DEPARTMENT OF THE AIR FORCE
AIR FORCE CIVIL ENGINEER CENTER

November 15, 2024

MEMORANDUM FOR: U.S. Environmental Protection Agency – Region 2
Attn: Mr. Robert Morse
Federal Facilities Section
290 Broadway, 18th Floor
New York, NY 10007-1866

New York State Department of Environmental Conservation
Attn: Ms. Heather Bishop
Bureau of Eastern Remedial Action
625 Broadway 12th Floor
Albany, NY 12233-7015

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

SUBJECT: Final 2023 Long Term Monitoring of Landfill Areas of Concern, Former Griffiss Air Force Base, Rome, New York. November 2024

Accompanying this letter, please find the subject document, delivered electronically, for the former Griffiss Air Force Base (AFB) for your records. This document provides the following recommendations for landfills at Griffiss AFB based on the 2023 inspections.

LF001 recommendations include:

- Landfill gas vents be serviced, repaired, or replaced as needed.
- Landfill gas monitoring for the Fall 2024 event include the following locations consistent with the Fall 2023 event:
  - LF1GMP-01 to -04, -06, -09, -10
  - LF1GV-01 to -14, -17 to -22, -25, and -27
- Future sampling activity at LF001 be conducted during the winter months to ensure the greatest chances of successfully accessing all the sampling locations.
- Continue with biennial groundwater and surface water sampling to next occur in 2024, and then be reduced to occur every five years.

LF002 recommendations include:

- Removal of downed trees or branches on fences during inspections.
- Cease monitoring landfill gas sampling locations LF2GMP-06 and LF2VENT-12.
- Conduct landfill gas monitoring for the Fall of 2024 event at locations LF2GMP-02 and LF2VENT-04 through -07.

- Continue with five-year groundwater and surface water sampling frequency to next occur in 2024.

LF003 recommendations include:

- Continue with five-year groundwater and surface water sampling frequency to next occur in 2024.

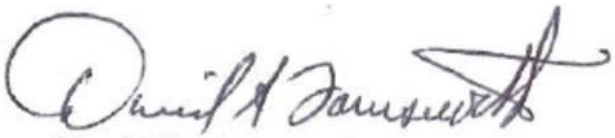
LF007 recommendations include:

- Continue with five-year groundwater and surface water sampling frequency to next occur in 2024.
- Stabilization of the well pat at MW49D07.

LF009 recommendations include:

- Cease monitoring landfill gas sampling locations LF6VENT-06.
- Conduct landfill gas monitoring for the Fall of 2024 event at locations LF6VENT-02, -03, and -04
- Continue with five-year groundwater and surface water sampling frequency to next occur in 2024.

Should you have any questions or concerns please contact me at 518-563-2871 or david.farnsworth@us.af.mil.



DAVID S. FARNSWORTH, DAF
Program Manager/BRAC Environmental Coordinator
BRAC Program Management Division

cc: See Attachment 2 Distribution List

Attachments:

1. Final 2023 Long Term Monitoring of Landfill Areas of Concern
2. Distribution List

Distribution Requirements
Final 2023 Long Term Monitoring of Landfill Areas of Concern, Former Griffiss Air Force Base, Rome, New York. October 2024
November 15, 2024

This report is being provided electronically only. The electronic delivery instructions will be provided via email. Hard copies and CDs will be provided, as needed.

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FINAL
2023 LONG TERM MONITORING OF LANDFILL AREAS OF CONCERN
FORMER GRIFFISS AIR FORCE BASE
ROME, NEW YORK

Document Control No. NEBECOS-0369-GRI

PREPARED FOR: Mr. David Farnsworth/Former Griffiss Air Force Base, Base Realignment and Closure (BRAC) Environmental Coordinator (BEC) and Contracting Officer's Representative (COR)

PREPARED BY: Bhate Environmental Associates, Inc.

COPIES: Mr. Robert Morse, United States Environmental Protection Agency
Ms. Heather Bishop, New York State Department of Environmental Conservation

DATE: 6 November 2024

INTRODUCTION AND OBJECTIVES

Bhate Environmental Associates, Inc. (Bhate), in association with Environmental Chemical Corporation (ECC), was retained by the Air Force Civil Engineer Center (AFCEC) under Contract Number FA8903-20-D-0001 to perform long term monitoring (LTM) activities at the Former Griffiss Air Force Base (AFB). This annual reporting has been prepared for the Former Griffiss AFB landfill areas of concern (AOCs) to document LTM completed at these landfills during calendar year 2023. Locations of the Former Griffiss AFB and the five landfill AOCs are presented on **Attachment 1 - Figure 1** and include:

- LF001 – Landfill 1 AOC
- LF002 – Landfill 2/3 AOC
- LF003 – Landfill 7 AOC
- LF007 – Landfill 5 AOC
- LF009 – Landfill 6 AOC

In accordance with the New York Codes of Rules and Regulations (NYCRR) Title 6, Part 360 Regulations (6 NYCRR Part 360) New York State Department of Environmental Conservation [NYSDEC], December 2016) an LTM program was developed for each landfill AOC. The selected presumptive remedy alternatives, as described in their associated Records of Decision (RODs), were implemented at Former Griffiss AFB landfills. These presumptive remedies include the use of engineering controls, institutional controls (ICs), and monitoring.

Per 6 NYCRR Part 360 requirements, the gas monitoring points at LF001, LF002, and LF009 must be maintained and sampled during the post-closure period for a minimum of 30 years. Since each of these landfills has been monitored for over 5 years, modifications to sampling and analysis requirements may be requested. Under 6 NYCRR Part 360, the concentration of methane and other explosive gases generated by the facility must not exceed 25 percent (%) of the lower explosive limit (LEL) for gases in structures on or off-site, excluding gas control or recovery system components; and the LEL for the gases at or beyond the property boundary. Therefore, further optimization or removal of a probe or vent from the monitoring program is based upon four consecutive years of minimal or no LEL detections, as was determined in the 2016 Draft Technical Memorandum (Bhate, January 2016) based on response to AFCEC comment.

LF001 – LANDFILL 1 AOC

LF001 (Landfill 1 AOC) is in the northern portion of the Former Griffiss AFB and is approximately 22 acres in size. **Attachment 1 - Figure 2** presents the LF001 site map, including the locations of gas monitoring probes (identified by "GMP") and gas vents (identified by "VENT"). The wastes disposed within LF001 consisted of general refuse, hard-fill, and boiler ash, buried using trench and cover methods. An estimated 90,000 to 100,000 cubic yards (CY) of wastes were disposed at the site from 1960 to 1973. Groundwater flow rate at LF001 is approximately 2,000 feet per year, and groundwater flows to the southwest (FPM Remediations, Inc. [FPM]/CAPE, December 2015). The ROD for LF001 was signed by the United States Environmental Protection Agency (USEPA) on June 5, 2000 (Air Force Real Property Agency [AFRPA], February 2000). The landfill was re-graded and capped in 2003. The cap components include a gas venting layer, a low-permeability layer, drainage layer, barrier protection layer, and a topsoil layer. The Final Amendment to the ROD for LF001 was signed by the USEPA on September 25, 2009 (AFRPA, September 2009). The remedial action objectives (RAOs) for LF001 are:

- Consolidation of various debris and waste areas into the main landfill boundary to reduce the area to be capped and the potential for nearby wildlife and human populations to be exposed to the landfill mass
- Significantly reduce infiltration of rainwater and snow-melt water through the landfill mass to minimize the potential for leachate generation and groundwater contamination
- Monitoring the groundwater and stream environment (which may include, but not necessarily limited to, sediment, surface water, and biota) downgradient of the site to evaluate the effectiveness of the presumptive remedy

Landfill Inspections

Since April 2005, landfill inspections and cover maintenance have been performed at LF001. Inspections and maintenance were optimized following the Spring 2010 monitoring event and are now conducted on a semi-annual basis (Spring and Fall) with annual landfill cover mowing and gas monitoring performed in the Fall. Land Use Controls (LUCs)/ICs were implemented in accordance with the ROD and are verified annually as part of the landfill cover inspection program.

During the current reporting period, landfill inspections were performed on May 9 through May 12, 2023 (Spring inspection) and September 19 and 20, 2023 (Fall inspection). The locations and

orientations of photographs taken during the two LF001 inspections are presented on **Attachment 1 - Figure 2**. Landfill inspection reports and photographs are presented in **Attachment 2**.

During the Spring inspection, the LF1GV-27 turbine was observed to be non-operational due to rusting and was cleaned and lubricated. Animal nesting activity was observed in the LV1GV-29 turbine and cleared. Numerous vent turbines, although not seized, were not rotating freely despite windy conditions and were subsequently lubricated. Additional required repairs identified during the Spring 2023 inspection included an unseated bearing on LF1VENT-15 and a damaged bottom bearing on LF1VENT-2. During the Fall 2023 inspection, all vent turbines were functional; however, several vent turbines were identified to require service in Spring 2024. No animal burrows or cap damage were observed during either Spring or Fall 2023 inspection events.

Landfill Gas Monitoring

Landfill gas monitoring is performed at LF001 to identify the presence and concentration of methane at or near the landfill. There were 18 gas monitoring points and 31 gas vents installed when the landfill was capped. Installation of two gas monitoring points (LF1GMP-05 and LF1GMP-07) was not completed due to high water table levels (FPM, January 2005). One vent, LF1GV-23, was abandoned in 2005 during installation of the passive gas trench (AFRPA, April 2010). Eleven gas monitoring points (LF1GMP-08, and -11 through -20) and eight vents (LF1GV-15, -16, -24, -26, and -28 through -31) have been removed from the monitoring program after four consecutive years of minimal or no LEL detections.

Landfill gas monitoring was conducted on September 19, 2023 at seven gas monitoring probes (LF1GMP-01 through -04, -06, -09, and -10) and 22 vents (LF1GV-01 through -14, -17 through -22, -25, and -27). Landfill gas monitoring results for the current and prior three years are presented in **Attachment 3 – Table 1**. Historical landfill gas monitoring results are presented in **Appendix A**. Methane concentrations exceeded 100% of the LEL of 5% at five of the seven gas monitoring probes: LF1GMP-02, LF1GMP-03, LF1GMP-06, LF1GMP-09, and LF1GMP-10. These probes are located south, west, and north of the landfill boundary (**Attachment 1 - Figure 2**).

Methane concentrations did not exceed 100% of the LEL of 5% at any of the 22 gas vents. Methane concentration was measured at 0.2% (4% LEL) at LF1GV-25; the remaining gas vents were 0% of the LEL. (**Attachment 3 - Table 1**).

Groundwater and Surface Water Sampling

Water samples are collected biennially from select locations at LF001. The last sampling was conducted in December 2022 and the next sampling event is planned for 2024.

Beaver Activities

Beaver removal was conducted in July 2020. During the May 2021 inspection, beaver activity was present at the site. Breaches to the beaver dam made by the beaver control subcontractor in 2020 were found to have been repaired and the pond had refilled. During the 2023 landfill inspections, the beaver pond was full, with signs of an active beaver population and a wide variety of wildlife.

Conclusions and Recommendations

The 2023 inspections did not identify any major deficiencies that would jeopardize the integrity of the cover, and there is optimal vegetation cover present on the cap. Based on the *Final Basewide Uniform Federal Policy – Quality Assurance Project Plan, Long Term Monitoring, Former Griffiss Air Force Base, Rome, New York* (UFP-QAPP) (Bhate, April 2022), it is recommended that the frequency of landfill cap inspections continue semi-annually with a limited landfill inspection in the Spring and the more comprehensive inspection in the Fall to correlate with annual mowing and landfill gas monitoring. To address the maintenance and repair items identified in 2023, the following activities are recommended to be performed in 2024:

- Landfill gas vents will be serviced, repaired, or replaced as needed

Based on historical landfill gas monitoring coupled with the 2023 gas monitoring results, the passive gas trench along the northwest side of the landfill is operating properly. As such, it is recommended that landfill gas monitoring for the Fall of 2024 event includes the following locations consistent with the Fall 2023 event.

- LF1GMP-01 to -04, -06, -09, -10
- LF1GV-01 to -14, -17 to -22, -25, and -27

Measures to remove beaver activities along Six Mile Creek at the toe of the landfill were undertaken in July 2020 to regain access to LF1MW-6. Beavers re-colonized the area by May 2021 and was ongoing throughout 2023. The nearby waterways and connecting streams have significant beaver populations, making rapid recolonization of the area the likely outcome of any further attempts at removal. Beaver removal from the habitat does not appear to present a lasting solution and further attempts to trap or kill the beavers are not recommended. Field personnel were able to access LF1MW-6 during the December 2022 sampling event when water levels were near their annual minimum and much of the vegetation was dead for the season. It is therefore recommended that any future sampling activity at LF001 be conducted during the winter months to ensure the greatest chances of successfully accessing all the sampling locations.

Based on historical groundwater and surface water monitoring, biennial sampling should continue in 2024 and then be reduced to occur every five years. This will synchronize groundwater/surface water monitoring activities with the other landfills and with the Comprehensive Environmental, Response, Compensation, and Liability Act (CERCLA) Five-Year Review process.

LF002 – LANDFILL 2/3 AOC

LF002 (Landfill 2/3 AOC) is in the northeastern portion of the Former Griffiss AFB and is approximately 13 acres in size. **Attachment 1 - Figure 3** presents the LF002 site map, including the locations of gas monitoring probes (identified by “GMP”) and gas vents (identified by “VENT”). The wastes at LF002 consisted of hard-fill 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 waste in Landfill 3, located in the eastern portion of Landfill 2. The ROD for LF002 (AFRPA, March 2000a) was signed by the USEPA on June 5, 2000. The landfill was re-graded and capped during the Summer of 2003. The cap components include a gas venting layer,

a low-permeability layer, drainage layer, barrier protection layer, and a topsoil layer. The RAOs for LF002 are:

- Consolidation of various debris and waste areas into the main landfill boundary to reduce the area to be capped and the potential for nearby wildlife and human populations to be exposed to the landfill mass
- Significantly reduce infiltration of rainwater and snow-melt water through the landfill mass to minimize the potential for leachate generation and groundwater contamination
- Monitoring the groundwater and stream environment (which may include, but not necessarily limited to, sediment, surface water, and biota) downgradient of the site
- Implementation of ICs in the form of deed restrictions of the main landfill boundary to prohibit use of the area and groundwater

Landfill Inspections

Since April 2005, landfill inspections and cover maintenance have been performed at LF002. Inspections and maintenance were conducted on a quarterly basis and optimized following the Spring 2010 sampling event to a semi-annual basis. Landfill cover mowing is conducted on an annual basis (Fall). LUCs/ICs have been implemented by the ROD and are verified annually as part of the landfill cover inspection program.

