.5 | 0.4 | 0 | 0.0 | 12.3 | 0.0 | 0 | 0.0 | 19.8 | 0.2 | 0 | 0 | 20.9 | 0.0 | 0 | 0.0 | 20.8 | 0.0 |
| LF6VENT-03 | 58 | 2.9 | 5.4 | 9.2 | 0 | 0.0 | 13.8 | 3.1 | 0 | 0.0 | 19.9 | 0.6 | 0 | 0.1 | 20.5 | 0.9 | 0 | 0.0 | 20.7 | 0.0 |
| LF6VENT-04 | >100 | 10.5 | 4.8 | 4.5 | 80 | 4.0 | 5.3 | 3.3 | 0 | 0.0 | 19.9 | 0.5 | 2 | 0 | 20.3 | 0.5 | 0 | 0.0 | 20.8 | 0.0 |
| LF6VENT-05 | 0 | 0.0 | 10.1 | 6.8 | 0 | 0.0 | 13.9 | 3.1 | 0 | 0.0 | 20.0 | 0.5 | 0 | 0 | 19.7 | 1.7 | 1 | 0.0 | 20.8 | 0.0 |
| LF6VENT-06 | 17 | 0.9 | 5.2 | 1.1 | 0 | 0.0 | 12.4 | 0.7 | 0 | 0.0 | 20.6 | 0.2 | 2 | 0.2 | 20.8 | 0.0 | 0 | 0.2 | 20.8 | 0.0 |
| LF6VENT-07 | 0 | 0.0 | 13.4 | 5.8 | 0 | 0.0 | 17.7 | 2.1 | 0 | 0.0 | 20.6 | 0.3 | 2 | 0.1 | 20.7 | 0.9 | 1 | 0.0 | 20.8 | 0.0 |
| LF6VENT-08 | 0 | 0.0 | 12.4 | 6.1 | 0 | 0.0 | 15.8 | 2.9 | 0 | 0.0 | 20.7 | 0.3 | 2 | 0.1 | 20.9 | 0.6 | 1 | 0.0 | 20.7 | 0.0 |
| LF6VENT-09 | 0 | 0.0 | 17.2 | 3.0 | 0 | 0.0 | 18.8 | 1.3 | 0 | 0.0 | 20.6 | 0.3 | 0 | 0 | 20.9 | 0.3 | 1 | 0.0 | 19.9 | 0.7 |
| LF6VENT-10 | 0 | 0.0 | 9.2 | 8.5 | 0 | 0.0 | 16.6 | 2.6 | 0 | 0.0 | 20.5 | 0.2 | 1 | 0.1 | 20.6 | 0.7 | 1 | 0.0 | 12.8 | 5.9 |
| LF6VENT-11 | 0 | 0.0 | 17.3 | 3.3 | 0 | 0.0 | 19.1 | 1.3 | 0 | 0.0 | 20.7 | 0.2 | 1 | 0.1 | 20.6 | 0.5 | 1 | 0.0 | 18.2 | 2.2 |
| LF6VENT-12 | 0 | 0.0 | 8.4 | 9.4 | 0 | 0.0 | 15.7 | 2.7 | 0 | 0.0 | 20.2 | 0.2 | 0 | 0 | 20.5 | 1.0 | 0 | 0.0 | 12.3 | 7.4 |
| LF6VENT-13 | 0 | 0.0 | 13.8 | 6.7 | 0 | 0.0 | 16.6 | 3.6 | 0 | 0.0 | 19.8 | 0.5 | 0 | 0 | 18.9 | 2.3 | 0 | 0.0 | 13.7 | 6.2 |
| LF6VENT-14 | 0 | 0.0 | 16.6 | 3.5 | 0 | 0.0 | 18.8 | 1.6 | 0 | 0.0 | 19.5 | 0.2 | 1 | 0.1 | 20.4 | 1.2 | 0 | 0.0 | 17.4 | 2.4 |
| LF6VENT-15 | 0 | 0.0 | 18.6 | 2.5 | 0 | 0.0 | 15.3 | 4.2 | 0 | 0.0 | 19.6 | 0.2 | 0 | 0 | 19.0 | 3.2 | 2 | 0.1 | 3.8 | 17.4 |
| LF6VENT-16 | 0 | 0.0 | 12.5 | 6.6 | 0 | 0.0 | 14.9 | 4.8 | 0 | 0.0 | 19.4 | 0.5 | 0 | 0 | 18.1 | 3.7 | 2 | 0.1 | 5.7 | 12.6 |

Notes:
NI = Not Installed.
NS = Not Sampled.
--- = Not Monitored.

**Table 6-2**
**LF009 (Landfill 6 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | 775VMW-10 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 6/28/2006 | 9/15/2006 | 12/11/2006 | 4/11/2007 | 6/19/2007 | 9/27/2007 | 12/10/2007 | 4/3/2008 | 6/12/2008 | 9/30/2008 | 12/9/2008 | 4/15/2009 | 6/29/2009 |
| Sample ID No. | | | 775VM1095AA | 775VM1095BB | 775VM1095CA | 775VM1095DA | 775VM1095EA | 775VM1095FA | 775VM1095GA | 775VM1095HA | 775VM1095IA | 775VM1095JA | 775VM1095KA | 775VM1095LA | 775VM1095MA |
| Depth to Water (ft) | | | 60.25 | 60.18 | 59.27 | 58.15 | 57.97 | 59.37 | 59.63 | 58.43 | 58.32 | 49.46 | 59.53 | 59.07 | 59.13 |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 5* | 1 | 1.1 | 1 | 0.820 F | 0.720 F | 0.700 F | 0.510 F | 0.750 F | U | U | 0.540 F | 0.540 F | 0.400 F | 0.340 F |
| 1,1-dichloroethene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,2-dichloroethane | 0.6 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,4-dichlorobenzene | 3 | 0.5 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| acetone | 50 | 10 | 1.4 F | U | U | U | U | U | U | U | U | U | U | U | U |
| benzene | 1 | 0.1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| carbon disulfide | 1,000 | 0.5 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| chloroform | 7 | 0.3 | U | U | 0.140 F | U | U | U | U | U | U | U | 0.150 F | U | U |
| chloromethane | 5* | 1 | U | U | UJ | U | U | U | U | U | U | U | U | U | U |
| cis-1,2-dichloroethene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| dichlorodifluoromethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| hexachlorobutadiene | 0.5* | 0.6 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| methylene chloride | 5* | 1 | U | U | U | U | 0.475 F | U | 0.130 F | U | 1.00 F | U | U | U | U |
| trichloroethene (TCE) | 5* | 1 | **96** | **83.6** | **84.3 F** | **68.2** | **68.4** | **58.8** | **65.6** | **60.4** | **59.0** | **46.9** | **43.4** | **43.5** | **34.6** |
| toluene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| trans-1,2-dichloroethene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| trichlorofluoromethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| vinyl chloride | 2 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| xylenes, Total | -- | 1.5 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| **Total VOCs (µg/L)** | | | **98.5** | **84.6** | **85.26** | **68.92** | **69.45** | **59.31** | **66.48** | **60.4** | **60.0** | **47.44** | **44.09** | **43.90** | **34.94** |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 148 B | 120 | 120 | 110 | 110 | 100 | 100 | 98 | 100 | 94 | 110 | 100 | 98 |
| ammonia | 2 | 0.2 | U | U | U | U | 0.023 F | U | 0.024 F | U | 0.11 B | U | U | U | U |
| BOD5 | -- | 2.4 | U | U | UJ | U | U | U | U | U | U | U | U | U | U |
| bromide | 2 | 0.5 | U | 0.011 F | U | U | U | U | 0.044 F | U | 0.045 F | 0.043 F | UJ | 0.046 F | U |
| COD | -- | 5 | U | U | U | 13 | 15 B | U | 4.1 F | 4.1 F | U | U | 15 | 3.7 F | U |
| chloride | 250 | 1 | 35.3 B | 44 | 34 | 52 | 86 | 110 | 120 | 120 | 150 | 150 | 120 | 100 | 90 J |
| color | 15 | 5 | **50** | NA | NA | NA | U | NA | NA | NA | U | NA | NA | U | NA |
| cyanide, Total | 200 | 0.02 | U | NA | NA | NA | U | NA | NA | U | 0.0063 F | NA | NA | NA | NA |
| Fluoride | 1.5 | 1 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| hardness, Total | -- | 1 | 260 | 210 | 150 | 190 | 240 | 220 | 260 | 260 | 300 | 270 | 290 | 220 | 210 |
| nitrate | 10 | 1 | 4.7 | 3.3 | 3.0 | 2.7 | 2.5 | 2.6 | 2.6 | 2.4 | 2.0 | 1.7 | 1.6 | 1.3 | 1.1 |
| TKN | 1 | 0.2 | U | U | U | 0.14 F | 0.063 F | 0.22 | 0.058 F | 0.058 F | U | U | 0.11 F | U | 0.36 |
| sulfate | 250 | 1 | 7 B | 6.3 | 6.4 | 5.6 | 6.2 | 9.9 | 11 | 9.5 | 12 | 14 | 13 | 10 | 8.9 |
| TDS | 500 | 10 | 254 | 260 | 250 | 260 | 390 | **510** | 340 | 480 | **710** | 490 | 400 | 330 | 320 |
| TOC | -- | 1 | 1 | 0.46 F | 0.54 F | U | U | 0.79 F | 0.95 F | 0.51 F | U | U | 0.67 F | U | U |

For notes, please refer to the end of the tables section.

**Table 6-2**
**LF009 (Landfill 6 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | 775VMW-10 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Date of Collection** | | | **9/14/2009** | **3/22/2010** | **9/23/2010** | **6/8/2011** | **6/19/2012** | **6/17/2013** | **6/4/2014** | **6/2/2015** | | | | | |
| **Sample ID No.** | | | **775VM1095NA** | **775VM1095OA** | **775VM1095PA** | **775VM1095PA** | **775VM1095QA** | **775VM1095RA** | **775VM1095RA** | **775VM1095SA** | | | | | |
| **Depth to Water (ft)** | | | **60.05** | **60.57** | **61.55** | **59.20** | **59.80** | **60.50** | **59.28** | **59.79** | | | | | |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 5* | 1 | 0.380 F | 0.410 F | 0.460 F | 0.50 F | 0.36 J | 0.47 J | 0.54 J | 0.51 J | | | | | |
| 1,1-dichloroethene | 5* | 1 | U | U | U | U | U | U | U | U | | | | | |
| 1,2-dichloroethane | 0.6 | 1 | U | U | U | U | U | U | U | U | | | | | |
| 1,4-dichlorobenzene | 3 | 0.5 | U | U | U | U | U | U | U | U | | | | | |
| acetone | 50 | 10 | U | U | 2.54 FB | U | U | U | U | U | | | | | |
| benzene | 1 | 0.1 | U | U | U | U | U | U | U | U | | | | | |
| carbon disulfide | 1,000 | 0.5 | U | U | U | U | U | U | U | U | | | | | |
| chloroform | 7 | 0.3 | U | U | U | 0.17 F | U | 0.35 J | 0.37 J | 0.45 J | | | | | |
| chloromethane | 5* | 1 | U | U | U | U | U | U | U | U | | | | | |
| cis-1,2-dichloroethene | 5* | 1 | U | U | U | U | U | U | U | U | | | | | |
| dichlorodifluoromethane | 5* | 1 | U | U | U | U | U | U | U | U | | | | | |
| hexachlorobutadiene | 0.5* | 0.6 | U | U | U | U | U | U | U | U | | | | | |
| methylene chloride | 5* | 1 | U | U | U | U | 0.33 J | U | U | U | | | | | |
| trichloroethene (TCE) | 5* | 1 | **43.2** | **41.2** | **43.3** | **45.0** | **42.0** | **37** | **36.0** | **33.0** | | | | | |
| toluene | 5* | 1 | U | U | U | U | U | U | U | U | | | | | |
| trans-1,2-dichloroethene | 5* | 1 | U | U | U | U | U | U | U | U | | | | | |
| trichlorofluoromethane | 5* | 1 | U | U | U | U | U | U | U | U | | | | | |
| vinyl chloride | 2 | 1 | U | U | U | U | U | U | U | U | | | | | |
| xylenes, Total | -- | 1.5 | U | U | U | U | U | U | U | U | | | | | |
| **Total VOCs (µg/L)** | | | **43.58** | **41.61** | **46.3** | **45.67** | **42.69** | **37.82** | **36.91** | **33.96** | | | | | |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 100 | 130 | 120 | 310 | 160 | 140 | 160 | 140 | | | | | |
| ammonia | 2 | 0.2 | U | U | U | 0.18 | 0.062 JB | U | U | U | | | | | |
| BOD5 | -- | 2.4 | U | U | U | U | U | U | U | U | | | | | |
| bromide | 2 | 0.5 | 0.035 F | U | U | U | U | U | U | U | | | | | |
| COD | -- | 5 | U | U | U | U | U | U | 6.7 J | U | | | | | |
| chloride | 250 | 1 | 100 | 61 | 73 | 200 | 150 | 130 | 100 | 82 | | | | | |
| color | 15 | 5 | NA | U | NA | U | U | U | **50** | U | | | | | |
| cyanide, Total | 200 | 0.02 | NA | 0.0088 F | U | U | U | U | U | U | | | | | |
| Fluoride | 1.5 | 1 | NA | NA | NA | NA | NA | U | 0.095 J | U | | | | | |
| hardness, Total | -- | 1 | 210 | 180 | 190 | 310 | 190 | 180 | 200 | 200 | | | | | |
| nitrate | 10 | 1 | 1.1 | 1.0 B | 1.1 | 1.7 | 1.5 | 1.1 | 0.98 | 0.8 | | | | | |
| TKN | 1 | 0.2 | U | 0.24 B | 0.21 B | 0.34 F | 0.67 JB | 0.43 J | U | U | | | | | |
| sulfate | 250 | 1 | 9.4 | 9.2 B | 9.0 | 24 | 22 | 19 | 17 | 15 | | | | | |
| TDS | 500 | 10 | 380 | 220 | 270 | **600** | 430 | 390 | 350 | 310 | | | | | |
| TOC | -- | 1 | 0.52 F | U | 0.82 F | 0.82 F | 0.81 J | 1.2 | 0.91 JB | 0.45 J | | | | | |

For notes, please refer to the end of the tables section.

**Table 6-2**
**LF009 (Landfill 6 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | 775VMW-18R | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 6/28/2006 | 9/15/2006 | 12/11/2006 | 4/11/2007 | 6/19/2007 | 9/27/2007 | 12/10/2007 | 4/7/2008 | 6/12/2008 | 9/30/2008 | 12/9/2008 | 4/14/2009 | 6/29/2009 |
| Sample ID No. | | | 775VM18R90AA | 775VM18R90BB | 775VM18R90CA | 775VM18R90DA | 775VM18R90EA | 775VM18R90FA | 775VM18R90GA | 775VM18R90HA | 775VM18R90IA | 775VM18R90JA | 775VM18R90KA | 775VM18R90LA | 775VM18R90MA |
| Depth to Water (ft) | | | 52.65 | 52.63 | 51.77 | 50.57 | 50.15 | 51.68 | 52.26 | 51.10 | 51.57 | 51.84 | 52.1 | 51.52 | 51.33 |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 5* | 1 | **6** | **5.01** | **5.50** | **5.09** | 4.7 | 3.91 | **5.17** | 4.37 | 4.92 | 4.11 | 3.96 | 4.25 | 4.29 |
| 1,1-dichloroethene | 5* | 1 | 0.4 F | 0.37 F | 0.280 F | 0.230 F | 0.250 F | 0.240 F | 0.840 F | U | U | U | 0.180 F | U | U |
| 1,2-dichloroethane | 0.6 | 1 | **1.3** | **1.3** | **1.07** | **0.91** | **0.85** | **0.670** | **0.840** | **0.650** | **0.700** | **0.630** | 0.580 | 0.590 | 0.510 |
| 1,4-dichlorobenzene | 3 | 0.5 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| acetone | 50 | 10 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| benzene | 1 | 0.1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| carbon disulfide | 1,000 | 0.5 | U | U | U | U | U | U | U | U | U | U | U | UF | U |
| chloroform | 7 | 0.3 | 0.52 | 0.49 F | 0.500 | U | 0.370 F | 0.230 F | 0.720 | 0.260 F | 0.280 F | 0.280 F | 0.360 F | 0.290 | 0.290 F |
| chloromethane | 5* | 1 | U | U | UJ | U | U | U | U | U | U | U | U | U | U |
| cis-1,2-dichloroethene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| dichlorodifluoromethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| hexachlorobutadiene | 0.5* | 0.6 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| methylene chloride | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| trichloroethene (TCE) | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| toluene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| trans-1,2-dichloroethene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| trichlorofluoromethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| vinyl chloride | 2 | 1 | U | U | U | U | U | UJ | U | U | U | U | U | U | U |
| xylenes, Total | -- | 1.5 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| **Total VOCs (µg/L)** | | | **7.22** | **7.17** | **7.35** | **6.23** | **6.17** | **5.05** | **6.85** | **5.28** | **5.90** | **5.02** | **5.08** | **5.13** | **5.09** |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 142 | 140 | 150 | 120 | 110 | 130 | 130 | 140 | 150 | 140 | 130 | 150 | 140 |
| ammonia | 2 | 0.2 | U | U | U | U | 0.024 F | U | 0.025 F | 0.020 F | 0.056 B | U | U | U | U |
| BOD5 | -- | 2.4 | U | U | UJ | U | U | U | U | U | U | U | U | U | U |
| bromide | 2 | 0.5 | U | 0.092 F | 0.043 F | 0.18 F | 0.20 F | 0.20 F | 0.25 F | 0.20 F | 0.19 F | 0.14 F | UJ | 0.17 F | 0.11 F |
| COD | -- | 5 | 27.4 | 7.1 F | 9.4 F | 17 | 15 B | 6.3 F | 6.3 F | 8.5 F | 4.1 F | 26 | 22 | 26 | 20 |
| chloride | 250 | 1 | **873** | **550** | **450** | **710** | **880** | **880** | **860** | **790** | **680** | **720** | **760** | **810** | **630 F** |
| color | 15 | 5 | **18** | NA | NA | NA | U | NA | NA | U | U | NA | NA | U | NA |
| cyanide, Total | 200 | 0.02 | 0.0076 F | NA | NA | NA | U | NA | NA | 0.0096 F | 0.0078 F | NA | NA | NA | NA |
| Fluoride | 1.5 | 1 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| hardness, Total | -- | 1 | 680 | 520 | 450 | 720 | 770 | 610 | 650 | 600 | 470 | 500 | 600 | 590 | 480 |
| nitrate | 10 | 1 | 4.4 | 3.4 | 3.0 | 4.1 | 3.3 | 3.4 | 3.5 | 3.2 | 3.2 | 3.5 | 3.5 | 3.7 | 3.6 |
| TKN | 1 | 0.2 | U | U | 0.084 F | 0.18 F | 0.21 B | 0.12 F | U | U | U | U | 0.16 F | 0.11 F | 0.15 F |
| sulfate | 250 | 1 | 63 | 41 | 34 | 40 | 50 | 40 | 41 | 36 | 35 | 35 | 35 | 43 | 39 |
| TDS | 500 | 10 | **1,770** | **1,500** | **1,300** | **1,900** | **2,600** | **2,300** | **1,700** | **1,900** | **2,000** | **1,400** | **1,800** | **1,200** | **1,600** |
| TOC | -- | 1 | 0.83 F | 0.63 F | 0.66 F | 0.45 F | 0.61 F | 0.83 F | 0.69 F | 0.80 F | 0.50 F | 0.53 F | 1.0 | 0.48 F | 0.59 F |

For notes, please refer to the end of the tables section.

**Table 6-2**
**LF009 (Landfill 6 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | 775VMW-18R | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Date of Collection** | | | **9/14/2009** | **3/22/2010** | **9/23/2010** | **6/7/2011** | **6/19/2012** | **6/17/2013** | **6/4/2014** | **6/9/2015** | | | | | |
| **Sample ID No.** | | | **775VM18R90NA** | **775VM18R90OA** | **775VM18R90PA** | **775VM18R90PA** | **775VM18R9QA** | **775VM18R90RA** | **775VM18R90RA** | **775VM18R90SA** | | | | | |
| **Depth to Water (ft)** | | | **52.29** | **53.04** | **53.74** | **51.50** | **52.02** | **52.71** | **51.40** | **51.80** | | | | | |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 5* | 1 | 3.96 | 4.00 | 4.03 | NA | NA | NA | NA | NA | | | | | |
| 1,1-dichloroethene | 5* | 1 | U | U | 0.170 F | NA | NA | NA | NA | NA | | | | | |
| 1,2-dichloroethane | 0.6 | 1 | 0.500 | 0.460 F | 0.430 F | NA | NA | NA | NA | NA | | | | | |
| 1,4-dichlorobenzene | 3 | 0.5 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| acetone | 50 | 10 | U | U | 1.71 FB | NA | NA | NA | NA | NA | | | | | |
| benzene | 1 | 0.1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| carbon disulfide | 1,000 | 0.5 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| chloroform | 7 | 0.3 | 0.270 F | 0.360 F | 0.530 | NA | NA | NA | NA | NA | | | | | |
| chloromethane | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| cis-1,2-dichloroethene | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| dichlorodifluoromethane | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| hexachlorobutadiene | 0.5* | 0.6 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| methylene chloride | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| trichloroethene (TCE) | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| toluene | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| trans-1,2-dichloroethene | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| trichlorofluoromethane | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| vinyl chloride | 2 | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| xylenes, Total | -- | 1.5 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| **Total VOCs (µg/L)** | | | **4.73** | **4.82** | **6.87** | NA | NA | **NA** | **NA** | **NA** | | | | | |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 150 | 160 | 160 | 160 | 190 | 160 | 160 | 160 | | | | | |
| ammonia | 2 | 0.2 | 0.35 | U | U | 0.094 F | 0.81 | U | U | U | | | | | |
| BOD5 | -- | 2.4 | U | U | U | U | U | U | U | U | | | | | |
| bromide | 2 | 0.5 | 0.12 F | U | U | 0.11 F | 0.14 | U | U | 0.16 J | | | | | |
| COD | -- | 5 | 6.7 F | 5.6 FB | U | U | 8.0 J | 22 J | U | 11 J | | | | | |
| chloride | 250 | 1 | **560** | **640** | **510** | **550** | **460** | **470** | **490** | **440** | | | | | |
| color | 15 | 5 | NA | U | NA | U | U | U | 5 | 5 | | | | | |
| cyanide, Total | 200 | 0.02 | NA | 0.0080 F | U | NA | U | U | U | NA | | | | | |
| Fluoride | 1.5 | 1 | NA | NA | NA | NA | NA | U | 0.10 J | U | | | | | |
| hardness, Total | -- | 1 | 410 | 500 | 440 | 480 | 310 | 380 | 370 | 300 | | | | | |
| nitrate | 10 | 1 | 3.9 | 3.7 | 4.5 | 3.2 | 3.4 | 2.0 | 2.1 | 2.1 | | | | | |
| TKN | 1 | 0.2 | 0.4 | 0.22 B | 0.20 B | 0.30 F | 0.61 JB | 0.55 J | U | U | | | | | |
| sulfate | 250 | 1 | 29 | 35 | 35 | 45 | 42 | 42 | 50 | 42 | | | | | |
| TDS | 500 | 10 | **1,400** | **1,500** | **1,200** | **1,200** | **1,000** | **1,000** | **1,000 J** | 54 B | | | | | |
| TOC | -- | 1 | 0.61 F | 0.65 FB | 0.88 F | 0.80 F | 0.81 J | 1.3 | 1.1 B | 0.66 J | | | | | |

For notes, please refer to the end of the tables section.

**Table 6-2**
**LF009 (Landfill 6 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | 775VMW-20R | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 6/28/2006 | 9/18/2006 | 12/11/2006 | 4/11/2007 | 6/20/2007 | 9/28/2007 | 12/10/2007 | 4/8/2008 | 6/12/2008 | 10/1/2008 | 12/9/2008 | 4/14/2009 | 6/29/2009 |
| Sample ID No. | | | 775VM20R110AA | 775VM20R110BB | 775VM20R110CA | 775VM20R110DA | 775VM20R110EA | 775VM20R110FA | 775VM20R110GA | 775VM20R110HA | 775VM20R110IA | 775VM20R110JA | 775VM20R110KA | 775VM20R110LA | 775VM20R110MA |
| Depth to Water (ft) | | | 65.15 | 65.20 | 64.22 | 63.22 | 62.95 | 64.40 | 64.61 | 63.34 | 63.31 | 64.42 | 64.54 | 63.99 | 64.01 |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,1-dichloroethene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,2-dichloroethane | 0.6 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,4-dichlorobenzene | 3 | 0.5 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| acetone | 50 | 10 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| benzene | 1 | 0.1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| carbon disulfide | 1,000 | 0.5 | U | U | U | U | U | U | U | U | U | U | U | UJ | U |
| chloroform | 7 | 0.3 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| chloromethane | 5* | 1 | U | U | UJ | U | U | U | U | U | U | U | U | U | U |
| cis-1,2-dichloroethene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| dichlorodifluoromethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| hexachlorobutadiene | 0.5* | 0.6 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| methylene chloride | 5* | 1 | U | U | 0.180 F | U | U | U | U | U | U | U | U | U | U |
| trichloroethene (TCE) | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| toluene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| trans-1,2-dichloroethene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| trichlorofluoromethane | 5* | 1 | U | U | U | U | 0.140 F | U | U | U | U | U | U | U | U |
| vinyl chloride | 2 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| xylenes, Total | -- | 1.5 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| **Total VOCs (µg/L)** | | | **0** | **0** | **0.18** | **0** | **0.14** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 219 | 180 | 180 | 180 | 180 | 180 | 170 | 170 | 180 | 180 | 170 | 170 | 170 |
| ammonia | 2 | 0.2 | 0.012 F | 0.035 F | U | 0.020 F | 0.039 F | 0.013 F | 0.045 F | 0.034 F | 0.055 B | 0.033 F | 0.020 F | 0.047 F | 0.026 F |
| BOD5 | -- | 2.4 | UJ | U | UJ | U | U | U | U | U | U | U | U | U | U |
| bromide | 2 | 0.5 | U | 0.011 F | U | U | U | 0.022 F | 0.046 F | 0.051 F | 0.037 F | 0.039 F | UJ | 0.048 F | 0.027 F |
| COD | -- | 5 | 17.8 | 16 B | U | 13 | 17 | U | 4.1 F | 8.5 F | U | 3.7 F | U | 6.0 F | U |
| chloride | 250 | 1 | 51.1 | 59 | 57 | 58 | 71 | 83 | 84 | 89 | 110 | 110 | 92 | 92 | 98 J |
| color | 15 | 5 | 15 | NA | NA | NA | U | NA | NA | U | U | NA | NA | U | NA |
| cyanide, Total | 200 | 0.02 | 0.0076 F | NA | NA | NA | U | NA | NA | U | 0.018 F | NA | NA | NA | NA |
| Fluoride | 1.5 | 1 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| hardness, Total | -- | 1 | 213 | 260 | 230 | 220 | 230 | 220 | 260 | 260 | 270 | 300 | 270 | 270 | 280 |
| nitrate | 10 | 1 | U | U | 0.013 F | 0.21 | 0.041 F | 0.015 | U | 0.040 F | U | U | U | U | U |
| TKN | 1 | 0.2 | 0.12 F | 0.084 F | 0.42 | 0.12 F | U | U | U | 0.12 F | U | U | U | U | U |
| sulfate | 250 | 1 | 39.4 | 42 | 39 | 39 | 40 | 37 | 37 | 38 | 38 | 38 | 35 | 36 | 34 |
| TDS | 500 | 10 | 348 | 360 | 370 | 320 | 410 | 290 | 300 | 360 | 480 | 380 | 390 | 350 | 330 |
| TOC | -- | 1 | 0.75 F | U | 0.55 F | 0.44 F | 1.6 | 0.61 F | 0.45 F | 1.1 B | U | 0.85 F | 0.53 F | U | U |

For notes, please refer to the end of the tables section.

**Table 6-2**
**LF009 (Landfill 6 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | 775VMW-20R | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Date of Collection** | | | **9/14/2009** | **3/22/2010** | **9/23/2010** | **6/7/2011** | **6/19/2012** | **6/17/2013** | **6/5/2014** | **6/4/2015** | | | | | |
| **Sample ID No.** | | | **775VM20R110NA** | **775VM20R110OA** | **775VM20R110PA** | **775VM20R110PA** | **775VM20R11QA** | **775VM20R110RA** | **775VM20R110RA** | **775VM20R110SA** | | | | | |
| **Depth to Water (ft)** | | | **64.97** | **65.51** | **66.65** | **64.50** | **64.72** | **65.60** | **64.36** | **64.91** | | | | | |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| 1,1-dichloroethene | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| 1,2-dichloroethane | 0.6 | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| 1,4-dichlorobenzene | 3 | 0.5 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| acetone | 50 | 10 | U | U | 1.61 FB | NA | NA | NA | NA | NA | | | | | |
| benzene | 1 | 0.1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| carbon disulfide | 1,000 | 0.5 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| chloroform | 7 | 0.3 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| chloromethane | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| cis-1,2-dichloroethene | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| dichlorodifluoromethane | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| hexachlorobutadiene | 0.5* | 0.6 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| methylene chloride | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| trichloroethene (TCE) | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| toluene | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| trans-1,2-dichloroethene | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| trichlorofluoromethane | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| vinyl chloride | 2 | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| xylenes, Total | -- | 1.5 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| **Total VOCs (µg/L)** | | | **0** | **0** | **1.61** | NA | NA | NA | NA | NA | | | | | |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 180 | 170 | 170 | 160 | 180 | 140 | 150 B | 160 | | | | | |
| ammonia | 2 | 0.2 | 0.22 F | 0.35 F | U | 0.2 | 0.075 JB | 0.070 J | 0.091 J | 0.066 JB | | | | | |
| BOD5 | -- | 2.4 | U | U | U | 1.4 F | U | U | U | U | | | | | |
| bromide | 2 | 0.5 | 0.037 F | U | U | U | U | 0.12 J | U | U | | | | | |
| COD | -- | 5 | U | U | U | U | U | 8.7 J | U | U | | | | | |
| chloride | 250 | 1 | 110 | 120 | 130 | 73 | 57 | 51 | 100 B | 110 | | | | | |
| color | 15 | 5 | NA | U | NA | U | U | U | U | 5.0 JB | | | | | |
| cyanide, Total | 200 | 0.02 | NA | 0.0080 F | U | NA | U | U | U | U | | | | | |
| Fluoride | 1.5 | 1 | NA | NA | NA | NA | NA | 0.067 J | 0.075 JB | 0.089 J | | | | | |
| hardness, Total | -- | 1 | 300 | 280 | 280 | 200 | 200 | 210 | 270 B | 260 | | | | | |
| nitrate | 10 | 1 | 0.017 F | 0.055 F | U | U | 0.048 J | 0.10 J | U | U | | | | | |
| TKN | 1 | 0.2 | 0.13 F | 0.30 B | 0.18 FB | 0.45 F | 1 B | 0.56 J | U | U | | | | | |
| sulfate | 250 | 1 | 35 | 34 | 37 | 29 | 39 | 31 | 39 B | 30 | | | | | |
| TDS | 500 | 10 | 410 | 410 | **530** | 330 | 300 | 270 | 360 B | 410 | | | | | |
| TOC | -- | 1 | 0.39 F | U | 0.71 F | 0.61 F | 0.62 J | 1.3 | 0.74 JB | 0.30 J | | | | | |

For notes, please refer to the end of the tables section.

**Table 6-2**
**LF009 (Landfill 6 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF6MW-1 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 6/28/2006 | 9/18/2006 | 12/11/2006 | 4/9/2007 | 6/20/2007 | 9/27/2007 | 12/10/2007 | 4/2/2008 | 6/17/2008 | 9/30/2008 | 12/9/2008 | 4/14/2009 | 6/29/2009 |
| Sample ID No. | | | LF6M0168AA | LF6M0168BB | LF6M0168CA | LF6M0168DA | LF6M0168EA | LF6M0168FA | LF6M0168GA | LF6M0168HA | LF6MO168IA | LF6MO168JA | LF6MO168KA | LF6M0168LA | LF6M0168MA |
| Depth to Water (ft) | | | 63.18 | 63.21 | 62.19 | 61.18 | 60.97 | 62.46 | 62.59 | 61.55 | 61.24 | 62.39 | 62.52 | 62.00 | 62.03 |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,1-dichloroethene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,2-dichloroethane | 0.6 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,4-dichlorobenzene | 3 | 0.5 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| acetone | 50 | 10 | 1.1 F | U | U | 1.00 F | U | U | U | U | U | U | U | U | U |
| benzene | 1 | 0.1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| carbon disulfide | 1,000 | 0.5 | U | U | U | U | U | U | 0.170 F | U | U | U | U | UJ | U |
| chloroform | 7 | 0.3 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| chloromethane | 5* | 1 | U | U | UJ | U | U | U | U | U | U | U | U | U | U |
| cis-1,2-dichloroethene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| dichlorodifluoromethane | 5* | 1 | U | U | U | UM | U | U | U | U | U | U | U | U | U |
| hexachlorobutadiene | 0.5* | 0.6 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| methylene chloride | 5* | 1 | U | U | 0.330 F | U | U | U | 0.120 F♦ | U | U | U | U | U | U |
| trichloroethene (TCE) | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| toluene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| trans-1,2-dichloroethene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| trichlorofluoromethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | 0.180 F |
| vinyl chloride | 2 | 1 | U | U | U | U | U | UJ | U | U | U | U | U | U | U |
| xylenes, Total | -- | 1.5 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| **Total VOCs (µg/L)** | | | **1.1** | **0** | **0.33** | **1** | **0** | **0** | **0.290** | **0** | **0** | **0** | **0** | **0** | **0.180** |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 251 | 250 F | 330 | 360 | 400♦ | 340 | 320♦ | 270 | 330 | 390 | 340 | 270 | 280 |
| ammonia | 2 | 0.2 | 0.039 F | U | U | U | 0.028 F♦ | U | 0.049 F♦ | 0.016 F | 0.057 B♦ | U | U | U | U |
| BOD5 | -- | 2.4 | UJ | U | UF | U | U | U | U | U | U | U | U | U | U |
| bromide | 2 | 0.5 | U | 0.25 F | 0.12 F | 0.24 F | 0.18 F♦ | 0.26 F | U | U | U | 0.18 F | UJ | 0.064 F♦ | 0.077 F |
| COD | -- | 5 | U | 14 B | 24 B | 19 F | 20 F | 28 F | 13 B | 6.3 F♦ | 6.3 F | 17 | 3.7 F | 6.0 F | U |
| chloride | 250 | 1 | 3.6 | **1,300 M** | **970 M** | **1,100 M** | **740 M♦** | **1,200** | **740** | **340♦** | **390** | **870** | **280** | **270** | **430** |
| color | 15 | 5 | **80** | NA | NA | NA | U | NA | NA | U | U | NA | NA | U | NA |
| cyanide, Total | 200 | 0.02 | 0.0076 F | NA | NA | NA | 0.012 F | NA | NA | 0.0090 F | 0.015 F♦ | NA | NA | NA | NA |
| Fluoride | 1.5 | 1 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| hardness, Total | -- | 1 | 444 | 740 | 520 | 530 | 260 | 360 | 240 | 100 | 190 F | 370♦ | 130 F♦ | 140 | 180♦ |
| nitrate | 10 | 1 | 0.77 F | 0.95 F | 0.87 | 1.6 | 0.94 F | 1.0 | 0.97 F♦ | 0.82 F♦ | 0.81 F | 1.2 | 0.75 | 0.82 F | 1.0 |
| TKN | 1 | 0.2 | 0.49 | U | 0.11 F | 0.23 | 0.10 F♦ | 0.10 F♦ | 0.12 F | 0.068 F♦ | U | 0.070 F | 0.077 F♦ | U | 0.14 F |
| sulfate | 250 | 1 | 6.1 | 45 | 50 | 55 M | 49♦ | 72♦ | 65 M | 39♦ | 52 | 78 M | 34 | 32 | 50 |
| TDS | 500 | 10 | 156 | **3,000** | **2,100** | **2,300** | **1,700♦** | **4,700 F♦** | **1,700♦** | **900** | **1,100♦** | **1,900♦** | **940** | **810** | **1,000** |
| TOC | -- | 1 | 1.1 | 1.6 | 2.5 B | 2.1 | 2.5 | 2.6 B♦ | 2.4 | 1.7 | 1.8 | 2.2♦ | 2.0 | 0.79 F | 1.1 |

For notes, please refer to the end of the tables section.

**Table 6-2**
**LF009 (Landfill 6 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF6MW-1 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Date of Collection** | | | **9/15/2009** | **3/22/2010** | **9/23/2010** | **6/6/2011** | **6/19/2012** | **6/17/2013** | **6/4/2014** | **6/2/2015** | | | | | |
| **Sample ID No.** | | | **LF6M0168NA** | **LF6M0168OA** | **LF6M0168PA** | **LF6M0168PA** | **LF6M0168QA** | **LF6M0168RA** | **LF6M0168RA** | **LF6M0168SA** | | | | | |
| **Depth to Water (ft)** | | | **63.02** | **63.52** | **64.47** | **62.09** | **62.72** | **63.56** | **62.30** | **62.95** | | | | | |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| 1,1-dichloroethene | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| 1,2-dichloroethane | 0.6 | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| 1,4-dichlorobenzene | 3 | 0.5 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| acetone | 50 | 10 | U | U | 1.66 FB | NA | NA | NA | NA | NA | | | | | |
| benzene | 1 | 0.1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| carbon disulfide | 1,000 | 0.5 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| chloroform | 7 | 0.3 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| chloromethane | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| cis-1,2-dichloroethene | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| dichlorodifluoromethane | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| hexachlorobutadiene | 0.5* | 0.6 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| methylene chloride | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| trichloroethene (TCE) | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| toluene | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| trans-1,2-dichloroethene | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| trichlorofluoromethane | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| vinyl chloride | 2 | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| xylenes, Total | -- | 1.5 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| **Total VOCs (µg/L)** | | | **0** | **0** | **1.66** | NA | NA | NA | NA | NA | | | | | |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 280 | 320 | 310 | 360 | 230 | 210 ♦ | 350 ♦ | 270 | | | | | |
| ammonia | 2 | 0.2 | 0.019 F♦ | U | U | 0.10 F | 0.13♦ JB | U | 0.036 J | U | | | | | |
| BOD5 | -- | 2.4 | U | U | U | U | U | U | U | U | | | | | |
| bromide | 2 | 0.5 | 0.14 F | U | U | 0.12 F | U | U | 0.49 J♦ | 0.30 J | | | | | |
| COD | -- | 5 | 6.7 F | 5.2 FB♦ | 8.1 FB♦ | 10 F♦ | 16 J♦ | 30 J | 15 J♦ | 20 J | | | | | |
| chloride | 250 | 1 | **290 M♦** | **320** | **310** | **480** | **1,300** | **1,100** | **760 ♦** | **1,400** | | | | | |
| color | 15 | 5 | NA | U | NA | U | U | U | 10 | U | | | | | |
| cyanide, Total | 200 | 0.02 | NA | 0.013 F | 0.0063 F | U | U | U | U | U | | | | | |
| Fluoride | 1.5 | 1 | NA | NA | NA | NA | NA | NA | 0.13 J | U | | | | | |
| hardness, Total | -- | 1 | 160 | 170 | 160 | 240 | 410 J | 530 | 350 ♦ | 500 | | | | | |
| nitrate | 10 | 1 | 1.0 ♦ | 0.86 FB ♦ | 0.98 F♦ | 0.9 | 2.0♦ | 1.0 | 1.0 | 1.1 | | | | | |
| TKN | 1 | 0.2 | U | 0.19 FB♦ | 0.29 BF♦ | 0.49 F | 1.0 B | 0.57 J | U | 0.22 J ♦ | | | | | |
| sulfate | 250 | 1 | 61 M♦ | 42 | 65♦ | 50 | 56 | 39 | 47 J♦ | 44 ♦ | | | | | |
| TDS | 500 | 10 | **870♦** | **840** | **850** | **1,200** | **2,400** | **2,100** | **1,700** | **2,600** | | | | | |
| TOC | -- | 1 | 1.3♦ | 1.4 B | 2.0 | 1.5 | 1.4 | 1.7 ♦ | 1.8 B | 1.1 | | | | | |

For notes, please refer to the end of the tables section.

**Table 6-2**
**LF009 (Landfill 6 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF6VMW-10R2 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 6/29/2006 | 9/19/2006 | 12/13/2006 | 4/13/2007 | 6/21/2007 | 10/1/2007 | 12/12/2007 | 4/7/2008 | 6/18/2008 | 10/1/2008 | 12/11/2008 | 4/16/2009 | 6/30/2009 |
| Sample ID No. | | | LF6VM10R230AA | LF6VM10R230BB | LF6VM10R230CA | LF6VM10R230DA | LF6VM10R230EA | LF6VM10R230FA | LF6VM10R230GA | LF6VM10R230HA | LF6VM10R230IA | LF6VM10R230JA | LF6VM10R230KA | LF6VM10R230LA | LF6VM10R230MA |
| **Depth to Water (ft)** | | | **12.92** | **13.33** | **12.27** | **11.40** | **12.15** | **13.22** | **12.61** | **11.47** | **12.27** | **13.01** | **12.49** | **12.02** | **12.46** |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,1-dichloroethene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,2-dichloroethane | 0.6 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,4-dichlorobenzene | 3 | 0.5 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| acetone | 50 | 10 | U | U | U | U | U | U | U | U | U | U | U | U | 1.31 F |
| benzene | 1 | 0.1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| carbon disulfide | 1,000 | 0.5 | U | U | U | U | U | U | 0.120 F | U | U | U | U | UJ | U |
| chloroform | 7 | 0.3 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| chloromethane | 5* | 1 | 0.18 F | U | U | U | U | U | U | U | U | U | U | U | U |
| cis-1,2-dichloroethene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| dichlorodifluoromethane | 5* | 1 | U | U | UJ | U | U | U | U | U | U | U | U | U | U |
| hexachlorobutadiene | 0.5* | 0.6 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| methylene chloride | 5* | 1 | U | U | U | U | U | U | 0.110 F | U | U | U | U | U | U |
| trichloroethene (TCE) | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| toluene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| trans-1,2-dichloroethene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| trichlorofluoromethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| vinyl chloride | 2 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| xylenes, Total | -- | 1.5 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| **Total VOCs (µg/L)** | | | **0.18** | **0** | **0** | **0** | **0** | **0** | **0.230** | **0** | **0** | **0** | **0** | **0** | **1.31** |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 93.8 | 84 | 86 | 82 | 82 | 80 | 86 | 92 | 80 | 88 | 80 | 80 | 78 |
| ammonia | 2 | 0.2 | U | 0.023 F | U | U | 0.025 F | 0.011 F | U | 0.014 F | 0.047 F | 0.019 F | U | 0.029 F | U |
| BOD5 | -- | 2.4 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| bromide | 2 | 0.5 | U | U | U | U | U | U | U | 0.018 F | 0.024 F | 0.016 F | UJ | 0.033 F | 0.037 F |
| COD | -- | 5 | 12 B | 9.2 F | U | 19 | 11 B | U | 6.3 F | 8.5 F | 6.3 F | U | 8.2 F | 8.2 F | 6.7 F |
| chloride | 250 | 1 | 2.7 | 2.5 | 2.1 | 2.1 | 2.4 | 2.4 | 2.3 | 3.4 | 5.0 | 3.6 | 4.1 | 4.1 | 5.0 |
| color | 15 | 5 | **140** | NA | NA | NA | U | NA | NA | U | U | NA | NA | U | NA |
| cyanide, Total | 200 | 0.02 | U | NA | NA | NA | U | NA | NA | 0.010 F | 0.0050 F | NA | NA | NA | NA |
| Fluoride | 1.5 | 1 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| hardness, Total | -- | 1 | 86.7 | 130 | 100 | 96 | 92 | 92 | 120 | 92 | 420 | 120 | 120 | 110 | 100 |
| nitrate | 10 | 1 | 0.29 F | 0.24 F | 0.47 | 0.17 | 0.16 B | 0.16 B | 0.055 F | 0.23 | 0.39 | 0.19 | 0.14 | 0.77 | 0.90 |
| TKN | 1 | 0.2 | 0.076 F | U | U | 0.076 F | U | 0.38 B | U | U | U | U | U | U | U |
| sulfate | 250 | 1 | 10.9 | 12 | 11 | 12 | 13 | 12 | 12 | 13 | 15 | 14 | 13 | 14 | 14 |
| TDS | 500 | 10 | 148 | 120 | 140 | 70 | 130 | 120 | 130 | 120 | 120 | 130 | 93 | 130 | 140 |
| TOC | -- | 1 | 0.45 F | U | 0.73 F | U | 0.76 F | 0.54 F | 0.59 F | 1.3 | U | 0.49 F | U | U | 0.51 F |

For notes, please refer to the end of the tables section.

**Table 6-2**
**LF009 (Landfill 6 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF6VMW-10R2 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Date of Collection** | | | **9/15/2009** | **3/24/2010** | **9/16/2010** | **6/7/2011** | **6/18/2012** | **6/18/2013** | **6/3/2014** | **6/3/2015** | | | | | |
| **Sample ID No.** | | | **LF6VM10R230NA** | **LF6VM10R230OA** | **LF6VM10R230PA** | **LF6VM10R230PA** | **LF6VM10R230QA** | **LF6VM10R230RA** | **LF6VM10R230RA** | **LF6VM10R230SA** | | | | | |
| **Depth to Water (ft)** | | | **13.29** | **12.78** | **14.11** | **11.97** | **13.20** | **12.75** | **12.80** | **12.58** | | | | | |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| 1,1-dichloroethene | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| 1,2-dichloroethane | 0.6 | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| 1,4-dichlorobenzene | 3 | 0.5 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| acetone | 50 | 10 | U | U | 1.51 FB | NA | NA | NA | NA | NA | | | | | |
| benzene | 1 | 0.1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| carbon disulfide | 1,000 | 0.5 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| chloroform | 7 | 0.3 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| chloromethane | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| cis-1,2-dichloroethene | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| dichlorodifluoromethane | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| hexachlorobutadiene | 0.5* | 0.6 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| methylene chloride | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| trichloroethene (TCE) | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| toluene | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| trans-1,2-dichloroethene | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| trichlorofluoromethane | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| vinyl chloride | 2 | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| xylenes, Total | -- | 1.5 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| **Total VOCs (µg/L)** | | | **0** | **0** | **1.51** | NA | NA | NA | NA | NA | | | | | |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 80 | 82 | 80 | 88 | 100 | 94 | 100 | 100 | | | | | |
| ammonia | 2 | 0.2 | U | U | U | 0.25 F | 0.22 JB | 0.025 J | 0.94 B | U | | | | | |
| BOD5 | -- | 2.4 | U | U | U | U | U | 1.7 J | U | U | | | | | |
| bromide | 2 | 0.5 | 0.044 F | 0.067 F | U | 0.12 F | U | 0.13 J | U | U | | | | | |
| COD | -- | 5 | U | U | U | U | 6.0 J | 8.3 J | U | U | | | | | |
| chloride | 250 | 1 | 4.6 | 3.5 | 7.4 | 7.0 | 5.2 J | 9.9 | 4.6 | 4.7 | | | | | |
| color | 15 | 5 | NA | U | NA | U | U | U | **20 J** | **250** | | | | | |
| cyanide, Total | 200 | 0.02 | NA | NA | U | NA | U | U | U | U | | | | | |
| Fluoride | 1.5 | 1 | NA | NA | NA | NA | NA | NA | 0.075 J | 0.070 J | | | | | |
| hardness, Total | -- | 1 | 110 | 100 | 120 | 120 | 130 | 140 | 150 | 160 | | | | | |
| nitrate | 10 | 1 | 0.68 | 0.6 | 0.64 F | 0.89 | 0.86 | 2.7 | 1.9 | 1.9 | | | | | |
| TKN | 1 | 0.2 | U | 0.20 B | 0.16 FB | 0.42 F | 0.69 JB | 0.52 J | U | U | | | | | |
| sulfate | 250 | 1 | 14 | 14 | 19 | 22 | 19 | 18 | 17 | 13 | | | | | |
| TDS | 500 | 10 | 130 | 110 | 110 | 150 | 140 | 140 | 300 | 150 | | | | | |
| TOC | -- | 1 | 0.48 F | U | 1.1 | 8 | 0.5 J | 0.92 J | 0.54 J | 0.64 JB | | | | | |

For notes, please refer to the end of the tables section.

**Table 6-2**
**LF009 (Landfill 6 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF6MW-12 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 6/29/2006 | 9/19/2006 | 12/13/2006 | 4/17/2007 | 6/25/2007 | 10/1/2007 | 12/12/2007 | 4/7/2008 | 6/18/2008 | 10/2/2008 | 12/11/2008 | 4/16/2009 | 7/1/2009 |
| Sample ID No. | | | LF6M1246AA | LF6M1246BB | LF6M1246CA | LF6M1246DA | LF6M1246EA | LF6M1246FA | LF6M1246GA | LF6M1246HA | LF6M1246IA | LF6M1246JA | LF6M1246KA | LF6M1246LA | LF6M1246MA |
| Depth to Water (ft) | | | 4.48 | 4.91 | 3.90 | 2.90 | 3.89 | 4.85 | 4.2 | 3.29 | 3.91 | 4.06 | 4.12 | 3.74 | 4.15 |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,1-dichloroethene | 5* | 1 | U | 0.63 F | U | 0.490 F | U | 0.530 F | U | 0.490 F | U | U | U | U | U |
| 1,2-dichloroethane | 0.6 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,4-dichlorobenzene | 3 | 0.5 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| acetone | 50 | 10 | 0.76 F | U | U | U | U | U | U | U | U | **66.0 F** | U | U | U |
| benzene | 1 | 0.1 | 0.62 | 0.47 F | U | 0.360 F | U | 0.390 F | U | 0.310 F | U | U | U | U | U |
| carbon disulfide | 1,000 | 0.5 | U | U | U | U | U | U | U | U | U | 6.00 F | U | U | U |
| chloroform | 7 | 0.3 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| chloromethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| cis-1,2-dichloroethene | 5* | 1 | **470** | **264** | **275** | **192 J** | **175** | **179** | **163** | **158** | **138** | **160** | **266** | **120** | **117** |
| dichlorodifluoromethane | 5* | 1 | U | U | UJ | U | U | U | U | U | U | U | U | U | U |
| hexachlorobutadiene | 0.5* | 0.6 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| methylene chloride | 5* | 1 | U | U | U | U | **6.00 F** | U | U | U | U | 4.50 F | U | U | U |
| trichloroethene (TCE) | 5* | 1 | **1,500** | **942** | **1,060 J** | **851 J** | **702** | **741** | **791** | **767** | **727** | **664** | **523** | **653** | **709** |
| toluene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| trans-1,2-dichloroethene | 5* | 1 | **16** | **12.8** | **8.75 F** | 4.68 | **9.00 F** | **14.9** | **20.2 F** | **5.31** | **8.25** | **28.5** | **11 F** | 4.75 F | **6.00 F** |
| trichlorofluoromethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| vinyl chloride | 2 | 1 | **2.7** | **2.4** | U | 1.27 | U | 1.57 | U | U | U | U | U | U | U |
| xylenes, Total | -- | 1.5 | U | U | 2.50 F | U | U | U | U | U | U | U | U | U | U |
| **Total VOCs (µg/L)** | | | **1,990.08** | **1,222.30** | **1,348.75** | **1,049.80** | **892.00** | **937.39** | **974.2** | **931.11** | **873.25** | **929.00** | **800** | **777.75** | **832** |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 431 | 350 | 340 | 330 | 320 | 290 | 310 | 330 | 350 | 120 | 210 | 290 | 310 |
| ammonia | 2 | 0.2 | 0.013 F | 0.051 B | 0.041 F | 0.073 | 0.078 | 0.068 | 0.062 | 0.065 | 0.10 B | 0.11 B | 0.098 | 0.12 B | 0.085 |
| BOD5 | -- | 2.4 | U | U | U | U | U | U | U | U | U | 63 F | 28 | U | U |
| bromide | 2 | 0.5 | U | 0.09 F | U | 0.15 | 0.10 F | 0.12 | 0.21 | 0.24 | 0.16 | 0.17 F | U | 0.17 F | 0.18 F |
| COD | -- | 5 | U | U | 16 | 13 B | 24 B | 8.5 F | 13 B | 11 | 8.5 F | 110 | 35 | 10 | 14 |
| chloride | 250 | 1 | 38 | 44 | 49 | 49 | 55 | 52 | 66 | 75 | 58 | 63 | 75 | 70 | 64 |
| color | 15 | 5 | 13 | NA | NA | NA | U | NA | NA | U | U | NA | NA | U | NA |
| cyanide, Total | 200 | 0.02 | U | NA | NA | NA | U | NA | NA | 0.0087 F | 0.0093 F | NA | NA | NA | NA |
| Fluoride | 1.5 | 1 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| hardness, Total | -- | 1 | 212 | 470 | 420 | 410 | 400 | 380 | 550 | 24 | 110 | 96 | 310 | 400 | 420 |
| nitrate | 10 | 1 | 0.05 F | U | U | U | U | U | U | 0.015 | 0.016 F | U | U | U | 0.030 F |
| TKN | 1 | 0.2 | U | 0.082 F | 0.059 F | U | 0.058 F | 0.14 F | 0.071 F | 0.092 F | 0.14 F | 0.64 | 0.28 | 0.18 F | 0.22 |
| sulfate | 250 | 1 | 56.9 | 59 | 55 | 53 | 60 | 68 | 72 | 66 | 82 | 23 | 55 | 79 | 70 |
| TDS | 500 | 10 | **564** | **520** | **540** | **510** | **510** | **1000** | **530** | **540** | **530** | 310 | 430 | **550** | **570** |
| TOC | -- | 1 | 2.2 | 1.7 | 2.0 | 1.6 | 1.5 | 1.8 | 1.7 | 1.8 | 1.6 | 33 | 8.3 | 1.6 | 1.7 |

For notes, please refer to the end of the tables section.

**Table 6-2**
**LF009 (Landfill 6 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF6MW-12 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Date of Collection** | | | **9/16/2009** | **3/24/2010** | **9/16/2010** | **6/8/2011** | **6/20/2012** | **6/19/2013** | **6/10/2014** | **6/3/2015** | | | | | |
| **Sample ID No.** | | | **LF6M1246NA** | **LF6M1246OA** | **LF6M1246PA** | **LF6M1246PA** | **LF6M1246QA** | **LF6M1246RA** | **LF6M1246RA** | **LF6M1246SA** | | | | | |
| **Depth to Water (ft)** | | | **4.77** | **4.20** | **6.55** | **3.75** | **4.32** | **4.20** | **4.56** | **NS** | | | | | |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 5* | 1 | U | U | U | U | U | U | U | NS | | | | | |
| 1,1-dichloroethene | 5* | 1 | U | U | U | 2.1 | 0.59 J | 1.8 | U | NS | | | | | |
| 1,2-dichloroethane | 0.6 | 1 | U | U | U | U | U | U | U | NS | | | | | |
| 1,4-dichlorobenzene | 3 | 0.5 | U | U | U | U | U | U | U | NS | | | | | |
| acetone | 50 | 10 | U | U | **226 FB** | **55** | U | 5.4 JQ | **970** | NS | | | | | |
| benzene | 1 | 0.1 | U | U | U | 0.28 F | U | 0.28 J | U | NS | | | | | |
| carbon disulfide | 1,000 | 0.5 | U | U | 3.50 F | U | U | U | U | NS | | | | | |
| chloroform | 7 | 0.3 | U | U | U | U | U | U | U | NS | | | | | |
| chloromethane | 5* | 1 | U | U | U | U | U | U | U | NS | | | | | |
| cis-1,2-dichloroethene | 5* | 1 | **174** | **241** | **972** | **530** | **380** | **430** | **1,600** | NS | | | | | |
| dichlorodifluoromethane | 5* | 1 | U | U | U | U | U | U | U | NS | | | | | |
| hexachlorobutadiene | 0.5* | 0.6 | U | U | U | U | U | U | U | NS | | | | | |
| methylene chloride | 5* | 1 | U | U | U | U | U | U | U | NS | | | | | |
| trichloroethene (TCE) | 5* | 1 | **711** | **655** | **14.5 F** | **220** | **300** | **470** | 3.6 J | NS | | | | | |
| toluene | 5* | 1 | U | U | U | U | U | U | U | NS | | | | | |
| trans-1,2-dichloroethene | 5* | 1 | **9.25 F** | **7.25 F** | 5.00 F | **6.2** | **7.9** | **13** | **13** | NS | | | | | |
| trichlorofluoromethane | 5* | 1 | U | U | U | U | U | U | U | NS | | | | | |
| vinyl chloride | 2 | 1 | U | U | U | **4.7** | **4.1** | **7.1** | **29** | NS | | | | | |
| xylenes, Total | -- | 1.5 | U | U | U | U | U | U | U | NS | | | | | |
| **Total VOCs (µg/L)** | | | **894.25** | **903.25** | **1,221** | **818.28** | **692.59** | **927.89** | **2615.6** | **NS** | | | | | |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 300 | 310 | 430 | 420 | 400 | 410 | 650 | NS | | | | | |
| ammonia | 2 | 0.2 | 0.068 | 0.034 F | U | 0.20 F | 0.084 JB | 0.097 J | U | NS | | | | | |
| BOD5 | -- | 2.4 | U | 10 | 550 F | U | 59 D | 6.5 | 1,400 | NS | | | | | |
| bromide | 2 | 0.5 | 0.12 F | 0.4 | U | 0.20 F | 0.12 J | 0.29 J | U | NS | | | | | |
| COD | -- | 5 | 14 | 22 | 1,300 | 54 | 15 J | 20 J | 2,600 | NS | | | | | |
| chloride | 250 | 1 | 68 | 110 | 78 | 85 | 67 | 100 | 74 | NS | | | | | |
| color | 15 | 5 | NA | U | NA | U | U | U | U | NS | | | | | |
| cyanide, Total | 200 | 0.02 | NA | NA | U | U | U | U | U | NS | | | | | |
| Fluoride | 1.5 | 1 | NA | NA | NA | **3.1** | 0.68 J | U | U | NS | | | | | |
| hardness, Total | -- | 1 | 420 | 450 | 580 | 460 | 460 | 550 | 880 | NS | | | | | |
| nitrate | 10 | 1 | U | U | U | U | U | U | U | NS | | | | | |
| TKN | 1 | 0.2 | U | 0.63 B | 0.73 | 0.60 F | 0.83 JB | 0.63 J | U | NS | | | | | |
| sulfate | 250 | 1 | 62 | 66 | 14 | 50 | 47 | 43 | 0.36 J | NS | | | | | |
| TDS | 500 | 10 | **510** | **540** | **770** | **640** | **580** | **650** | **1,300** | NS | | | | | |
| TOC | -- | 1 | 3 | 4.5 | 270 | 12 | 3.1 | 3.2 | 530 | NS | | | | | |

For notes, please refer to the end of the tables section.