During the reporting period, landfill inspections were performed at LF002 on May 11, 2023 (Spring inspection), and September 19, 2023 (Fall inspection). The location and orientation of photographs taken during the LF002 inspections are presented on **Attachment 1 – Figure 3**. Landfill inspection reports and photographs are presented in **Attachment 2**. During the Spring 2023 inspection, a downed branch on the entry road was identified and removal efforts will continue in 2024. During the Fall 2023 inspection, LF2VENT-5 was identified to require service in Spring 2024. No inoperable gas vent turbines, animal burrows, or cap damage were observed during either Spring or Fall 2023 inspection events.

Landfill Gas Monitoring

Landfill gas monitoring is performed at LF002 to identify the presence and concentration of methane at or near the landfill. There were nine gas monitoring points and 14 gas vents installed when the landfill was capped. Seven gas monitoring points (LF2GMP-01, -03 through -05, and -07 through -09) and nine vents (LF2VENT-01 through -03, -08 through -11, and -13 through -14) have been removed from the monitoring program after four consecutive years of minimal or no LEL detections.

Landfill gas monitoring was conducted on September 19, 2023 at two gas monitoring probes (LF2GMP-02 and -06) and five landfill gas vents (LF2VENT-04, -05, -06, -07, and -12). Landfill gas monitoring results for the current and prior three years are presented in **Attachment 3 – Table 2**. Historical landfill gas monitoring results are presented in **Appendix A**. Results from the gas monitoring events at LF002 indicate the methane concentration measured at LF2GMP-06 was 0% of the LEL while at LF2GMP-02, the methane concentration was measured at 6.3%, over 100% of the LEL of 5%. Methane detections were reported at four of the five landfill gas vents: LF2VENT-04 at 1.8%, LF2VENT-05 at 0.2%, LF2VENT-06 at 0.5%, and LF2VENT-07 at 2.5%.

Groundwater and Surface Water Sampling

Water samples are collected every 5 years from select locations at LF002. The last sampling event was conducted in May 2019 and the next sampling event is planned for 2024.

Conclusions and Recommendations

The 2023 inspections did not identify any major deficiencies that would jeopardize the integrity of the cover and there is optimal vegetation cover present on the cap. Removal of any downed trees and dead branches that have fallen on the fence line will continue during 2024 inspections.

Based on the *Final UFP-QAPP* (Bhate, April 2022), it is recommended that the landfill inspection frequency continue semi-annually with a limited landfill inspection in the Spring and the more comprehensive inspection in the Fall to correlate with annual mowing and landfill gas monitoring. Results from the gas sampling events at LF002 continue to show site-wide stabilization of methane concentrations. Based on historical groundwater and surface water monitoring, water samples should continue to be collected every five years.

Based upon historical data and Fall 2023 readings, it is recommended that the following landfill gas monitoring point and vent be removed from the program due to the occurrence of minimal or no LEL detections for four or more consecutive years, as was determined in the 2016 Draft Technical Memorandum (Bhate, January 2016).

- LF2GMP-06
- LF2VENT-12

Based upon historical data (FPM/CAPE, December 2015) coupled with the Fall 2023 readings, it is recommended that landfill gas monitoring for the Fall of 2024 event include the following locations.

- LF2GMP-02
- LF2VENT-04 through -07

LF003 – LANDFILL 7 AOC

LF003 (Landfill 7 AOC), active from 1950 through 1954, is northeast of Runway 15/33 in the northeastern portion of the Former Griffiss AFB and is approximately 11 acres in size. **Attachment 1 - Figure 4** presents the LF003 site map. The wastes disposed of at this landfill consisted of domestic refuse, solid waste, liquid wastes, petroleum products, and miscellaneous base operations waste (such as airplane parts). Waste was placed into four trenches in the landfill area and subsequently burned. The ROD for LF003 (AFRPA, March 2000b) was signed by the USEPA on June 6, 2000. 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 (FPM/CAPE, December 2015). The RAOs for LF003 are:

- Consolidation of various debris and waste areas into the main landfill boundary to reduce the area to be capped and the potential for nearby wildlife and human populations to be exposed to the landfill mass

- Significantly reduce infiltration of rainwater and snow-melt water through the landfill mass to minimize the potential for leachate generation and groundwater contamination
- Monitoring the groundwater and stream environment (which may include, but not necessarily be limited to, sediment, surface water, and biota) downgradient of the site
- Implementation of ICs in the form of deed restrictions of the main landfill boundary to prohibit use of the area and groundwater

Landfill Inspections

Since September 2003, landfill inspections and cover maintenance have been performed at LF003. Inspections and maintenance were conducted on a quarterly basis and optimized following the Spring 2010 sampling event to a semi-annual basis. Landfill cover mowing is conducted on an annual basis (Fall). LUCs/ICs have been implemented by the ROD and are verified annually as part of the landfill cover inspection program.

During the reporting period, landfill inspections were performed at LF003 on May 11, 2023 (Spring inspection) and September 19, 2023 (Fall inspection). The location and orientation of photographs taken during the LF003 inspections are presented on **Attachment 1 - Figure 4**. Landfill inspection reports and photographs are presented in **Attachment 2**. The following minor issues were noted and addressed during the 2023 inspection events at LF003:

- Minor signage repairs to signs around LF003 were made during the inspections.

Landfill Gas Monitoring

Landfill gas monitoring is not required at LF003.

Groundwater and Surface Water Sampling

Water samples are collected every 5 years from select locations at LF003. The last sampling event was in 2019 and the next sampling event is planned for 2024.

Conclusions and Recommendations

The 2023 inspections did not identify any major deficiencies that would jeopardize the integrity of the landfill cover and there is optimal vegetation cover present on the cap at LF003.

Based on the *Final UFP-QAPP* (Bhate, April 2022), it is recommended that the inspection frequency continue semi-annually with a limited landfill inspection in the Spring and the more comprehensive inspection in the Fall to coincide with annual mowing. Based on historical groundwater and surface water monitoring, water samples should continue to be collected every five years.

LF007 – LANDFILL 5 AOC

LF007 (Landfill 5 AOC) is in the south-central portion of the Former Griffiss AFB and is approximately 4 acres in size. **Attachment 1 - Figure 5** presents the LF007 site map. The waste at LF007 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 through 1960. The ROD for LF007 (AFRPA, March 2000c) was signed by the USEPA on June 5, 2000. The landfill was

re-graded and capped in 2002. The cap components include a low-permeability layer, drainage layer, barrier protection layer, and a topsoil layer. The RAOs for LF007 are:

- Consolidation of various debris and waste areas into the main landfill boundary to reduce the area to be capped and the potential for nearby wildlife and human populations to be exposed to the landfill mass
- Reduce infiltration of rainwater and snow-melt water through the landfill mass to minimize the potential for leachate generation and groundwater contamination
- Monitoring the groundwater and stream environment (which may include, but not necessarily limited to, sediment, surface water, and biota) downgradient of the site
- Implementation of ICs in the form of deed restrictions of the main landfill boundary to prohibit use of the area and groundwater

Landfill Inspections

Since September 2003, landfill inspections and cover maintenance have been performed at LF007. Inspections and maintenance were conducted on a quarterly basis and optimized following the Spring 2010 sampling event to a semi-annual basis. Landfill cover mowing is conducted on an annual basis (Fall). LUCs/ICs have been implemented by the ROD and are verified annually as part of the landfill cover inspection program.

During the reporting period, landfill inspections were performed at LF007 on May 11, 2023 (Spring inspection) and September 20, 2023 (Fall inspection). The location and orientation of photographs taken during the LF007 inspections are presented on **Attachment 1 - Figure 5**. Landfill inspection reports and photographs are presented in **Attachment 3**. The following minor issues were noted during the 2023 inspection events at LF007:

- Minor erosion beneath monitoring well MW49D07 pad resulting in instability.

Landfill Gas Monitoring

Landfill gas monitoring is not required at LF007.

Groundwater and Surface Water Sampling

Water samples are collected every 5 years from select locations at LF007. The last sampling event was in 2019 and the next sampling event is planned for 2024.

Conclusions and Recommendations

The 2023 inspections did not identify any major deficiencies that would jeopardize the integrity of the landfill cover and there is optimal vegetation cover present on the cap at LF007. To address the maintenance and repair items identified in 2023, the following activities are recommended to be performed in 2024:

- Stabilization of MW49D07 well pad

Based on the *Final UFP-QAPP* (Bhate, April 2022), it is recommended that the inspection frequency continue semi-annually with a limited landfill inspection in the Spring and the more comprehensive inspection in the Fall to coincide with annual mowing. Based on historical

groundwater and surface water monitoring, water samples should continue to be collected every five years.

LF009 – LANDFILL 6 AOC

LF009 (Landfill 6 AOC) is near the southern boundary of the base and is approximately 15.7 acres in size. **Attachment 1 - Figure 6** presents the LF009 site map, including the locations of gas monitoring probes (identified by "GMP") and gas vents (identified by "VENT"). The wastes disposed at the landfill include general refuse and hard-fill that was buried and some of which was burned at the site. An estimated 38,000 to 62,000 CY of wastes were disposed at the site from 1955 to 1959. 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 LF009. In 1986, a clay cap was constructed over the fuel-contaminated soils area. The ROD (AFRPA, February 2001) for LF009 was signed by the USEPA on June 7, 2001. The cap was completed in 2004. The cap components include a gas venting layer, a 12-inch low-permeability layer, drainage layer, barrier protection layer, at least 6-inches of topsoil, and grass cover (FPM/CAPE, December 2015). The RAOs for LF009 are:

- Consolidation of various debris and waste areas into the main landfill boundary to reduce the area to be capped and the potential for nearby wildlife and human populations to be exposed to the landfill mass
- Significantly reduce infiltration of rainwater and snow-melt water through the landfill mass to minimize the potential for leachate generation and groundwater contamination
- Monitoring the groundwater and stream environment (which may include, but not necessarily limited to, sediment, surface water, and biota) downgradient of the site to evaluate the effectiveness of the presumptive remedy
- Implementation of ICs in the form of deed restrictions within the main landfill boundary and for the affected groundwater to prohibit use of the area and groundwater

Site SD052-02 borders LF009 to the north (**Attachment 1 - Figure 6**) and is associated with a groundwater contaminant plume that is located downgradient of former maintenance facilities in Buildings 774 and 776 and former fuel pump house Building 775. Site SD052-04 is the LF009 trichloroethene site plume, located immediately downgradient to the south of LF009. The most contaminated portion of the plume is located southwest of the landfill beneath the floodplain of Three Mile Creek. Monitoring of chlorinated volatile organic compounds in groundwater at LF009 is completed as part of remedial efforts at Site SD052-04. **Attachment 1 - Figure 6** reflects the generalized groundwater flow from Site SD052-02, which is just upgradient of the landfill, southwest towards Site SD052-04.

Landfill Inspections

Landfill inspections and cover maintenance have been performed at the site since 2006. Inspections and maintenance were conducted on a quarterly basis and optimized following the Spring 2010 sampling event to a semi-annual basis. Landfill cover mowing is conducted on an annual basis (Fall). LUCs/ICs have been implemented by the ROD and are verified annually as part of the landfill cover inspection program.

During the reporting period, landfill inspections were performed on May 12, 2023 (Spring inspection) and September 20, 2023 (Fall inspection). The location and orientations of photographs taken during the 2023 inspections are presented on **Attachment 1 – Figure 6**. Landfill inspection reports and photographs are presented in **Attachment 2**. No inoperable gas vent turbines, animal burrows, or cap damage were observed during either Spring or Fall 2023 inspection events.

Landfill Gas Monitoring

Landfill gas monitoring has been performed at the site to identify the presence and concentration of methane at or near the landfill. There were 20 gas monitoring points and 16 gas vents installed when the landfill was capped. All 20 gas monitoring points and 12 vents (LF6VENT-01, -05, and -07 through -16) have been removed from the monitoring program after four consecutive years of minimal or no LEL detections.

Landfill gas monitoring was conducted on September 20, 2023 at LF6VENT-02, LF6VENT-03, LF6VENT-04, and LF6VENT-06. Landfill gas monitoring results for the current and prior three years are presented in **Attachment 3 – Table 3**. Historical landfill gas monitoring results are presented in **Appendix A**. Methane measurements were 0% of the LEL at all vents monitored. Methane concentrations were measured at 0% at LF6VENT-02, LF6VENT-03, LV6VENT-04, and LF6VENT-06. Methane concentrations at LF6VENT-06 have been measured at either 0% or <0.1% of the LEL for the past five annual gas monitoring events.

Groundwater, Leachate, and Surface Water Sampling

Water samples are collected every 5 years from select locations at LF009. The last sampling event was in 2019 and the next sampling event is planned for 2024.

Beaver Activities

Although not currently directly affecting LF009, significant beaver activity was observed in Three Mile Creek during the Fall 2023 inspection. A large dam had been constructed across Three Mile Creek at the fence line representing the former Base property boundary resulting in ponding extending approximately 1,000 feet upstream. Three Mile Creek surface water sampling locations LF6/TMCSW-3, LF6LH-1, LFS-SW1 PM, LF6LF-2, and LF6/TMCSW-2 were impacted by the ponding as well as several monitoring wells associated with Site SD052-04. Griffiss Local Development Corportation (GLDC) was notified of the beaver activity and will be responsible for mitigation.

Conclusions and Recommendations

The inspections did not identify any major deficiencies that would jeopardize the integrity of the cover, and there is optimal vegetation cover on the cap. Based on the *Final UFP-QAPP* (Bhate, April 2022), it is recommended that the inspection frequency continue semi-annually with a limited landfill inspection in the Spring and the more comprehensive inspection in the Fall to correlate with annual mowing and landfill gas monitoring. Landfill gas monitoring from 2011 to 2023 shows that methane levels were stable or absent at monitored gas probes.