**Table 6-2**
**LF009 (Landfill 6 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF6VMW-17D | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Date of Collection** | | | **6/28/2006** | **9/18/2006** | **12/12/2006** | **4/13/2007** | **6/21/2007** | **9/28/2007** | **12/10/2007** | **4/3/2008** | **6/18/2008** | **10/1/2008** | **12/9/2008** | **4/14/2009** | **6/29/2009** |
| **Sample ID No.** | | | **LF6VM17D48AA** | **LF6VM17D48BB** | **LF6VM17D48CA** | **LF6VM17D48DA** | **LF6VM17D48EA** | **LF6VM17D48FA** | **LF6VM17D48GA** | **LF6VM17D48HA** | **LF6VM17D48IA** | **LF6VM17D48JA** | **LF6VM17D48KA** | **LF6VM17D48LA** | **LF6VM17D48MA** |
| **Depth to Water (ft)** | | | **13.00** | **13.41** | **11.22** | **9.30** | **12.18** | **14.25** | **12.92** | **9.88** | **12.15** | **13.68** | **12.05** | **10.29** | **12.11** |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,1-dichloroethene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,2-dichloroethane | 0.6 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,4-dichlorobenzene | 3 | 0.5 | U | U | U | U | U | U | U | 0.180 F | U | U | U | U | U |
| acetone | 50 | 10 | 1.1 F | 1.12 F | U | U | U | U | U | U | U | U | U | U | 5.06 F |
| benzene | 1 | 0.1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| carbon disulfide | 1,000 | 0.5 | U | U | U | U | U | U | U | U | U | U | U | UJ | U |
| chloroform | 7 | 0.3 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| chloromethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| cis-1,2-dichloroethene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| dichlorodifluoromethane | 5* | 1 | U | U | UF | U | U | U | U | U | U | U | U | U | U |
| hexachlorobutadiene | 0.5* | 0.6 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| methylene chloride | 5* | 1 | U | 0.42 F | U | U | U | U | 0.170 F | U | U | U | U | U | U |
| trichloroethene (TCE) | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| toluene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | 0.190 F |
| trans-1,2-dichloroethene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| trichlorofluoromethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| vinyl chloride | 2 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| xylenes, Total | -- | 1.5 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| **Total VOCs (µg/L)** | | | **1.1** | **1.54** | **0** | **0** | **0** | **0** | **0.170** | **0.180** | **0** | **0** | **0** | **0** | **5.25** |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 110 | 120 | 150 | 150 | 110 | 100 | 120 | 130 | 120 | 92 | 110 | 110 | 96 |
| ammonia | 2 | 0.2 | U | U | U | U | 0.026 F | U | 0.025 F | U | 0.043 F | 0.027 F | U | U | 0.13 |
| BOD5 | -- | 2.4 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| bromide | 2 | 0.5 | U | U | U | U | U | U | U | U | U | U | UJ | U | U |
| COD | -- | 5 | U | U | 9.4 F | 19 | 8.5 F | U | 4.1 F | 8.5 F | U | U | U | 28 | U |
| chloride | 250 | 1 | 2.9 | 3 | 2.5 | 2.3 | 2.4 | 2.1 | 2.0 | 2.0 | 1.9 | 1.7 | 3.4 | 1.7 | 1.6 |
| color | 15 | 5 | **50** | NA | NA | NA | U | NA | NA | U | U | NA | NA | U | NA |
| cyanide, Total | 200 | 0.02 | 0.0076 F | NA | NA | NA | U | NA | NA | 0.0043 F | 0.0047 F | NA | NA | NA | NA |
| Fluoride | 1.5 | 1 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| hardness, Total | -- | 1 | 99.5 | 130.0 | 130 | 160 | 120 | 76 | 140 | 140 | 120 | 120 | 120 | 120 | 110 |
| nitrate | 10 | 1 | 0.13 F | 0.18 F | 0.18 | 0.21 | 0.16 B | 0.15 B | 0.22 | 0.19 | 0.16 | 0.14 | 0.17 | 0.18 | 0.15 |
| TKN | 1 | 0.2 | 0.38 | U | U | U | U | U | 0.060 F | U | U | 0.12 F | U | U | 0.16 F |
| sulfate | 250 | 1 | 7.8 | 8.3 | 8.2 | 8.6 | 8.5 | 8.2 | 8.2 | 8.6 | 8.3 | 8.3 | 8.5 | 8.9 | 8.5 |
| TDS | 500 | 10 | 135 | 150 | 150 | 170 | 150 | 140 | 130 | 140 | 99 | 100 | 140 | 81 | 120 |
| TOC | -- | 1 | 0.44 F | 0.72 F | 0.87 F | 0.97 F | 0.54 F | 0.71 F | 0.80 F | 0.86 F | U | 0.44 F | 0.64 F | U | U |

For notes, please refer to the end of the tables section.

**Table 6-2**
**LF009 (Landfill 6 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF6VMW-17D | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Date of Collection** | | | **9/14/2009** | **3/22/2010** | **9/15/2010** | **6/7/2011** | **6/20/2012** | **6/13/2013** | **6/3/2014** | **6/3/2015** | | | | | |
| **Sample ID No.** | | | **LF6VM17D48NA** | **LF6VM17D48OA** | **LF6VM17D48PA** | **LF6VM17D48PA** | **LF6VM17D48QA** | **LF6VM17D48RA** | **LF6VM17D48RA** | **LF6VM17D48SA** | | | | | |
| **Depth to Water (ft)** | | | **14.00** | **12.06** | **15.05** | **9.86** | **12.58** | **12.72** | **12.04** | **12.05** | | | | | |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| 1,1-dichloroethene | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| 1,2-dichloroethane | 0.6 | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| 1,4-dichlorobenzene | 3 | 0.5 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| acetone | 50 | 10 | U | U | 1.97 FB | NA | NA | NA | NA | NA | | | | | |
| benzene | 1 | 0.1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| carbon disulfide | 1,000 | 0.5 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| chloroform | 7 | 0.3 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| chloromethane | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| cis-1,2-dichloroethene | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| dichlorodifluoromethane | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| hexachlorobutadiene | 0.5* | 0.6 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| methylene chloride | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| trichloroethene (TCE) | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| toluene | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| trans-1,2-dichloroethene | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| trichlorofluoromethane | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| vinyl chloride | 2 | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| xylenes, Total | -- | 1.5 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| **Total VOCs (µg/L)** | | | **0** | **0** | **1.97** | NA | NA | **NA** | **NA** | **NA** | | | | | |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 86 | 98 | 84 | 91 | 86 | 94 | 80 | 79 | | | | | |
| ammonia | 2 | 0.2 | U | U | U | 0.079 F | 0.090 JB | 0.023 J | 1.2 B | U | | | | | |
| BOD5 | -- | 2.4 | U | U | U | U | U | U | U | U | | | | | |
| bromide | 2 | 0.5 | 1.6 | U | U | U | U | U | U | U | | | | | |
| COD | -- | 5 | U | U | U | U | U | 6.7 J | U | U | | | | | |
| chloride | 250 | 1 | 1.6 | 1.5 | 1.5 | 1.3 F | 1.3 J | 1.1 J | 0.99 J | 1.3 J | | | | | |
| color | 15 | 5 | NA | U | NA | U | U | U | U | U | | | | | |
| cyanide, Total | 200 | 0.02 | NA | 0.0083 F | U | NA | U | U | U | U | | | | | |
| Fluoride | 1.5 | 1 | NA | NA | NA | U | U | 0.063 J | 0.065 J | 0.075 J | | | | | |
| hardness, Total | -- | 1 | 110 | 110 | 85 | 100 | 93 | 9.0 | 100 | 120 | | | | | |
| nitrate | 10 | 1 | 0.15 B | 0.16 B | U | 0.16 F | 0.28 J | 0.35 J | 0.62 | 0.7 | | | | | |
| TKN | 1 | 0.2 | U | 0.23 B | 0.16 FB | 0.38 F | 0.64 JB | 0.35 J | U | U | | | | | |
| sulfate | 250 | 1 | 8.7 | 9.3 B | 9.5 | 10 | 11 | 11 | 10 | 8.6 | | | | | |
| TDS | 500 | 10 | 100 | 98 B | 100 | 110 | 98 | 110 | 87 | 100 | | | | | |
| TOC | -- | 1 | 0.52 F | 0.60 FB | U | 0.49 F | 0.50 J | 0.33 J | 0.54 J | 0.61 JB | | | | | |

For notes, please refer to the end of the tables section.

**Table 6-2**
**LF009 (Landfill 6 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF6VMW-17S | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 6/28/2006 | 9/18/2006 | 12/15/2006 | 4/13/2007 | 6/21/2007 | 9/28/2007 | 12/10/2007 | 4/3/2008 | 6/18/2008 | 10/2/2008 | 12/9/2008 | 4/15/2009 | 6/29/2009 |
| Sample ID No. | | | LF6VM17S13AA | LF6VM17S12BB | LF6VM17S12CA | LF6VM17S12DA | LF6VM17S12EA | LF6VM17S12FA | LF6VM17S12GA | LF6VM17S15HA | LF6VM17S15IA | LF6VM17S13JA | LF6VM17S13KA | LF6VM17S15LA | LF6VM17S15MA |
| Depth to Water (ft) | | | -- | 12.26 | 9.27 | 7.77 | 11.08 | 13.40 | 12.07 | 6.38 | 11.08 | 12.78 | 10.60 | 8.77 | 10.89 |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,1-dichloroethene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,2-dichloroethane | 0.6 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,4-dichlorobenzene | 3 | 0.5 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| acetone | 50 | 10 | 1.3 F | U | U | 1.70 F | U | U | 2.07 | U | U | U | U | 1.37 F | 4.61 F |
| benzene | 1 | 0.1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| carbon disulfide | 1,000 | 0.5 | U | U | U | U | U | U | U | U | U | U | U | UJ | U |
| chloroform | 7 | 0.3 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| chloromethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | 0.340 F | U | U |
| cis-1,2-dichloroethene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| dichlorodifluoromethane | 5* | 1 | U | U | UF | U | UF | UF | U | U | U | U | U | U | U |
| hexachlorobutadiene | 0.5* | 0.6 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| methylene chloride | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| trichloroethene (TCE) | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| toluene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | 0.190 F |
| trans-1,2-dichloroethene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| trichlorofluoromethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| vinyl chloride | 2 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| xylenes, Total | -- | 1.5 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| **Total VOCs (µg/L)** | | | **1.3** | **0** | **0** | **1.7** | **0** | **0** | **2.07** | **0** | **0** | **0** | **0.34** | **1.37** | **4.8** |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 3.9 F | U | U | U | U | U | U | U | U | U | U | U | U |
| ammonia | 2 | 0.2 | U | U | 0.10 | 0.014 F | 0.041 F | 0.034 F | 0.038 F | 0.038 F | 0.050 B | 0.014 F | U | 0.036 F | U |
| BOD5 | -- | 2.4 | UJ | U | U | U | U | U | U | U | U | U | U | U | U |
| bromide | 2 | 0.5 | U | U | U | U | U | U | U | U | U | U | UJ | U | U |
| COD | -- | 5 | 12.3 | 14 B | 24 B | 26 | 17 B | 20 | 28 B | 6.3 F | 17 | 15 | 6.0 F | U | 9.0 F |
| chloride | 250 | 1 | 1.9 | 0.66 F | 0.46 F | 0.78 F | 0.72 F | 0.77 F | 0.74 F | 0.62 F | 0.52 F | 0.62 F | 2.4 | 0.52 F | 0.63 F |
| color | 15 | 5 | U | NA | NA | NA | U | NA | NA | U | U | NA | NA | U | NA |
| cyanide, Total | 200 | 0.02 | 0.0076 F | NA | NA | NA | U | NA | NA | 0.012 F | U | NA | NA | NA | NA |
| Fluoride | 1.5 | 1 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| hardness, Total | -- | 1 | 31.9 | 80 B | 36 | 72 | 28 | U | 150.0 | 28 | 40 | 32 | 44 | 56 | 44 |
| nitrate | 10 | 1 | 1 | 1.1 | 1.3 | 1.3 | 1.6 | 1.0 | 1.3 | 1.9 | 3.0 | 1.5 | 3.3 | 4.2 | 3.5 J |
| TKN | 1 | 0.2 | 0.058 F | 0.19 F | 0.31 F | 0.16 F | 0.11 F | 0.33 | 0.63 | 0.42 | 0.078 F | 0.36 | 0.13 F | 0.45 B | 0.21 |
| sulfate | 250 | 1 | 33.9 | 33 | 30 | 25 | 25 | 24 | 25 | 26 | 22 | 21 | 18 | 20 | 16 |
| TDS | 500 | 10 | 87 | 100 | 87 | 50 | 60 | 63 | 36 | 74 | 82 | 59 | 57 | 62 | 62 |
| TOC | -- | 1 | 2.5 | 3.9 | 5.5 | 4.3 | 3.7 B | 5.5 | 4.7 | 8.9 | 5.1 | 4.5 | 3.9 | 8.4 | 3.7 |

For notes, please refer to the end of the tables section.

**Table 6-2**
**LF009 (Landfill 6 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF6VMW-17S | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Date of Collection** | | | **9/15/2009** | **3/22/2010** | **9/15/2010** | **6/7/2011** | **6/20/2012** | **6/18/2013** | **6/2/2014** | **6/3/2015** | | | | | |
| **Sample ID No.** | | | **LF6VM17S13NA** | **LF6VM17S15OA** | **LF6VM17S15PA** | **LF6VM17S15PA** | **LF6VM17S15QA** | **LF6VM17S15RA** | **LF6VM17S15RA** | **LF6VM17S15SA** | | | | | |
| **Depth to Water (ft)** | | | **13.03** | **10.60** | **14.12** | **8.27** | **11.41** | **10.81** | **9.74** | **10.81** | | | | | |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| 1,1-dichloroethene | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| 1,2-dichloroethane | 0.6 | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| 1,4-dichlorobenzene | 3 | 0.5 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| acetone | 50 | 10 | U | U | 2.48 FB | NA | NA | NA | NA | NA | | | | | |
| benzene | 1 | 0.1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| carbon disulfide | 1,000 | 0.5 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| chloroform | 7 | 0.3 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| chloromethane | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| cis-1,2-dichloroethene | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| dichlorodifluoromethane | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| hexachlorobutadiene | 0.5* | 0.6 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| methylene chloride | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| trichloroethene (TCE) | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| toluene | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| trans-1,2-dichloroethene | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| trichlorofluoromethane | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| vinyl chloride | 2 | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| xylenes, Total | -- | 1.5 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| **Total VOCs (µg/L)** | | | **0** | **0** | **2.48** | NA | NA | NA | NA | NA | | | | | |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 80 | U | U | 1.8 F | 3.8 J | 4.7 J | 4.3 J | 8.3 | | | | | |
| ammonia | 2 | 0.2 | 0.018 F | U | U | 0.20 | 0.076 JB | U | 0.059 JB | U | | | | | |
| BOD5 | -- | 2.4 | U | U | U | U | U | U | 1.5 JB | U | | | | | |
| bromide | 2 | 0.5 | U | U | U | U | U | U | U | U | | | | | |
| COD | -- | 5 | 25 | 12 B | 17 | 34 F | 25 | 22 | 11 J | 15 J | | | | | |
| chloride | 250 | 1 | 0.70 F | 0.95 F | 1.4 | 0.46 F | 0.54 J | 0.79 J | 1.4 J | 1.3 J | | | | | |
| color | 15 | 5 | NA | U | NA | U | U | U | U | U | | | | | |
| cyanide, Total | 200 | 0.02 | NA | 0.0081 F | U | NA | U | U | U | U | | | | | |
| Fluoride | 1.5 | 1 | NA | NA | NA | 0.063 F | 0.20 J | U | 0.25 J | 0.069 J | | | | | |
| hardness, Total | -- | 1 | 24 | 31 | 30 | 47 | 74 | 24 | 30 | 26 | | | | | |
| nitrate | 10 | 1 | 3.0 | 4.4 | 4.5 F | 3.4 | 2.2 | 1.1 | 0.30 J | 0.8 | | | | | |
| TKN | 1 | 0.2 | 0.56 | 0.27 B | 0.72 B | 0.58 F | 0.85 JB | 0.53 J | U | 0.20 J | | | | | |
| sulfate | 250 | 1 | 15 | 15 B | 11 | 21 | 13 | 11 | U | 6.6 | | | | | |
| TDS | 500 | 10 | 65 | 52 B | 78 | 67 | 34 | 34 | 19 | 38 | | | | | |
| TOC | -- | 1 | 4.8 | 3.2 B | 3.1 B | 8.6 | 4.3 | 3.1 | 4.2 | 4.4 | | | | | |

For notes, please refer to the end of the tables section.

**Table 6-2**
**LF009 (Landfill 6 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF6VMW-18 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 6/28/2006 | 9/18/2006 | 12/12/2006 | 4/13/2007 | 6/21/2007 | 9/28/2007 | 12/12/2007 | 4/3/2008 | 6/18/2008 | 9/30/2008 | 12/9/2008 | 4/14/2009 | 6/29/2009 |
| Sample ID No. | | | LF6VM1850AA | LF6VM1850BB | LF6VM1850CA | LF6VM1850DA | LF6VM1850EA | LF6VM1850FA | LF6VM1850GA | LF6VM1850HA | LF6VM1850IA | LF6VM1850JA | LF6VM1850KA | LF6VM1850LA | LF6VM1850MA |
| Depth to Water (ft) | | | 11.28 | 11.67 | 10.58 | 9.61 | 10.31 | 11.43 | 9.97 | 9.78 | 10.50 | 11.29 | 10.97 | 10.28 | 10.70 |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,1-dichloroethene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,2-dichloroethane | 0.6 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,4-dichlorobenzene | 3 | 0.5 | U | U | U | U | U | U | U | 0.200 F | U | U | U | U | U |
| acetone | 50 | 10 | U | U | U | U | U | U | U | U | U | U | U | U | 7.00 F |
| benzene | 1 | 0.1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| carbon disulfide | 1,000 | 0.5 | U | U | U | U | U | U | U | U | U | U | U | UF | U |
| chloroform | 7 | 0.3 | U | U | U | U | U | U | U | 0.120 F | U | U | U | U | U |
| chloromethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | 0.400 F | U | U |
| cis-1,2-dichloroethene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| dichlorodifluoromethane | 5* | 1 | U | U | UJ | U | U | U | U | U | U | U | U | U | U |
| hexachlorobutadiene | 0.5* | 0.6 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| methylene chloride | 5* | 1 | U | U | U | U | U | U | 0.110 F | U | U | U | U | U | U |
| m,p-xylene | 5* | 2 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| trichloroethene (TCE) | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| toluene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | 0.210 F |
| trans-1,2-dichloroethene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| trichlorofluoromethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| vinyl chloride | 2 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| xylenes, Total | -- | 1.5 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| **Total VOCs (µg/L)** | | | **0** | **0** | **0** | **0** | **0** | **0** | **0.110** | **0.320** | **0** | **0** | **0.400** | **0** | **8.350** |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 274 | 260 | 250 | 260 | 270 | 270 | 250 | 220 | 240 | 250 | 230 | 210 | 220 |
| ammonia | 2 | 0.2 | U | U | U | 0.016 F | 0.036 F | U | U | U | 0.052 B | 0.014 F | U | U | U |
| BOD5 | -- | 2.4 | UJ | U | U | U | U | U | U | U | U | U | U | U | U |
| bromide | 2 | 0.5 | U | 0.044 F | U | U | 0.038 F | 0.049 F | 0.050 F | 0.038 F | 0.052 F | 0.047 F | UJ | 0.047 F | 0.039 F |
| COD | -- | 5 | 14 | U | 9.4 F | 13 | 8.5 F | 4.1 F | 6.3 F | 4.1 F | 20 | 8.2 F | U | 6.0 F | U |
| chloride | 250 | 1 | 64.7 | 67 | 63 | 63 | 62 | 52 | 51 | 88 | 100 | 95 | 95 | 110 | 100 F |
| color | 15 | 5 | **20** | NA | NA | NA | U | NA | NA | U | U | NA | NA | U | NA |
| cyanide, Total | 200 | 0.02 | 0.0076 F | NA | NA | NA | U | NA | NA | 0.0098 F | U | NA | NA | NA | NA |
| Fluoride | 1.5 | 1 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| hardness, Total | -- | 1 | 315 | 410 | 380 | 360 | 370 | 320 | 340 | 340 | 410 | 380 | 330 | 340 | 360 |
| nitrate | 10 | 1 | 0.655 | 0.14 F | 0.092 F | 0.11 | 0.24 | 0.21 B | 0.27 | 0.058 F | 0.082 F | 0.046 F | U | U | U |
| TKN | 1 | 0.2 | 0.15 F | 0.081 F | 0.070 F | U | U | 0.062 F | U | U | U | U | U | U | U |
| sulfate | 250 | 1 | 46.5 | 56 | 52 | 49 | 54 | 50 | 44 | 39 | 41 | 43 | 38 | 38 | 39 |
| TDS | 500 | 10 | 420 | 480 | 470 | 420 | **520** | 330 | 410 | 290 | 420 | 480 | 450 | 430 | 490 |
| TOC | -- | 1 | U | 0.72 F | 1.1 | 0.56 F | 1.3 B | 0.92 F | 3.0 | 1.6 | 0.48 F | 0.53 F | 0.86 F | U | 0.65 F |

For notes, please refer to the end of the tables section.

**Table 6-2**
**LF009 (Landfill 6 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF6VMW-18 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Date of Collection** | | | **9/14/2009** | **3/22/2010** | **9/14/2010** | **6/6/2011** | **6/18/2012** | **6/13/2013** | **6/3/2014** | **6/4/2015** | | | | | |
| **Sample ID No.** | | | **LF6VM1850NA** | **LF6VM1850OA** | **LF6VM1850PA** | **LF6VM1850PA** | **LF6VM1850QA** | **LF6VM1850RA** | **LF6VM1850RA** | **LF6VM1850SA** | | | | | |
| **Depth to Water (ft)** | | | **11.81** | **11.41** | **13.58** | **10.34** | **11.44** | **11.23** | **10.70** | **11.17** | | | | | |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| 1,1-dichloroethene | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| 1,2-dichloroethane | 0.6 | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| 1,4-dichlorobenzene | 3 | 0.5 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| acetone | 50 | 10 | U | U | 2.30 F | NA | NA | NA | NA | NA | | | | | |
| benzene | 1 | 0.1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| carbon disulfide | 1,000 | 0.5 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| chloroform | 7 | 0.3 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| chloromethane | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| cis-1,2-dichloroethene | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| dichlorodifluoromethane | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| hexachlorobutadiene | 0.5* | 0.6 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| methylene chloride | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| m,p-xylene | 5* | 2 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| trichloroethene (TCE) | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| toluene | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| trans-1,2-dichloroethene | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| trichlorofluoromethane | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| vinyl chloride | 2 | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| xylenes, Total | -- | 1.5 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| **Total VOCs (µg/L)** | | | **0** | **0** | **2.30** | NA | NA | **NA** | **NA** | **NA** | | | | | |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 260 | 240 | 240 | 230 | 260 | 220 | 240 | 230 | | | | | |
| ammonia | 2 | 0.2 | 0.038 F | U | U | 0.064 F | 0.096 JB | U | 0.041 JB | 0.076 JB | | | | | |
| BOD5 | -- | 2.4 | U | U | U | U | U | U | 1.6 J | U | | | | | |
| bromide | 2 | 0.5 | 0.053 F | U | U | U | U | U | U | U | | | | | |
| COD | -- | 5 | U | 5.4 FB | U | U | 7.3 J | U | 8.0 J | 4.1 J | | | | | |
| chloride | 250 | 1 | 110 | 110 | 120 | 120 | 92 | 120 | 110 | 110 | | | | | |
| color | 15 | 5 | NA | U | NA | U | U | U | U | 15 JB | | | | | |
| cyanide, Total | 200 | 0.02 | NA | 0.0083 F | U | NA | U | U | U | U | | | | | |
| Fluoride | 1.5 | 1 | NA | NA | NA | NA | NA | U | 39 | 0.090 J | | | | | |
| hardness, Total | -- | 1 | 360 | 350 | 340 | 320 | 310 | 34 | 340 | 330 | | | | | |
| nitrate | 10 | 1 | 0.030 F | U | U | U | U | U | U | U | | | | | |
| TKN | 1 | 0.2 | U | 0.19 FB | 0.27 B | 0.47 F | 0.74 JB | 0.49 J | U | U | | | | | |
| sulfate | 250 | 1 | 42 | 39 | 42 | 39 | 42 | 39 J | U | 32 | | | | | |
| TDS | 500 | 10 | 470 | 460 | 480 | 460 | 430 | 440 | 440 | 460 | | | | | |
| TOC | -- | 1 | 0.62 F | 0.67 FB | 0.82 F | 0.80 F | 0.67 J | 0.51 J | 1.0 | 0.53 J | | | | | |

For notes, please refer to the end of the tables section.

**Table 6-2**
**LF009 (Landfill 6 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF6VMW-19 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 6/28/2006 | 9/18/2006 | 12/12/2006 | 4/13/2007 | 6/20/2007 | 9/28/2007 | 12/10/2007 | 4/7/2008 | 6/18/2008 | 9/30/2008 | 12/9/2008 | 4/14/2009 | 6/29/2009 |
| Sample ID No. | | | LF6VM1926AA | LF6VM1926BB | LF6VM1926CA | LF6VM1926DA | LF6VM1926EA | LF6VM1926FA | LF6VM1926GA | LF6VM1926HA | LF6VM1926IA | LF6VM1926JA | LF6VM1926KA | LF6VM1926LA | LF6VM1926MA |
| **Depth to Water (ft)** | | | **9.03** | **9.37** | **8.31** | **7.02** | **7.65** | **9.03** | **8.78** | **7.38** | **7.95** | **8.90** | **8.68** | **7.96** | **9.30** |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,1-dichloroethene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,2-dichloroethane | 0.6 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,4-dichlorobenzene | 3 | 0.5 | U | U | U | U | U | U | U | 0.180 F | U | U | U | U | U |
| acetone | 50 | 10 | 1 F | U | U | U | U | U | U | U | U | U | U | U | 2.49 F |
| benzene | 1 | 0.1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| carbon disulfide | 1,000 | 0.5 | U | U | U | U | U | U | U | U | U | U | U | UJ | U |
| chloroform | 7 | 0.3 | U | 1.07 | 0.290 F | 0.100 F | 0.850 | 1.450 | 0.640 | 0.150 F | 0.470 F | 1.57 | 0.570 | 0.130 F | 0.770 |
| chloromethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| cis-1,2-dichloroethene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| dichlorodifluoromethane | 5* | 1 | U | U | UJ | U | U | U | U | U | U | U | U | U | U |
| hexachlorobutadiene | 0.5* | 0.6 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| methylene chloride | 5* | 1 | U | U | U | U | U | 0.120 F | U | U | U | U | U | U | U |
| m,p-xylene | 5* | 2 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| trichloroethene (TCE) | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| toluene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| trans-1,2-dichloroethene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| trichlorofluoromethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| vinyl chloride | 2 | 1 | U | U | U | U | U | UJ | U | U | U | U | U | U | U |
| xylenes, Total | -- | 1.5 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| **Total VOCs (µg/L)** | | | **1** | **1.07** | **0.29** | **0.1** | **0.850** | **1.570** | **0.640** | **0.330** | **0.470** | **1.570** | **0.570** | **0.130** | **3.260** |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 106 | 110 | 130 | 140 | 92 | 120 | 150 | 250 | 150 | 110 | 180 | 290 | 190 |
| ammonia | 2 | 0.2 | U | U | U | U | 0.027 F | U | 0.025 F | 0.061 | 0.059 B | 0.012 F | U | U | U |
| BOD5 | -- | 2.4 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| bromide | 2 | 0.5 | U | 0.014 F | U | U | U | 0.044 F | U | U | 0.036 F | 0.042 F | UJ | 0.015 F | 0.016 F |
| COD | -- | 5 | 0.0076 F | 5 F | 9.4 F | 19 | 8.5 F | U | U | 6.3 F | 4.1 F | 58 | U | 3.7 F | U |
| chloride | 250 | 1 | 3.4 | 40 | 10 | 6.0 | 90 | 100 | 23 | 7.9 | 76 | 120 | 24 | 7.5 | 44 J |
| color | 15 | 5 | **50** | NA | NA | NA | U | NA | NA | U | U | NA | NA | U | NA |
| cyanide, Total | 200 | 0.02 | 0.0076 F | NA | NA | NA | U | NA | NA | 0.014 F | U | NA | NA | NA | NA |
| Fluoride | 1.5 | 1 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| hardness, Total | -- | 1 | 115 | 160 | 190 | 200 | 180 | 170 | 190 | 280 | 240 | 260 | 300 | 340 | 250 |
| nitrate | 10 | 1 | 0.55 F | 1.6 | 0.95 | 0.87 | 1.4 | 1.6 | 0.68 | 0.49 | 1.2 | 1.5 | 0.65 | 0.82 | 1.4 |
| TKN | 1 | 0.2 | 0.16 F | U | U | U | 0.089 F | 0.078 F | U | NA | U | 0.076 F | **3.3** | 0.12 | U |
| sulfate | 250 | 1 | 15.6 | 23 | 42 | 42 | 20 | 17 | 17 | 27 | 24 | 20 | 23 | 28 | 23 |
| TDS | 500 | 10 | 158 | 230 | 250 | 220 | 370 | 390 | 170 | 310 | 350 | 350 | 280 | 330 | 340 |
| TOC | -- | 1 | 0.65 F | 0.5 F | 1.2 | 1.7 | U | 0.47 F | 1.2 | 1.2 | 0.69 F | 0.43 F | 0.85 F | U | 0.60 F |

For notes, please refer to the end of the tables section.

**Table 6-2**
**LF009 (Landfill 6 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF6VMW-19 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Date of Collection** | | | **9/14/2009** | **3/22/2010** | **9/14/2010** | **6/6/2011** | **6/18/2012** | **6/13/2013** | **6/2/2014** | **6/4/2015** | | | | | |
| **Sample ID No.** | | | **LF6VM1926NA** | **LF6VM1926OA** | **LF6VM1926PA** | **LF6VM1926PA** | **LF6VM1926QA** | **LF6VM1926RA** | **LF6VM1926RA** | **LF6VM1926SA** | | | | | |
| **Depth to Water (ft)** | | | **9.31** | **9.34** | **10.55** | **8.05** | **9.15** | **9.43** | **9.42** | **8.98** | | | | | |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| 1,1-dichloroethene | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| 1,2-dichloroethane | 0.6 | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| 1,4-dichlorobenzene | 3 | 0.5 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| acetone | 50 | 10 | U | U | 2.20 F | NA | NA | NA | NA | NA | | | | | |
| benzene | 1 | 0.1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| carbon disulfide | 1,000 | 0.5 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| chloroform | 7 | 0.3 | 1.87 | 0.5 | 1.97 | NA | NA | NA | NA | NA | | | | | |
| chloromethane | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| cis-1,2-dichloroethene | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| dichlorodifluoromethane | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| hexachlorobutadiene | 0.5* | 0.6 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| methylene chloride | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| m,p-xylene | 5* | 2 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| trichloroethene (TCE) | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| toluene | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| trans-1,2-dichloroethene | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| trichlorofluoromethane | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| vinyl chloride | 2 | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| xylenes, Total | -- | 1.5 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| **Total VOCs (µg/L)** | | | **1.87** | **0.5** | **4.17** | NA | NA | NA | NA | NA | | | | | |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 140 | 320 | 160 | 160 | 190 | 280 | 200 | 270 | | | | | |
| ammonia | 2 | 0.2 | 0.042 F | U | U | 0.054 F | 0.099 JB | U | 0.026 JB | 0.025 JB | | | | | |
| BOD5 | -- | 2.4 | U | U | U | U | U | U | U | U | | | | | |
| bromide | 2 | 0.5 | 0.037 F | U | U | U | U | U | U | U | | | | | |
| COD | -- | 5 | U | U | U | U | 5.0 J | U | U | U | | | | | |
| chloride | 250 | 1 | 77 | 21 | 78 | 24 | 82 | 30 | 39 | 55 | | | | | |
| color | 15 | 5 | NA | U | NA | U | U | U | U | 5.0 JB | | | | | |
| cyanide, Total | 200 | 0.02 | NA | 0.0089 F | U | NA | U | U | U | U | | | | | |
| Fluoride | 1.5 | 1 | NA | NA | NA | NA | NA | U | 0.075 J | 0.074 J | | | | | |
| hardness, Total | -- | 1 | 200 | 360 | 250 | 190 | 250 | 33 | 230 | 310 | | | | | |
| nitrate | 10 | 1 | 2.0 | 1.4 | 1.8 | 4.9 | 3.4 | 5.8 | 1.3 | 0.86 | | | | | |
| TKN | 1 | 0.2 | U | 0.24 B | 0.28 B | 0.36 F | 0.58 JB | 0.50 J | U | U | | | | | |
| sulfate | 250 | 1 | 17 | 23 B | 18 | 11 | 18 | 12 | 12 | 8.9 | | | | | |
| TDS | 500 | 10 | 320 | 370 | 290 | 250 | 340 | 380 | 280 | 410 | | | | | |
| TOC | -- | 1 | 0.44 F | 1.3 B | 0.78 F | 1.1 | 0.91 J | 1.2 | 1.3 | 0.96 J | | | | | |

For notes, please refer to the end of the tables section.

**Table 6-2**
**LF009 (Landfill 6 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF6VMW-20 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Date of Collection** | | | **6/28/2006** | **9/18/2006** | **12/12/2006** | **4/11/2007** | **6/20/2007** | **9/27/2007** | **12/10/2007** | **4/7/2008** | **6/17/2008** | **9/30/2008** | **12/9/2008** | **4/14/2009** | **6/29/2009** |
| **Sample ID No.** | | | **LF6VM2068AA** | **LF6VM2068BB** | **LF6VM2068CA** | **LF6VM2068DA** | **LF6VM2068EA** | **LF6VM2068FA** | **LF6VM2068GA** | **LF6VM2068HA** | **LF6VM2068IA** | **LF6VM2068JA** | **LF6VM2068KA** | **LF6VM2068LA** | **LF6VM2068MA** |
| **Depth to Water (ft)** | | | **11.04** | **11.40** | **10.25** | **8.97** | **9.20** | **4.78** | **10.85** | **9.28** | **9.54** | **10.74** | **10.73** | **9.95** | **10.10** |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,1-dichloroethene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,2-dichloroethane | 0.6 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,4-dichlorobenzene | 3 | 0.5 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| acetone | 50 | 10 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| benzene | 1 | 0.1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| carbon disulfide | 1,000 | 0.5 | U | U | U | U | U | U | U | U | U | U | U | UJ | U |
| chloroform | 7 | 0.3 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| chloromethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | 0.340 F | U | U |
| cis-1,2-dichloroethene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| dichlorodifluoromethane | 5* | 1 | U | U | UJ | U | U | U | U | U | U | U | U | U | U |
| hexachlorobutadiene | 0.5* | 0.6 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| methylene chloride | 5* | 1 | U | U | 0.140 F | U | U | U | 0.100 | U | U | U | U | U | U |
| m,p-xylene | 5* | 2 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| trichloroethene (TCE) | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| toluene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| trans-1,2-dichloroethene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| trichlorofluoromethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| vinyl chloride | 2 | 1 | U | U | U | U | U | UJ | U | U | U | U | U | U | U |
| xylenes, Total | -- | 1.5 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| **Total VOCs (µg/L)** | | | **0** | **0** | **0.14** | **0** | **0** | **0** | **0.100** | **0** | **0** | **0** | **0.34** | **0** | **0** |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 140 | 120 | 130 | 130 | 150 | 160 | 150 | 160 | 180 | 160 | 170 | 190 | 180 |
| ammonia | 2 | 0.2 | 0.22 | 0.081 | U | U | 0.031 F | 0.011 F | 0.039 F | 0.09 | 0.093 B | U | U | U | U |
| BOD5 | -- | 2.4 | UJ | U | U | U | U | U | U | U | U | U | U | U | U |
| bromide | 2 | 0.5 | U | 0.077 F | 0.044 F | U | 0.10 F | U | 0.088 F | 0.052 F | U | 0.061 F | UJ | 0.035 F | U |
| COD | -- | 5 | U | 9.2 F | 5.3 F | 17 | 15 | U | 6.3 F | 6.3 F | U | 8.2 F | U | 6.0 F | U |
| chloride | 250 | 1 | **463** | **400** | **340** | **470** | **470** | 35 | **390** | 200 | 180 | 250 | 230 | 110 | 57 |
| color | 15 | 5 | **400** | NA | NA | NA | 15 | NA | NA | **20** | **25** | NA | NA | 10 | NA |
| cyanide, Total | 200 | 0.02 | 0.0076 F | NA | NA | NA | 0.018 F | NA | NA | 0.016 F | 0.046 | NA | NA | NA | NA |
| Fluoride | 1.5 | 1 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| hardness, Total | -- | 1 | 600 | 450 | 400 | 420 | 340 | 270 | 340 | 210 | 200 | 240 | 210 | 160 | 120 |
| nitrate | 10 | 1 | 0.87 F | 1.3 | 1.5 | 1.4 | 1.5 | 0.11 | 1.2 | 0.9 | 0.79 F | 0.92 | 0.98 | 0.98 | 0.93 |
| TKN | 1 | 0.2 | 0.46 | 0.12 F | U | U | U | 0.071 F | U | U | U | U | U | U | U |
| sulfate | 250 | 1 | 10 | 14 | 16 | 12 | 15 | 1.1 | 15 | 14 | 13 | 11 | 13 | 12 | 7.7 |
| TDS | 500 | 10 | **806** | **1,100** | **890** | **1,100** | **1,100** | **860** | **620** | **520** | 490 | **600** | **590** | 390 | 310 |
| TOC | -- | 1 | 1 B | 0.93 F | 0.83 F | 0.51 F | 0.51 F | 0.53 F | 0.70 F | 0.71 F | U | U | 0.73 F | U | U |

For notes, please refer to the end of the tables section.

**Table 6-2**
**LF009 (Landfill 6 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF6VMW-20 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Date of Collection** | | | **9/14/2009** | **3/22/2010** | **9/15/2010** | **6/6/2011** | **6/18/2012** | **6/13/2013** | **6/2/2014** | **6/10/2015** | | | | | |
| **Sample ID No.** | | | **LF6VM2068NA** | **LF6VM2068OA** | **LF6VM2068PA** | **LF6VM2068PA** | **LF6VM2068QA** | **LF6VM2068RA** | **LF6VM2068RA** | **LF6VM2068SA** | | | | | |
| **Depth to Water (ft)** | | | **11.20** | **11.65** | **12.71** | **10.08** | **11.09** | **11.68** | **10.42** | **11.10** | | | | | |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| 1,1-dichloroethene | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| 1,2-dichloroethane | 0.6 | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| 1,4-dichlorobenzene | 3 | 0.5 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| acetone | 50 | 10 | U | U | 1.21 F | NA | NA | NA | NA | NA | | | | | |
| benzene | 1 | 0.1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| carbon disulfide | 1,000 | 0.5 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| chloroform | 7 | 0.3 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| chloromethane | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| cis-1,2-dichloroethene | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| dichlorodifluoromethane | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| hexachlorobutadiene | 0.5* | 0.6 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| methylene chloride | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| m,p-xylene | 5* | 2 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| trichloroethene (TCE) | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| toluene | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| trans-1,2-dichloroethene | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| trichlorofluoromethane | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| vinyl chloride | 2 | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| xylenes, Total | -- | 1.5 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| **Total VOCs (µg/L)** | | | **0** | **0** | **1.21** | NA | NA | NA | NA | NA | | | | | |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 180 | 170 | 160 | 190 | 180 | 110 | 120 | 120 | | | | | |
| ammonia | 2 | 0.2 | U | U | U | 0.056 F | 0.11 B | U | 0.035 JB | U | | | | | |
| BOD5 | -- | 2.4 | U | U | U | U | U | U | 1.3 JB | U | | | | | |
| bromide | 2 | 0.5 | 0.028 F | U | U | U | U | U | U | U | | | | | |
| COD | -- | 5 | U | U | U | U | 8.0 J | 7.7 J | U | U | | | | | |
| chloride | 250 | 1 | 42 | 68 | 54 | 96 | 120 | 38 | 29 | 25 | | | | | |
| color | 15 | 5 | NA | U | NA | U | U | U | U | **500** | | | | | |
| cyanide, Total | 200 | 0.02 | NA | 0.0082 F | U | NA | U | U | U | U | | | | | |
| Fluoride | 1.5 | 1 | NA | NA | NA | NA | NA | U | 0.068 J | U | | | | | |
| hardness, Total | -- | 1 | 110 | 140 | 130 | 140 | 130 | 13 | 140 | 180 | | | | | |
| nitrate | 10 | 1 | 1.1 | 1.0 B | 0.76 F | 13.0 | 1.5 | 1.5 | 1.0 | 1.2 | | | | | |
| TKN | 1 | 0.2 | U | 0.56 B | 0.16 FB | 0.43 F | 0.75 JB | 0.34 J | U | **1.5** | | | | | |
| sulfate | 250 | 1 | 7.4 | 8.9 B | 9.0 | U | 9.9 | 6.0 | 6.3 | 4.8 J | | | | | |
| TDS | 500 | 10 | 260 | 280 | 250 | 350 | 360 | 200 | 160 | 180 | | | | | |
| TOC | -- | 1 | U | 0.55 FB | 0.53 F | 0.64 F | 0.43 J | 0.28 J | 0.43 J | 0.38 J | | | | | |

For notes, please refer to the end of the tables section.

**Table 6-2**
**LF009 (Landfill 6 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF6VMW-21 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 6/28/2006 | 9/18/2006 | 12/12/2006 | 4/11/2007 | 6/20/2007 | 9/27/2007 | 12/10/2007 | 4/7/2008 | 6/17/2008 | 10/1/2008 | 12/9/2008 | 4/14/2009 | 6/29/2009 |
| Sample ID No. | | | LF6VM2175AA | LF6VM2175BB | LF6VM2175CA | LF6VM2175DA | LF6VM2175EA | LF6VM2175FA | LF6VM2175GA | LF6VM2175HA | LF6VM2175IA | LF6VM2175JA | LF6VM2175KA | LF6VM2175LA | LF6VM2175MA |
| **Depth to Water (ft)** | | | **43.30** | **43.41** | **42.40** | **41.29** | **41.35** | **42.68** | **42.78** | **41.51** | **41.54** | **43.71** | **42.74** | **42.05** | **42.15** |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,1-dichloroethene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,2-dichloroethane | 0.6 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,4-dichlorobenzene | 3 | 0.5 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| acetone | 50 | 10 | 1.5 F | U | U | U | U | U | U | U | U | U | U | U | 4.77 F |
| benzene | 1 | 0.1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| carbon disulfide | 1,000 | 0.5 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| chloroform | 7 | 0.3 | U | 0.22 F | 0.260 F | U | 0.150 F | U | 0.150 F | 0.160 F | 0.110 F | U | U | 0.160 F | U |
| chloromethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| cis-1,2-dichloroethene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| dichlorodifluoromethane | 5* | 1 | U | U | UJ | U | U | U | U | U | U | U | U | U | U |
| hexachlorobutadiene | 0.5* | 0.6 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| methylene chloride | 5* | 1 | U | 0.31 F | 0.190 F | U | U | U | 0.160 F | U | U | U | U | U | U |
| m,p-xylene | 5* | 2 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| trichloroethene (TCE) | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| toluene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| trans-1,2-dichloroethene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| trichlorofluoromethane | 5* | 1 | U | 0.11 F | U | U | U | U | U | U | U | U | 0.110 F | 0.180 F | 0.210 F |
| vinyl chloride | 2 | 1 | U | U | U | U | U | UJ | U | U | U | U | U | U | U |
| xylenes, Total | -- | 1.5 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| **Total VOCs (µg/L)** | | | **1.5** | **0.64** | **0.45** | **0** | **0.150** | **0** | **0.310** | **0.160** | **0.110** | **0** | **0.110** | **0.340** | **4.930** |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 111 | 96 | 92 | 72 | 82 | 88 | 82 | 100 | 100 | 90 | 92 | 120 | 110 |
| ammonia | 2 | 0.2 | 0.023 F | 0.011 F | U | U | 0.026 F | U | 0.026 F | 0.084 | 0.045 F | 0.021 F | U | U | U |
| BOD5 | -- | 2.4 | UJ | U | U | U | U | U | U | U | U | U | U | U | U |
| bromide | 2 | 0.5 | U | U | U | U | U | U | U | U | U | U | UJ | U | U |
| COD | -- | 5 | U | 18 B | 16 | 17 | 6.3 F | U | 22 B | 6.3 F | U | U | U | U | U |
| chloride | 250 | 1 | 3.6 | 2.5 | 1.8 | 1.9 | 1.0 | 2.2 | 2.3 | 3.5 | 4.8 | 2.8 | 3.6 | 4.7 | 2.7 |
| color | 15 | 5 | **160** | NA | NA | NA | U | NA | NA | U | 10 | NA | NA | U | NA |
| cyanide, Total | 200 | 0.02 | 0.0076 F | NA | NA | NA | U | NA | NA | U | 0.0065 F | NA | NA | NA | NA |
| Fluoride | 1.5 | 1 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| hardness, Total | -- | 1 | 107 | 100 | 96 | 84 | 88 | 60 | 96 | 100 | 88 | 110 | 92 | 110 | 88 |
| nitrate | 10 | 1 | 0.75 F | 0.87 F | 0.77 | 0.71 | 0.82 | 0.85 | 0.80 | 0.81 | 0.72 | 0.80 | 0.8 | 0.9 | 1.2 |
| TKN | 1 | 0.2 | 0.5 | 0.075 F | 0.071 F | U | U | U | U | U | U | U | U | U | U |
| sulfate | 250 | 1 | 6 | 5 | 4.7 | 4.9 | 4.9 | 4.8 | 4.8 | 4.6 | 4.9 | 4.4 | 9.9 | 4.8 | 4.2 |
| TDS | 500 | 10 | 148 | 140 | 79 | 100 | 120 | 130 | 66 | 120 | 120 | 92 | 120 | 78 | 120 |
| TOC | -- | 1 | U | 0.54 F | 0.88 F | U | U | U | 0.43 F | 0.47 F | U | U | 0.45 F | U | U |

For notes, please refer to the end of the tables section.

**Table 6-2**
**LF009 (Landfill 6 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF6VMW-21 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Date of Collection** | | | **9/15/2009** | **3/22/2010** | **9/14/2010** | **6/62011** | **6/18/2012** | **6/17/2013** | **6/2/2014** | **6/9/2015** | | | | | |
| **Sample ID No.** | | | **LF6VM2175NA** | **LF6VM2175OA** | **LF6VM2175PA** | **LF6VM2175PA** | **LF6VM2175QA** | **LF6VM2175RA** | **LF6VM2175RA** | **LF6VM2175SA** | | | | | |
| **Depth to Water (ft)** | | | **43.25** | **43.72** | **44.67** | **42.25** | **43.03** | **43.65** | **42.48** | **43.03** | | | | | |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| 1,1-dichloroethene | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| 1,2-dichloroethane | 0.6 | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| 1,4-dichlorobenzene | 3 | 0.5 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| acetone | 50 | 10 | U | U | 1.56 F | NA | NA | NA | NA | NA | | | | | |
| benzene | 1 | 0.1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| carbon disulfide | 1,000 | 0.5 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| chloroform | 7 | 0.3 | U | 0.110 F | 0.120 F | NA | NA | NA | NA | NA | | | | | |
| chloromethane | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| cis-1,2-dichloroethene | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| dichlorodifluoromethane | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| hexachlorobutadiene | 0.5* | 0.6 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| methylene chloride | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| m,p-xylene | 5* | 2 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| trichloroethene (TCE) | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| toluene | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| trans-1,2-dichloroethene | 5* | 1 | 0.140 F | U | U | NA | NA | NA | NA | NA | | | | | |
| trichlorofluoromethane | 5* | 1 | U | 0.140 F | 0.140 F | NA | NA | NA | NA | NA | | | | | |
| vinyl chloride | 2 | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| xylenes, Total | -- | 1.5 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| **Total VOCs (µg/L)** | | | **0.14** | **0.25** | **1.82** | NA | NA | NA | NA | NA | | | | | |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 130 | 110 | 100 | 120 | 100 | 88 | 90 | 82 | | | | | |
| ammonia | 2 | 0.2 | U | U | U | 0.076 F | 0.12 B | U | U | U | | | | | |
| BOD5 | -- | 2.4 | NA | U | U | U | U | U | U | U | | | | | |
| bromide | 2 | 0.5 | U | U | U | U | U | U | U | U | | | | | |
| COD | -- | 5 | 39 | U | U | U | 6.3 J | 9.6 J | U | U | | | | | |
| chloride | 250 | 1 | 3.5 | 2.9 | 2.3 | 3.4 | 3.0 | 6.0 | 18 | 9.3 | | | | | |
| color | 15 | 5 | NA | U | NA | **20** | U | U | U | **180** | | | | | |
| cyanide, Total | 200 | 0.02 | NA | 0.0080 F | U | NA | U | U | U | U | | | | | |
| Fluoride | 1.5 | 1 | NA | NA | NA | NA | NA | 0.062 J | 0.075 J | U | | | | | |
| hardness, Total | -- | 1 | 180 | 110 | 100 | 94 | 99 | 120 | 120 | 130 | | | | | |
| nitrate | 10 | 1 | 2.3 | 2.3 | 1.2 | 2.5 | 1.3 | 1.7 | 1.3 | 1.1 | | | | | |
| TKN | 1 | 0.2 | 0.17 F | 0.44 B | 0.19 FB | 0.39 F | 0.70 JB | 0.45 J | U | U | | | | | |
| sulfate | 250 | 1 | 4.3 | 4.3 B | 4.6 | 4.4 F | 3.0 J | 3.9 J | 5.4 | 5.2 | | | | | |
| TDS | 500 | 10 | 140 | 130 B | 97 | 130 | 110 | 110 | 130 | 22 B | | | | | |
| TOC | -- | 1 | 0.86 F | U | U | 0.44 F | 0.48 J | 0.98 J | 0.43 J | 0.24 J | | | | | |

For notes, please refer to the end of the tables section.

**Table 6-2**
**LF009 (Landfill 6 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF6VMW-22 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Date of Collection** | | | **6/29/2006** | **9/19/2006** | **12/13/2006** | **4/13/2007** | **6/21/2007** | **9/28/2007** | **12/12/2007** | **4/8/2008** | **6/18/2008** | **10/1/2008** | **12/11/2008** | **4/16/2009** | **6/30/2009** |
| **Sample ID No.** | | | **LF6VM2235AA** | **LF6VM2235BB** | **LF6VM2235CA** | **LF6VM2235DA** | **LF6VM2235EA** | **LF6VM2235FA** | **LF6VM2235GA** | **LF6VM2235HA** | **LF6VM2235IA** | **LF6VM2235JA** | **LF6VM2235KA** | **LF6VM2235LA** | **LF6VM2235MA** |
| **Depth to Water (ft)** | | | **19.27** | **14.68** | **13.54** | **12.71** | **13.37** | **14.41** | **13.89** | **12.84** | **13.56** | **14.28** | **13.74** | **13.36** | **13.76** |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,1-dichloroethene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,2,3-trichlorobenzene | 5 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,2-dichloroethane | 0.6 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| acetone | 50 | 10 | U | U | U | U | U | U | U | U | U | U | U | U | 5.26 F |
| benzene | 1 | 0.1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| carbon disulfide | 1,000 | 0.5 | U | U | U | U | U | U | 0.120 F♦ | U | U | U | U | UJ | U |
| chloroform | 7 | 0.3 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| chloromethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| cis-1,2-dichloroethene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| dichlorodifluoromethane | 5* | 1 | U | U | UJ | U | U | U | U | U | U | U | U | U | U |
| hexachlorobutadiene | 0.5* | 0.6 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| methylene chloride | 5* | 1 | U | U | U | U | 0.120 F | U | U | U | U | U | U | U | U |
| m,p-xylene | 5* | 2 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| trichloroethene (TCE) | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| toluene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| trans-1,2-dichloroethene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| trichlorofluoromethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| vinyl chloride | 2 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| xylenes, Total | -- | 1.5 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| **Total VOCs (µg/L)** | | | **0** | **0** | **0** | **0.100** | **0.120** | **0** | **0.120** | **0.190** | **0** | **0** | **0** | **0** | **5.26** |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 211 | 170 | 130 | 100 | 140 | 190 | 190 | 140 | 170♦ | 210 | 210 | 160 | 190 |
| ammonia | 2 | 0.2 | U | U | U | U | 0.015 F | 0.017 F♦ | U | U | 0.046 F♦ | 0.029 F | U | 0.031 F♦ | 0.017 F |
| BOD5 | -- | 2.4 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| bromide | 2 | 0.5 | U | 0.021 F | U | U | 0.025 F♦ | 0.040 F | 0.044 F♦ | 0.029 F | 0.042 F | 0.052 F | UJ | 0.043 F | 0.073 F♦ |
| COD | -- | 5 | U | U | 9.4 F | 13 J | 13 B | U | 13 B♦ | 6.3 F♦ | 13 J♦ | 3.7 F | 6.0 F♦ | 6.0 F♦ | U |
| chloride | 250 | 1 | 18.4 | 20 | 9.1 | 4.6 | 27 | 50 | 38 | 8.8 | 30 | 45 | 28 | 10 | 23 |
| color | 15 | 5 | **20 J** | NA | NA | NA | U | NA | NA | U | U | NA | NA | U | NA |
| cyanide, Total | 200 | 0.02 | U | NA | NA | NA | U | NA | NA | 0.0047 F | U | NA | NA | NA | NA |
| Fluoride | 1.5 | 1 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| hardness, Total | -- | 1 | 197 | 200 | 150 | 110 | 190♦ | 270 | 260 | 140 | 210♦ | 280 | 240♦ | 190 | 240 |
| nitrate | 10 | 1 | 0.9 F | 0.89 F | 0.42 | 0.29 | 0.90♦ | 1.2 | 1.2 | 0.57 B♦ | 1.1 | 1.5 | 1.4 | 0.99 ♦ | 1.3 |
| TKN | 1 | 0.2 | U | U | U | U | U | 0.078 F | U | U | U | U | U | U | 0.12 F |
| sulfate | 250 | 1 | 18.4 | 20 | 16 | 13 | 21♦ | 27 | 27 | 16 | 21 | 26 | 24 | 20 | 24♦ |
| TDS | 500 | 10 | 260 | 240 | 180 | 110 | 270 | 260 | 350♦ | 160♦ | 220 | 300 | 290♦ | 210 | 350♦ |
| TOC | -- | 1 | 0.64 F | 0.72 F | 0.69 F | U | 0.77 F♦ | 1.2 | 0.90 F | 1.5 B | 0.54 F | 0.97 F | 0.65 F | 0.39 F | 0.75 F |

For notes, please refer to the end of the tables section.

**Table 6-2**
**LF009 (Landfill 6 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF6VMW-22 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Date of Collection** | | | **9/16/2009** | **3/23/2010** | **9/15/2010** | **6/7/2011** | **6/18/2012** | **6/18/2013** | **6/12/2014** | **6/3/2015** | | | | | |
| **Sample ID No.** | | | **LF6VM2235NA** | **LF6VM2235OA** | **LF6VM2235PA** | **LF6VM2235PA** | **LF6VM2235QA** | **LF6VM2235RA** | **LF6VM2235RA** | **LF6VM2235SA** | | | | | |
| **Depth to Water (ft)** | | | **14.61** | **14.15** | **15.47** | **13.36** | **14.15** | **14.11** | **13.70** | **13.97** | | | | | |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| 1,1-dichloroethene | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| 1,2,3-trichlorobenzene | 5 | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| 1,2-dichloroethane | 0.6 | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| acetone | 50 | 10 | U | 1.17 F | 1.76 FB♦ | NA | NA | NA | NA | NA | | | | | |
| benzene | 1 | 0.1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| carbon disulfide | 1,000 | 0.5 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| chloroform | 7 | 0.3 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| chloromethane | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| cis-1,2-dichloroethene | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| dichlorodifluoromethane | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| hexachlorobutadiene | 0.5* | 0.6 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| methylene chloride | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| m,p-xylene | 5* | 2 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| trichloroethene (TCE) | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| toluene | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| trans-1,2-dichloroethene | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| trichlorofluoromethane | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| vinyl chloride | 2 | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| xylenes, Total | -- | 1.5 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| **Total VOCs (µg/L)** | | | **0** | **1.17** | **1.76** | NA | NA | NA | NA | NA | | | | | |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 230 | 220 | 250 | 140 | 180 | 230 | 170 | 200 | | | | | |
| ammonia | 2 | 0.2 | U | U | U | 0.12 | 0.19 B♦ | U | 0.47 J♦ | 0.55 JB | | | | | |
| BOD5 | -- | 2.4 | U | U | U | 1.4 F♦ | U | U | U | U | | | | | |
| bromide | 2 | 0.5 | 0.051 F | 0.036 F | UM | U | U | 0.12 J | U | U | | | | | |
| COD | -- | 5 | 9.0 F | 59 J | 5.6 F | 4.3 F♦ | 9.7 J | 13 J | U | U | | | | | |
| chloride | 250 | 1 | 38 | 14 | 20♦ | 1.6 F♦ | 21 | 5.5 | 6.7 | 4.2 ♦ | | | | | |
| color | 15 | 5 | NA | U | NA | U | U | U | U | 5 | | | | | |
| cyanide, Total | 200 | 0.02 | NA | 0 | U | NA | U | U | U | U | | | | | |
| Fluoride | 1.5 | 1 | NA | NA | NA | NA | NA | U | 0.097 J ♦ | 0.067 J | | | | | |
| hardness, Total | -- | 1 | 360♦ | 0.010 F | 300 | 150 ♦ | 310 J | 240 | 220 ♦ | 240 ♦ | | | | | |
| nitrate | 10 | 1 | 1.7 | 1.2 | 1.9 | 0.85♦ | 2.2 | 2.8 | 0.86 ♦ | 1.1 | | | | | |
| TKN | 1 | 0.2 | U | 0.38 JB♦ | 0.24 B♦ | 0.39 F | 0.71 J B♦ | 0.43 J | U | 0.19 J | | | | | |
| sulfate | 250 | 1 | 28 | 23 | 26 | 14 | 18 | 15 | 15 | 12 | | | | | |
| TDS | 500 | 10 | 340 | 270 | 340♦ | 170 ♦ | 230 | 270 | 210 | 240 ♦ | | | | | |
| TOC | -- | 1 | 0.89 F | 0.81 F | 1.1 B | 0.75 F | 0.63 J | 1.1 | 0.85 J B♦ | 0.98 JB | | | | | |

For notes, please refer to the end of the tables section.

**Table 6-2**
**LF009 (Landfill 6 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF6VMW-23 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Date of Collection** | | | **6/29/2006** | **9/18/2006** | **12/12/2006** | **4/17/2007** | **6/21/2007** | **9/28/2007** | **12/11/2007** | **4/3/2008** | **6/18/2008** | **10/1/2008** | **12/11/2008** | **4/16/2009** | **6/30/2009** |
| **Sample ID No.** | | | **LF6VM2348AA** | **LF6VM2348BB** | **LF6VM2348CA** | **LF6VM2348DA** | **LF6VM2348EA** | **LF6VM2348FA** | **LF6VM2348GA** | **LF6VM2348HA** | **LF6VM2348IA** | **LF6VM2348JA** | **LF6VM2348KA** | **LF6VM2348LA** | **LF6VM2348MA** |
| **Depth to Water (ft)** | | | **16.16** | **16.60** | **15.58** | **14.44** | **15.33** | **16.38** | **15.96** | **14.69** | **15.51** | **16.21** | **15.70** | **15.21** | **16.69** |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,1-dichloroethene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,2,3-trichlorobenzene | 5 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,2-dichloroethane | 0.6 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| acetone | 50 | 10 | U | U | U | U | U | U | U | U | U | U | U | U | 1.10 F |
| benzene | 1 | 0.1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| carbon disulfide | 1,000 | 0.5 | U | U | U | U | U | U | U | U | U | U | U | UJ | U |
| chloroform | 7 | 0.3 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| chloromethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| cis-1,2-dichloroethene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| dichlorodifluoromethane | 5* | 1 | U | U | UJ | U | U | U | U | U | U | U | U | U | U |
| hexachlorobutadiene | 0.5* | 0.6 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| methylene chloride | 5* | 1 | U | 0.14 F | U | U | U | U | 0.110 F | U | U | U | U | U | U |
| m,p-xylene | 5* | 2 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| trichloroethene (TCE) | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| toluene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| trans-1,2-dichloroethene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| trichlorofluoromethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| vinyl chloride | 2 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| xylenes, Total | -- | 1.5 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| **Total VOCs (µg/L)** | | | **0** | **0.14** | **0** | **0** | **0** | **0** | **0.110** | **0** | **0** | **0** | **0** | **0** | **1.10** |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 205 | 180 | 380 | 160 | 160 | 180 | 190 | 210 | 200 | 180 | 200 | 220 | 190 |
| ammonia | 2 | 0.2 | U | U | U | U | 0.018 F | U | 0.05 | U | 0.057 B | 0.029 F | U | U | 0.024 F |
| BOD5 | -- | 2.4 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| bromide | 2 | 0.5 | U | 0.029 F | U | 0.11 | 0.080 F | 0.11 F | 0.12 F | 0.023 F | 0.024 F | 0.035 F | UJ | 0.020 F | U |
| COD | -- | 5 | 11.6 B | 18 B | 5.3 F | 19 B | 11 B | U | 8.5 F | U | 4.1 F | U | 6.0 F | 6.0 F | U |
| chloride | 250 | 1 | 2.5 | 2.8 | 3.0 | 5.3 | 6.3 | 5.9 | 5.3 | 2.0 | 1.3 | 1.2 | 3.3 | 0.89 F | 0.67 F |
| color | 15 | 5 | **60** | NA | NA | NA | U | NA | NA | U | U | NA | NA | U | NA |
| cyanide, Total | 200 | 0.02 | U | NA | NA | NA | U | NA | NA | 0.015 F | U | NA | NA | NA | NA |
| Fluoride | 1.5 | 1 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| hardness, Total | -- | 1 | 237 | 230 | 200 | 260 | 300 | 310 | 330 | 260 | 220 | 220 | 260 | 250 | 220 |
| nitrate | 10 | 1 | 0.32 F | 0.68 F | 0.53 | 1.3 | 1.9 | 1.6 | 1.7 | 0.96 | 0.61 | 0.6 | 0.81 | 0.61 | 0.70 |
| TKN | 1 | 0.2 | 0.17 F | U | U | 0.057 F | U | 0.085 F | U | U | U | U | U | U | U |
| sulfate | 250 | 1 | 40.7 | 35 | 35 | 85 | 130 | 120 | 110 | 54 | 30 | 38 | 51 | 39 | 22 |
| TDS | 500 | 10 | 278 | 250 | 210 | 330 | 410 | 270 | 390 | 290 | 260 | 240 | 200 | 250 | 260 |
| TOC | -- | 1 | 0.8 F | 1.1 | 0.89 F | 0.52 F | 1.3 B | 0.97 F | 0.81 F | 1.3 | 0.48 F | 0.59 F | 0.44 F | 0.38 F | 0.50 F |

For notes, please refer to the end of the tables section.