Based upon historical data and Fall 2023 readings, it is recommended that the following landfill gas vent be removed from the program due to the occurrence of minimal or no LEL detections for four or more consecutive years, as was determined in the 2016 Draft Technical Memorandum

(Bhate, January 2016). Abandonment of existing gas monitoring probes and vents is not recommended in the event future monitoring becomes necessary.

- LF6VENT-06

Based upon historical data (FPM/CAPE, December 2015), coupled with the Fall 2023 readings, it is recommended that landfill gas monitoring for the Fall of 2024 event include the following locations.

- LF6VENT-02, -03, and -04

Based on historical groundwater and surface water monitoring, water samples should continue to be collected every five years, next occurring in 2024.

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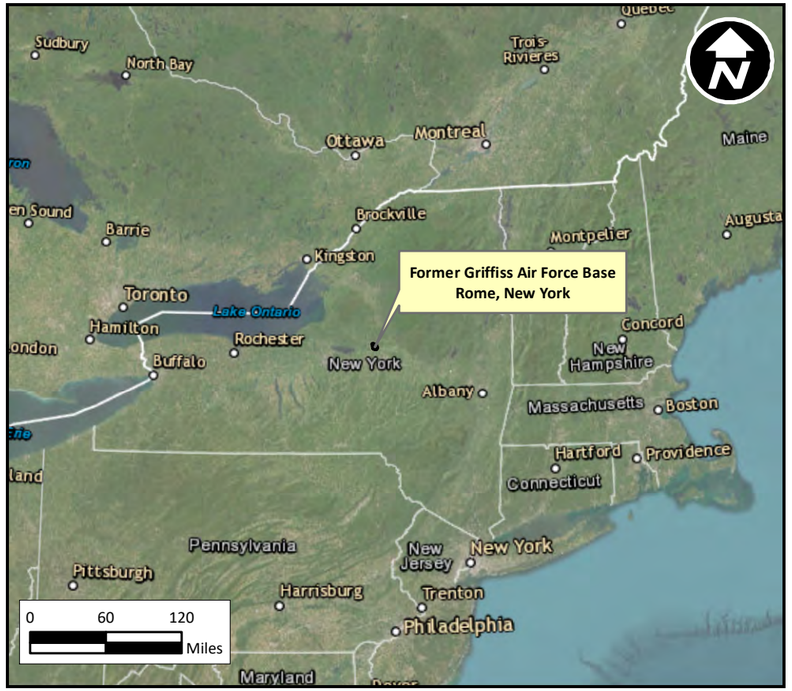
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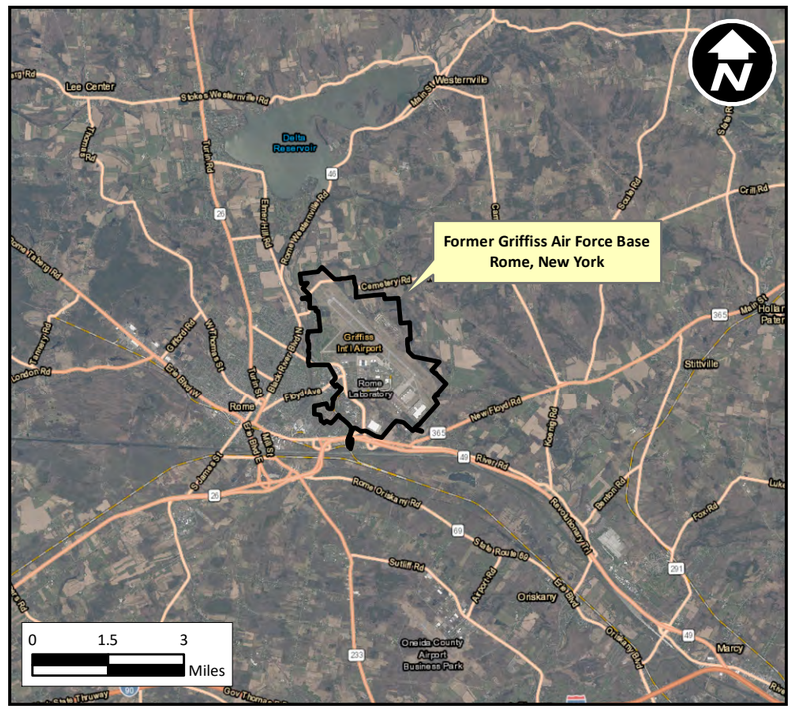
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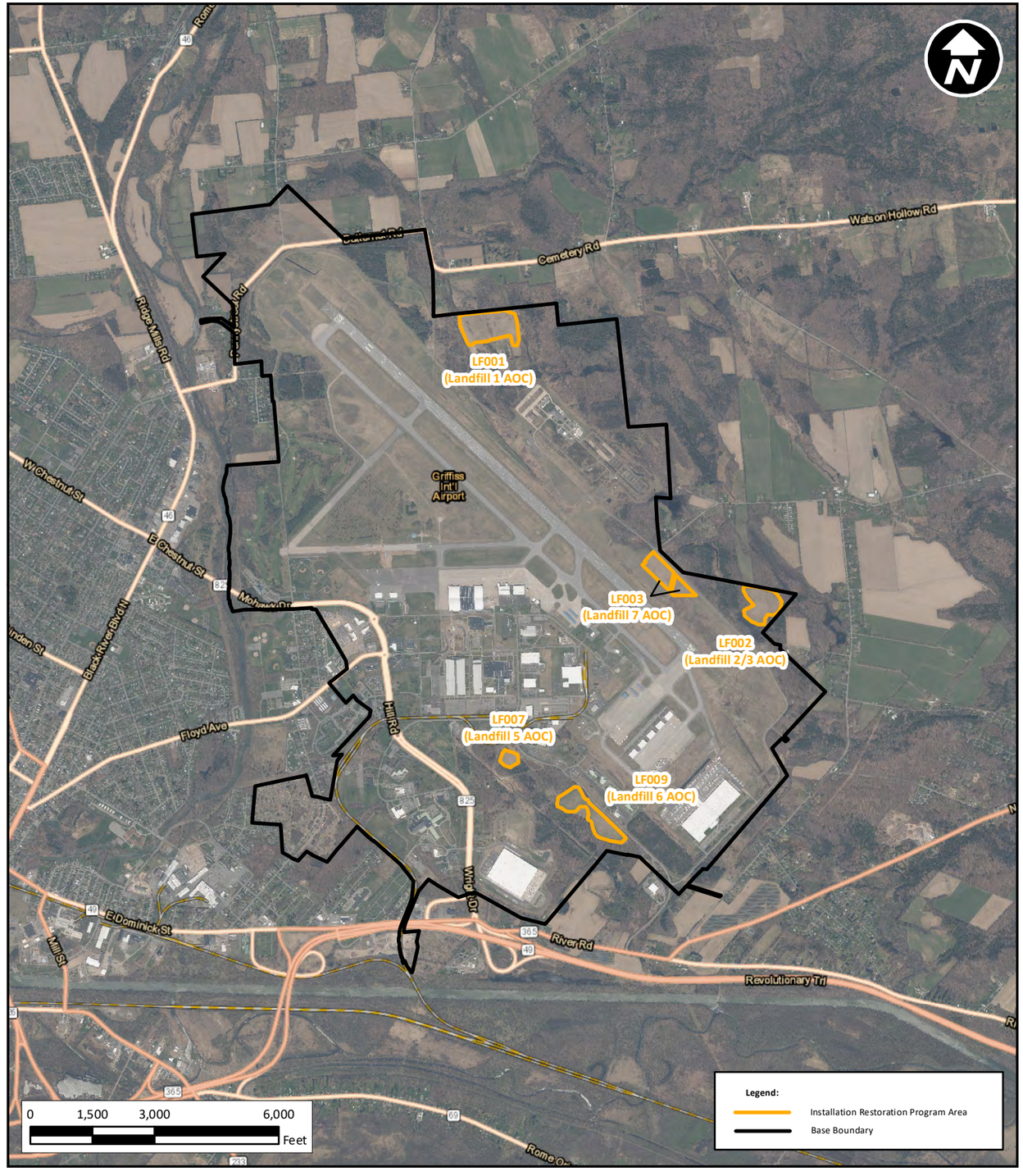
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ATTACHMENT 1 – FIGURES

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Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community
NYS ITS Geospatial Services, Westchester County GIS

Former Griffiss Air Force Base
Landfill AOC Sites Location Map

Figure 1

2023 Long-Term Monitoring of Landfill Areas of Concern
Former Griffiss Air Force Base, Rome, New York

DRAWN BY: MRM/CM

DATE: 1/19/2024

SCALE: As Shown

PROJECT NO: MSC2021.0012.3007.0003

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LF001 (Landfill 1 AOC) 2023 Inspections

Figure 2

Passive Gas Collection Trench Location

LF001

Pistol Range

Gulf Road

Perimeter Road

Six Mile Creek

Intermittent Stream

Intermittent Stream

VENT-25 VENT-26 VENT-27 VENT-28 VENT-29 VENT-30 VENT-31 VENT-24 VENT-22 VENT-13 VENT-07 VENT-10 VENT-17 VENT-01 VENT-05 VENT-11 VENT-14 VENT-18 VENT-21 VENT-08 VENT-02 VENT-09 VENT-15 VENT-19 VENT-03 VENT-06 VENT-12 VENT-16 VENT-20 VENT-04

GMP-18 GMP-19 GMP-11 GMP-20 GMP-12 GMP-06 GMP-04 GMP-03 GMP-02 GMP-01 GMP-09 GMP-13 GMP-14 GMP-08 GMP-10 GMP-17 GMP-16

F6 S7 S1 S3 S8 F1 F3 F4 F5 S9 S10 F2

SEEP-2 SEEP-3 SEEP-1

LF1SW-1 LF1MW-11 LF1MW-6 LF1MW-103 LF1P-2 LF1SW-2SMC *S10* LF1P-5 LF1MW-5 LF1MW-13 LF1SW-3

MWSAR03

5936 5950 6028 0854 6025 0738 0900 0901 0902 0903 0904 0905 0906 0907 0930 0912 0913 0915 0829

SS062

Notes:
This information is depicted to provide visual aid within the context of this document and should not be used as a sole reference in precise dimensioning of features indicated. Please verify the location of all features including underground and aboveground utilities prior to conducting any subsurface exploration or site assessment.

0 150 300 600 Feet

Legend:

- VENT-03 — Vent and Gas Monitoring Point Sample Location
- LF1MW-5 — Groundwater and Surface Water Sample Location
- Monitoring Well Location
- Surface Water Sample Location
- Gas Monitoring Probe Location
- Gas Vent Location
- Design Drainage Outfall Location
- Photo Orientation
- Installation Restoration Program Area
- Base Boundary
- 5657 — Building Number
- Approximate Direction of Groundwater Flow

2023 Long-Term Monitoring of Landfill Areas of Concern
Former Griffiss Air Force Base, Rome, New York

DRAWN BY: MRM/CM

DATE: 1/19/2024

SCALE: As Shown

PROJECT NO: MSC2021.0012. 3007.0003

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Figure 3

LF002 (Landfill 2/3 AOC) 2023 Inspections

2023 Long-Term Monitoring of Landfill Areas of Concern
Former Griffiss Air Force Base, Rome, New York

PROJECT NO.: MSC2021.0012.3007.0003

SCALE: As Shown

DATE: 1/19/2024

DRAWN BY: MRM/CM

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GMP-03
GMP-04
GMP-08
VENT-01
VENT-02
F2
F3
VENT-03
F1
LF002
GMP-02
GMP-05
LF2MW-14
VENT-04
LF2SW-3
VENT-13
F6
F5
LF2MW2-1
GMP-09
VENT-07
VENT-14
VENT-05
F4
F7
GMP-01
S2
S1
VENT-10
VENT-11
VENT-12
VENT-06
S4
GMP-06
LF2MW-13
S6
LF2MW-4
VENT-09
LF2SW-2
VENT-08
S3
GMP-07
S5
Perimeter Road
LF2MW-12
LF2SW-1
LF2MW-100
N0797
0762

Notes:
This information is depicted to provide visual aid within the context of this document and should not be used as a sole reference in precise dimensioning of features indicated. Please verify the location of all features including underground and aboveground utilities prior to conducting any subsurface exploration or site assessment.

0 100 200 400 Feet

Legend:

- VENT-12 — Vent and Gas Monitoring Point Sample Location
- Monitoring Well Location
- Surface Water Sample Location
- Gas Monitoring Probe Location
- Gas Vent Location
- Photo Orientation
- Installation Restoration Program Area
- Base Boundary
- 5657 — Building Number
- Approximate Direction of Groundwater Flow

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Pond
Pond
F5
F6
F7
F3
LF7WL-4
LF7MW-27
S3
5960
LF003
LF7MW-29
0802
S2/F2
S6
Perimeter Road
LF7MW-22
LF7WL-3
LF7MW-100
LF7MW-26
5945
LF7MW-28
LF003
S4
F8
S5
LF7MW-30
LF7MW-23
S1/F1
6235
5986
6242
5985
5525

Notes:
This information is depicted to provide visual aid within the context of this document and should not be used as a sole reference in precise dimensioning of features indicated. Please verify the location of all features including underground and aboveground utilities prior to conducting any subsurface exploration or site assessment.

0 100 200 400 Feet

Legend:
- Monitoring Well Location
- Surface Water Sample Location
- Photo Orientation
- Installation Restoration Program Area
- Base Boundary
- 5657 Building Number
- Approximate Direction of Groundwater Flow

Service Layer Credits: NYS ITS Geospatial Services, Westchester County GIS

LF003 (Landfill 7 AOC) 2023 Inspections

Figure 4

2023 Long-Term Monitoring of Landfill Areas of Concern
Former Griffiss Air Force Base, Rome, New York

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DATE: 1/19/2024
SCALE: As Shown
PROJECT NO: MSC2021.0012. 3007.0003

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LF007 (Landfill 5 AOC) 2023 Inspections

Figure 5

2023 Long-Term Monitoring of Landfill Areas of Concern
Former Griffiss Air Force Base, Rome, New York

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SCALE: As Shown

PROJECT NO: MSC2021.0012.3007.0003

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0700

S1

S8

S5/S6/F4

LF5MW-3

S7

LF5MW-1A

S2

Perimeter Road

LF007

F1

LF5MW-100R

S4

S3

F2

LF5MW-5

LF5SW-1

Three Mile Creek

LF5MW-4

MW49D07

LF5SW-2

LF5SW-3

Notes:
This information is depicted to provide visual aid within the context of this document and should not be used as a sole reference in precise dimensioning of features indicated. Please verify the location of all features including underground and aboveground utilities prior to conducting any subsurface exploration or site assessment.

0 50 100 200 Feet

Legend:

- Monitoring Well Location
- Surface Water Sample Location
- Photo Orientation
- Installation Restoration Program Area
- *5657* Building Number
- Approximate Direction of Groundwater Flow

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LF009 (Landfill 6 AOC) 2023 Inspections

Figure 6

2023 Long-Term Monitoring of Landfill Areas of Concern
Former Griffiss Air Force Base, Rome, New York

DRAWN BY: MRM/CM

DATE: 1/19/2024

SCALE: As Shown

PROJECT NO: MSC2021.0012.3007.0003

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ATTACHMENT 2 – LANDFILL INSPECTION REPORTS

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LANDFILL: LF001
INSPECTION REPORT

2023

FORMER GRIFFISS AIR FORCE BASE

Type of Inspection: Spring Response to Storm Event? No

Date of Inspection: May 9 & 10

Personnel Present: J. Daniel

Weather Conditions: Sunny, low 60s

INSPECTION ITEMS COMMENTS/NEED FOR ACTION

Soil Cover Integrity: Good

Slopes: Good

Cover Vegetation: Good - Mowed in the last few weeks?

Leachate Breakouts: good

Vectors: no digging found

Drainage: good

Institutional Controls: Good

Monitoring Wells: most are good, a few in the swamp/beaver area are inaccessible.

Gas Probes: good

Gas Vents: Repairs made (new grease) to -02, -03, -04, -06, -08, -10, -11, -13, -14, -17, -18, -21, -22, -27

Security Fencing/Gates: Good

Comments/Follow Up Needs: stripped deer skeleton - poaching

LF001 – Spring 2023

Vent-14, facing South. (S1)



Damaged vs cleaned top bearing. (S2)



LF001 – Spring 2023

Vent-15, facing Southeast. (S3)



VENT-15, bearing unseated. (S4)



LF001 – Spring 2023

VENT-2, damaged bottom bearing. (S5)



VENT-2, dry top bearing. (S6)



LF001 – Spring 2023

Northwest end of landfill, facing South. (S7)



West end of landfill, stripped deer carcass. (S8)



LF001 – Spring 2023

County carport, facing South. (S9)



County building, facing North. (S10)



LANDFILL: LF001
INSPECTION REPORT

2023

FORMER GRIFFISS AIR FORCE BASE

Type of Inspection: Fall Response to Storm Event? NO

Date of Inspection: 9/19/23

Personnel Present: S. Dawud

Weather Conditions: Mostly Cloudy Highs 80s/low 60s

INSPECTION ITEMS COMMENTS/NEED FOR ACTION

Soil Cover Integrity: good

Slopes: good

Cover Vegetation: good

Leachate Breakouts: good

Vectors: no digging

Drainage: good (Even with recent rain)

Institutional Controls: good

Monitoring Wells:

Gas Probes: good

Gas Vents: good (some turbines need service)

Security Fencing/Gates: Good

Comments/Follow Up Needs:

LF001 – Fall 2023

Near GMP-09, facing South. (F1)



MWSAR03, facing North. (F2)



LF001 – Fall 2023

Beaver pond near LF1MW-6, facing West. (F3)



Beaver pond near LF1MW-6, facing West. (F4)



LF001 – Fall 2023

LF1MW-103. (F5)



Bridge over Six Mile Creek, facing South. (F6)



LANDFILL: LF002
INSPECTION REPORT

2023

FORMER GRIFFISS AIR FORCE BASE

Type of Inspection: Spring Response to Storm Event? No

Date of Inspection: May 11

Personnel Present: J. Pawud

Weather Conditions: Sunny, mid 60s

INSPECTION ITEMS COMMENTS/NEED FOR ACTION

Soil Cover Integrity: good

Slopes: good

Cover Vegetation: good

Leachate Breakouts: N/A

Vectors: No signs of digging

Drainage: good

Institutional Controls: good

Monitoring Wells: good

Gas Probes: good

Gas Vents: good

Security Fencing/Gates: good

Comments/Follow Up Needs: tree stand still present across fence line

LF002 – Spring 2023

LF2MW-13, facing Southeast. (S1)

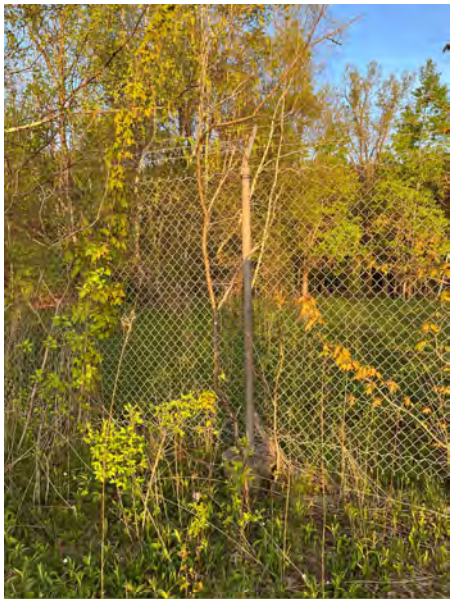


Near GMP-01, facing East. (S2)



LF002 – Spring 2023

Fence line near access/entry gate. (S3)



Downed branched on entry road, before clearing. (S4)



LF002 – Spring 2023

Hunting stand just across fence line, near GMP-07. (S5)



Near VENT-11, facing Northwest. (S6)



LANDFILL: LF002
INSPECTION REPORT

2023

FORMER GRIFFISS AIR FORCE BASE

Type of Inspection: Fall 23 Response to Storm Event? No

Date of Inspection: 9/19/23

Personnel Present: J. Dawud

Weather Conditions: High 50/low 60s, cloudy, int. lt. rain.

INSPECTION ITEMS COMMENTS/NEED FOR ACTION

Soil Cover Integrity: Good

Slopes: Good

Cover Vegetation: Good. Fall mowing hasn't occured yet.

Leachate Breakouts: N/A

Vectors: No digging found.

Drainage: Good (even with the recent & current rain?)

Institutional Controls:

Monitoring Wells: Good

Gas Probes: Good

Gas Vents: Vent-5 needs service

Security Fencing/Gates: Good

Comments/Follow Up Needs: Service vent-5 to Spring 24

LF002 – Fall 2023

VENT-03, facing West. (F1)



Near VENT-01, facing East. (F2)



LF002 – Fall 2023

Near GMP-04, facing West. (F3)



At GMP-09, facing Northeast. (F4)



LF002 – Fall 2023

LF2MW-14, facing North. (F5)



Near GMP-05, facing Northwest. (F6)



LF002 – Fall 2023

By GMP-01, facing Northeast. (F7)



LANDFILL: LF003
INSPECTION REPORT

2023

FORMER GRIFFISS AIR FORCE BASE

Type of Inspection: Spring Response to Storm Event? No

Date of Inspection: May 4th

Personnel Present: J. Darud

Weather Conditions: Sunny, mid 60s

INSPECTION ITEMS COMMENTS/NEED FOR ACTION

Soil Cover Integrity: good

Slopes: good

Cover Vegetation: good

Leachate Breakouts: good

Vectors: No digging found

Drainage: Good

Institutional Controls: Good

Monitoring Wells: Good - surface mounts not visited

Gas Probes: N/A

Gas Vents: N/A

Security Fencing/Gates: Good. replaced a few bolts on signs

Comments/Follow Up Needs:

—

LF003 – Spring 2023

East corner of landfill, facing Northwest. (S1)



Between cells, facing South. (S2)



LF003 – Spring 2023

West corner of landfill, facing East. (S3)



Near LF7MW-30, facing East. (S4)



LF003 – Spring 2023

Between cells (south), facing North. (S5)



Between cells (north), panorama spans South to West. (S6)



LANDFILL: LF003
INSPECTION REPORT

2023

FORMER GRIFFISS AIR FORCE BASE

Type of Inspection: Fall Response to Storm Event? No

Date of Inspection: 9/26

Personnel Present: J. Dawnd

Weather Conditions: High 40s, Sunny

INSPECTION ITEMS COMMENTS/NEED FOR ACTION

Soil Cover Integrity: Good

Slopes: Good

Cover Vegetation: Good - Fall mowing was mid-mow

Leachate Breakouts: Good

Vectors: No digging

Drainage: Good

Institutional Controls: Good

Monitoring Wells: Good - LF7MW-28 was not visited

Gas Probes: N/A

Gas Vents: N/A

Security Fencing/Gates: Good

Comments/Follow Up Needs: Surface mount wells overgrow quickly and become hard to find. Conversion to stick up may be useful.

LF003 – Fall 2023

At East corner, facing Northwest. (F1)



Between cells (north), facing South. (F2)



LF003 – Fall 2023

Northeast edge of landfill, facing Southeast. (F3)



Northeast edge of landfill, facing Northeast. (F4)



LF003 – Fall 2023

Northwest edge of landfill, facing Southeast. (F5)



On asphalt at West corner, facing Southwest. (F6)



LF003 – Fall 2023

On asphalt at West corner, facing Southeast. (F7)



Between cells (south), facing West. (F8)



LANDFILL: LF007
INSPECTION REPORT

2023

FORMER GRIFFISS AIR FORCE BASE

Type of Inspection: Spring Response to Storm Event? No

Date of Inspection: May 11

Personnel Present: J. Daund

Weather Conditions: Sunny, 60s

INSPECTION ITEMS COMMENTS/NEED FOR ACTION

Soil Cover Integrity: good

Slopes: good

Cover Vegetation: good

Leachate Breakouts: good

Vectors: No dragging found

Drainage: good

Institutional Controls: good

Monitoring Wells: Good - MW49D07 Pad still under cut

Gas Probes: N/A

Gas Vents: N/A

Security Fencing/Gates: Good

Comments/Follow Up Needs:

LF007 – Spring 2023

Defunct gate and access road, facing Southeast. (S1)



Near LF5MW-1A, facing Southwest. (S2)



LF007 – Spring 2023

Southeast edge of landfill, panorama spans West to North. (S3)



LF007 – Spring 2023

South edge of landfill, facing South. (S4)



LF5MW-3. (S5)



LF007 – Spring 2023

LF5MW-3. (S6)



Drainage ditch near LF5MW-3, facing South. (S7)



LF007 – Spring 2023

Northwest corner of landfill, spans East to South. (S8)



LANDFILL: LF007
INSPECTION REPORT

2023

FORMER GRIFFISS AIR FORCE BASE

Type of Inspection: Fall Response to Storm Event? No

Date of Inspection: 9/20/23

Personnel Present: J. Dawud

Weather Conditions: Sunny, Mid 60s

INSPECTION ITEMS COMMENTS/NEED FOR ACTION

Soil Cover Integrity: Good

Slopes: Good

Cover Vegetation: Good

Leachate Breakouts: Good

Vectors: no digging found

Drainage: Good

Institutional Controls: Good

Monitoring Wells: Good — MW49D07 has been eroded under pad, it now wobbles.

Gas Probes: N/A

Gas Vents: N/A

Security Fencing/Gates: Good

Comments/Follow Up Needs:
Recently mowed.

LF007 – Fall 2023

East corner, facing North. (F1)



South corner, facing Northwest. (F2)



LF007 – Fall 2023

LF5MW-5, lid off for inspection. (F3)



LF5MW-3, lid off for inspection. (F4)



LANDFILL: LF009
INSPECTION REPORT

2023

FORMER GRIFFISS AIR FORCE BASE

Type of Inspection: Spring Response to Storm Event? No

Date of Inspection: May 2

Personnel Present: J. Dawud

Weather Conditions: Partly Cloudy High 50s/low 60s

INSPECTION ITEMS COMMENTS/NEED FOR ACTION

Soil Cover Integrity: good

Slopes: good

Cover Vegetation: good

Leachate Breakouts: good

Vectors: No digging found

Drainage: good

Institutional Controls: good

Monitoring Wells: good

Gas Probes: good

Gas Vents: good

Security Fencing/Gates: good

Comments/Follow Up Needs:

—

LF009 – Spring 2023

East corner of landfill, facing northwest. (S1)



Near VENT-14 facing Southeast. (S2)



LF009 – Spring 2023

Near Vent-09 facing West. (S3)



Near LF6MW-1 facing Southwest. (S4)



LF009 – Spring 2023

Near GMP-03 facing Southeast. (S5)



LANDFILL: LF009
INSPECTION REPORT

2023

FORMER GRIFFISS AIR FORCE BASE

Type of Inspection: Fall Response to Storm Event? No

Date of Inspection: 9/20/23

Personnel Present: J. David BT. Calhoun

Weather Conditions: Sunny, mid 60s

INSPECTION ITEMS COMMENTS/NEED FOR ACTION

Soil Cover Integrity: Good

Slopes: Good

Cover Vegetation: Good

Leachate Breakouts: Good

Vectors: good (no digging)

Drainage: Good

Institutional Controls: Good

Monitoring Wells: Good (veg cleared from many)

Gas Probes: Good (veg cleared from many)

Gas Vents:

Security Fencing/Gates: Good.