**Table 6-2**
**LF009 (Landfill 6 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF6VMW-23 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Date of Collection** | | | **9/15/2009** | **3/23/2010** | **9/15/2010** | **6/62011** | **6/20/2012** | **6/18/2013** | **6/10/2014** | **6/9/2015** | | | | | |
| **Sample ID No.** | | | **LF6VM2348NA** | **LF6VM2348OA** | **LF6VM2348PA** | **LF6VM2348PA** | **LF6VM2348QA** | **LF6VM2348RA** | **LF6VM2348RA** | **LF6VM2348SA** | | | | | |
| **Depth to Water (ft)** | | | **16.51** | **16.07** | **17.40** | **15.22** | **16.07** | **16.05** | **15.64** | **15.74** | | | | | |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 5* | 1 | U | U | U | U | U | U | U | U | | | | | |
| 1,1-dichloroethene | 5* | 1 | U | U | U | U | U | U | U | U | | | | | |
| 1,2,3-trichlorobenzene | 5 | 1 | U | U | U | U | U | U | U | U | | | | | |
| 1,2-dichloroethane | 0.6 | 1 | U | U | U | U | U | U | U | U | | | | | |
| acetone | 50 | 10 | U | 1.42 F | 2.07 FB | U | U | U | U | U | | | | | |
| benzene | 1 | 0.1 | U | U | U | U | U | U | U | U | | | | | |
| carbon disulfide | 1,000 | 0.5 | U | U | U | U | U | U | U | U | | | | | |
| chloroform | 7 | 0.3 | U | U | U | U | U | U | U | U | | | | | |
| chloromethane | 5* | 1 | U | U | U | U | U | U | U | U | | | | | |
| cis-1,2-dichloroethene | 5* | 1 | U | U | U | U | U | U | U | U | | | | | |
| dichlorodifluoromethane | 5* | 1 | U | U | U | U | U | U | U | U | | | | | |
| hexachlorobutadiene | 0.5* | 0.6 | U | U | U | U | U | U | U | U | | | | | |
| methylene chloride | 5* | 1 | U | U | U | U | U | U | U | 2.2 J | | | | | |
| m,p-xylene | 5* | 2 | U | U | U | U | U | U | U | U | | | | | |
| trichloroethene (TCE) | 5* | 1 | U | U | U | U | U | U | U | U | | | | | |
| toluene | 5* | 1 | U | U | U | U | U | U | U | U | | | | | |
| trans-1,2-dichloroethene | 5* | 1 | U | U | U | U | U | U | U | U | | | | | |
| trichlorofluoromethane | 5* | 1 | U | U | U | U | U | U | U | U | | | | | |
| vinyl chloride | 2 | 1 | U | U | U | U | U | U | U | U | | | | | |
| xylenes, Total | -- | 1.5 | U | U | U | U | U | U | U | U | | | | | |
| **Total VOCs (µg/L)** | | | **0** | **1.42** | **2.07** | **0** | **0** | **0** | **0** | **2.2** | | | | | |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 190 | 220 | 210 | 240 | 290 | 260 | 340 | 380 | | | | | |
| ammonia | 2 | 0.2 | 0.048 F | U | U | 0.060 F | 0.092 JB | U | U | U | | | | | |
| BOD5 | -- | 2.4 | U | U | U | U | U | U | U | U | | | | | |
| bromide | 2 | 0.5 | 0.025 F | 0.021 F | U | U | U | U | U | U | | | | | |
| COD | -- | 5 | U | U | U | U | U | 12 J | 4.7 J | 9.9 J | | | | | |
| chloride | 250 | 1 | 0.79 F | 0.55 F | 0.82 F | 0.72 | 1.6 J | 1.1 J | 1.3 J | 0.63 J | | | | | |
| color | 15 | 5 | NA | U | NA | U | U | U | U | 5 | | | | | |
| cyanide, Total | 200 | 0.02 | NA | 0.0091 F | U | NA | U | U | U | U | | | | | |
| Fluoride | 1.5 | 1 | NA | NA | NA | NA | 0.093 J | U | 0.093 J | U | | | | | |
| hardness, Total | -- | 1 | 210 | 260 | 230 | 250 | 310 | 300 | 370 | 390 | | | | | |
| nitrate | 10 | 1 | 0.74 | 0.6 | 0.48 F | 0.9 | 5.7 | 7.8 | 3.5 | 2.1 | | | | | |
| TKN | 1 | 0.2 | U | 0.20 B | 0.16 FB | 0.49 F | 0.56 JB | 0.42 J | U | U | | | | | |
| sulfate | 250 | 1 | 21 | 29 | 20 | 23 | 18 | 12 | 22 | 29 | | | | | |
| TDS | 500 | 10 | 240 | 240 | 250 | 260 | 320 | 310 | 420 | 470 B | | | | | |
| TOC | -- | 1 | 0.67 F | 0.66 F | 2.2 B | 0.92 F | 0.97 J | 1.4 | 1.8 B | 1.5 | | | | | |

For notes, please refer to the end of the tables section.

**Table 6-2**
**LF009 (Landfill 6 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF6VMW-24 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 6/29/2006 | 9/19/2006 | 12/12/2006 | 4/17/2007 | 6/21/2007 | 9/28/2007 | 12/11/2007 | 4/7/2008 | 6/18/2008 | 10/1/2008 | 12/11/2008 | 4/16/2009 | 7/1/2009 |
| Sample ID No. | | | LF6VM2448AA | LF6VM2449BB | LF6VM2449CA | LF6VM2449DA | LF6VM2449EA | LF6VM2449FA | LF6VM2449GA | LF6VM2449HA | LF6VM2449IA | LF6VM2449JA | LF6VM2449KA | LF6VM2449LA | LF6VM2449MA |
| **Depth to Water (ft)** | | | **12.32** | **12.74** | **11.70** | **10.65** | **11.51** | **12.52** | **12.12** | **10.92** | **11.71** | **12.39** | **11.85** | **4.42** | **11.90** |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,1-dichloroethene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,2,3-trichlorobenzene | 5 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,2-dichloroethane | 0.6 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| acetone | 50 | 10 | U | U | U | U | U | U | U | U | U | U | U | U | 5.40 F♦ |
| benzene | 1 | 0.1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| carbon disulfide | 1,000 | 0.5 | U | U | U | U | U | U | U | U | U | U | U | UJ | U |
| chloroform | 7 | 0.3 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| chloromethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| cis-1,2-dichloroethene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| dichlorodifluoromethane | 5* | 1 | U | U | UJ | U | U | U | U | U | U | U | U | U | U |
| hexachlorobutadiene | 0.5* | 0.6 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| methylene chloride | 5* | 1 | U | U | 0.320 F | U | U | U | 0.120 F | U | U | U | U | U | U |
| m,p-xylene | 5* | 2 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| trichloroethene (TCE) | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| toluene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | 0.210 F♦ |
| trans-1,2-dichloroethene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| trichlorofluoromethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| vinyl chloride | 2 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| xylenes, Total | -- | 1.5 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| **Total VOCs (µg/L)** | | | **0** | **0** | **0.32** | **0** | **0** | **0** | **0.120** | **0** | **0** | **0** | **0** | **0** | **5.61** |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 138 | 120 | 160 | 120 | 120 | 130 | 130 | 130 | 130 | 120 | 120 | 130 | 120 |
| ammonia | 2 | 0.2 | 0.087 | 0.073 B | 0.054 | 0.065 | U | 0.074 | 0.11 | 0.11 | 0.10 B | 0.11 B | 0.062 | 0.11 B | 0.10 ♦ |
| BOD5 | -- | 2.4 | U | 2.7 | U | U | U | U | 2.5 | U | 2.4 | 2.8 | 2.7 | U | 2.2 |
| bromide | 2 | 0.5 | 0.77 | 0.63 | 0.50 | 0.50 | 0.47 | 1.2 | 1.4 | 0.53 | 0.50 | 0.56 | 0.54 J | 0.58 | 0.48 F♦ |
| COD | -- | 5 | 12.3 B | 5 F | 7.3 F | 15 B | 8.5 F | 4.1 F | 8.5 F | 6.3 F | U | 8.2 F | 8.2 F | 8.2 F | 9.0 F |
| chloride | 250 | 1 | 199 | 110 | 110 | 98 | 110 | 130 | 130 | 130 | 130 | 150 | 150 | 170 | 170 M |
| color | 15 | 5 | **30** | NA | NA | NA | U | NA | NA | U | U | NA | NA | U | NA |
| cyanide, Total | 200 | 0.02 | U | NA | NA | NA | U | NA | NA | U | U | NA | NA | NA | NA |
| Fluoride | 1.5 | 1 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| hardness, Total | -- | 1 | 159 | 180 | 150 | 170 | 180 | 180 | 200 | 200 | 210 | 220 | 220 | 230 | 250 |
| nitrate | 10 | 1 | U | U | U | U | 0.040 F | U | U | U | U | U | U | U | U |
| TKN | 1 | 0.2 | 0.061 F | 0.077 F | 0.18 F | U | U | 0.082 F | 0 | U | 0.13 F | U | U | U | 0.16 F |
| sulfate | 250 | 1 | 24.6 | 29 | 28 | 28 | 27 | 24 | 24 | 24 | 25 | 24 | 25 | 23 | 21 |
| TDS | 500 | 10 | 350 | 350 | 350 | 350 | 390 | 300 | 370 | 370 | 400 | 390 | 380 | 410 | **530♦** |
| TOC | -- | 1 | U | U | 0.45 F | 0.81 F | 0.66 F | 0.51 F | 0.48 F | 0.93 F | 0.42 F | U | U | U | U |

For notes, please refer to the end of the tables section.

**Table 6-2**
**LF009 (Landfill 6 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF6VMW-24 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Date of Collection** | | | **9/15/2009** | **3/23/2010** | **9/23/2010** | **6/9/2011** | **6/19/2012** | **6/18/2013** | **6/9/2014** | **6/4/2015** | | | | | |
| **Sample ID No.** | | | **LF6VM2449NA** | **LF6VM2449OA** | **LF6VM2449PA** | **LF6VM2449PA** | **LF6VM2449QA** | **LF6VM2449RA** | **LF6VM2449RA** | **LF6VM2449SA** | | | | | |
| **Depth to Water (ft)** | | | **12.68** | **12.19** | **13.80** | **11.50** | **12.22** | **12.20** | **11.80** | **12.00** | | | | | |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 5* | 1 | U | U | U | U | U | U | U | U | | | | | |
| 1,1-dichloroethene | 5* | 1 | U | U | U | 0.23 F | U | U | U | U | | | | | |
| 1,2,3-trichlorobenzene | 5 | 1 | U | U | U | U | U | U | U | 0.19 J | | | | | |
| 1,2-dichloroethane | 0.6 | 1 | U | U | U | U | U | U | U | U | | | | | |
| acetone | 50 | 10 | U | 1.22 F | 2.21 FB | U | U | U | U | U | | | | | |
| benzene | 1 | 0.1 | U | U | U | U | U | U | U | U | | | | | |
| carbon disulfide | 1,000 | 0.5 | U | U | U | U | U | U | U | U | | | | | |
| chloroform | 7 | 0.3 | U | U | U | U | U | U | U | U | | | | | |
| chloromethane | 5* | 1 | U | U | U | U | U | U | U | U | | | | | |
| cis-1,2-dichloroethene | 5* | 1 | U | U | U | U | 0.49 J | 0.73 J | 1.3 | 1.0 | | | | | |
| dichlorodifluoromethane | 5* | 1 | U | U | U | U | U | U | U | U | | | | | |
| hexachlorobutadiene | 0.5* | 0.6 | U | U | U | U | U | U | U | U | | | | | |
| methylene chloride | 5* | 1 | U | U | U | 0.50 F | U | U | U | U | | | | | |
| m,p-xylene | 5* | 2 | U | U | U | U | U | U | U | U | | | | | |
| trichloroethene (TCE) | 5* | 1 | U | U | U | U | U | U | 0.35 J | 0.22 J | | | | | |
| toluene | 5* | 1 | U | U | U | U | U | U | U | U | | | | | |
| trans-1,2-dichloroethene | 5* | 1 | U | U | U | U | U | U | U | U | | | | | |
| trichlorofluoromethane | 5* | 1 | U | U | U | U | U | U | U | U | | | | | |
| vinyl chloride | 2 | 1 | U | U | U | U | U | U | U | U | | | | | |
| xylenes, Total | -- | 1.5 | U | U | U | U | U | U | U | U | | | | | |
| **Total VOCs (µg/L)** | | | **0** | **1.22** | **2.21** | **0.73** | **0.49** | **0.73** | **1.65** | **1.41** | | | | | |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 120 | 130 | 130 | 120 | 99 | 120 | 130 B | 150 | | | | | |
| ammonia | 2 | 0.2 | 0.093 | 0.065 | 0.073 | 0.19 | 0.12 B | 0.11 | 0.22 B | 0.12 B | | | | | |
| BOD5 | -- | 2.4 | U | 8.5 | 3.8 J | 9.4 | U | 1.9 J | U | U | | | | | |
| bromide | 2 | 0.5 | 0.58 | 0.7 | U | 0.67 | 0.63 | 0.44 J | 0.45 J | 0.51 | | | | | |
| COD | -- | 5 | 6.7 F | U | 5.6 FB | 6.6 F | 4.3 J | 14 J | 6.4 JB | 5.7 J | | | | | |
| chloride | 250 | 1 | 180 | 210 | 240 | 250 | **390** | **360** | **380** | **330** | | | | | |
| color | 15 | 5 | NA | U | NA | U | U | U | U | 5.0 JB | | | | | |
| cyanide, Total | 200 | 0.02 | NA | 0.0090 F | U | NA | U | U | U | U | | | | | |
| Fluoride | 1.5 | 1 | NA | NA | NA | NA | NA | 0.067 J | U | 0.10 J | | | | | |
| hardness, Total | -- | 1 | 250 | 280 | 300 | 340 | 440 | 420 | 440 | 340 | | | | | |
| nitrate | 10 | 1 | U | U | U | U | U | U | U | U | | | | | |
| TKN | 1 | 0.2 | 0.95 | 0.54 B | 0.24 B | 0.45 F | 0.90 JB | 0.49 J | U | U | | | | | |
| sulfate | 250 | 1 | 24 | 18 | 16 | 22 | 45 | 23 | 25 B | 21 | | | | | |
| TDS | 500 | 10 | **530** | **510** | **620** | **710** | **800** | **790** | **760 JB** | **770** | | | | | |
| TOC | -- | 1 | 0.67 F | U | 0.85 F | 0.51 F | 0.56 J | 0.85 J | 0.72 JB | 0.35 J | | | | | |

For notes, please refer to the end of the tables section.

**Table 6-2**
**LF009 (Landfill 6 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF6VMW-25 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Date of Collection** | | | **6/29/2006** | **9/19/2006** | **12/12/2006** | **4/17/2007** | **6/25/2007** | **10/1/2007** | **12/11/2007** | **4/3/2008** | **6/17/2008** | **10/2/2008** | **12/11/2008** | **4/16/2009** | **6/30/2009** |
| **Sample ID No.** | | | **LF6VM2544AA** | **LF6VM2544BB** | **LF6VM2544CA** | **LF6VM2544DA** | **LF6VM2544EA** | **LF6VM2544FA** | **LF6VM2544GA** | **LF6VM2544HA** | **LF6VM2544IA** | **LF6VM2544JA** | **LF6VM2544KA** | **LF6VM2544LA** | **LF6VM2544MA** |
| **Depth to Water (ft)** | | | **3.13** | **3.72** | **2.86** | **1.83** | **2.85** | **3.56** | **3.10** | **2.10** | **2.99** | **3.37** | **2.87** | **2.62** | **3.08** |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,1-dichloroethene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,2,3-trichlorobenzene | 5 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,2-dichloroethane | 0.6 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| acetone | 50 | 10 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| benzene | 1 | 0.1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| carbon disulfide | 1,000 | 0.5 | U | U | U | U | U | U | 0.140 F | U | U | U | U | UJ | U |
| chloroform | 7 | 0.3 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| chloromethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| cis-1,2-dichloroethene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| dichlorodifluoromethane | 5* | 1 | U | U | UJ | U | U | U | U | U | U | U | U | U | U |
| hexachlorobutadiene | 0.5* | 0.6 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| methylene chloride | 5* | 1 | U | U | 0.290 F | U | U | U | 0.150 F | U | U | U | U | U | U |
| m,p-xylene | 5* | 2 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| trichloroethene (TCE) | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| toluene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| trans-1,2-dichloroethene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| trichlorofluoromethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| vinyl chloride | 2 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| xylenes, Total | -- | 1.5 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| **Total VOCs (µg/L)** | | | **0** | **0** | **0.29** | **0** | **0** | **0** | **0.190** | **0** | **0** | **0** | **0** | **0** | **0** |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 478 | 390 | 120 | 400 | 380 | 390 | 380 | 380 | 370 | 320 | 340 | 370 | 360 |
| ammonia | 2 | 0.2 | 0.077 | 0.94 | 1.0 | 1.3 | 1.4 | 1.4 | 1.4 | 1.5 | 1.6 | 1.5 | 1.6 | 1.5 | 1.5 |
| BOD5 | -- | 2.4 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| bromide | 2 | 0.5 | U | 0.024 F | U | 0.050 F | 0.024 F | 0.029 F | 0.040 F | 0.024 F | .062 F | 0.13 | UJ | 0.14 F | 0.11 |
| COD | -- | 5 | U | 7.1 F | 16 | 19 B | 22 B | 13 | 15 B | 13 | 8.5 F | 15 | 15 | 10 | 16 |
| chloride | 250 | 1 | 11.5 | 15 | 14 | 14 | 17 | 19 | 18 | 13 | 15 | 28 | 20 | 12 | 13 |
| color | 15 | 5 | **25** | NA | NA | NA | U | NA | NA | U | U | NA | NA | U | NA |
| cyanide, Total | 200 | 0.02 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Fluoride | 1.5 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| hardness, Total | -- | 1 | 720 | 460 | 28 | 420 | 410 | 12 | 460 | 400 | 440 | 420 | 480 | 440 | 500 |
| nitrate | 10 | 1 | U | 0.017 F | 0.089 F | U | U | 0.038 F | 0.032 F | 0.025 F | 0.018 F | 0.041 F | U | 0.086 F | 0.021 F |
| TKN | 1 | 0.2 | **1.2** | **1.1** | **1.1** | **1.2** | **1.4** | **1.3** | **1.4** | **1.5** | **1.4** | **1.6** | **1.5** | **2.1** | **1.7** |
| sulfate | 250 | 1 | 36.3 | 36 | 33 | 33 | 34 | 36 | 36 | 38 | 47 | 120 | 120 | 110 | 120 J |
| TDS | 500 | 10 | 498 | 470 | 490 | **510** | **500** | **510** | **500** | 450 | 430 | **560** | 470 | **560** | **670** |
| TOC | -- | 1 | 3.9 | 3.5 | 3.7 | 3.3 | 3.7 | 3.4 | 3.5 | 3.4 | 3.0 | 3.6 | 3.0 | 2.8 | 2.9 |

For notes, please refer to the end of the tables section.

**Table 6-2**
**LF009 (Landfill 6 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF6VMW-25 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Date of Collection** | | | **9/16/2009** | **3/23/2010** | **9/15/2010** | **6/8/2011** | **6/19/2012** | **6/19/2013** | **6/9/2014** | **6/2/2015** | | | | | |
| **Sample ID No.** | | | **LF6VM2544NA** | **LF6VM2544OA** | **LF6VM2544PA** | **LF6VM2544PA** | **LF6VM2544QA** | **LF6VM2544RA** | **LF6VM2544RA** | **LF6VM2544SA** | | | | | |
| **Depth to Water (ft)** | | | **3.84** | **3.09** | **4.48** | **2.69** | **3.29** | **2.97** | **2.81** | **2.87** | | | | | |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 5* | 1 | U | U | U | U | U | U | U | U | | | | | |
| 1,1-dichloroethene | 5* | 1 | U | U | U | U | U | U | U | U | | | | | |
| 1,2,3-trichlorobenzene | 5 | 1 | U | U | U | U | U | U | U | U | | | | | |
| 1,2-dichloroethane | 0.6 | 1 | U | U | U | U | U | U | U | U | | | | | |
| acetone | 50 | 10 | U | U | 1.06 FB | U | U | 3.5 JQ | 3.1 J | U | | | | | |
| benzene | 1 | 0.1 | U | U | U | U | U | U | U | U | | | | | |
| carbon disulfide | 1,000 | 0.5 | U | U | U | U | U | U | U | U | | | | | |
| chloroform | 7 | 0.3 | U | U | U | U | U | U | U | U | | | | | |
| chloromethane | 5* | 1 | U | U | U | U | U | U | U | U | | | | | |
| cis-1,2-dichloroethene | 5* | 1 | U | U | U | U | U | U | U | U | | | | | |
| dichlorodifluoromethane | 5* | 1 | U | U | U | U | U | U | U | U | | | | | |
| hexachlorobutadiene | 0.5* | 0.6 | U | U | U | U | U | U | U | U | | | | | |
| methylene chloride | 5* | 1 | U | U | U | U | U | U | U | U | | | | | |
| m,p-xylene | 5* | 2 | U | U | U | U | U | U | U | U | | | | | |
| trichloroethene (TCE) | 5* | 1 | U | U | U | U | U | U | U | U | | | | | |
| toluene | 5* | 1 | U | U | U | U | U | U | U | U | | | | | |
| trans-1,2-dichloroethene | 5* | 1 | U | U | U | U | U | U | U | U | | | | | |
| trichlorofluoromethane | 5* | 1 | U | U | U | U | U | U | U | U | | | | | |
| vinyl chloride | 2 | 1 | U | U | U | U | U | U | U | U | | | | | |
| xylenes, Total | -- | 1.5 | U | U | U | U | U | U | U | U | | | | | |
| **Total VOCs (µg/L)** | | | **0** | **0** | **1.06** | **0** | **0** | **3.5** | **3.1** | **0** | | | | | |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 350 | 390 | 330 | 360 | 340 | 350 | 380 B | 340 | | | | | |
| ammonia | 2 | 0.2 | 1.5 | 1.3 | 1.0 | 0.78 | 0.67 | 0.69 J | 0.49 | 0.45 | | | | | |
| BOD5 | -- | 2.4 | U | U | U | 2.2 F | U | U | U | U | | | | | |
| bromide | 2 | 0.5 | 0.14 F | U | U | U | U | U | U | U | | | | | |
| COD | -- | 5 | 14 | 15 | U | 8.7 F | 7.3 J | 15 J | 9.0 JB | 8.3 J | | | | | |
| chloride | 250 | 1 | 23 | 19 | 21 | 19 | 13 | 11 J | 21 B | 15 | | | | | |
| color | 15 | 5 | NA | U | NA | U | U | U | U | 5 | | | | | |
| cyanide, Total | 200 | 0.02 | NA | 0.0084 F | U | U | U | U | U | U | | | | | |
| Fluoride | 1.5 | 1 | U | U | U | U | U | U | U | U | | | | | |
| hardness, Total | -- | 1 | 530 | 520 | 440 | 370 | 380 | 370 | 390 | 400 | | | | | |
| nitrate | 10 | 1 | 0.043 F | 0.052 F | U | U | 0.045 J | 1.6 J | 2.2 | 3.0 | | | | | |
| TKN | 1 | 0.2 | **1.4** | **1.5** | **1.2** | 0.96 F | **1.4 B** | 0.86 J | 0.28 J | U | | | | | |
| sulfate | 250 | 1 | 150 | 160 | 110 | 70 | 50 | 28 | 22 B | 18 | | | | | |
| TDS | 500 | 10 | **640** | **590** | 500 | 480 | 430 | 420 | 460 B | 430 | | | | | |
| TOC | -- | 1 | 3.1 | 2.9 | 3.4 B | 2.6 | 2.4 | 2.4 | 2.4 B | 2 | | | | | |

For notes, please refer to the end of the tables section.

**Table 6-2**
**LF009 (Landfill 6 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF6VMW-26 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 7/6/2006 | 9/19/2006 | 12/13/2006 | 4/17/2007 | 6/25/2007 | 10/1/2007 | 12/12/2007 | 4/7/2008 | 6/18/2008 | 9/29/2008 | 12/11/2008 | 4/16/2009 | 7/1/2009 |
| Sample ID No. | | | LF6VM02650AA | LF6VM02650BB | LF6VM2650CA | LF6VM2650DA | LF6VM2650EA | LF6VM2650FA | LF6VM2650GA | LF6VM2650HA | LF6VM2650IA | LF6VM2650JA | LF6VM2650KA | LF6VM2650LA | LF6VM2650MA |
| **Depth to Water (ft)** | | | **5.35** | **5.72** | **4.65** | **3.85** | **4.87** | **5.63** | **4.91** | **4.13** | **4.91** | **5.39** | **4.85** | **4.50** | **4.92** |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 5* | 1 | UM | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,1-dichloroethene | 5* | 1 | UM | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,2,3-trichlorobenzene | 5 | 1 | UM | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,2-dichloroethane | 0.6 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,4-dichlorobenzene | 3 | 0.5 | UM | U | U | U | U | U | U | U | U | U | U | U | U |
| acetone | 50 | 10 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| benzene | 1 | 0.1 | UM | U | U | U | U | U | U | U | U | U | U | U | U |
| carbon disulfide | 1,000 | 0.5 | U | U | U | U | U | U | U | U | U | U | U | UJ | 0.600 F |
| chloroform | 7 | 0.3 | UM | U | U | U | U | U | U | U | U | U | U | U | U |
| chloromethane | 5* | 1 | UM | U | U | U | U | U | U | U | U | U | U | U | U |
| cis-1,2-dichloroethene | 5* | 1 | **99 M** | **75.2** | **106** | **90.5 J** | **102** | **91.8** | **108♦** | **115** | **92.8** | **78.0** | **93.9** | **87.4** | **105** |
| dichlorodifluoromethane | 5* | 1 | UM | U | UJ | U | U | U | U | U | U | U | U | U | U |
| hexachlorobutadiene | 0.5* | 0.6 | UM | U | U | U | U | U | U | U | U | U | U | U | U |
| methylene chloride | 5* | 1 | UM | 0.12 F | U | U | 1.20 F | U | 0.550 F♦ | U | U | U | U | U | U |
| m,p-xylene | 5* | 2 | UM | U | U | U | U | U | U | U | U | U | U | U | U |
| naphthalene | 10 | 1 | UM | U | U | U | U | U | U | U | U | U | U | U | U |
| trichloroethene (TCE) | 5* | 1 | UM | U | U | 1.07 | U | U | U | U | U | U | U | U | U |
| toluene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| trans-1,2-dichloroethene | 5* | 1 | UM | U | U | U | U | U | U | U | U | U | U | 0.800 F | U |
| trichlorofluoromethane | 5* | 1 | UM | U | U | U | U | U | U | U | U | U | U | U | U |
| vinyl chloride | 2 | 1 | 0.72 M | 0.63 | U | 0.610 F | U | U | U | U | U | U | U | U | U |
| xylenes, Total | -- | 1.5 | UM | U | U | U | U | U | U | U | U | U | U | U | U |
| **Total VOCs (µg/L)** | | | **99.72** | **75.95** | **106** | **92.18** | **103.20** | **91.8** | **108.55** | **115** | **92.8** | **78.0** | **93.90** | **88.20** | **105.60** |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 306 | 260 | 240 | 240 | 240 | 240 | 230 | 240 | 250 | 250 | 230 | 220 | 220 |
| ammonia | 2 | 0.2 | U | U | U | U | 0.028 F | 0.012 F | U | 0.043 F♦ | 0.21♦ | U | U | 0.030 F | 0.088 |
| BOD5 | -- | 2.4 | U | U | 2.1 | U | U | U | U | U | U | U | U | U | U |
| bromide | 2 | 0.5 | 0.26 F | 0.07 F | U | 0.080 F | 0.055 F | 0.059 F | 0.090 F♦ | 0.19 | 0.22 | 0.12 F | UJ | 0.076 F | 0.063 F |
| COD | -- | 5 | UM | U | 9.4 F | 17 BJ | 17 B♦ | U | 11 B♦ | 8.5 F | 13♦ | 3.7 F | 3.7 F | 6.0 F | 6.7 F |
| chloride | 250 | 1 | 50 | 45 | 51 | 48 | 52 | 61 | 62 | 130 | 120 | 88 | 200 | 93 | 85 |
| color | 15 | 5 | **70** | NA | NA | NA | U | NA | NA | U | 10 | NA | NA | U | NA |
| cyanide, Total | 200 | 0.02 | UM | NA | NA | NA | U | NA | NA | 0.0072 F | U | NA | NA | NA | NA |
| Fluoride | 1.5 | 1 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| hardness, Total | -- | 1 | 370 M | 330 | 320 | 320 | 330 | 320 | 350♦ | 420 | 420 | 360 | 360 | 340 | 350 |
| nitrate | 10 | 1 | U | U | U | U | U | U | U | U | U | 0.031 F | U | U | U |
| TKN | 1 | 0.2 | UM | U | U | U | U | U | U | U | 0.21 J | U | U | U | 0.11 F |
| sulfate | 250 | 1 | 41 | 42 | 42 | 45 | 53 | 54 | 55 | 53 | 48 | 49 | 46 | 58 | 54 |
| TDS | 500 | 10 | 419 | 350 | 380 | 390 | 420♦ | 450 | 460 | **520** | **580♦** | **530** | 460 | 440 | **520** |
| TOC | -- | 1 | 0.84 F | 0.61 F | 0.74 F | 0.84 F | 1.1 | 1.1 | 1.1 ♦ | 1.4 | 0.60 F | 0.70 F | U | U | 0.41 F |

For notes, please refer to the end of the tables section.