Comments/Follow Up Needs:

LF009 – Fall 2023

East corner, facing Northwest. (F1)



Near VENT-11, facing Southwest. (F2)



LF009 – Fall 2023

Near VENT-09, facing South. (F3)



Near VENT-09, facing West. (F4)



LF009 – Fall 2023

Near GMP-03, facing Southeast. (F5)



Near VENT-06, facing Southwest. (F6)



LF009 – Fall 2023

Near VENT-06, facing North. (F7)



At GMP-13, facing Northeast. (F8)



ATTACHMENT 3 – TABLES

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Table 1
LF001 (Landfill 1 AOC) Landfill Gas Monitoring Results (2020-2023)
Former Griffiss Air Force Base
Rome, New York

	September 2020					December 2021					October 2022					September 2023				
	Barometric Pressure (in.) = 30.0 - 30.3					Barometric Pressure (in.) = 30.0 - 30.1					Barometric Pressure (in.) = 29.99 on 10/6 and 29.89 on 10/15					Barometric Pressure (in.) = 29.36 - 29.42 on 9/19				
Sample Location	Hydrogen Sulfide (ppm)	Methane (%)	Oxygen (%)	Carbon Monoxide (ppm)	VOC (ppm)	Hydrogen Sulfide (ppm)	Methane (%)	Oxygen (%)	Carbon Monoxide (ppm)	VOC (ppm)	Hydrogen Sulfide (ppm)	Methane (%)	Oxygen (%)	Carbon Monoxide (ppm)	VOC (ppm)	Hydrogen Sulfide (ppm)	Methane (%)	Oxygen (%)	Carbon Monoxide (ppm)	LEL (%)
LF1GMP-01	0.5	3.5	7.7	5	130.2	0	>5	8.5	0	49.6	0.0	Over	3.3	0	20.7	0	0.0	19.2	0	0
LF1GMP-02	0	>5	12.7	0	39.3	0	>5	9.3	0	8.3	0.0	Over	13.9	0	8.7	0	30.8	3.2	13	Over
LF1GMP-03	0.5	4.4	7.2	5	6	0	>5	19.3	0	5.6	0.0	Over	1.6	0	1.4	1	42.5	0.8	10	Over
LF1GMP-04	0	2.8	3.2	12	0	0	0	20.9	0	0	0.0	Over	1.3	0	2.0	0	0.0	19.2	0.0	0
LF1GMP-06	0	>5	18.1	0	0	0	0	20.3	0	0	0.0	Over	10.1	0	0.4	2	62.5	2.8	16	Over
LF1GMP-08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF1GMP-09	0	4.2	12.1	3	18.6	0	0	20.9	0	0	0.0	Over	12.1	0	2.5	0	42.1	1.9	11	Over
LF1GMP-10	0	>5	3.6	8	5.1	0	0	20.9	0	0.1	0.0	Over	1.6	0	2.1	0	15.5	3.1	20	Over
LF1GMP-11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF1GMP-12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF1GMP-13	0.5	0	21.2	0	0	0	0	20.9	0	0	0.0	0	19.1	0	0.0	--	--	--	--	--
LF1GMP-14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF1GMP-15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF1GMP-16	0	0	20.9	0	0	0	0	19.2	0	0	0.0	0	19.4	0	0.0	--	--	--	--	--
LF1GMP-17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF1GMP-18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF1GMP-19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF1GMP-20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF1GV-01	0	>5	20.8	0	0	0	0	20.9	0	0	0.0	Over	13.9	0	0.0	0	0.0	19.3	0	0
LF1GV-02	0	>5	18.4	0	0	0	0	20.9	0	0	0.0	30	17.4	0	0.0	0	0.0	19.4	0	0
LF1GV-03	0	>5	19.2	0	0	0	0	20.9	0	0.1	0.0	30	18.1	0	0.0	0	0.0	19.4	0	0
LF1GV-04	0	3.2	19.1	0	0	0	0	20.9	0	0.1	0.0	6	16.7	0	0.0	0	0.0	19.5	0	0
LF1GV-05	0	>5	16.1	0	0	0	0	20.9	0	0	0.0	Over	12.6	0	0.0	0	0.0	19.4	0	0
LF1GV-06	0	>5	18.4	0	0.9	0	0	20.9	0	0.1	0.0	51	10.1	0	0.1	0	0.0	19.2	0	0
LF1GV-07	0	>5	21.2	0	0	0	0	20.9	0	0	0.0	39	19.6	0	0.0	0	0.0	19.1	0	0
LF1GV-08	0	>5	15.6	0	3.5	0	0	20.9	0	0	0.0	Over	17.0	0	0.8	0	0.0	19.3	0	0
LF1GV-09	0	>5	15.5	0	0	0	0	20.9	0	0.1	0.0	30	18.3	0	1.0	0	0.0	19.1	0	0
LF1GV-10	0	>5	14	0	0	0	0	20.9	0	0	0.0	Over	15.8	0	0.0	0	0.0	19.4	0	0
LF1GV-11	0	3.0	20.8	0	0	0	0	20.9	0	0	0.0	53	18.1	0	0.6	0	0.0	19.4	0	0
LF1GV-12	0	>5	18.9	0	0	0	0	20.9	0	0	0.0	0	19.6	0	0.0	0	0.0	19.1	0	0
LF1GV-13	0	>5	18.9	0	0	0	0	20.9	0	0	0.0	Over	19.3	0	0.2	0	0.0	18.9	0	0
LF1GV-14	0	3.5	20.3	0	0	0	0	20.9	0	0	0.0	61	18.7	0	0.0	0	0.0	19.3	0	0
LF1GV-15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF1GV-16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF1GV-17	0	>5	20.4	0	0	0	0	20.9	0	0	0.0	Over	17.2	0	0.0	0	0.0	19.4	0	0
LF1GV-18	0	4.7	20.4	0	0	0	0	20.9	0	0	0.0	46	18.1	0	0.0	0	0.0	19.4	0	0
LF1GV-19	0	>5	17.7	0	0	0	0	20.9	0	0	0.0	47	17.2	0	0.0	0	0.0	19.5	0	0
LF1GV-20	0	3.7	18.8	0	0	0	0	20.9	0	0	0.0	Over	13.0	0	0.1	0	0.0	19.4	0	0
LF1GV-21	0	4.6	20.9	0	0	0	0	20.9	0	0	0.0	Over	16.8	0	0.0	0	0.0	19.3	0	0
LF1GV-22	0	3.5	20.9	0	0	0	0	20.9	0	0	0.0	Over	16.2	0	0.0	0	0.0	19.3	0	0
LF1GV-23	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned
LF1GV-24	0	0	21.8	0	0	0	0	20.9	0	0	0.0	0	18.2	0	0.0	--	--	--	--	--
LF1GV-25	0	0.9	20.9	0	0	0	0	20.9	0	0	0.0	4	20.7	0	0.2		0.2	19.0	0	4
LF1GV-26	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF1GV-27	0	0	21.7	0	0.4	0	0	20.9	0	0	0.0	Over	11.0	0	0.5		0.0	19.1	0	0
LF1GV-28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF1GV-29	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF1GV-30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF1GV-31	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Notes:
> = greater than
% = percent
in. = inches
LEL = Lower Explosive Limit
Over = exceeded instrument upper limit
ppm = parts per million
VOC = volatile organic compound
- - = Not Monitored

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Table 2
LF002 (Landfill 2/3 AOC) Landfill Gas Monitoring Results (2020-2023)
Former Griffiss Air Force Base
Rome, New York

	September 2020					December 2021					October 2022					September 2023				
	Barometric Pressure (in.) = 30.0 - 30.3					Barometric Pressure (in.) = 30.1 - 30.1					Barometric Pressure (in.) = 29.84					Barometric Pressure (in.) = 29.91				
Sample Location	Hydrogen Sulfide (ppm)	Methane (%)	Oxygen (%)	Carbon Monoxide (ppm)	VOC (ppm)	Hydrogen Sulfide (ppm)	Methane (%)	Oxygen (%)	Carbon Monoxide (ppm)	VOC (ppm)	Hydrogen Sulfide (ppm)	Methane (%)	Oxygen (%)	Carbon Monoxide (ppm)	VOC (ppm)	Hydrogen Sulfide (ppm)	Methane (%)	Oxygen (%)	Carbon Monoxide (ppm)	LEL (%)
LF2GMP-01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF2GMP-02	0	1.85	15.3	1	0	0	0	20.0	0	0.1	0.0	8	19.9	0	0.0	0	6.3	6.8	0	Over
LF2GMP-03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF2GMP-04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF2GMP-05	0	0	20.6	0	0.1	0	0	19.1	0	0	0.0	0	11.0	0	0.0	--	--	--	--	--
LF2GMP-06	0	0	20.5	0	0	0	0	20.4	0	0	0.0	0	18.7	0	0.0	0	0.0	12.1	0	1
LF2GMP-07	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF2GMP-08	0	0	20.9	0	0	0	0	20.3	0	0	0.0	0	20.2	0	0.0	--	--	--	--	--
LF2GMP-09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF2VENT-01	0	0	19.9	0	0	0	0	20.9	0	0	0.0	0	19.2	0	0.0	--	--	--	--	--
LF2VENT-02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF2VENT-03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF2VENT-04	0	0.6	16.1	0	3.8	0	0	20.9	0	0	0.0	13	20.1	0	0.1	0	1.8	17.1	0	37
LF2VENT-05	0.5	>5	14.5	2	2.0	0	8.0	20.9	0	0	0.0	12	20.9	0	0.1	0	0.2	19.0	0	4
LF2VENT-06	1.0	>5	17.4	0	0.6	0	0	20.9	0	0	0.0	0	20.9	0	0.0	0	0.5	18.9	0	11
LF2VENT-07	0	0	16.7	0	0.1	0	0	20.9	0	0	0.0	6	19.9	0	0.0	0	2.5	14.9	0	49
LF2VENT-08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF2VENT-09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF2VENT-10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF2VENT-11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF2VENT-12	0	>5	15.5	0	0	0	0	20.9	0	0	0.0	21	17.1	0	0.0	0	0.0	18.6	0	1
LF2VENT-13	0	0	18.2	0	0.1	0	0	20.9	0	0.1	0.0	0	20.3	0	0.0	--	--	--	--	--
LF2VENT-14	0	0	20.2	0	0	0	0	20.9	0	0	0.0	0	20.9	0	0.0	--	--	--	--	--

Notes:
> = greater than
% = percent
in. = inches
LEL = Lower Explosive Limit
Over = exceeded instrument upper limit
ppm = parts per million
VOC = volatile organic compound
- - = Not Monitored

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Table 3
LF009 (Landfill 6 AOC) Landfill Gas Monitoring Results (2020-2023)
Former Griffiss Air Force Base
Rome, New York

	September 2020					December 2021					October 2022					September 2023				
	Barometric Pressure (in.) = 30.0 - 30.3					Barometric Pressure (in.) = 29.7 - 29.8					Barometric Pressure (in.) = 29.89					Barometric Pressure (in.) = 29.59				
Sample Location	Hydrogen Sulfide (ppm)	Methane (%)	Oxygen (%)	Carbon Monoxide (ppm)	VOC (ppm)	Hydrogen Sulfide (ppm)	Methane (%)	Oxygen (%)	Carbon Monoxide (ppm)	VOC (ppm)	Hydrogen Sulfide (ppm)	Methane (%)	Oxygen (%)	Carbon Monoxide (ppm)	VOC (ppm)	Hydrogen Sulfide (ppm)	Methane (%)	Oxygen (%)	Carbon Monoxide (ppm)	LEL (%)
LF6GMP-01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF6GMP-02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF6GMP-03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF6GMP-04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF6GMP-05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF6GMP-06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF6GMP-07	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF6GMP-08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF6GMP-09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF6GMP-10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF6GMP-11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF6GMP-12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF6GMP-13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF6GMP-14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF6GMP-15S	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF6GMP-15D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF6GMP-16S	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF6GMP-16D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF6GMP-17S	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF6GMP-17D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF6VENT-01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF6VENT-02	0	2.6	12.5	0	0	0	18.0	8.3	0	0.4	0	0	20.9	0	0	0	0.0	19.5	0	0
LF6VENT-03	0	0.75	13.1	0	0	0	0	20.9	0	0	--	--	--	--	--	0	0.0	19.5	0	0
LF6VENT-04	0	4.35	18.4	0	0	0	8.0	11.9	0	0.2	0	0	20.9	0	0	0	0.0	19.6	0	0
LF6VENT-05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF6VENT-06	0	0	15.8	0	0	0	0	15.9	0	0	0	0	20.9	0	0	0	0.0	19.6	0	0
LF6VENT-07	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF6VENT-08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF6VENT-09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF6VENT-10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF6VENT-11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF6VENT-12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF6VENT-13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF6VENT-14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF6VENT-15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF6VENT-16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Notes:
NI = Not Installed
NS = Not Sampled
- - = Not Monitored
% = percent
in. = inches
LEL = Lower Explosive Limit
ppm = parts per million
VOC = volatile organic compound
- - = Not Monitored

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APPENDIX A – HISTORICAL LANDFILL GAS MONITORING RESULTS

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Appendix A-1 LF001 (Landfill 1 AOC) Landfill Gas Monitoring Results (2010-2023)

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Appendix A-1
LF001 (Landfill 1 AOC) Landfill Gas Monitoring Results (2010-2023)
Former Griffiss Air Force Base
Rome, New York

	February 2010				May 2010			
	Barometric Pressure (in.) = 29.45-29.50				Barometric Pressure (in.) = 29.04-29.23			
Sample Location	LEL (%)	Methane (%)	Oxygen (%)	Carbon Dioxide (%)	LEL (%)	Methane (%)	Oxygen (%)	Carbon Dioxide (%)
LF1GMP-01	>100	45.5	2.1	20.6	>100	32.4	2.5	18.8
LF1GMP-02	0	0.0	14.4	2.1	>100	8.1	0.0	12.8
LF1GMP-03	>100	5.7	8.1	8.1	>100	18.2	0.0	22.1
LF1GMP-04	10	0.5	14.3	4.5	>100	17.6	0.0	24.2
LF1GMP-06	>100	70.8	0.0	4.3	>100	44.8	0.0	6.3
LF1GMP-08	0	0.0	20.5	1.1	0	0.0	16.3	2.5
LF1GMP-09	47	2.4	7.7	4.0	>100	11.2	0.0	12.5
LF1GMP-10	>100	9.0	6.8	10.7	>100	10.2	0.5	15.1
LF1GMP-11	0	0.0	23.8	0.1	0	0.0	16.1	2.3
LF1GMP-12	0	0.0	21.4	1.5	0	0.0	18.5	1.5
LF1GMP-13	0	0.0	18.1	1.3	0	0.0	15.1	2.2
LF1GMP-14	0	0.0	21.6	0.6	0	0.0	19.0	0.5
LF1GMP-15	0	0.0	22.3	0.1	0	0.0	19.2	0.5
LF1GMP-16	0	0.0	19.9	1.5	0	0.0	19.1	1.6
LF1GMP-17	0	0.0	19.6	1.5	0	0.0	19.4	1.5
LF1GMP-18	0	0.0	22.0	0.1	0	0.0	19.6	0.2
LF1GMP-19	0	0.0	22.0	0.3	0	0.0	18.6	0.7
LF1GMP-20	2	0.1	22.7	0.1	0	0.0	19.6	0.0
LF1GV-01	0	0.0	22.1	0.2	>100	8.0	13.6	8.1
LF1GV-02	2	0.1	21.3	0.5	>100	7.6	12.5	9.8
LF1GV-03	3	0.1	21.0	0.7	>100	5.4	14.0	6.8
LF1GV-04	0	0.0	22.0	0.3	>100	15.2	0.3	20.9
LF1GV-05	>100	6.1	19.5	8.8	>100	5.7	14.8	6.7
LF1GV-06	>100	7.4	2.9	17.1	>100	8.2	6.8	12.2
LF1GV-07	>100	6.6	14.6	7.3	3	0.1	20.9	0.1
LF1GV-08	>100	6.5	17.0	4.8	13	0.6	20.6	0.5
LF1GV-09	47	2.3	19.2	2.1	16	0.8	20.6	0.7
LF1GV-10	>100	5.0	8.4	11.8	2	0.1	20.7	0.2
LF1GV-11	79	3.9	18.4	3.1	3	0.1	20.8	0.2
LF1GV-12	60	3.0	16.9	4.2	3	0.2	20.6	0.3
LF1GV-13	>100	20.4	0.4	22.5	2	0.1	20.3	0.9
LF1GV-14	>100	5.0	17.5	3.9	46	2.3	19.7	1.3
LF1GV-15	24	1.2	17.9	2.8	5	0.2	20.6	0.4
LF1GV-16	6	0.3	18.3	1.9	0	0.0	20.9	0.0
LF1GV-17	31	1.5	21.1	1.3	37	1.7	19.9	1.4
LF1GV-18	22	1.1	20.6	1.4	21	1.0	20.0	0.9
LF1GV-19	52	2.5	17.5	3.3	8	0.3	20.5	0.5
LF1GV-20	58	2.9	18.7	1.9	28	1.4	20.1	0.6
LF1GV-21	>100	5.9	18.9	2.4	76	3.8	19.6	1.1
LF1GV-22	>100	7.3	16.0	5.5	12	0.6	20.6	0.5
LF1GV-23	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned
LF1GV-24	0	0.0	22.3	0.1	0	0.0	14.9	1.9
LF1GV-25	0	0.0	22.2	0.1	0	0.0	16.1	2.8
LF1GV-26	0	0.0	22.1	0.2	0	0.0	19.8	0.1
LF1GV-27	0	0.0	21.8	0.1	0	0.0	19.6	0.2
LF1GV-28	0	0.0	22.0	0.1	0	0.0	17.7	1.4
LF1GV-29	0	0.0	19.6	1.6	0	0.0	19.9	0.1
LF1GV-30	0	0.0	21.9	0.1	0	0.0	19.6	0.3
LF1GV-31	0	0.0	21.8	0.1	0	0.0	14.2	4.1

Notes:
> = greater than
% = percent
in. = inches
LEL = Lower Explosive Limit
ppm = parts per million
VOC = volatile organic compound
- - = Not Monitored

Appendix A-1
LF001 (Landfill 1 AOC) Landfill Gas Monitoring Results (2010-2023)
Former Griffiss Air Force Base
Rome, New York

	August 2010				October 2010			
	Barometric Pressure (in.) = 29.40-29.29				Barometric Pressure (in.) = 29.13-29.20			
Sample Location	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
LF1GMP-02	>100	28.6	0.1	18.1	26	1.3	7.9	3.6
LF1GMP-03	>100	43.7	0.1	34.6	>100	46.1	0.8	34.0
LF1GMP-04	>100	53.8	0.1	40.9	>100	24.8	8.6	20.4
LF1GMP-06	>100	79.5	0.3	8.9	>100	24.2	12.9	3.5
LF1GMP-08	0	0.0	7.4	8.4	0	0.0	18.8	0.8
LF1GMP-09	>100	45.7	0.3	22.9	60	3.0	17.5	1.8
LF1GMP-10	>100	18.1	0.3	21.6	0	0.0	18.8	0.5
LF1GMP-11	0	0.0	15.2	3.3	0	0.0	20.1	0.4
LF1GMP-12	0	0.0	17.9	2.3	0	0.0	19.9	0.7
LF1GMP-13	0	0.0	7.4	7.1	0	0.0	19.1	0.4
LF1GMP-14	0	0.0	15.6	2.0	0	0.0	18.9	0.4
LF1GMP-15	0	0.0	18.6	1.3	0	0.0	18.6	0.8
LF1GMP-16	0	0.0	17.7	2.5	0	0.0	18.7	1.7
LF1GMP-17	0	0.0	17.5	2.5	1	0.1	19.7	0.8
LF1GMP-18	0	0.0	17.5	2.4	0	0.0	19.6	1.0
LF1GMP-19	53	2.6	7.1	5.2	0	0.0	20.2	0.3
LF1GMP-20	0	0.0	20.1	0.0	0	0.0	20.3	0.3
LF1GV-01	>100	26.3	8.8	23.2	9	0.5	15.4	6.4
LF1GV-02	>100	11.8	14.7	9.6	32	1.6	15.3	6.7
LF1GV-03	>100	27.5	8.0	21.0	>100	8.5	12.9	9.1
LF1GV-04	>100	24.2	5.5	22.2	>100	10.3	9.7	13.3
LF1GV-05	>100	23.7	10.0	19.3	17	0.9	14.8	7.6
LF1GV-06	>100	32.8	4.3	25.3	56	2.8	10.8	13.2
LF1GV-07	>100	16.1	13.6	14.2	15	0.9	15.7	6.4
LF1GV-08	>100	9.5	16.7	6.2	14	0.7	15.7	5.1
LF1GV-09	>100	9.8	16.4	6.8	8	0.4	15.4	5.7
LF1GV-10	>100	15.4	13.4	13.0	76	3.8	11.8	13.4
LF1GV-11	>100	5.2	18.0	3.9	11	0.6	15.9	5.6
LF1GV-12	>100	14.5	13.1	12.4	28	1.4	14.4	8.0
LF1GV-13	>100	13.5	12.8	11.4	90	4.3	9.8	14.6
LF1GV-14	>100	5.0	18.2	3.5	11	0.6	15.2	5.9
LF1GV-15	>100	6.5	16.6	6.9	0	0.0	16.8	3.4
LF1GV-16	>100	8.8	14.0	7.5	34	1.7	11.2	9.6
LF1GV-17	>100	5.8	17.5	5.1	17	0.9	15.4	6.2
LF1GV-18	>100	9.3	15.9	6.9	13	0.7	15.7	4.8
LF1GV-19	>100	15.4	12.5	10.3	63	3.1	10.8	10.0
LF1GV-20	>100	10.1	13.5	6.5	62	3.1	9.9	9.5
LF1GV-21	>100	17.5	14.0	6.7	47	2.4	13.0	6.6
LF1GV-22	>100	8.6	15.9	6.8	34	1.9	13.7	8.2
LF1GV-23	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned
LF1GV-24	>100	18.9	0.4	21.3	0	0.0	19.6	0.5
LF1GV-25	>100	26.9	0.2	26.5	39	1.9	17.0	3.2
LF1GV-26	>100	10.8	12.0	10.4	68	3.4	17.8	3.2
LF1GV-27	33	1.7	18.7	2.9	>100	10.7	13.6	8.0
LF1GV-28	5	0.2	19.7	0.3	11	0.6	20.2	0.4
LF1GV-29	26	1.3	17.8	2.4	>100	8.8	11.4	8.2
LF1GV-30	>100	8.6	10.4	11.7	0	0.0	20.2	0.4
LF1GV-31	>100	5.6	9.5	9.0	0	0.0	19.5	0.7

Notes:
> = greater than
% = percent
in. = inches
LEL = Lower Explosive Limit
ppm = parts per million
VOC = volatile organic compound
- - = Not Monitored

Appendix A-1
LF001 (Landfill 1 AOC) Landfill Gas Monitoring Results (2010-2023)
Former Griffiss Air Force Base
Rome, New York

	May 2011				October 2011			
	Barometric Pressure (in.) = 29.41-29.21				Barometric Pressure (in.) = 29.11-29.14			
Sample Location	LEL (%)	Methane (%)	Oxygen (%)	Carbon Dioxide (%)	LEL (%)	Methane (%)	Oxygen (%)	Carbon Dioxide (%)
LF1GMP-01	>100	36.9	0.8	22.2	0	0.0	21.2	0.0
LF1GMP-02	>100	11.7	2.6	12.9	0	0.0	21.2	0.0
LF1GMP-03	>100	25.9	0.0	25.4	>100	44.3	0.6	35.2
LF1GMP-04	>100	32.7	0.0	27.4	>100	44.6	0.4	39.5
LF1GMP-06	>100	70.1	0.0	3.5	0	0.0	20.8	0.2
LF1GMP-08	0	0.0	14.4	3.4	0	0.0	20.0	1.0
LF1GMP-09	>100	20.5	1.1	7.6	59	2.8	17.4	1.8
LF1GMP-10	>100	11.2	0.6	15.9	>100	16.2	2.1	18.1
LF1GMP-11	0	0.0	17.1	1.1	0	0.0	20.3	0.8
LF1GMP-12	0	0.0	19.1	0.5	0	0.0	20.2	1.6
LF1GMP-13	0	0.0	13.5	1.7	0	0.0	12.4	4.4
LF1GMP-14	0	0.0	18.4	0.4	0	0.0	19.6	0.6
LF1GMP-15	0	0.0	18.8	1.3	0	0.0	20.6	0.6
LF1GMP-16	0	0.0	18.7	1.4	0	0.0	21.1	0.0
LF1GMP-17	0	0.0	18.4	1.4	0	0.0	21.1	0.0
LF1GMP-18	0	0.0	19.7	0.0	0	0.0	21.0	0.5
LF1GMP-19	0	0.0	17.0	0.4	0	0.0	21.2	0.1
LF1GMP-20	0	0.0	19.9	0.0	0	0.0	21.4	0.0
LF1GV-01	>100	7.2	15.9	5.9	0	0.0	21.5	0.1
LF1GV-02	>100	14.0	10.5	12.7	0	0.0	20.2	1.6
LF1GV-03	>100	32.7	0.0	28.6	0	0.0	21.0	0.4
LF1GV-04	>100	20.8	4.4	20.4	0	0.0	21.2	0.3
LF1GV-05	>100	14.5	13.5	12.3	0	0.0	21.2	0.6
LF1GV-06	>100	20.3	7.9	17.8	0	0.0	21.4	0.2
LF1GV-07	>100	12.6	15.0	8.4	0	0.0	21.9	0.0
LF1GV-08	>100	6.6	17.8	4.3	0	0.0	21.8	0.0
LF1GV-09	>100	10.7	16.6	4.6	0	0.0	21.8	0.0
LF1GV-10	>100	11.3	14.0	9.6	0	0.0	21.6	0.1
LF1GV-11	>100	8.4	17.2	4.5	0	0.0	22.0	0.0
LF1GV-12	81	4.0	18.3	4.1	0	0.0	22.0	0.0
LF1GV-13	>100	13.0	11.3	10.7	19	0.9	17.0	4.1
LF1GV-14	>100	6.7	16.9	4.3	6	0.3	21.1	0.7
LF1GV-15	77	4.0	17.5	3.6	0	0.0	21.8	0.1
LF1GV-16	62	3.5	15.1	4.7	0	0.0	21.9	0.0
LF1GV-17	>100	6.0	17.7	4.0	10	0.5	20.2	1.4
LF1GV-18	74	3.7	18.4	2.9	0	0.0	21.6	0.1
LF1GV-19	>100	9.9	14.2	7.2	0	0.0	20.0	1.8
LF1GV-20	>100	11.2	11.8	7.0	0	0.0	21.4	0.1
LF1GV-21	>100	19.5	12.5	7.1	0	0.0	21.3	0.1
LF1GV-22	>100	7.6	15.7	5.2	0	0.0	21.3	0.3
LF1GV-23	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned
LF1GV-24	0	0.0	2.6	10.9	0	0.0	21.1	0.0
LF1GV-25	5	0.8	13.1	4.4	0	0.0	21.5	0.0
LF1GV-26	0	0.0	20.5	0.0	0	0.0	21.6	0.0
LF1GV-27	53	2.2	15.8	4.4	0	0.0	21.3	0.3
LF1GV-28	0	0.0	20.4	0.0	0	0.0	21.6	0.0
LF1GV-29	0	0.0	20.4	0.0	0	0.0	21.6	0.0
LF1GV-30	0	0.0	20.6	0.0	0	0.0	21.5	0.5
LF1GV-31	0	0.0	19.3	1.2	0	0.0	20.1	1.3

Notes:
> = greater than
% = percent
in. = inches
LEL = Lower Explosive Limit
ppm = parts per million
VOC = volatile organic compound
- - = Not Monitored

Appendix A-1
LF001 (Landfill 1 AOC) Landfill Gas Monitoring Results (2010-2023)
Former Griffiss Air Force Base
Rome, New York