**Table 6-2**
**LF009 (Landfill 6 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF6VMW-26 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Date of Collection** | | | **9/16/2009** | **3/24/2010** | **9/16/2010** | **6/8/2011** | **6/20/2012** | **6/18/2013** | **6/10/2014** | **6/8/2015** | | | | | |
| **Sample ID No.** | | | **LF6VM2650NA** | **LF6VM2650OA** | **LF6VM2650PA** | **LF6VM2650PA** | **LF6VM2650QA** | **LF6VM2650RA** | **LF6VM2650RA** | **LF6VM2650SA** | | | | | |
| **Depth to Water (ft)** | | | **5.57** | **5.00** | **6.22** | **4.47** | **5.12** | **4.94** | **4.77** | **4.94** | | | | | |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 5* | 1 | U | U | U | U | U | U | U | U | | | | | |
| 1,1-dichloroethene | 5* | 1 | U | U | U | U | U | U | U | U | | | | | |
| 1,2,3-trichlorobenzene | 5 | 1 | U | U | U | U | U | 0.22 J ♦ | U | 0.30 J | | | | | |
| 1,2-dichloroethane | 0.6 | 1 | U | U | U | U | U | U | U | U | | | | | |
| 1,4-dichlorobenzene | 3 | 0.5 | U | U | U | U | U | U | U | U | | | | | |
| acetone | 50 | 10 | U | U | 5.35 | U | U | U | U | U | | | | | |
| benzene | 1 | 0.1 | U | U | U | U | U | U | U | U | | | | | |
| carbon disulfide | 1,000 | 0.5 | U | U | U | U | U | U | U | U | | | | | |
| chloroform | 7 | 0.3 | U | U | U | U | U | U | U | U | | | | | |
| chloromethane | 5* | 1 | U | U | U | U | U | U | U | U | | | | | |
| cis-1,2-dichloroethene | 5* | 1 | **100** | **80. 4♦** | **82** | **100 F** | **100** | **93 H** | **97** | **95 ♦** | | | | | |
| dichlorodifluoromethane | 5* | 1 | U | U | U | U | U | U | U | U | | | | | |
| hexachlorobutadiene | 0.5* | 0.6 | U | U | U | U | U | U | U | U | | | | | |
| methylene chloride | 5* | 1 | U | U | U | U | U | U | U | U | | | | | |
| m,p-xylene | 5* | 2 | U | U | U | U | U | U | U | U | | | | | |
| naphthalene | 10 | 1 | U | U | U | U | U | U | U | 0.33 J | | | | | |
| trichloroethene (TCE) | 5* | 1 | U | U | U | U | U | U | U | U | | | | | |
| toluene | 5* | 1 | U | U | U | U | U | U | U | U | | | | | |
| trans-1,2-dichloroethene | 5* | 1 | 0.550 F | U | U | 0.35 F | 0.25 J | U | U | U | | | | | |
| trichlorofluoromethane | 5* | 1 | U | U | U | U | U | U | U | U | | | | | |
| vinyl chloride | 2 | 1 | U | U | U | U | U | 0.16 J ♦ | U | U | | | | | |
| xylenes, Total | -- | 1.5 | U | U | U | U | U | U | U | U | | | | | |
| **Total VOCs (µg/L)** | | | **100.55** | **80.4** | **87.35** | **100.35** | **100.25** | **93.38** | **97** | **95.63** | | | | | |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 210 | 200 | 220 | 230 | 230 | 240 | 240 | 240 | | | | | |
| ammonia | 2 | 0.2 | U | U | U | 0.098 | 0.48 J♦ | 0.036 J | U | U | | | | | |
| BOD5 | -- | 2.4 | U | U | 24 J | 2.5 | U | U | U | U | | | | | |
| bromide | 2 | 0.5 | 0.083 F | U | U | 0.11 | 0.17 J | 0.16 J | U | U | | | | | |
| COD | -- | 5 | 6.7 F | U | 23 | U | U | 12 J ♦ | 8.4 J♦ | 7.0 J♦ | | | | | |
| chloride | 250 | 1 | 100 | 140 ♦ | 140 | 150 ♦ | 180 | 200 | 200 | 200 | | | | | |
| color | 15 | 5 | NA | U | NA | U | 10 ♦ | U | 5 | 10 | | | | | |
| cyanide, Total | 200 | 0.02 | NA | NA | U | U | U | U | U | U | | | | | |
| Fluoride | 1.5 | 1 | NA | NA | NA | NA | U | U | 0.085 J | 0.11 J | | | | | |
| hardness, Total | -- | 1 | 360 | 370 | 400 | 410 ♦ | 410 | 440 | 420 ♦ | 380 ♦ | | | | | |
| nitrate | 10 | 1 | 0.044 F | 0.060 F | U | U | 0.042 J♦ | U | U | U | | | | | |
| TKN | 1 | 0.2 | U | 0.28 B ♦ | U | 0.31 | 0.67 JB | 0.58 J | U | U | | | | | |
| sulfate | 250 | 1 | 53 | 49 | 51 | 50 | 47 | 43 | 41 | 34 | | | | | |
| TDS | 500 | 10 | 430 | 490♦ | 440 | 490 | **510** | **590** | **550** | **550** | | | | | |
| TOC | -- | 1 | 0.60 F | 0.66 F | 1.0 | 0.81 ♦ | 0.73 J♦ | 1.0 ♦ | 0.85 JB♦ | 0.81 J | | | | | |

For notes, please refer to the end of the tables section.

**Table 6-2**
**LF009 (Landfill 6 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | TMCMW-9 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 6/29/2006 | 9/19/2006 | 12/12/2006 | 4/17/2007 | 6/25/2007 | 10/1/2007 | 12/11/2007 | 4/3/2008 | 6/17/2008 | 10/2/2008 | 12/10/2008 | 4/16/2009 | 6/30/2009 |
| Sample ID No. | | | TMC0919AA | TMC0919BB | TMCM0919CA | TMCM0919DA | TMCM0919EA | TMCM0919FA | TMCM0919GA | TMCM0919HA | TMCM0919IA | TMCM0919JA | TMCM0919KA | TMCM0919LA | TMCM0919MA |
| **Depth to Water (ft)** | | | **2.62** | **3.20** | **2.82** | **1.23** | **2.36** | **3.02** | **2.62** | **1.50** | **3.32** | **3.15** | **2.29** | **2.06** | **2.48** |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,1-dichloroethene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,2,3-trichlorobenzene | 5 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,2-dichloroethane | 0.6 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,4-dichlorobenzene | 3 | 0.5 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| acetone | 50 | 10 | U | U | U | U | U | U | 1.20 F | U | U | U | U | U | U |
| benzene | 1 | 0.1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| carbon disulfide | 1,000 | 0.5 | U | U | U | U | U | U | U | U | U | U | U | UJ | U |
| chloroform | 7 | 0.3 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| chloromethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | 0.480 F | U | U |
| cis-1,2-dichloroethene | 5* | 1 | U | 0.12 F | U | U | U | U | U | U | U | U | U | U | U |
| dichlorodifluoromethane | 5* | 1 | U | U | UJ | U | U | U | U | U | U | U | U | U | U |
| hexachlorobutadiene | 0.5* | 0.6 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| methylene chloride | 5* | 1 | U | U | 0.120 F | U | U | U | 0.190 F | U | U | U | U | U | U |
| m,p-xylene | 5* | 2 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| naphthalene | 10 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| trichloroethene (TCE) | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| toluene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| trans-1,2-dichloroethene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| trichlorofluoromethane | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| vinyl chloride | 2 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| xylenes, Total | -- | 1.5 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| **Total VOCs (µg/L)** | | | **0** | **0.12** | **0.12** | **0** | **0** | **0** | **1.390** | **0** | **0** | **0** | **0.480** | **0** | **0** |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 596 | 500 | 480 | 500 | 500 | 500 | 480 | 500 | 520 | 500 | 480 | 440 | 490 |
| ammonia | 2 | 0.2 | 0.8 | 1.5 | U | 0.42 | 1.3 | 1.3 | 0.028 F | 0.28 | 1.4 | 1.3 | U | 0.041 F | 1.3 |
| BOD5 | -- | 2.4 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| bromide | 2 | 0.5 | U | U | U | 0.11 F | U | 0.077 F | 0.098 F | 0.051 F | 0.1 | 0.11 F | UJ | U | 0.083 F |
| COD | -- | 5 | 20.2 B | 5 F | 11 | 17 B | 33 | 13 | 17 B | 8.5 F | 8.5 F | 15 | 15 B | 15 | 11 |
| chloride | 250 | 1 | 86.4 | 89 | 90 | 88 | 93 | 87 | 87 | 87 | 82 | 80 | 79 | 78 | 70 |
| color | 15 | 5 | 10 | NA | NA | NA | U | NA | NA | U | U | NA | NA | U | NA |
| cyanide, Total | 200 | 0.02 | U | NA | NA | NA | 0.0089 F | NA | NA | 0.0061 F | NA | NA | NA | NA | NA |
| Fluoride | 1.5 | 1 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| hardness, Total | -- | 1 | 546 | 610 | 530 | 560 | 570 | 570 | 530 | 540 | 640 | 560 | 470 | 470 | 540 |
| nitrate | 10 | 1 | 0.05 F | 0.065 F | 1.4 | 1.2 | 0.17 F | 0.13 F | 1.5 | 1.1 | U | 0.088 F | 1.4 | 1.7 | 0.12 F |
| TKN | 1 | 0.2 | **1.4** | **1.5** | 0.13 F | 0.41 | **1.4** | **1.3** | 0.12 F | 0.4 | **1.2** | **1.3** | 0.069 F | 0.11 F | **1.5** |
| sulfate | 250 | 1 | 87.4 | 93 | 92 | 85 | 90 | 85 | 84 | 87 | 82 | 77 | 74 | 74 | 66 |
| TDS | 500 | 10 | **772** | **810** | **750** | **810** | **730** | **830** | **730** | **740** | **810** | **730** | **700** | **710** | **830** |
| TOC | -- | 1 | 3.5 | 3.3 | 3.4 | 3.3 | 4.0 | 3.4 | 3.2 | 3.3 | 3.2 | 3.3 | 3.7 B | 2.9 | 3.5 |

For notes, please refer to the end of the tables section.

**Table 6-2**
**LF009 (Landfill 6 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | TMCMW-9 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 9/16/2009 | 3/23/2010 | 9/15/2010 | 6/8/2011 | 6/19/2012 | 6/19/2013 | 6/9/2014 | 6/2/2015 | | | | | |
| Sample ID No. | | | TMCM0919NA | TMCM0919OA | TMCM0919PA | TMCM0919PA | TMCM0919QA | TMCM0919RA | TMCM0919RA | TMCM0919SA | | | | | |
| Depth to Water (ft) | | | 3.26 | 2.45 | 3.88 | 2.18 | 2.67 | 2.49 | 2.32 | 2.35 | | | | | |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 5* | 1 | U | U | U | U | U | U | U | U | | | | | |
| 1,1-dichloroethene | 5* | 1 | U | U | U | U | U | U | U | U | | | | | |
| 1,2,3-trichlorobenzene | 5 | 1 | U | U | U | U | U | U | U | U | | | | | |
| 1,2-dichloroethane | 0.6 | 1 | U | U | U | U | U | U | U | U | | | | | |
| 1,4-dichlorobenzene | 3 | 0.5 | U | U | U | U | U | U | U | U | | | | | |
| acetone | 50 | 10 | U | U | 1.53 FB | U | U | U | U | U | | | | | |
| benzene | 1 | 0.1 | U | U | U | U | U | U | U | U | | | | | |
| carbon disulfide | 1,000 | 0.5 | U | U | U | U | U | U | U | U | | | | | |
| chloroform | 7 | 0.3 | U | U | U | U | U | U | U | U | | | | | |
| chloromethane | 5* | 1 | U | U | U | U | U | U | U | U | | | | | |
| cis-1,2-dichloroethene | 5* | 1 | 0.110 F | U | 0.120 F | U | U | U | U | U | | | | | |
| dichlorodifluoromethane | 5* | 1 | U | U | U | U | U | U | U | U | | | | | |
| hexachlorobutadiene | 0.5* | 0.6 | U | U | U | U | U | U | U | U | | | | | |
| methylene chloride | 5* | 1 | U | U | U | U | U | U | U | U | | | | | |
| m,p-xylene | 5* | 2 | U | U | U | U | U | U | U | U | | | | | |
| naphthalene | 10 | 1 | U | U | U | U | U | U | U | U | | | | | |
| trichloroethene (TCE) | 5* | 1 | U | U | U | U | U | U | U | U | | | | | |
| toluene | 5* | 1 | U | U | U | U | U | U | U | U | | | | | |
| trans-1,2-dichloroethene | 5* | 1 | U | U | U | U | U | U | U | U | | | | | |
| trichlorofluoromethane | 5* | 1 | U | U | U | U | U | U | U | U | | | | | |
| vinyl chloride | 2 | 1 | U | U | U | U | U | U | U | U | | | | | |
| xylenes, Total | -- | 1.5 | U | U | U | U | U | U | U | U | | | | | |
| **Total VOCs (µg/L)** | | | **0.11** | **0** | **1.65** | **0** | **0** | **0** | **0** | **0** | | | | | |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 480 | 460 | 500 | 470 | 470 | 460 | 450 B | 440 | | | | | |
| ammonia | 2 | 0.2 | 1.3 | U | 1.4 | 0.75 | 0.71 | 0.79 | 0.4 | 0.5 | | | | | |
| BOD5 | -- | 2.4 | U | U | U | U | U | U | U | U | | | | | |
| bromide | 2 | 0.5 | 0.097 F | 0.1 F | U | U | 0.15 J | 0.17 J | U | 0.13 J | | | | | |
| COD | -- | 5 | 16 | 12 | 12 | 7.3 F | 14 J | 15 J | 10 JB | 13 J | | | | | |
| chloride | 250 | 1 | 72 | 70 | 70 | 69 | 75 | 62 | 52 B | 46 | | | | | |
| color | 15 | 5 | NA | U | NA | U | U | U | 10 | U | | | | | |
| cyanide, Total | 200 | 0.02 | NA | 0.012 F | U | U | U | U | U | U | | | | | |
| Fluoride | 1.5 | 1 | NA | NA | NA | NA | U | U | U | U | | | | | |
| hardness, Total | -- | 1 | 580 | 490 | 510 | 460 | 460 | 78 | 480 | 460 | | | | | |
| nitrate | 10 | 1 | 0.21 | 1.1 | U | 0.45 F | 2.0 | 0.61 | 0.99 B | U | | | | | |
| TKN | 1 | 0.2 | **1.3** | U | **1.5** | 0.86 F | 1.4 B | 0.90 J | 0.24 J | U | | | | | |
| sulfate | 250 | 1 | 66 | 63 | 59 | 60 | 70 | 71 | 84 B | 80 | | | | | |
| TDS | 500 | 10 | **710** | **630** | **620** | **650** | **670** | **670** | **670 B** | **640** | | | | | |
| TOC | -- | 1 | 3.3 | 2.9 | 3.8 | 3.4 | 3.0 | 3.4 | 3.0 | 2.9 | | | | | |

For notes, please refer to the end of the tables section.

**Table 6-2**
**LF009 (Landfill 6 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | TMC-USGS-2 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 7/6/2006 | 9/19/2006 | 12/13/2006 | 4/18/2007 | 6/21/2007 | 10/1/2007 | 12/11/2007 | 4/8/2008 | 6/18/2008 | 10/2/2008 | 12/11/2008 | 4/14/2009 | 7/1/2009 |
| Sample ID No. | | | TMCUM0277AA | TMCUM0277BB | TMCUM0227CA | TMCUM0227DA | TMCUM0227EA | TMCUM0277FA | TMCUM0277GA | TMCUM0277HA | TMCUM0227IA | TMCUM0227JA | TMCUM0227KA | TMCUM0227LA | TMCUM0227MA |
| **Depth to Water (ft)** | | | **4.38** | **4.81** | **3.62** | **2.66** | **3.91** | **5.03** | **4.25** | **3.20** | **6.80** | **4.68** | **4.00** | **3.85** | **4.17** |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 5* | 1 | U | U | U | UJ | U | U | U | U | U | U | U | U | U |
| 1,1-dichloroethene | 5* | 1 | U | U | U | UJ | U | U | U | U | U | U | U | U | U |
| 1,2,3-trichlorobenzene | 5 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| 1,2-dichloroethane | 0.6 | 1 | U | U | U | UJ | U | U | U | U | U | U | U | U | U |
| 1,4-dichlorobenzene | 3 | 0.5 | U | 0.25 F | U | UJ | 0.110 F | 0.100 F | U | U | U | U | U | U | U |
| acetone | 50 | 10 | 1 F | U | U | UJ | U | U | U | U | U | U | U | U | U |
| benzene | 1 | 0.1 | U | U | U | UJ | U | U | U | U | U | U | U | U | U |
| carbon disulfide | 1,000 | 0.5 | 0.11 F | U | U | UJ | U | U | U | U | U | U | U | UJ | 0.140 F |
| chloroform | 7 | 0.3 | U | U | U | UJ | U | U | U | U | U | U | U | U | U |
| chloromethane | 5* | 1 | U | U | U | UJ | U | U | U | U | U | U | U | U | U |
| cis-1,2-dichloroethene | 5* | 1 | U | U | U | UJ | U | U | U | U | U | U | 0.360 F | U | U |
| dichlorodifluoromethane | 5* | 1 | U | U | UJ | UJ | U | U | U | U | U | U | U | U | U |
| hexachlorobutadiene | 0.5* | 0.6 | 0.16 F | U | U | UJ | U | U | U | U | U | U | U | U | U |
| methylene chloride | 5* | 1 | U | 0.43 F | 0.170 F | UJ | 0.120 F | U | 0.150 F | U | U | U | U | U | U |
| m,p-xylene | 5* | 2 | U | U | U | UJ | U | U | U | U | U | U | U | U | U |
| naphthalene | 10 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| trichloroethene (TCE) | 5* | 1 | U | U | U | UJ | U | U | U | U | U | U | U | U | U |
| toluene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| trans-1,2-dichloroethene | 5* | 1 | U | U | U | UJ | U | U | U | U | U | U | U | U | U |
| trichlorofluoromethane | 5* | 1 | U | U | U | UJ | U | U | U | U | U | U | U | U | U |
| vinyl chloride | 2 | 1 | U | U | U | UJ | U | U | U | U | U | U | U | U | U |
| xylenes, Total | -- | 1.5 | U | U | U | UJ | U | U | U | U | U | U | U | U | U |
| **Total VOCs (µg/L)** | | | **1.27** | **0.68** | **0.17** | **0** | **0.23** | **0.1** | **0.150** | **0** | **0** | **0** | **0.36** | **0** | **0.140** |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 156 | 130 | 190 | 240 | 150 | 170 | 170 | 150 | 190 | 160 | 150 | 180 | 130 |
| ammonia | 2 | 0.2 | 0.066 B | 0.077 B | 0.12 | 0.10 | 0.09 | 0.048 F | 0.1 | 0.026 F | 0.22 | 0.052 B | 0.053 | 0.086 B | 0.073 |
| BOD5 | -- | 2.4 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| bromide | 2 | 0.5 | U | 0.034 F | U | 0.038 F | 0.032 F | 0.034 F | 0.046 F | 0.045 F | 0.042 F | 0.038 F | UJ | 0.040 F | 0.028 F |
| COD | -- | 5 | 16.1 B | U | U | 26 B | 15 B | 39 | 26 B | 26 B | 15 | 19 | 31 | 6.0 F | 23 |
| chloride | 250 | 1 | 21.9 | 22 | 21 | 21 | 23 | 21 | 21 | 21 | 21 | 22 | 19 | 23 | 23 |
| color | 15 | 5 | **100** | NA | NA | NA | U | NA | NA | U | U | NA | NA | U | NA |
| cyanide, Total | 200 | 0.02 | U | NA | NA | NA | U | NA | NA | U | U | NA | NA | NA | NA |
| Fluoride | 1.5 | 1 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| hardness, Total | -- | 1 | 260 | 200 | 250 | 260 | 200 | 200 | 200 | 180 | 210 | 200 | 210 | 300 | 190 |
| nitrate | 10 | 1 | U | 0.09 F | 0.11 | 0.016 F | 0.033 F | 0.045 F | 0.047 F | 0.048 F | 0.050 F | 0.045 F | 0.085 | 2.5 I | 0.052 F |
| TKN | 1 | 0.2 | 0.1 F | 0.077 F | 0.40 | 0.34 | 0.13 F | 0.11 F | 0.095 F | 0.098 F | **2.50** | 0.15 F | 0.19 F | 0.46 | 0.18 F |
| sulfate | 250 | 1 | 32.8 | 35 | 33 | 34 | 34 | 33 | 31 | 33 | 32 | 32 | 29 | 33 | 31 |
| TDS | 500 | 10 | 243 | 210 | 250 | 250 | 290 | 260 | 220 | 180 | 250 | 240 | 200 | 190 | 270 |
| TOC | -- | 1 | 0.54 F | 0.76 F | 0.73 F | U | U | 0.51 F | 0.66 F | U | U | 0.55 F | U | U | 0.50 F |

For notes, please refer to the end of the tables section.

**Table 6-2**
**LF009 (Landfill 6 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | TMC-USGS-2 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Date of Collection** | | | **9/16/2009** | **3/24/2010** | **9/15/2010** | **6/7/2011** | **6/20/2012** | **6/18/2013** | **6/5/2014** | **6/10/2015** | | | | | |
| **Sample ID No.** | | | **TMCUM0227NA** | **TMCUM0227OA** | **TMCUM0227PA** | **TMCUM0227PA** | **TMCUM0227QA** | **TMCUM0227RA** | **TMCUM0227RA** | **TMCUM0227SA** | | | | | |
| **Depth to Water (ft)** | | | **5.06** | **4.12** | **5.79** | **3.67** | **4.54** | **4.20** | **4.17** | **4.15** | | | | | |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| 1,1-dichloroethene | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| 1,2,3-trichlorobenzene | 5 | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| 1,2-dichloroethane | 0.6 | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| 1,4-dichlorobenzene | 3 | 0.5 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| acetone | 50 | 10 | U | U | 2.15 FB | NA | NA | NA | NA | NA | | | | | |
| benzene | 1 | 0.1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| carbon disulfide | 1,000 | 0.5 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| chloroform | 7 | 0.3 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| chloromethane | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| cis-1,2-dichloroethene | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| dichlorodifluoromethane | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| hexachlorobutadiene | 0.5* | 0.6 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| methylene chloride | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| m,p-xylene | 5* | 2 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| naphthalene | 10 | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| trichloroethene (TCE) | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| toluene | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| trans-1,2-dichloroethene | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| trichlorofluoromethane | 5* | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| vinyl chloride | 2 | 1 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| xylenes, Total | -- | 1.5 | U | U | U | NA | NA | NA | NA | NA | | | | | |
| **Total VOCs (µg/L)** | | | **0** | **0** | **2.15** | NA | NA | NA | NA | NA | | | | | |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 150 | 160 | 200 | 140 | 130 | 120 | 130 B | 140 | | | | | |
| ammonia | 2 | 0.2 | 0.063 | U | 0.082 | 0.14 | 0.096 JB | 0.076 J | 0.079 J | 0.065 J | | | | | |
| BOD5 | -- | 2.4 | U | U | U | U | U | U | U | U | | | | | |
| bromide | 2 | 0.5 | 0.036 F | U | U | U | U | U | U | 0.12 J | | | | | |
| COD | -- | 5 | 34 | 14 | 47 | U | U | 5.1 J | U | U | | | | | |
| chloride | 250 | 1 | 24 | 25 | 29 | 28 | 28 | 31 | 40 B | 45 | | | | | |
| color | 15 | 5 | NA | U | NA | 5 | U | U | U | **50** | | | | | |
| cyanide, Total | 200 | 0.02 | NA | NA | U | NA | U | U | U | U | | | | | |
| Fluoride | 1.5 | 1 | NA | NA | NA | NA | U | U | 0.072 JB | U | | | | | |
| hardness, Total | -- | 1 | 210 | 190 | 340 | 190 | 170 | 160 | 220 B | 210 | | | | | |
| nitrate | 10 | 1 | 0.1 | 0.092 F | U | 0.11 F | 0.37 J | 0.35 J | 0.45 J | 0.44 J | | | | | |
| TKN | 1 | 0.2 | U | 0.20 B | 0.61 B | 0.46 F | 0.65 JB | 0.58 J | U | 0.20 J | | | | | |
| sulfate | 250 | 1 | 31 | 32 | 32 | 31 | 27 | 24 | 28 B | 31 | | | | | |
| TDS | 500 | 10 | 260 | 230 | 260 | 250 | 210 | 190 | 240 B | 260 | | | | | |
| TOC | -- | 1 | 0.52 F | U | 1.9 B | 1.1 | 0.70 J | 1.0 | 0.87 JB | 0.58 J | | | | | |

For notes, please refer to the end of the tables section.

**Table 6-2**
**LF009 (Landfill 6 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF6LH-1 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 12/20/2006 | 4/18/2007 | 6/21/2007 | 10/1/2007 | 12/11/2007 | 4/8/2008 | 6/18/2008 | 10/1/2008 | 12/10/2008 | 4/16/2009 | 6/30/2009 | 9/17/2009 | 3/24/2010 |
| Sample ID No. | | | LF6LH0101CA | LF6LH0101DA | LF6LH0101EA | LF6LH0101FA | LF6LH0101GA | LF6LH0101HA | LF6LH0101IA | LF6LH0101JA | LF6LH0101KA | LF6LH0101LA | LF6LH0101MA | LF6LH0101NA | LF6LH0101OA |
| Depth to Water (ft) | | | Leachate | Leachate | Leachate | Leachate | Leachate | Leachate | Leachate | Leachate | Leachate | Leachate | Leachate | Leachate | Leachate |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 5* | 1 | U | UJ | U | U | U | U | U | U | U | U | U | U | U |
| 1,1-dichloroethene | 5* | 1 | U | UJ | U | U | U | U | U | U | U | U | U | U | U |
| 1,2-dichloroethane | 0.6 | 1 | U | UJ | U | U | U | U | U | U | U | U | U | U | U |
| 1,4-dichlorobenzene | 3 | 0.5 | U | UJ | U | U | U | U | U | U | U | U | U | U | U |
| acetone | 50 | 10 | U | 2.34 F | U | U | U | U | U | U | U | 1.45 F | 1.08 F | 2.63 F | 1.81 F |
| benzene | 1 | 0.1 | U | UJ | U | U | U | U | U | U | U | U | U | U | U |
| carbon disulfide | 1,000 | 0.5 | U | UJ | U | U | U | U | U | U | U | U | U | U | U |
| chloroform | 7 | 0.3 | U | UJ | U | U | U | U | U | U | U | U | U | U | U |
| chloromethane | 5* | 1 | UJ | UJ | UJ | U | U | U | U | U | U | U | U | U | U |
| cis-1,2-dichloroethene | 5* | 1 | U | UJ | U | U | U | U | U | U | U | U | U | U | U |
| dichlorodifluoromethane | 5* | 1 | U | UJ | U | U | U | U | U | U | U | U | U | U | U |
| hexachlorobutadiene | 0.5* | 0.6 | U | UJ | U | U | U | U | U | U | U | U | U | U | U |
| methylene chloride | 5* | 1 | 0.210 F | UJ | U | U | 0.120 F | U | U | U | U | U | U | U | U |
| m,p-xylene | 5* | 2 | U | UJ | U | U | U | U | U | U | U | U | U | U | U |
| trichloroethene (TCE) | 5* | 1 | U | UJ | U | U | U | U | U | U | U | U | U | U | U |
| toluene | 5* | 1 | U | U | U | U | U | U | U | U | U | U | 0.230 F | 0.310 F | U |
| trans-1,2-dichloroethene | 5* | 1 | U | UJ | U | U | U | U | U | U | U | U | U | U | U |
| trichlorofluoromethane | 5* | 1 | U | UJ | U | U | U | U | U | U | U | U | U | U | U |
| vinyl chloride | 2 | 1 | U | UJ | U | U | U | U | U | U | U | U | U | U | U |
| xylenes, Total | -- | 1.5 | U | UJ | U | U | U | U | U | U | U | U | U | U | U |
| **Total VOCs (µg/L)** | | | **0.21** | **2.34** | **0.21** | **0** | **0.120** | **0** | **0** | **0** | **0** | **1.45** | **1.31** | **2.94** | **1.81** |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 180 | 130 | 180 | 180 | 190 | 150 | 180 | 190 | 190 B | 150 | 190 | 200 | 160 |
| ammonia | 2 | 0.2 | U | 0.051 | 0.041 F | 0.034 F | 0.042 F | 0.016 F | 0.10 B | 0.063 B | 0.031 F | 0.10 B | 0.07 | 0.065 | U |
| BOD5 | -- | 2.4 | 3.1 | 2.1 | U | U | U | 2.2 | 2.4 | U | U | 2.6 | U | 2.4 | U |
| bromide | 2 | 0.5 | U | U | U | U | 0.27 | U | 0.33 | 0.19 F | UJ | 0.013 F | 0.021 F | 0.022 F | U |
| COD | -- | 5 | 20 | 15 B | 20 B | 13 | 28 B | 20 | 120 | 13 | 17 B | 53 | 14 | 23 | 8.1 F |
| chloride | 250 | 1 | 2.2 | 2.2 | 2.7 | 2.6 | 60 | 1.8 | 74 | 59 | 58 | 3.5 | 7.3 | 6.4 | 6.5 |
| color | 15 | 5 | NA | NA | 10 | NA | NA | 10 | U | NA | NA | 10 | NA | NA | U |
| cyanide, Total | 200 | 0.02 | NA | NA | U | NA | NA | U | U | NA | NA | NA | NA | NA | NA |
| Fluoride | 1.5 | 1 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| hardness, Total | -- | 1 | 200 | 140 | 210 | 210 | 290 | 160 | 480 | 270 | 250 | 170 | 220 | 240 | 180 |
| nitrate | 10 | 1 | U | **16** | U | U | U | 0.016 F | 0.016 F | U | U | U | 0.014 F | 0.029 F | 0.016 F |
| TKN | 1 | 0.2 | 0.085 F | 0.14 F | 0.11 F | 0.25 B | 0.39 | 0.46 | **2.2** | 0.38 | 0.20 | 0.93 | 0.28 | 0.36 | 0.32 B |
| sulfate | 250 | 1 | 23 | U | 19 | 20 | 36 | 16 | 34 | 38 | 37 | 20 | 8.3 | 14 | 24 |
| TDS | 500 | 10 | 200 | 160 | 240 | 220 | 340 | 140 | 390 | 330 | 360 | 210 | 250 | 250 | 230 |
| TOC | -- | 1 | 2.1 | 1.8 | 3.1 | 2.6 | 1.4 F | 1.9 B | U | 1.7 | 1.2 B | 1.9 | 2.6 | 3.5 | 2.4 B |

For notes, please refer to the end of the tables section.