	May 2012				October 2012			
	Barometric Pressure (in.) = 29.02-29.34				Barometric Pressure (in.) = 29.49-29.56			
Sample Location	LEL (%)	Methane (%)	Oxygen (%)	Carbon Dioxide (%)	LEL (%)	Methane (%)	Oxygen (%)	Carbon Dioxide (%)
LF1GMP-01	>100	20.4	0.9	22.5	>100	30.5	3.9	19.4
LF1GMP-02	>100	21.7	0.0	13.9	>100	16.3	2.3	9.7
LF1GMP-03	>100	24.3	0.0	28.1	>100	38.2	1.3	30.8
LF1GMP-04	>100	31.4	0.0	28.4	56	2.8	19.3	3.1
LF1GMP-06	>100	52.9	0.0	5.0	>100	77.3	0.2	8.7
LF1GMP-08	0	0.0	13.4	3.4	0	0.0	20.6	0.4
LF1GMP-09	>100	19.2	0.0	11.5	>100	43.5	1.5	24.4
LF1GMP-10	>100	13.0	0.2	15.1	53	2.5	17.1	4.1
LF1GMP-11	0	0.0	17.4	2.7	0	0.0	20.9	0.2
LF1GMP-12	0	0.0	20.5	1.6	0	0.0	20.7	0.6
LF1GMP-13	0	0.0	18.3	1.7	0	0.0	20.5	0.3
LF1GMP-14	0	0.0	21.5	0.3	0	0.0	20.7	0.7
LF1GMP-15	0	0.0	21.2	0.6	0	0.0	20.0	0.9
LF1GMP-16	0	0.0	22.0	0.0	0	0.0	20.7	0.2
LF1GMP-17	0	0.0	18.3	1.7	0	0.0	20.7	0.1
LF1GMP-18	0	0.0	20.5	1.7	0	0.0	15.0	3.4
LF1GMP-19	0	0.0	20.4	0.5	0	0.0	17.9	1.9
LF1GMP-20	0	0.0	21.9	0.0	0	0.0	21.2	0.0
LF1GV-01	>100	6.0	18.9	5.0	>100	18.9	4.4	21.7
LF1GV-02	>100	7.4	17.9	6.4	>100	25.4	2.6	26.3
LF1GV-03	74	3.8	19.8	3.0	>100	24.9	6.2	23.8
LF1GV-04	0	0.0	22.0	0.1	>100	17.0	12.9	14.7
LF1GV-05	>100	24.9	8.5	21.6	>100	26.7	6.6	25.2
LF1GV-06	>100	25.5	2.3	26.0	>100	20.7	3.1	23.9
LF1GV-07	>100	9.5	17.4	7.3	>100	20.4	10.7	18.5
LF1GV-08	>100	22.4	11.8	12.4	>100	13.2	14.4	8.4
LF1GV-09	>100	28.4	9.1	18.0	>100	12.3	13.4	10.2
LF1GV-10	>100	17.8	11.9	16.9	>100	33.3	2.5	31.5
LF1GV-11	>100	7.3	18.3	5.4	>100	18.5	9.2	16.2
LF1GV-12	>100	32.6	8.5	23.7	>100	15.0	9.7	15.8
LF1GV-13	>100	18.6	11.4	14.7	>100	21.0	8.2	18.5
LF1GV-14	>100	9.8	16.4	6.8	62	3.0	18.8	3.0
LF1GV-15	>100	8.3	17.3	4.7	25	1.2	19.5	1.5
LF1GV-16	>100	8.5	15.7	5.7	0	0.0	21.1	0.0
LF1GV-17	>100	23.2	10.9	14.9	0	0.0	21.2	0.0
LF1GV-18	>100	6.4	18.5	4.1	0	0.0	21.0	0.1
LF1GV-19	>100	7.7	17.8	4.4	0	0.0	21.2	0.0
LF1GV-20	>100	6.0	18.3	2.8	0	0.0	21.2	0.0
LF1GV-21	>100	10.3	18.5	2.7	0	0.1	21.1	0.0
LF1GV-22	>100	17.2	11.6	13.2	0	0.0	21.2	0.0
LF1GV-23	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned
LF1GV-24	>100	5.8	6.1	7.6	>100	14.7	1.6	22.7
LF1GV-25	2	0.1	22.0	0.1	6	0.3	20.9	0.3
LF1GV-26	0	0.0	21.9	0.0	0	0.0	21.1	0.0
LF1GV-27	>100	12.2	12.3	8.8	0	0.0	21.1	0.0
LF1GV-28	0	0.0	21.9	0.0	0	0.0	21.1	0.0
LF1GV-29	0	0.0	22.0	0.0	0	0.0	21.1	0.0
LF1GV-30	2	0.2	21.9	0.0	0	0.0	21.2	0.0
LF1GV-31	0	0.0	20.5	0.2	4	0.2	20.5	0.6

Notes:
> = greater than
% = percent
in. = inches
LEL = Lower Explosive Limit
ppm = parts per million
VOC = volatile organic compound
- - = Not Monitored

Appendix A-1
LF001 (Landfill 1 AOC) Landfill Gas Monitoring Results (2010-2023)
Former Griffiss Air Force Base
Rome, New York

	April 2013				October 2013			
	Barometric Pressure (in.) = 29.59-29.63				Barometric Pressure (in.) = 29.35-29.41			
Sample Location	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
LF1GMP-02	0	0.0	20.9	0.1	61	3.0	16.9	3.0
LF1GMP-03	0	0.0	20.9	0.0	>100	21.9	8.2	15.8
LF1GMP-04	0	0.0	20.8	0.2	>100	21.8	0.2	25.6
LF1GMP-06	>100	25.0	9.2	3.1	>100	7.8	11.4	2.4
LF1GMP-08	0	0.0	18.8	1.6	28	1.3	0.9	13.2
LF1GMP-09	3	0.1	20.7	0.2	>100	44.2	0.4	18.5
LF1GMP-10	25	1.2	18.8	0.5	>100	13.9	2.1	11.7
LF1GMP-11	0	0.0	18.6	1.9	0	0.0	18.5	1.8
LF1GMP-12	0	0.0	19.7	1.2	0	0.0	19.7	1.2
LF1GMP-13	0	0.0	19.9	0.8	0	0.0	20.0	1.3
LF1GMP-14	0	0.0	20.9	0.0	0	0.0	13.1	4.5
LF1GMP-15	0	0.0	17.5	1.6	0	0.0	18.8	1.1
LF1GMP-16	0	0.0	19.8	1.3	0	0.0	19.2	1.2
LF1GMP-17	0	0.0	19.7	1.3	0	0.0	20.8	0.7
LF1GMP-18	0	0.0	20.8	0.1	0	0.0	19.6	1.9
LF1GMP-19	0	0.0	20.9	0.0	0	0.0	20.8	0.4
LF1GMP-20	0	0.0	20.8	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
LF1GV-02	0	0.0	20.8	0.0	>100	6.4	12.1	10.5
LF1GV-03	0	0.0	20.7	0.0	59	3.0	15.4	5.8
LF1GV-04	0	0.0	20.7	0.0	>100	6.7	8.8	12.5
LF1GV-05	0	0.0	21.1	0.0	>100	6.2	15.2	7.6
LF1GV-06	0	0.0	21.1	0.0	>100	6.8	8.2	12.8
LF1GV-07	0	0.0	21.1	0.0	68	3.9	17.9	4.2
LF1GV-08	5	0.2	21.1	0.1	>100	7.3	16.0	6.9
LF1GV-09	2	0.1	21.1	0.1	79	4.0	15.8	3.7
LF1GV-10	0	0.0	20.9	0.0	>100	9.0	9.7	12.4
LF1GV-11	0	0.0	20.9	0.0	>100	6.0	16.6	4.0
LF1GV-12	0	0.0	21.1	0.0	>100	5.2	9.5	11.1
LF1GV-13	1	0.1	21.0	0.0	>100	5.3	16.8	4.6
LF1GV-14	0	0.0	21.0	0.0	47	2.4	19.0	2.1
LF1GV-15	0	0.0	21.0	0.0	20	1.0	20.4	1.0
LF1GV-16	0	0.0	21.2	0.0	65	3.3	9.1	8.6
LF1GV-17	0	0.0	21.1	0.0	80	4.2	17.9	3.7
LF1GV-18	0	0.0	21.3	0.0	93	4.7	15.5	5.3
LF1GV-19	0	0.0	21.2	0.0	>100	10.5	5.3	14.9
LF1GV-20	0	0.0	21.2	0.0	>100	5.3	16.6	3.7
LF1GV-21	2	0.1	21.1	0.0	>100	9.7	15.3	4.9
LF1GV-22	0	0.0	21.1	0.0	>100	6.2	15.1	6.9
LF1GV-23	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned
LF1GV-24	0	0.0	19.3	0.9	0	0.0	17.2	2.0
LF1GV-25	0	0.0	20.9	0.1	3	0.2	20.9	0.4
LF1GV-26	0	0.0	21.1	0.0	9	0.5	20.4	0.4
LF1GV-27	0	0.0	20.4	0.4	0	0.0	20.5	1.1
LF1GV-28	0	0.0	21.2	0.0	0	0.0	21.4	0.1
LF1GV-29	0	0.0	21.1	0.0	0	0.0	17.9	1.8
LF1GV-30	0	0.0	21.1	0.0	0	0.0	21.3	0.1
LF1GV-31	0	0.0	19.9	0.6	0	0.0	20.5	0.5

Notes:
> = greater than
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LEL = Lower Explosive Limit
ppm = parts per million
VOC = volatile organic compound
- - = Not Monitored

Appendix A-1
LF001 (Landfill 1 AOC) Landfill Gas Monitoring Results (2010-2023)
Former Griffiss Air Force Base
Rome, New York

	May 2014				November 2014			
	Barometric Pressure (in.) = 29.51-29.62				Barometric Pressure (in.) = 29.49-29.51			
Sample Location	LEL (%)	Methane (%)	Oxygen (%)	Carbon Dioxide (%)	LEL (%)	Methane (%)	Oxygen (%)	Carbon Dioxide (%)
LF1GMP-01	0	0.0	20.8	0.0	>100	23.0	4.1	17.2
LF1GMP-02	0	0.0	20.8	0.0	0	0.0	14.8	2.4
LF1GMP-03	55	2.7	8.6	6.0	>100	25.6	0.0	16.1
LF1GMP-04	0	0.0	20.8	0.0	>100	36.1	1.4	14.8
LF1GMP-06	3	0.1	20.5	0.1	0	0.0	19.7	0.6
LF1GMP-08	0	0.0	20.5	0.1	0	0.0	20.1	0.1
LF1GMP-09	43	2.1	17.8	0.7	>100	8.1	12.3	5.8
LF1GMP-10	29	1.4	16.8	0.3	>100	10.3	0.9	14.4
LF1GMP-11	0	0.0	20.3	0.4	0	0.0	20.9	0.6
LF1GMP-12	0	0.0	19.6	1.5	0	0.0	20.9	0.2
LF1GMP-13	0	0.0	19.5	0.7	0	0.0	20.7	1.3
LF1GMP-14	0	0.0	16.7	1.8	0	0.0	18.8	0.7
LF1GMP-15	0	0.0	19.7	0.6	0	0.0	19.1	0.0
LF1GMP-16	0	0.0	20.1	1.0	0	0.0	19.4	0.1
LF1GMP-17	0	0.0	20.8	0.2	0	0.0	18.7	0.5
LF1GMP-18	0	0.0	20.9	0.0	0	0.0	18.0	1.1
LF1GMP-19	0	0.0	20.7	0.0	0	0.0	20.1	0.0
LF1GMP-20	0	0.0	20.7	0.0	0	0.0	19.9	1.2
LF1GV-01	3	0.1	20.0	0.3	>100	8.2	13.4	7.2
LF1GV-02	7	0.3	19.0	1.3	>100	6.2	16.8	5.0
LF1GV-03	7	0.4	17.9	2.5	14	0.7	20.1	0.6
LF1GV-04	14	0.7	15.2	6.4	0	0.0	20.3	0.0
LF1GV-05	5	0.2	19.7	0.4	0	0.0	19.9	0.1
LF1GV-06	9	0.4	10.3	7.2	0	0.0	21.2	0.0
LF1GV-07	>100	5.2	11.7	9.2	0	0.0	21.1	0.0
LF1GV-08	46	2.3	17.6	2.9	22	1.5	14.8	5.3
LF1GV-09	63	3.1	15.7	4.0	0	0.0	19.9	0.0
LF1GV-10	3	0.1	16.1	2.8	0	0.0	19.7	0.1
LF1GV-11	29	1.4	17.9	1.4	0	0.0	19.8	0.1
LF1GV-12	7	0.3	16.9	2.4	0	0.0	20.1	0.0
LF1GV-13	82	4.1	13.6	5.7	51	2.6	2.4	13.8
LF1GV-14	87	4.4	13.9	5.2	0	0.0	20.1	0.0
LF1GV-15	5	0.2	18.1	1.3	0	0.0	18.8	0.5
LF1GV-16	0	0.0	16.8	1.9	0	0.0	19.1	0.0
LF1GV-17	75	4.0	17.1	2.7	0	0.0	20.3	0.0
LF1GV-18	>100	8.0	5.7	11.7	0	0.0	18.9	0.7
LF1GV-19	45	2.3	8.3	9.7	0	0.0	19.5	0.0
LF1GV-20	30	1.5	17.5	1.3	0	0.0	19.4	0.0
LF1GV-21	>100	6.0	14.8	3.6	0	0.0	19.5	0.0
LF1GV-22	>100	7.9	9.3	9.1	0	0.0	20.2	0.0
LF1GV-23	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned
LF1GV-24	0	0.0	19.1	1.2	0	0.0	20.1	0.0
LF1GV-25	0	0.0	20.8	0.0	0	0.0	20.0	0.9
LF1GV-26	0	0.0	20.8	0.0	0	0.0	20.0	0.0
LF1GV-27	0	0.0	20.9	0.0	0	0.0	18.7	0.8
LF1GV-28	0	0.0	20.9	0.0	0	0.0	18.8	1.5
LF1GV-29	0	0.0	20.8	0.2	0	0.0	21.0	0.0
LF1GV-30	0	0.0	20.3	0.5	0	0.0	19.5	1.0
LF1GV-31	0	0.0	20.6	0.4	0	0.0	20.0	0.0

Notes:
> = greater than
% = percent
in. = inches
LEL = Lower Explosive Limit
ppm = parts per million
VOC = volatile organic compound
- - = Not Monitored

Appendix A-1
LF001 (Landfill 1 AOC) Landfill Gas Monitoring Results (2010-2023)
Former Griffiss Air Force Base
Rome, New York