**Table 6-2**
**LF009 (Landfill 6 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF6LH-1 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Date of Collection** | | | **9/16/2010** | **6/8/2011** | **6/21/2012** | **6/18/2013** | **6/5/2014** | **6/11/2015** | | | | | | | |
| **Sample ID No.** | | | **LF6LH0101PA** | **LF6LH0101PA** | **LF6LH0101QA** | **LF6LH0101RA** | **LF6LH0101RA** | **LF6LH0101SA** | | | | | | | |
| **Depth to Water (ft)** | | | **Leachate** | **Leachate** | **Leachate** | **Leachate** | **Leachate** | **Leachate** | | | | | | | |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 5* | 1 | U | NA | NA | NA | NA | NA | | | | | | | |
| 1,1-dichloroethene | 5* | 1 | U | NA | NA | NA | NA | NA | | | | | | | |
| 1,2-dichloroethane | 0.6 | 1 | U | NA | NA | NA | NA | NA | | | | | | | |
| 1,4-dichlorobenzene | 3 | 0.5 | U | NA | NA | NA | NA | NA | | | | | | | |
| acetone | 50 | 10 | 3.09 FB | NA | NA | NA | NA | NA | | | | | | | |
| benzene | 1 | 0.1 | U | NA | NA | NA | NA | NA | | | | | | | |
| carbon disulfide | 1,000 | 0.5 | U | NA | NA | NA | NA | NA | | | | | | | |
| chloroform | 7 | 0.3 | U | NA | NA | NA | NA | NA | | | | | | | |
| chloromethane | 5* | 1 | U | NA | NA | NA | NA | NA | | | | | | | |
| cis-1,2-dichloroethene | 5* | 1 | U | NA | NA | NA | NA | NA | | | | | | | |
| dichlorodifluoromethane | 5* | 1 | U | NA | NA | NA | NA | NA | | | | | | | |
| hexachlorobutadiene | 0.5* | 0.6 | U | NA | NA | NA | NA | NA | | | | | | | |
| methylene chloride | 5* | 1 | U | NA | NA | NA | NA | NA | | | | | | | |
| m,p-xylene | 5* | 2 | U | NA | NA | NA | NA | NA | | | | | | | |
| trichloroethene (TCE) | 5* | 1 | U | NA | NA | NA | NA | NA | | | | | | | |
| toluene | 5* | 1 | 1.08 | NA | NA | NA | NA | NA | | | | | | | |
| trans-1,2-dichloroethene | 5* | 1 | U | NA | NA | NA | NA | NA | | | | | | | |
| trichlorofluoromethane | 5* | 1 | U | NA | NA | NA | NA | NA | | | | | | | |
| vinyl chloride | 2 | 1 | U | NA | NA | NA | NA | NA | | | | | | | |
| xylenes, Total | -- | 1.5 | U | NA | NA | NA | NA | NA | | | | | | | |
| **Total VOCs (µg/L)** | | | **4.17** | NA | NA | **NA** | **NA** | **NA** | | | | | | | |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 190 | 200 | 240 | 190 | 190 B | 170 | | | | | | | |
| ammonia | 2 | 0.2 | 0.6 | 0.31 | 0.16 B | 0.062 J | 1.7 | 0.075 J | | | | | | | |
| BOD5 | -- | 2.4 | 9.7 J | U | 3.0 | 18 | 8.7 J | 27 | | | | | | | |
| bromide | 2 | 0.5 | U | U | U | U | U | U | | | | | | | |
| COD | -- | 5 | 130 | 9.3 F | 41 | 88 J | 560 | 28 | | | | | | | |
| chloride | 250 | 1 | 6.0 | 2.5 F | 12 | 2.3 J | 9.0 B | 2.0 J | | | | | | | |
| color | 15 | 5 | NA | **40** | U | U | **25** | **100** | | | | | | | |
| cyanide, Total | 200 | 0.02 | U | U | U | U | U | U | | | | | | | |
| Fluoride | 1.5 | 1 | NA | 0.20 J | 0.067 J | 0.085 J | 0.10 JB | 0.12 J | | | | | | | |
| hardness, Total | -- | 1 | 220 | 200 | 230 | 210 | 400 B | 190 | | | | | | | |
| nitrate | 10 | 1 | U | U | U | U | U | 0.063 J | | | | | | | |
| TKN | 1 | 0.2 | **3.2** | 0.87 F | 0.80 JB | **1.4** | **11** | U | | | | | | | |
| sulfate | 250 | 1 | 10 | 5.4 | 2.1 | 9.7 | 3.0 JB | 2.3 J | | | | | | | |
| TDS | 500 | 10 | 190 | 210 | 270 | 220 | 240 B | 210 | | | | | | | |
| TOC | -- | 1 | 11 | 3.7 | 8.1 | 5.9 | 22 | 7 | | | | | | | |

For notes, please refer to the end of the tables section.

**Table 6-2**
**LF009 (Landfill 6 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF6LH-2 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 12/20/2006 | 4/18/2007 | 6/21/2007 | 10/1/2007 | 12/12/2007 | 4/8/2008 | 6/18/2008 | 10/1/2008 | 12/10/2008 | 4/16/2009 | 7/1/2009 | 9/17/2009 | 3/25/2010 |
| Sample ID No. | | | LF6LH0201CA | LF6LH0201DA | LF6LH0201EA | LF6LH0201FA | LF6LH0201GA | LF6LH0201HA | LF6LH0201IA | LF6LH0201JA | LF6LH0201KA | LF6LH0201LA | LF6LH0201MA | LF6LH0201NA | LF6LH0201OA |
| Depth to Water (ft) | | | Leachate | Leachate | Leachate | Leachate | Leachate | Leachate | Leachate | Leachate | Leachate | Leachate | Leachate | Leachate | Leachate |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 5* | 1 | U | UJ | U | U | U | U | U | U | U | U | U | U | U |
| 1,1-dichloroethene | 5* | 1 | U | UJ | U | U | U | U | U | U | U | U | U | U | U |
| 1,2-dichloroethane | 0.6 | 1 | U | UJ | U | U | U | U | U | U | 0.130 F | U | U | U | U |
| 1,4-dichlorobenzene | 3 | 0.5 | U | UJ | U | U | U | 0.180 F | U | U | U | U | U | U | U |
| acetone | 50 | 10 | U | UJ | U | U | U | U | U | U | 1.85 F | U | U | U | U |
| benzene | 1 | 0.1 | U | UJ | U | U | U | U | U | U | U | U | U | U | U |
| carbon disulfide | 1,000 | 0.5 | U | UJ | U | U | 0.100 F | U | U | U | U | U | U | U | U |
| chloroform | 7 | 0.3 | U | UJ | U | U | U | U | U | U | U | U | U | U | U |
| chloromethane | 5* | 1 | UJ | UJ | UJ | U | U | U | U | U | 0.640 F | U | U | 0.540 F | U |
| cis-1,2-dichloroethene | 5* | 1 | U | UJ | U | U | U | U | U | U | U | U | U | U | U |
| dichlorodifluoromethane | 5* | 1 | U | UJ | U | U | U | U | U | U | U | U | U | U | U |
| hexachlorobutadiene | 0.5* | 0.6 | U | UJ | U | U | U | U | U | U | U | U | U | U | U |
| methylene chloride | 5* | 1 | 0.150 F | UJ | 0.120 F | U | U | U | U | U | U | U | U | U | U |
| m,p-xylene | 5* | 2 | U | UJ | U | U | U | U | U | U | U | U | U | U | U |
| trichloroethene (TCE) | 5* | 1 | U | UJ | U | U | U | U | U | U | U | U | U | U | U |
| toluene | 5* | 1 | U | U | U | U | U | U | 1.33 | 0.400 | U | U | U | U | U |
| trans-1,2-dichloroethene | 5* | 1 | U | UJ | U | U | U | U | U | U | U | U | U | U | U |
| trichlorofluoromethane | 5* | 1 | U | UJ | U | U | U | U | U | U | U | U | U | U | U |
| vinyl chloride | 2 | 1 | U | UJ | U | U | U | U | U | U | U | U | U | U | U |
| xylenes, Total | -- | 1.5 | U | UJ | U | U | U | U | U | U | U | U | U | U | U |
| **Total VOCs (µg/L)** | | | **0.15** | **0** | **0.12** | **0** | **0.100** | **0.180** | **1.330** | **0.400** | **2.85** | **0** | **0** | **0.54** | **0** |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 190 | 180 | 180 | 180 | 160 | 190 | 190 | 170 | 140 B | 180 | 170 | 170 | 160 |
| ammonia | 2 | 0.2 | U | 0.031 F | 0.046 F | 0.043 F | 0.013 F | 0.046 F | 0.31 | 0.17 | 0.054 | 0.084 B | 0.082 | 0.074 | 0.046 F |
| BOD5 | -- | 2.4 | U | U | U | U | 4.1 | U | 9.6 | 3.8 | 13 | U | U | U | U |
| bromide | 2 | 0.5 | 0.080 F | 0.19 F | 0.17 | 0.32 | U | 0.13 | 0.029 F | 0.023 F | UJ | 0.31 | 0.22 F | 0.31 | 0.24 F |
| COD | -- | 5 | 7.3 F | 17 B | 17 B | 4.1 F | 13 B | 15 | 39 | 17 | 250 | 13 | U | 6.7 F | 12 |
| chloride | 250 | 1 | 37 | 49 | 56 | 71 | 2.0 | 64 | 11 | 5.1 | 6.1 | 79 | 80 | 91 | 99 |
| color | 15 | 5 | NA | NA | U | NA | NA | U | **45** | NA | NA | U | NA | NA | U |
| cyanide, Total | 200 | 0.02 | NA | NA | U | NA | NA | U | U | NA | NA | NA | NA | NA | NA |
| Fluoride | 1.5 | 1 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| hardness, Total | -- | 1 | 220 | 220 | 230 | 250 | 200 | 280 | 250 | 220 | 210 | 250 | 250 | 260 | 270 |
| nitrate | 10 | 1 | U | U | U | U | 0.018 F | 0.033 F | 0.034 F | U | U | U | U | 0.029 F | U |
| TKN | 1 | 0.2 | U | U | U | 0.12 F | 0.088 F | 0.26 | **1.8** | 0.70 | **4.6** | 0.20 | 0.26 | U | 0.35 B |
| sulfate | 250 | 1 | 37 | 36 | 39 | 36 | 24 | 36 | 15 | 17 | 21 | 39 | 38 | 38 | 37 |
| TDS | 500 | 10 | 270 | 320 | 360 | 390 | 200 | 330 | 250 | 210 | 190 | 400 | 420 | 380 | 380 |
| TOC | -- | 1 | 0.56 F | U | U | 0.71 F | 2.7 | 0.49 F | 4.6 | 5.7 | 5.9 B | U | U | 0.46 F | 1.3 B |

For notes, please refer to the end of the tables section.

**Table 6-2**
**LF009 (Landfill 6 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class GA Groundwater Standards | Reporting Limit | LF6LH-2 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Date of Collection** | | | **9/16/2010** | **6/8/2011** | **6/21/2012** | **6/19/2013** | **6/5/2014** | **6/11/2015** | | | | | | | |
| **Sample ID No.** | | | **LF6LH0201PA** | **LF6LH0201PA** | **LF6LH0201QA** | **LF6LH0201RA** | **LF6LH0201RA** | **LF6LH0201SA** | | | | | | | |
| **Depth to Water (ft)** | | | **Leachate** | **Leachate** | **Leachate** | **Leachate** | **Leachate** | **Leachate** | | | | | | | |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | |
| 1,1,1-trichloroethane | 5* | 1 | U | NA | NA | NA | NA | NA | | | | | | | |
| 1,1-dichloroethene | 5* | 1 | U | NA | NA | NA | NA | NA | | | | | | | |
| 1,2-dichloroethane | 0.6 | 1 | U | NA | NA | NA | NA | NA | | | | | | | |
| 1,4-dichlorobenzene | 3 | 0.5 | U | NA | NA | NA | NA | NA | | | | | | | |
| acetone | 50 | 10 | 1.99 FB | NA | NA | NA | NA | NA | | | | | | | |
| benzene | 1 | 0.1 | U | NA | NA | NA | NA | NA | | | | | | | |
| carbon disulfide | 1,000 | 0.5 | U | NA | NA | NA | NA | NA | | | | | | | |
| chloroform | 7 | 0.3 | U | NA | NA | NA | NA | NA | | | | | | | |
| chloromethane | 5* | 1 | U | NA | NA | NA | NA | NA | | | | | | | |
| cis-1,2-dichloroethene | 5* | 1 | U | NA | NA | NA | NA | NA | | | | | | | |
| dichlorodifluoromethane | 5* | 1 | U | NA | NA | NA | NA | NA | | | | | | | |
| hexachlorobutadiene | 0.5* | 0.6 | U | NA | NA | NA | NA | NA | | | | | | | |
| methylene chloride | 5* | 1 | U | NA | NA | NA | NA | NA | | | | | | | |
| m,p-xylene | 5* | 2 | U | NA | NA | NA | NA | NA | | | | | | | |
| trichloroethene (TCE) | 5* | 1 | U | NA | NA | NA | NA | NA | | | | | | | |
| toluene | 5* | 1 | U | NA | NA | NA | NA | NA | | | | | | | |
| trans-1,2-dichloroethene | 5* | 1 | U | NA | NA | NA | NA | NA | | | | | | | |
| trichlorofluoromethane | 5* | 1 | U | NA | NA | NA | NA | NA | | | | | | | |
| vinyl chloride | 2 | 1 | U | NA | NA | NA | NA | NA | | | | | | | |
| xylenes, Total | -- | 1.5 | U | NA | NA | NA | NA | NA | | | | | | | |
| **Total VOCs (µg/L)** | | | **1.99** | NA | NA | **NA** | **NA** | **NA** | | | | | | | |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 160 | 160 | 120 | 140 | 290 B | 170 | | | | | | | |
| ammonia | 2 | 0.2 | 0.051 | 0.097 F | 0.022 JB | 0.22 | 0.86 | 0.089 J | | | | | | | |
| BOD5 | -- | 2.4 | U | 4.1 | U | U | U | U | | | | | | | |
| bromide | 2 | 0.5 | U | 0.19 F | U | 0.14 J | U | 0.17 J | | | | | | | |
| COD | -- | 5 | 9.0 F | U | 12 | 4300 D | 150 | 11 J | | | | | | | |
| chloride | 250 | 1 | 120 | 100 | 6.7 | 150 | 7.5 B | 180 | | | | | | | |
| color | 15 | 5 | NA | 5 | U | U | 10 | 15 | | | | | | | |
| cyanide, Total | 200 | 0.02 | U | U | U | U | U | U | | | | | | | |
| Fluoride | 1.5 | 1 | NA | NA | 0.074 J | 0.068 J | 0.10 JB | 0.11 J | | | | | | | |
| hardness, Total | -- | 1 | 300 | 240 | 160 | 2700 D | 360 B | 420 | | | | | | | |
| nitrate | 10 | 1 | U | U | 0.079 J | U | 0.095 J | 0.054 J | | | | | | | |
| TKN | 1 | 0.2 | 0.32 B | 0.45 F | 0.81 JB | **26** | **2.7** | U | | | | | | | |
| sulfate | 250 | 1 | 39 | 37 | 30 | 36 | 3.7 JB | 33 | | | | | | | |
| TDS | 500 | 10 | 360 | 360 | 190 | 380 | 350 B | 490 | | | | | | | |
| TOC | -- | 1 | 1.0 | 0.77 F | 2.3 | 39 | 10 B | 0.85 J | | | | | | | |

For notes, please refer to the end of the tables section.

**Table 6-2**

**LF009 (Landfill 6 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class A Surface Water Standards | Reporting Limit | LF6SW-1 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 7/6/2006 | 9/19/2006 | 12/14/2006 | 4/17/2007 | 6/25/2007 | 10/1/2007 | 12/11/2007 | 4/3/2008 | 6/18/2008 | 10/1/2008 | 12/10/2008 | 4/16/2009 | 6/30/2009 |
| Sample ID No. | | | LF6SW0101AA | LF6SW0101BB | LF6SW0101CA | LF6SW0101DA | LF6SW0101EA | LF6SW0101FA | LF6SW0101GA | LF6SW0101HA | LF6SW01011A | LF6SW0101JA | LF6SW0101KA | LF6SW0101LA | LF6SW0101MA |
| Depth to Water (ft) | | | Surface Water | Surface Water | Surface Water | Surface Water | Surface Water | Surface Water | Surface Water | Surface Water | Surface Water | Surface Water | Surface Water | Surface Water | Surface Water |
| **VOCs (ug/L)** | | | | | | | | | | | | | | | |
| 1,2-dichlorobenzene | 3 | 1 | U | 0.22 F | 0.110 F | U | U | U | U | U | U | U | U | U | U |
| 1,4-dichlorobenzene | 3 | 0.5 | U | 0.21 F | U | 0.120 F | U | U | 0.220 F | 0.190 F | U | U | U | U | U |
| acetone | 50 | 10 | 2.2 F | 2.21 | 1.45 F | U | 1.6 F | U | 1.51 F | U | U | U | 2.47 | 2.38 F | 1.81 F |
| benzene | 1 | 0.1 | U | U | U | U | U | U | 0.350 F | U | U | U | U | 0.110 F | U |
| carbon disulfide | -- | 0.5 | U | U | U | U | U | U | 0.170 F | U | U | U | U | U | U |
| chlorobenzene | 5 | 0.5 | 0.37 F | 0.92 | 0.560 | 0.430 F | 0.160 F | 0.210 F | 1.11 | 0.370 F | U | 0.350 F | 0.160 | 0.380 F | U |
| chloroform | 7 | 0.3 | U | U | U | U | U | U | U | U | U | U | U | 0.130 F | U |
| chloromethane | -- | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| cis-1,2-dichloroethene | 5 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| dichlorodifluoromethane | 5** | 1 | U | U | UJ | U | U | U | U | U | U | U | U | U | U |
| methylene chloride | 5 | 1 | U | U | 0.210 F | U | U | U | 0.120 F | U | U | U | U | U | U |
| tetrachloroethene | 0.7 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| trichloroethene (TCE) | 5 | 1 | U | 0.13 F | U | U | U | U | U | U | U | U | U | U | U |
| trans-1,2-Dichloroethene | 5 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| vinyl chloride | 0.3 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 276 | 370 | 230 | 190 | 230 | 250 | 240 | 180 | 130 | 210 | 96 B | 190 | 220 |
| ammonia | 2 | 0.2 | U | 0.049 F | 0.053 | 0.033 F | 0.063 | 0.041 F | 0.13 | 0.022 F | 0.19 | 0.2 | 0.059 | 0.046 F | 0.033 F |
| BOD5 | -- | 2.4 | U | 2.2 | U | U | U | U | U | U | U | U | 2.4 | U | U |
| bromide | 2 | 0.5 | 0.31 F | 0.14 F | 0.11 | 0.12 | 0.28 | 0.28 | 0.23 | 0.13 F | 0.2 | 0.26 | UJ | 0.19 F | 0.18 F |
| COD | -- | 5 | U | 50 | 20 B | 26 B | 15 B | 8.5 F | 15 B | 15 | 15 | 17 | 33 | 120 | 11 |
| chloride | 250 | 1 | 184 | 180 | 130 | 140 | 180 | 170 | 190 | 140 | 74 | 130 | 140 | 150 | 160 |
| color | 15 | 5 | **18 B** | NA | NA | NA | 15 | NA | NA | **45** | **20** | NA | NA | 10 | NA |
| Fluoride | 1.5 | 1 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| hardness, Total | -- | 1 | 370 | 340 | 300 | 250 | 340 | 350 | 330 | 260 | 200 | 300 | 150 | 260 | 320 |
| nitrate | 10 | 1 | 0.48 F | 0.42 F | 0.69 | 1.1 | 0.1 | 0.042 F | 0.72 | 0.82 | 0.24 | 0.29 | 0.49 | 0.39 F | 0.17 F |
| TKN | 1 | 0.2 | 0.087 F | 0.19 F | 0.22 F | 0.27 | 0.17 F | 0.30 B | 0.32 | 0.32 | 0.38 | 0.42 | 0.61 | 0.22 | 0.20 |
| sulfate | 250 | 1 | 52.8 | 49 | 47 | 37 | 47 | 45 | 45 | 39 | 23 | 37 | 18 | 39 | 40 |
| TDS | 500 | 10 | **695** | **640** | **570** | 480 | **610** | **640** | **640** | 480 | 340 | 490 | 410 | 490 | **590** |
| TOC | -- | 1 | 2.7 | 3.3 | 3.2 | 4.9 | 2.8 | 2.9 | 3.1 | 4.6 | 3.5 | 3.8 | 4.8 B | 2.1 | 2.3 |

For notes, please refer to the end of the tables section.

**Table 6-2**

**LF009 (Landfill 6 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class A Surface Water Standards | Reporting Limit | LF6SW-1 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 9/17/2009 | 3/24/2010 | 9/16/2010 | 6/8/2011 | 6/21/2012 | 6/19/2013 | 6/5/2014 | 6/11/2015 | | | | | |
| Sample ID No. | | | LF6SW0101NA | LF6SW0101OA | LF6SW0101PA | LF6SW0101QA | LF6SW0101QA | LF6SW0101RA | LF6SW0101RA | LF6SW0101SA | | | | | |
| Depth to Water (ft) | | | Surface Water | Surface Water | Surface Water | Surface Water | Surface Water | Surface Water | Surface Water | Surface Water | | | | | |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | |
| 1,2-dichlorobenzene | 3 | 1 | U | U | U | U | U | U | U | U | | | | | |
| 1,4-dichlorobenzene | 3 | 0.5 | U | U | U | U | U | U | U | U | | | | | |
| acetone | 50 | 10 | 3.1 F | 2.17 F | 1.97 FB | U | U | U | U | 3.2 J | | | | | |
| benzene | 1 | 0.1 | U | 0.160 F | U | U | U | U | U | U | | | | | |
| carbon disulfide | -- | 0.5 | U | U | U | U | U | U | U | U | | | | | |
| chlorobenzene | 5 | 0.5 | U | 0.400 F | U | U | U | U | U | U | | | | | |
| chloroform | 7 | 0.3 | U | U | U | U | U | U | U | U | | | | | |
| chloromethane | -- | 1 | U | U | U | U | U | U | U | U | | | | | |
| cis-1,2-dichloroethene | 5 | 1 | U | U | U | U | U | U | U | U | | | | | |
| dichlorodifluoromethane | 5** | 1 | U | U | U | U | U | U | U | U | | | | | |
| methylene chloride | 5 | 1 | U | U | U | U | U | U | U | U | | | | | |
| tetrachloroethene | 0.7 | 1 | U | U | U | U | U | U | U | U | | | | | |
| trichloroethene (TCE) | 5 | 1 | U | U | U | U | U | U | U | U | | | | | |
| trans-1,2-Dichloroethene | 5 | 1 | U | U | U | U | U | U | U | U | | | | | |
| vinyl chloride | 0.3 | 1 | U | U | U | U | U | U | U | U | | | | | |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 250 | 190 | 250 | 200 | 250 | 170 | 190 B | 140 | | | | | |
| ammonia | 2 | 0.2 | 0.032 F | U | 0.026 F | 0.16 | 0.070 JB | 0.29 | 0.23 | 0.2 | | | | | |
| BOD5 | -- | 2.4 | U | U | U | U | 3.1 J | U | 2.2 J | 1.7 J | | | | | |
| bromide | 2 | 0.5 | 0.25 F | 0.17 F | U | 0.16 F | 0.27 J | 0.19 J | 1.1 | 0.19 J | | | | | |
| COD | -- | 5 | 9.0 F | 17 | 7.9 F | 5.6 F | 7.0 J | 26 | U | 33 | | | | | |
| chloride | 250 | 1 | 180 | 120 | 180 | 150 | 190 | 140 | 160 | 76 | | | | | |
| color | 15 | 5 | NA | **30** | NA | U | U | U | 70 | **130** | | | | | |
| Fluoride | 1.5 | 1 | NA | NA | NA | NA | U | 0.071 J | 0.087 JB | 0.11 J | | | | | |
| hardness, Total | -- | 1 | 350 | 250 | 340 | 260 | 300 | 230 | 470 B | 180 | | | | | |
| nitrate | 10 | 1 | 0.16 F | 0.87 | U | 0.49 F | 0.23 J | 0.23 J | 0.26 J | 0.11 J | | | | | |
| TKN | 1 | 0.2 | 0.11 F | 0.67 B | 0.30 B | 0.51 F | 0.86 JB | 0.81 J | 0.29 J | 0.39 J | | | | | |
| sulfate | 250 | 1 | 43 | 35 | 40 | 35 | 40 | 23 | 18 B | 10 | | | | | |
| TDS | 500 | 10 | **620** | 440 | **550** | **510** | **590** | 450 | **510 B** | **320** | | | | | |
| TOC | -- | 1 | 2 | 6.4 | 2.5 | 2.3 | 2.0 | 6.0 | 6.7 B | 9.5 | | | | | |

For notes, please refer to the end of the tables section.

**Table 6-2**

**LF009 (Landfill 6 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class A Surface Water Standards | Reporting Limit | LF6SW-2 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 7/6/2006 | 9/19/2006 | 12/14/2006 | 4/17/2007 | 6/21/2007 | 10/1/2007 | 12/11/2007 | 4/3/2008 | 6/18/2008 | 10/1/2008 | 12/10/2009 | 4/16/2009 | 7/1/2009 |
| Sample ID No. | | | LF6SW0201AA | LF6SW0201BB | LF6SW0201CA | LF6SW0201DA | LF6SW0201EA | LF6SW0201FA | LF6SW0201GA | LF6SW0201HA | LF6SW02011A | LF6SW0201JA | LF6SW0201KA | LF6SW0201LA | LF6SW0201MA |
| Depth to Water (ft) | | | Surface Water | Surface Water | SurfaceWater | Surface Water | Surface Water | Surface Water | Surface Water | Surface Water | Surface Water | Surface Water | Surface Water | Surface Water | Surface Water |
| **VOCs (ug/L)** | | | | | | | | | | | | | | | |
| 1,2-dichlorobenzene | 3 | 1 | U | 0.25 F | 0.110 F | U | U | U | 0.110 F | U | U | U | U | U | U |
| 1,4-dichlorobenzene | 3 | 0.5 | U | 0.22 F | U | 0.110 F | U | U | 0.110 F | U | U | U | U | U | U |
| acetone | 50 | 10 | 1.5 F | 1.42 F | 1.18 F | 1.12 F | U | 1.26 F | 1.55 F | U | 3.20 | U | 1.73 F | 2.64 F | U |
| benzene | 1 | 0.1 | U | 0.12 F | U | U | U | U | 0.210 F | U | U | U | U | U | U |
| carbon disulfide | -- | 0.5 | U | U | U | U | U | U | 0.170 F | U | U | U | U | U | U |
| chlorobenzene | 5 | 0.5 | 0.23 F | 1.15 | 0.480 F | 0.340 F | 0.130 F | 0.130 F | 0.720 | 0.300 F | 0.200 F | 0.260 F | U | 0.280 F | U |
| chloroform | 7 | 0.3 | U | U | U | U | U | U | U | U | U | U | U | 0.110 F | U |
| chloromethane | -- | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| cis-1,2-dichloroethene | 5 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| dichlorodifluoromethane | 5** | 1 | U | U | UJ | U | U | U | U | U | U | U | U | U | U |
| methylene chloride | 5 | 1 | U | U | 0.200 F | U | U | U | 0.130 F | U | U | U | U | U | U |
| tetrachloroethene | 0.7 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| trichloroethene (TCE) | 5 | 1 | U | U | U | 0.110 F | U | U | U | U | U | U | U | U | U |
| trans-1,2-Dichloroethene | 5 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| vinyl chloride | 0.3 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 279 | 250 | 230 | 170 | 230 | 250 | 230 | 190 | 130 | 210 | 130 B | 180 | 220 |
| ammonia | 2 | 0.2 | U | 0.041 F | 0.050 | 0.024 F | 0.13 | 0.028 F | 0.14 | 0.017 F | 0.21 | 0.23 | 0.036 F | 0.15 | 0.048 F |
| BOD5 | -- | 2.4 | U | U | U | U | U | U | U | 3.0 | U | U | 2.3 | 14 | U |
| bromide | 2 | 0.5 | 0.31 F | 0.14 F | 0.11 | 0.12 F | 0.21 | 0.24 | 0.23 | 0.13 F | 0.2 | 0.25 | UJ | 0.17 F | 0.19 F |
| COD | -- | 5 | U | 16 | 16 B | 28 B | 20 B | 8.5 F | 11 B | 17 | 17 | 13 | 26 B | 15 | 18 |
| chloride | 250 | 1 | 144 | 180 | 130 | 130 | 140 | 150 | 190 | 140 | 72 | 130 | 91 | 140 | 160 |
| color | 15 | 5 | **18 B** | NA | NA | NA | **25** | NA | NA | **30** | **20** | NA | NA | **20** | NA |
| Fluoride | 1.5 | 1 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| hardness, Total | -- | 1 | 370 | 350 | 300 | 240 | 330 | 350 | 350 | 270 | 190 | 290 | 180 | 260 | 300 |
| nitrate | 10 | 1 | 0.44 F | 0.3 F | 0.67 | 0.80 | 0.11 | 0.031 F | 0.67 | 0.77 | 0.23 | 0.29 | 0.32 | 0.20 F | 0.13 F |
| TKN | 1 | 0.2 | U | 0.12 F | 0.26 F | 0.25 | 0.25 B | 0.21 B | 0.31 | 0.40 | 0.26 | 0.42 | 0.58 | **2.8** | 0.37 |
| sulfate | 250 | 1 | 52 | 53 | 46 | 36 | 47 | 44 | 45 | 39 | 23 | 37 | 22 | 38 | 41 |
| TDS | 500 | 10 | **636** | **4,600** | **550** | 460 | **580** | **600** | **630** | 470 | 310 | 460 | 370 | 390 | **600** |
| TOC | -- | 1 | 3 | 2.7 | 3.4 | 4.7 | 4.2 | 3.3 | 2.9 | 3.8 | 3.4 | 3.9 | 6.3 B | 3.6 | 2.2 |

For notes, please refer to the end of the tables section.

**Table 6-2**

**LF009 (Landfill 6 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class A Surface Water Standards | Reporting Limit | LF6SW-2 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 9/17/2009 | 3/25/2010 | 9/16/2010 | 6/8/2011 | 6/21/2012 | 6/19/2013 | 6/5/2014 | 6/11/2015 | | | | | |
| Sample ID No. | | | LF6SW0201NA | LF6SW0201OA | LF6SW0201PA | LF6SW0201PA | LF6SW0201QA | LF6SW0201RA | LF6SW0201RA | LF6SW0201SA | | | | | |
| Depth to Water (ft) | | | Surface Water | Surface Water | Surface Water | Surface Water | Surface Water | Surface Water | Surface Water | Surface Water | | | | | |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | |
| 1,2-dichlorobenzene | 3 | 1 | U | U | U | U | U | U | U | U | | | | | |
| 1,4-dichlorobenzene | 3 | 0.5 | U | U | U | U | U | U | U | U | | | | | |
| acetone | 50 | 10 | 1.54 F | 3.67 F | 1.22 FB | 4.4 F | U | U | U | 5.8 J | | | | | |
| benzene | 1 | 0.1 | U | 0.180 F | U | U | U | U | U | U | | | | | |
| carbon disulfide | -- | 0.5 | U | U | U | U | U | U | U | U | | | | | |
| chlorobenzene | 5 | 0.5 | U | 0.420 F | U | U | U | U | U | U | | | | | |
| chloroform | 7 | 0.3 | U | U | U | U | U | U | U | U | | | | | |
| chloromethane | -- | 1 | U | U | U | U | U | U | U | U | | | | | |
| cis-1,2-dichloroethene | 5 | 1 | U | U | U | U | U | U | U | U | | | | | |
| dichlorodifluoromethane | 5** | 1 | U | U | U | U | U | U | U | U | | | | | |
| methylene chloride | 5 | 1 | U | U | U | U | U | U | U | U | | | | | |
| tetrachloroethene | 0.7 | 1 | U | U | U | U | U | U | U | U | | | | | |
| trichloroethene (TCE) | 5 | 1 | U | U | U | U | U | U | U | U | | | | | |
| trans-1,2-Dichloroethene | 5 | 1 | U | U | U | U | U | U | U | U | | | | | |
| vinyl chloride | 0.3 | 1 | U | U | U | U | U | U | U | U | | | | | |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 250 | 210 | 250 | 200 | 250 | 160 | 190 B | 150 | | | | | |
| ammonia | 2 | 0.2 | 0.025 F | U | U | 0.17 | 0.075 JB | 0.27 | 0.18 | 0.17 | | | | | |
| BOD5 | -- | 2.4 | U | U | U | U | U | U | 2.5 | 1.6 J | | | | | |
| bromide | 2 | 0.5 | 0.25 F | 0.19 F | U | 0.16 F | 0.27 J | 0.19 J | 1.3 | 0.18 J | | | | | |
| COD | -- | 5 | 9.0 F | 13 | U | U | 6.3 J | 25 | 24 | 29 | | | | | |
| chloride | 250 | 1 | 170 | 140 | 170 | 150 | 180 | 140 | 160 | 78 | | | | | |
| color | 15 | 5 | NA | **20** | NA | U | U | U | **50** | **100** | | | | | |
| Fluoride | 1.5 | 1 | NA | NA | NA | NA | U | 0.072 J | 0.086 JB | 0.11 J | | | | | |
| hardness, Total | -- | 1 | 360 | 270 | 330 | 260 | 310 | 250 | 280 B | 190 | | | | | |
| nitrate | 10 | 1 | 0.15 F | 0.8 | U | 0.52 | 0.19 J | 0.23 J | 0.28 J | 0.12 J | | | | | |
| TKN | 1 | 0.2 | U | 0.43 B | 0.25 B | 0.47 F | 0.80 JB | 0.81 J | 0.29 J | 0.34 J | | | | | |
| sulfate | 250 | 1 | 43 | 37 | 40 | 35 | 39 | 24 | 19 B | 13 | | | | | |
| TDS | 500 | 10 | **620** | 480 | **510** | 490 | **560** | 440 | **510 B** | **360** | | | | | |
| TOC | -- | 1 | 2.2 | 5.2 | 2.3 | 2.1 | 2.2 | 5.7 | 6.9 B | 7.9 | | | | | |

For notes, please refer to the end of the tables section.

**Table 6-2**

**LF009 (Landfill 6 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class A Surface Water Standards | Reporting Limit | LF6SW-3 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 7/6/2006 | 9/19/2006 | 12/14/2006 | 4/18/2007 | 6/21/2007 | 10/1/2007 | 12/11/2007 | 4/7/2008 | 6/18/2008 | 10/1/2008 | 12/10/2008 | 4/16/2009 | 6/30/2009 |
| Sample ID No. | | | LF6SW0301AA | LF6SW0301BB | LF6SW0301CA | LF6SW0301DA | LF6SW0301EA | LF6SW0301FA | LF6SW0301GA | LF6SW0301HA | LF6SW03011A | LF6SW0301JA | LF6SW0301KA | LF6SW0301LA | LF6SW0301MA |
| Depth to Water (ft) | | | Surface Water | Surface Water | Surface Water | Surface Water | Surface Water | Surface Water | Surface Water | Surface Water | Surface Water | Surface Water | Surface Water | Surface Water | Surface Water |
| **VOCs (ug/L)** | | | | | | | | | | | | | | | |
| 1,2-dichlorobenzene | 3 | 1 | U | U | U | UJ | U | U | U | U | U | U | U | U | U |
| 1,4-dichlorobenzene | 3 | 0.5 | U | 0.1 F | U | UJ | 0.130 F | U | U | U | U | U | U | U | U |
| acetone | 50 | 10 | 1.2 F | 1.4 F | U | UJ | U | U | U | U | 2.94 F | U | 2.49 F | 2.01 F | 2.16 F |
| benzene | 1 | 0.1 | U | U | U | UJ | U | U | 0.140 F | U | U | U | U | U | U |
| carbon disulfide | -- | 0.5 | U | U | U | U | U | U | 0.140 F | U | U | U | U | U | U |
| chlorobenzene | 5 | 0.5 | U | 0.13 F | 0.310 F | 0.370 F | U | U | 0.470 F | U | U | U | 0.140 F | 0.220 F | U |
| chloroform | 7 | 0.3 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| chloromethane | -- | 1 | U | U | U | UJ | U | U | U | U | U | U | U | U | U |
| cis-1,2-dichloroethene | 5 | 1 | U | U | U | UJ | U | U | U | U | U | U | U | U | U |
| dichlorodifluoromethane | 5** | 1 | U | U | UJ | UJ | U | U | U | U | U | U | U | U | U |
| methylene chloride | 5 | 1 | U | U | U | 0.130 F | U | U | 0.140 F | U | U | U | U | U | U |
| tetrachloroethene | 0.7 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| trichloroethene (TCE) | 5 | 1 | U | U | U | UJ | U | U | U | U | U | U | U | U | U |
| trans-1,2-Dichloroethene | 5 | 1 | U | U | U | U | U | U | U | U | U | U | U | U | U |
| vinyl chloride | 0.3 | 1 | U | U | U | UJ | U | U | U | U | U | U | U | U | U |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 267 | 220 | 220 | 180 | 220 | 240 | 230 | 180 | 140 | 190 | 100 B | 190 | 230 |
| ammonia | 2 | 0.2 | U | 0.067 B | 0.029 F | 0.021 F | 0.17 | 0.031 F | 0.091 | 0.022 F | 0.17 | 0.15 | 0.057 | 0.041 F | 0.028 F |
| BOD5 | -- | 2.4 | U | U | U | U | U | U | U | U | U | U | 2.3 | 2.6 | U |
| bromide | 2 | 0.5 | 0.31 F | 0.2 F | 0.11 | 0.14 F | 0.23 | 0.26 | 0.23 | 0.16 | 0.21 F | 0.25 | UJ | 0.18 F | 0.21 F |
| COD | -- | 5 | 26.7 B | 11 | 22 B | 21 B | 17 B | 8.5 F | 11 B | 11 | 13 | 10 | 26 B | 87 | 14 |
| chloride | 250 | 1 | 154 | 160 | 120 | 140 | 140 | 150 | 170 | 130 | 70 | 120 | 120 | 140 | 150 |
| color | 15 | 5 | 13 B | NA | NA | NA | **20** | NA | NA | **20** | **20** | NA | NA | 10 | NA |
| Fluoride | 1.5 | 1 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| hardness, Total | -- | 1 | 340 | 380 | 290 | 250 | 310 | 330 | 290 | 240 | 180 | 300 | 140 | 270 | 290 |
| nitrate | 10 | 1 | 0.38 F | 0.15 F | 0.60 | 0.77 | 0.12 F | 0.041 F | 0.59 | 0.45 | 0.23 F | 0.25 | 0.48 | 0.37 F | 0.13 F |
| TKN | 1 | 0.2 | U | 0.22 F | 0.21 F | 0.20 | 0.31 B | 0.17 F | 0.19 F | 0.19 F | 0.34 | 0.35 | 0.5 | 0.24 | 0.19 F |
| sulfate | 250 | 1 | 50.1 | 47 | 44 | 37 | 46 | 42 | 43 | 36 | 23 | 37 | 17 | 37 | 39 |
| TDS | 500 | 10 | **620** | **570** | **520** | **500** | **550** | **630** | **590** | 460 | 320 | 390 | 370 | 470 | **590** |
| TOC | -- | 1 | 2.6 | 2.8 | 3.7 | 4.0 | 3.6 | 3.6 | 2.9 | 2.7 | 3.1 | 3.4 | 4.7 B | 2.1 | 2.0 |

For notes, please refer to the end of the tables section.

**Table 6-2**

**LF009 (Landfill 6 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class A Surface Water Standards | Reporting Limit | LF6SW-3 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 9/17/2009 | 3/24/2010 | 9/16/2010 | 6/6/2011 | 6/202012 | 6/18/2013 | 6/5/2014 | 6/11/2015 | | | | | |
| Sample ID No. | | | LF6SW0301NA | LF6SW0301OA | LF6SW0301PA | LF6SW0301PA | LF6SW0301QA | LF6SW0301RA | LF6SW0301RA | LF6SW0301SA | | | | | |
| Depth to Water (ft) | | | Surface Water | Surface Water | Surface Water | SurfaceWater | SurfaceWater | Surface Water | Surface Water | Surface Water | | | | | |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | |
| 1,2-dichlorobenzene | 3 | 1 | U | U | U | U | U | U | U | U | | | | | |
| 1,4-dichlorobenzene | 3 | 0.5 | U | U | U | U | U | U | U | U | | | | | |
| acetone | 50 | 10 | 2.49 F | 2.60 F | 1.34 FB | 3.1 F | U | 2.5 J | U | 4.2 J | | | | | |
| benzene | 1 | 0.1 | U | 0.110 F | U | U | U | U | U | U | | | | | |
| carbon disulfide | -- | 0.5 | U | U | U | U | U | U | U | U | | | | | |
| chlorobenzene | 5 | 0.5 | U | 0.300 F | U | U | U | U | U | U | | | | | |
| chloroform | 7 | 0.3 | U | U | U | U | U | U | U | U | | | | | |
| chloromethane | -- | 1 | U | U | U | U | U | U | U | U | | | | | |
| cis-1,2-dichloroethene | 5 | 1 | U | U | U | U | U | U | U | U | | | | | |
| dichlorodifluoromethane | 5** | 1 | U | U | U | U | U | U | U | U | | | | | |
| methylene chloride | 5 | 1 | U | U | U | U | U | U | U | U | | | | | |
| tetrachloroethene | 0.7 | 1 | U | U | U | U | U | U | U | U | | | | | |
| trichloroethene (TCE) | 5 | 1 | U | U | U | U | U | U | U | U | | | | | |
| trans-1,2-Dichloroethene | 5 | 1 | U | U | U | U | U | U | U | U | | | | | |
| vinyl chloride | 0.3 | 1 | U | U | U | U | U | U | U | U | | | | | |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | 240 | 190 | 240 | 200 | 230 | 160 | 190 B | 150 | | | | | |
| ammonia | 2 | 0.2 | 0.059 | U | U | 0.24 | 0.28 B | 0.23 | 0.13 | 0.22 | | | | | |
| BOD5 | -- | 2.4 | U | U | U | U | 1.6 J | U | 1.9 J | 1.5 J | | | | | |
| bromide | 2 | 0.5 | 0.23 F | 0.18 F | U | 0.17 F | 0.26 J | 0.18 J | 1.2 | 0.19 J | | | | | |
| COD | -- | 5 | 11 | 19 | 7.9 F | 4.6 F | 10 J | 28 | 24 | 29 | | | | | |
| chloride | 250 | 1 | 160 | 110 | 170 | 150 | 170 | 120 | 150 | 77 | | | | | |
| color | 15 | 5 | NA | **30** | NA | U | 15 | U | **60** | **100** | | | | | |
| Fluoride | 1.5 | 1 | NA | NA | NA | NA | U | 0.070 J | 0.088 JB | 0.11 J | | | | | |
| hardness, Total | -- | 1 | 350 | 240 | 330 | 250 | 300 | 230 | 260 B | 190 | | | | | |
| nitrate | 10 | 1 | 0.13 F | 0.87 | U | 0.43 F | 0.19 J | 0.25 J | 0.25 J | 0.13 J | | | | | |
| TKN | 1 | 0.2 | 0.14 F | 0.61 B | 0.24 B | 0.53 F | 0.78 JB | **1.0** | 0.25 J | 0.57 J | | | | | |
| sulfate | 250 | 1 | 41 | 32 | 40 | 35 | 39 | 23 | 21 B | 13 | | | | | |
| TDS | 500 | 10 | **590** | 430 | **530** | 490 | **520** | 410 | 490 B | **330** | | | | | |
| TOC | -- | 1 | 1.9 | 6.2 | 2.4 | 2.2 | 2.3 | 6.5 | 6.2 B | 7.9 | | | | | |

For notes, please refer to the end of the tables section.

**Table 6-2**

**LF009 (Landfill 6 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class A Surface Water Standards | Reporting Limit | LF6W-1 | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 7/6/2006 | 9/19/2006 | 12/14/2006 | 4/17/2007 | 6/21/2007 | 10/1/2007 | 12/11/2007 | 4/8/2008 | 6/18/2008 | 10/1/2008 | 12/10/2008 | 4/16/2009 | 7/1/2009 |
| Sample ID No. | | | NS | NS | LF6WT0101CA | LF6WT0101DA | LF6WT0101EA | LF6WT0101FA | LF6WT0101GA | LF6WT0101HA | LF6WT0101IA | LF6WT0101JA | LF6WT0101KA | LF6WT0101LA | LF6WT0101MA |
| Depth to Water (ft) | | | Surface Water | Surface Water | Surface Water | Surface Water | Surface Water | Surface Water | Surface Water | Surface Water | Surface Water | Surface Water | Surface Water | Surface Water | Surface Water |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | |
| 1,2-dichlorobenzene | 3 | 1 | NS | NS | U | U | NS | NS | NS | U | NS | NS | U | U | U |
| 1,4-dichlorobenzene | 3 | 0.5 | NS | NS | U | U | NS | NS | NS | 0.190 F | NS | NS | U | U | U |
| acetone | 50 | 10 | NS | NS | 2.17 F | U | NS | NS | NS | U | NS | NS | U | 1.70 F | 1.87 F |
| benzene | 1 | 0.1 | NS | NS | U | U | NS | NS | NS | U | NS | NS | U | U | U |
| carbon disulfide | -- | 0.5 | NS | NS | U | U | NS | NS | NS | U | NS | NS | U | U | U |
| chlorobenzene | 5 | 0.5 | NS | NS | U | U | NS | NS | NS | U | NS | NS | U | U | U |
| chloroform | 7 | 0.3 | NS | NS | U | U | NS | NS | NS | U | NS | NS | U | U | U |
| chloromethane | -- | 1 | NS | NS | U | U | NS | NS | NS | U | NS | NS | U | U | U |
| cis-1,2-dichloroethene | 5 | 1 | NS | NS | 2.13 | 2.67 J | NS | NS | NS | U | NS | NS | U | **11.7** | **27.4** |
| dichlorodifluoromethane | 5** | 1 | NS | NS | UJ | U | NS | NS | NS | U | NS | NS | U | U | U |
| methylene chloride | 5 | 1 | NS | NS | 0.300 F | U | NS | NS | NS | U | NS | NS | U | U | U |
| tetrachloroethene | 0.7 | 1 | NS | NS | U | U | NS | NS | NS | U | NS | NS | 0.110 F | 0.660 F | 0.420 F |
| trichloroethene (TCE) | 5 | 1 | NS | NS | 0.140 F | 0.460 F | NS | NS | NS | U | NS | NS | U | **11.0** | **12.9** |
| trans-1,2-Dichloroethene | 5 | 1 | NS | NS | U | U | NS | NS | NS | U | NS | NS | U | 0.220 F | 0.350 F |
| vinyl chloride | 0.3 | 1 | NS | NS | **0.690 F** | U | NS | NS | NS | U | NS | NS | U | **3.36** | **3.36** |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | NS | NS | 260 | 170 | NS | NS | NS | 180 | NS | NS | 190 B | 390 | 480 |
| ammonia | 2 | 0.2 | NS | NS | U | U | NS | NS | NS | 0.021 F | NS | NS | U | 0.72 | 1.2 |
| BOD5 | -- | 2.4 | NS | NS | U | U | NS | NS | NS | U | NS | NS | U | U | 3.5 |
| bromide | 2 | 0.5 | NS | NS | U | 0.044 F | NS | NS | NS | 0.035 F | NS | NS | UJ | 0.093 F | 0.1 |
| COD | -- | 5 | NS | NS | 22 B | 19 B | NS | NS | NS | 81 | NS | NS | 35 | 8.2 F | U |
| chloride | 250 | 1 | NS | NS | 1.8 | 11 | NS | NS | NS | 8.5 | NS | NS | 6.8 | 2.1 | 2.2 |
| color | 15 | 5 | NS | NS | NA | NA | NS | NS | NS | **20** | NS | NS | NA | U | NA |
| Fluoride | 1.5 | 1 | NS | NS | NA | NA | NS | NS | NS | NA | NS | NS | NA | NA | NA |
| hardness, Total | -- | 1 | NS | NS | 280 | 180 | NS | NS | NS | 200 | NS | NS | 200 | 410 | 500 |
| nitrate | 10 | 1 | NS | NS | 0.022 F | 0.41 | NS | NS | NS | 0.24 B | NS | NS | 0.28 B | U | U |
| TKN | 1 | 0.2 | NS | NS | 0.24 F | 0.15 F | NS | NS | NS | **1.3** | NS | NS | 0.51 | **2.6** | 1.8 |
| sulfate | 250 | 1 | NS | NS | 28 | 12 | NS | NS | NS | 20 | NS | NS | 7.2 | 39 | 46 J |
| TDS | 500 | 10 | NS | NS | 340 | 220 | NS | NS | NS | 180 | NS | NS | 180 | 470 | **600** |
| TOC | -- | 1 | NS | NS | 5.9 | 4.7 | NS | NS | NS | 6.0 | NS | NS | 5.6 B | 7.7 | 7.2 |

For notes, please refer to the end of the tables section.

**Table 6-2**

**LF009 (Landfill 6 AOC) Groundwater and Surface Water Sampling Results**

| Location of Well | NYSDEC Class A Surface Water Standards | Reporting Limit | LF6W-1 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date of Collection | | | 9/17/2009 | 3/24/2010 | 9/15/2010 | 6/6/2011 | 6/21/2012 | 6/19/2013 | 6/5/2014 | 6/11/2015 | | | | | |
| Sample ID No. | | | LF6WT0101NA | LF6WT0101OA | | | | LF6WT0101RA | | | | | | | |
| Depth to Water (ft) | | | Surface Water | Surface Water | Surface Water | Surface Water | Surface Water | Surface Water | Surface Water | Surface Water | | | | | |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | |
| 1,2-dichlorobenzene | 3 | 1 | NS | U | NS | NS | NS | NS | NS | NS | | | | | |
| 1,4-dichlorobenzene | 3 | 0.5 | NS | U | NS | NS | NS | NS | NS | NS | | | | | |
| acetone | 50 | 10 | NS | 2.29 F | NS | NS | NS | NS | NS | NS | | | | | |
| benzene | 1 | 0.1 | NS | U | NS | NS | NS | NS | NS | NS | | | | | |
| carbon disulfide | -- | 0.5 | NS | U | NS | NS | NS | NS | NS | NS | | | | | |
| chlorobenzene | 5 | 0.5 | NS | U | NS | NS | NS | NS | NS | NS | | | | | |
| chloroform | 7 | 0.3 | NS | U | NS | NS | NS | NS | NS | NS | | | | | |
| chloromethane | -- | 1 | NS | U | NS | NS | NS | NS | NS | NS | | | | | |
| cis-1,2-dichloroethene | 5 | 1 | NS | U | NS | NS | NS | NS | NS | NS | | | | | |
| dichlorodifluoromethane | 5** | 1 | NS | U | NS | NS | NS | NS | NS | NS | | | | | |
| methylene chloride | 5 | 1 | NS | U | NS | NS | NS | NS | NS | NS | | | | | |
| tetrachloroethene | 0.7 | 1 | NS | U | NS | NS | NS | NS | NS | NS | | | | | |
| trichloroethene (TCE) | 5 | 1 | NS | U | NS | NS | NS | NS | NS | NS | | | | | |
| trans-1,2-Dichloroethene | 5 | 1 | NS | U | NS | NS | NS | NS | NS | NS | | | | | |
| vinyl chloride | 0.3 | 1 | NS | U | NS | NS | NS | NS | NS | NS | | | | | |
| **Leachate Indicators (mg/L)** | | | | | | | | | | | | | | | |
| alkalinity, Total | -- | 10 | NS | 190 | NS | NS | NS | 180 | NS | NS | | | | | |
| ammonia | 2 | 0.2 | NS | U | NS | NS | NS | 0.063 J | NS | NS | | | | | |
| BOD5 | -- | 2.4 | NS | U | NS | NS | NS | U | NS | NS | | | | | |
| bromide | 2 | 0.5 | NS | U | NS | NS | NS | 0.14 J | NS | NS | | | | | |
| COD | -- | 5 | NS | 6.7 F | NS | NS | NS | 140 | NS | NS | | | | | |
| chloride | 250 | 1 | NS | 1.8 | NS | NS | NS | 0.96 J | NS | NS | | | | | |
| color | 15 | 5 | NS | U | NS | NS | NS | U | NS | NS | | | | | |
| Fluoride | 1.5 | 1 | NS | NA | NS | NS | NS | 0.086 J | NS | NS | | | | | |
| hardness, Total | -- | 1 | NS | 230 | NS | NS | NS | 220 | NS | NS | | | | | |
| nitrate | 10 | 1 | NS | **12** | NS | NS | NS | U | NS | NS | | | | | |
| TKN | 1 | 0.2 | NS | 0.77 | NS | NS | NS | **1.1** | NS | NS | | | | | |
| sulfate | 250 | 1 | NS | 4.2 | NS | NS | NS | 2.4 J | NS | NS | | | | | |
| TDS | 500 | 10 | NS | 200 | NS | NS | NS | 220 | NS | NS | | | | | |
| TOC | -- | 1 | NS | 4.1 | NS | NS | NS | 14 | NS | NS | | | | | |

For notes, please refer to the end of the tables section.

**Table 6-3**
**LF009 (Landfill 6 AOC) LTM Network**

| Sampling Locations | Screen Interval Depth (ft MSL) | Sampling Rationale | Target Analytes/ Method Numbers[1] | Matrix | # of Samples | Sampling Frequency | 2016 Recommended Sampling Frequency | Evaluation Criteria |
|---|---|---|---|---|---|---|---|---|
| **Groundwater** | | ---------- | Landfill Leachate Indicators: | Water | 23 | Annually | Annually | If downgradient wells do not exhibit exceedances of NYS Groundwater Standards or Base background levels for two successive monitoring events, evaluate monitoring frequency and number of wells. |
| LF6MW-1 | 460.8' – 450.8' | Upgradient well | Anions – SW9056 | | | | | |
| TMC-USGS-2 | 428.6' – 426.1' | Downgradient from landfill | Nitrogen (TKN) – 351.2 | | | | | |
| 775VMW-18R | 423.7' – 413.7' | Upgradient well | Ammonia – 350.2 | | | | | |
| 775VMW-20R | 413.9' – 403.9' | Upgradient well | COD – 410.4 | | | | | |
| LF6VMW-10R2 | 439.2' – 429.2' | Downgradient from landfill | BOD – 405.1 | | | | | |
| LF6VMW-17S[2] | 457.18' – 447.18' | Downgradient, vertical profile | TOC – SW9060 | | | | | |
| LF6VMW-17D[2] | | | TDS – 160.1 | | | | | |
| LF6VMW-18[3] | 422.1' – 412.1' | Downgradient, vertical profile | Alkalinity – 310.1 | | | | | |
| LF6VMW-19[3] | 411.88' – 421.88' | Downgradient, vertical profile | Phenols – SW9066 | | | | | |
| LF6VMW-20[3] | 438.95' – 428.95' | Downgradient, vertical profile | Hardness – 130.2 | | | | | |
| LF6VMW-21[3] | 398.26' – 388.26' | Downgradient, vertical profile | Color – 110.2 | | | | | |
| LF6VMW-22[3] | 434.93' – 424.93' | Upgradient well | Boron – SW6010B | | | | | |
| **Leachate Locations** | 435.76' – 425.76' | Downgradient, vertical profile | | | | | | |
| LF6LH-1 | | | | | | | | |
| LF6LH-2 | | | | | | | | |
| | | Leachate locations | | | | | | |

**Table 6-3 (continued)**
**LF009 (Landfill 6 AOC) LTM Network**

| Sampling Locations | Screen Interval Depth (ft MSL) | Sampling Rationale | Target Analytes/ Method Numbers[1] | Matrix | # of Samples | Sampling Frequency | 2016 Recommended Sampling Frequency | Evaluation Criteria |
|---|---|---|---|---|---|---|---|---|
| **Groundwater**<br>775VMW-10<br>LF6MW-12<br>LF6VMW-23[2]<br>LF6VMW-24[2]<br>LF6VMW-25[2]<br>LF6VMW-26[3]<br>TMCMW-9<br><br>**Surface Water (TMC)**<br>LF6/TMCSW-1<br>LF6/TMCSW-2<br>LF6/TMCSW-3<br><br>**Wetlands**<br>LF6W-1 | 427.1' – 412.1'<br>416.59' – 406.59'<br>424.57' – 414.57'<br>419.25' – 409.25'<br>416.6' – 406.6'<br>412.9' – 402.9'<br>439.16' – 429.16' | Upgradient well<br>Downgradient from landfill<br>Downgradient, vertical profile<br>Downgradient, vertical profile<br>Downgradient, vertical profile<br>Downgradient from landfill<br>Downgradient from landfill<br><br>----------<br>Potential contaminant receptor<br>Potential contaminant receptor<br>Potential contaminant receptor<br><br>Potential contaminant receptor | VOCs – SW8260<br>Landfill Leachate Indicators:<br>Anions – SW9056<br>Nitrogen (TKN) – 351.2<br>Ammonia – 350.2<br>COD – 410.4<br>BOD – 405.1<br>TOC – SW9060<br>TDS – 160.1<br>Alkalinity – 310.1<br>Phenols – SW9066<br>Hardness – 130.2<br>Color – 110.2<br>Boron – SW6010B | Water | 23 | Annually | Annually for Landfill Leachate Indicators only. Eliminate VOC analysis at these wells. VOCs will be monitored under the associated SD052-04 (Landfill 6 OU) network. | If downgradient wells do not exhibit exceedances of NYS Groundwater Standards or Base background levels for two successive monitoring events, evaluate monitoring frequency and number of wells.<br><br>Surface water analytes and frequency will be varied to follow groundwater program. |
| **Gas Sampling**<br>Gas monitoring probes/vents | | In accordance with 6 NYCRR 360-2.17(f) | Methane (FID/CGI) | Gas | 13 probes<br>16 vents | Annual | Annual | |

1 Baseline parameters based on 6 NYCRR Part 360, Subpart 2, Appendix A.

# Notes and Data Qualifiers

B = The analyte was found in an associated blank, as well as in the sample.

F = The analyte was positively identified above MDL, however the concentration is below the reporting limit (RL).

J = For the 2002 to 2010 results, the analyte was positively identified, but the quantitation is an approximation.

J = For the 2011 and 2012 results, the analyte was positively identified above MDL, however the concentration is below the reporting limit (RL).

M = A matrix effect was present.

U = The analyte was analyzed for, but not detected. The associated numerical value is at or below the method detection limit.

UJ = The result is estimated at the method detection limit.

UM = A matrix effect was present; the analyte was not detected above the method detection limit.

NA = Not analyzed

NS = Not sampled

R = The data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria.

* - Color is analyzed in Platinum Cobalt Units (PCU)

♦ = Duplicate value was used.

-- = No value reported

= Value exceeded NYSDEC Groundwater standard.