	May 2015				September 2015			
	Barometric Pressure (in.) = 29.28-29.62				Barometric Pressure (in.) = 29.36-29.54			
Sample Location	LEL (%)	Methane (%)	Oxygen (%)	Carbon Dioxide (%)	LEL (%)	Methane (%)	Oxygen (%)	Carbon Dioxide (%)
LF1GMP-01	0	0 0	20.8	0.0	> 100	25.4	0.1	24.1
LF1GMP-02	0	0.0	20.2	0.0	> 100	31.6	0.0	15.2
LF1GMP-03	31	18	18.5	3.7	> 100	40.8	0.0	36.6
LF1GMP-04	0	0 0	21.1	0.0	> 100	47.3	0.0	41.5
LF1GMP-06	> 100	32.2	8.1	3.6	> 100	77.0	0.1	7.3
LF1GMP-08	0	0 0	21.3	0.0	0	0.0	15.3	4.4
LF1GMP-09	0	0 0	21.0	0.0	> 100	34.9	0.1	20.6
LF1GMP-10	0	0 0	20.8	0.0	> 100	14.1	2.0	18.5
LF1GMP-11	0	0 0	21.2	0.0	1	0.0	1 4.2	6.4
LF1GMP-12	0	0. 0	20.4	0.8	2	0.1	20.0	0.7
LF1GMP-13	0	0 0	19.8	1.0	1	0.0	19.6	1.0
LF1GMP-14	0	0 0	20.9	0.0	0	0.0	17.4	2.9
LF1GMP-15	0	0 0	20.8	0.1	0	0.0	19.6	1.2
LF1GMP-16	0	0 0	20.3	1.0	0	0.0	20.3	0.2
LF1GMP-17	0	0 0	20.0	1.5	1	0.0	20.4	0.1
LF1GMP-18	0	0 0	20.9	0.0	1	0.0	13.1	0.8
LF1GMP-19	0	0 0	21.2	0.0	3	0.1	18.7	1.5
LF1GMP-20	0	0. 0	21.3	0.0	1	0.0	20.4	0.1
LF1GV-01	> 100	31.7	1.5	31.7	0	0.0	20.6	0.1
LF1GV-02	> 100	5.7	16.6	6.7	0	0.0	20.7	0.0
LF1GV-03	> 100	7.5	15.7	5.9	0	0.0	20.7	0.0
LF1GV-04	0	0 0	21.2	0.0	0	0.0	20.7	0.0
LF1GV-05	5	0.3	21.1	0.1	0	0.0	21	0.0
LF1GV-06	> 100	18.9	7.3	20.3	1	0.0	20.5	0.0
LF1GV-07	64	3.5	19.5	3.7	0	0.0	21.0	0.0
LF1GV-08	> 100	14.8	15.5	10.3	0	0.0	21.3	0.0
LF1GV-09	> 100	13.9	11.7	10.5	0	0.0	21.2	0.0
LF1GV-10	> 100	5 3	17.8	5.7	1	0.1	21.1	0.0
LF1GV-11	> 100	4.3	18.9	4.9	0	0.0	21.1	0.0
LF1GV-12	> 100	6.5	17.6	6.8	0	0.0	20.5	0.0
LF1GV-13	> 100	12.2	13.8	12.3	1	0.0	21.0	0.0
LF1GV-14	> 100	11.4	14.7	8.4	0	0.0	20.7	0.0
LF1GV-15	63	3.1	19.3	4.2	1	0.0	20.7	0.0
LF1GV-16	17	0.9	20.1	2.6	0	0.0	20.7	0.0
LF1GV-17	> 100	13.70	15.3	8.6	1	0.0	20.5	0.0
LF1GV-18	> 100	15.4	16.4	7.2	1	0.0	20.6	0.0
LF1GV-19	> 100	8.6	17.9	5.9	0	0.0	20.6	0.0
LF1GV-20	> 100	17.9	9.5	9.3	0	0.0	20.6	0.0
LF1GV-21	> 100	11.1	18.5	4.3	0	0.0	20.7	0.0
LF1GV-22	> 100	10.6	16.5	6.6	1	0.0	20.5	0.0
LF1GV-23	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned
LF1GV-24	> 100	5.5	1.1	11.7	14	0.3	19.4	2.3
LF1GV-25	> 100	10.5	5.2	8.9	0	0.1	20.2	0.0
LF1GV-26	0	0.0	21.7	0.1	0	0.0	20.1	0.0
LF1GV-27	> 100	9.5	9.3	12.4	5	0.7	21.3	0.0
LF1GV-28	0	0.0	21.7	0.0	0	0.0	21.3	0.0
LF1GV-29	2	0.1	21.5	0.0	0	0.0	21.2	0.0
LF1GV-30	0	0 0	21.1	2.5	0	0.0	21.3	0.0
LF1GV-31	0	0 0	17.3	3.0	0	0.0	20.1	0.9

Notes:
> = greater than
% = percent
in. = inches
LEL = Lower Explosive Limit
ppm = parts per million
VOC = volatile organic compound
- - = Not Monitored

Appendix A-1
LF001 (Landfill 1 AOC) Landfill Gas Monitoring Results (2010-2023)
Former Griffiss Air Force Base
Rome, New York

	December 2016				November 2017			
	Barometric Pressure (in.) = 29.53-29.54				Barometric Pressure (in.) = 29.51 - 29.51			
Sample Location	LEL (%)	Methane (%)	Oxygen (%)	Carbon Dioxide (%)	LEL (%)	Methane (%)	Oxygen (%)	Carbon Dioxide (%)
LF1GMP-01	0	0	21.1	0.1	0.0	0.0	21.4	0.1
LF1GMP-02	43	2.1	1	10.1	> 100	25.2	0.7	15.3
LF1GMP-03	> 100	9.4	6.3	15.3	> 100	19.6	9.0	17.8
LF1GMP-04	0	0	21.1	0.4	14.0	0.7	16.5	1.9
LF1GMP-06	> 100	9.1	14.6	3.2	> 100	40.0	2.6	5.0
LF1GMP-08	- -	- -	- -	- -	- -	- -	- -	- -
LF1GMP-09	> 100	22.7	7.7	7.5	0.0	0.0	21.2	0.0
LF1GMP-10	21	1	19.3	0.4	0.0	0.0	21.2	0.0
LF1GMP-11	- -	- -	- -	- -	- -	- -	- -	- -
LF1GMP-12	- -	- -	- -	- -	- -	- -	- -	- -
LF1GMP-13	0	0	18.7	1.5	0.0	0.0	19.4	1.6
LF1GMP-14	- -	- -	- -	- -	- -	- -	- -	- -
LF1GMP-15	- -	- -	- -	- -	- -	- -	- -	- -
LF1GMP-16	0	0	19.8	1.7	0.0	0.0	21.5	0.0
LF1GMP-17	- -	- -	- -	- -	- -	- -	- -	- -
LF1GMP-18	- -	- -	- -	- -	- -	- -	- -	- -
LF1GMP-19	- -	- -	- -	- -	- -	- -	- -	- -
LF1GMP-20	- -	- -	- -	- -	- -	- -	- -	- -
LF1GV-01	0	0	21.3	0.1	0.0	0.0	21.4	0.1
LF1GV-02	0	0	21.2	0.4	0.0	0.0	21.3	0.2
LF1GV-03	0	0	21.3	0.1	0.0	0.0	21.3	0.1
LF1GV-04	0	0	21.4	0	0.0	0.0	21.2	0.0
LF1GV-05	0	0	20.5	1	0.0	0.0	21.5	0.0
LF1GV-06	0	0	20.9	0.2	0.0	0.0	21.4	0.0
LF1GV-07	0	0	20.6	0.7	0.0	0.0	21.5	0.1
LF1GV-08	0	0	20.7	0.5	0.0	0.0	21.5	0.0
LF1GV-09	0	0	21.1	0.1	0.0	0.0	21.3	0.1
LF1GV-10	0	0	0.8	20	0.0	0.0	21.4	0.1
LF1GV-11	5	0.2	2.6	18.4	0.0	0.0	21.5	0.1
LF1GV-12	0	0	20.9	0.1	0.0	0.0	21.2	0.0
LF1GV-13	0	0	20.7	1	0.0	0.0	21.4	0.1
LF1GV-14	8	0.4	14.6	7.4	0.0	0.0	21.4	0.2
LF1GV-15	- -	- -	- -	- -	- -	- -	- -	- -
LF1GV-16	- -	- -	- -	- -	- -	- -	- -	- -
LF1GV-17	13	0.6	17.6	1.9	0.0	0.0	21.3	0.3
LF1GV-18	0	0	21	0.1	0.0	0.0	21.4	0.1
LF1GV-19	1	0	17	4.7	0.0	0.0	21.3	0.2
LF1GV-20	9	0.4	18.9	1.7	0.0	0.0	21.3	0.2
LF1GV-21	3	0.1	20.2	0.7	1.0	0.0	21.3	0.1
LF1GV-22	0	0	19.2	2	0.0	0.0	21.4	0.1
LF1GV-23	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned
LF1GV-24	0	0	21.2	0	0.0	0.0	21.5	0.0
LF1GV-25	0	0	20.8	0.6	0.0	0.0	20.6	1.0
LF1GV-26	- -	- -	- -	- -	- -	- -	- -	- -
LF1GV-27	0	0	19.8	0.9	0.0	0.0	21.5	0.0
LF1GV-28	0	0	20.3	0.4	- -	- -	- -	- -
LF1GV-29	- -	- -	- -	- -	- -	- -	- -	- -
LF1GV-30	- -	- -	- -	- -	- -	- -	- -	- -
LF1GV-31	- -	- -	- -	- -	- -	- -	- -	- -

Notes:
> = greater than
% = percent
in. = inches
LEL = Lower Explosive Limit
ppm = parts per million
VOC = volatile organic compound
- - = Not Monitored

Appendix A-1
LF001 (Landfill 1 AOC) Landfill Gas Monitoring Results (2010-2023)
Former Griffiss Air Force Base
Rome, New York

	October 2018				October 2019			
	Barometric Pressure (in.) = 29.58 - 29.57				Barometric Pressure (in.) = 29.34 - 29.38			
Sample Location	Hydrogen Sulfide (ppm)	Methane (%)	Oxygen (%)	Carbon Monoxide (ppm)	LEL (%)	Methane (%)	Oxygen (%)	Carbon Dioxide (%)
LF1GMP-01	0	>5	15.98	0	3.0	<0.1	21.0	0.1
LF1GMP-02	0	<0.1	20.9	0	<100	23.4	8.9	5.6
LF1GMP-03	0	<0.1	20.9	0	2.0	<0.1	21.2	0.0
LF1GMP-04	0	0.2	20.9	0	<100	56.2	2.6	5.6
LF1GMP-06	0	0.25	20.9	0	<100	24.6	8.2	4.7
LF1GMP-08	- -	- -	- -	- -	- -	- -	- -	- -
LF1GMP-09	0	<0.1	20.9	0	7	0.3	20.6	0.2
LF1GMP-10	0	<0.1	20.9	0	2.0	<0.1	20.8	0.0
LF1GMP-11	- -	- -	- -	- -	- -	- -	- -	- -
LF1GMP-12	- -	- -	- -	- -	- -	- -	- -	- -
LF1GMP-13	0	<0.1	20.9	0	1	<0.1	19.2	1.4
LF1GMP-14	- -	- -	- -	- -	- -	- -	- -	- -
LF1GMP-15	- -	- -	- -	- -	- -	- -	- -	- -
LF1GMP-16	0	<0.1	19.6	0	2	<0.1	21	0.0
LF1GMP-17	- -	- -	- -	- -	- -	- -	- -	- -
LF1GMP-18	- -	- -	- -	- -	- -	- -	- -	- -
LF1GMP-19	- -	- -	- -	- -	- -	- -	- -	- -
LF1GMP-20	- -	- -	- -	- -	- -	- -	- -	- -
LF1GV-01	0	<0.1	20.9	0	2	<0.1	21.3	0.0
LF1GV-02	0	<0.1	20.9	0	2	<0.1	21.2	0.0
LF1GV-03	0	<0.1	20.9	0	2	<0.1	21.2	0.0
LF1GV-04	0	<0.1	20.9	0	2	<0.1	21.0	0.0
LF1GV-05	0	<0.1	20.9	0	2	<0.1	21.1	0.0
LF1GV-06	0	<0.1	20.9	0	2	<0.1	20.9	0.0
LF1GV-07	0	<0.1	20.9	0	2	<0.1	21.1	0.0
LF1GV-08	0	<0.1	20.9	0	2	<0.1	21.1	0.0
LF1GV-09	0	0.1	20.9	0	2	<0.1	20.9	0.0
LF1GV-10	0	0.1	20.9	0	2	<0.1	21.1	0.0
LF1GV-11	0	<0.1	20.9	0	2	<0.1	21.1	0.0
LF1GV-12	0	<0.1	20.9	0	2	<0.1	20.9	0.0
LF1GV-13	0	<0.1	20.9	0	2	<0.1	21.1	0.0
LF1GV-14	0	0.2	20.9	0	2	<0.1	21.1	0.0
LF1GV-15	- -	- -	- -	- -	- -	- -	- -	- -
LF1GV-16	- -	- -	- -	- -	- -	- -	- -	- -
LF1GV-17	0	<0.1	20.9	0	2	<0.1	21.1	0.0
LF1GV-18	0	<0.1	20.9	0	2	<0.1	21.1	0.0
LF1GV-19	0	<0.1	20.9	0	2	<0.1	21.00	0.0
LF1GV-20	0	<0.1	20.9	0	2	<0.1	20.9	0.0
LF1GV-21	0	<0.1	20.9	0	2	<0.1	21.0	0.0
LF1GV-22	0	<0.1	20.9	0	2	<0.1	21.2	0.0
LF1GV-23	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned
LF1GV-24	0	<0.1	20.9	0	2	<0.1	21.2	0.0
LF1GV-25	0	<0.1	20.9	0	2	<0.1	21.1	0.0
LF1GV-26	- -	- -	- -	- -	- -	- -	- -	- -
LF1GV-27	0	<0.1	20.9	0	2	<0.1	21.1	0.0
LF1GV-28	- -	- -	- -	- -	- -	- -	- -	- -
LF1GV-29	- -	- -	- -	- -	- -	- -	- -	- -
LF1GV-30	- -	- -	- -	- -	- -	- -	- -	- -
LF1GV-31	- -	- -	- -	- -	- -	- -	- -	- -

Notes:
> = greater than
% = percent
in. = inches
LEL = Lower Explosive Limit
ppm = parts per million
VOC = volatile organic compound
- - = Not Monitored

Appendix A-1
LF001 (Landfill 1 AOC) Landfill Gas Monitoring Results (2010-2023)
Former Griffiss Air Force Base
Rome, New York

	September 2020					December 2021				
	Barometric Pressure (in.) = 30.0 - 30.3					Barometric Pressure (in.) = 30.0 - 30.1				
Sample Location	Hydrogen Sulfide (ppm)	Methane (%)	Oxygen (%)	Carbon Monoxide (ppm)	VOC (ppm)	Hydrogen Sulfide (ppm)	Methane (%)	Oxygen (%)	Carbon Monoxide (ppm)	VOC (ppm)
LF1GMP-01	0.5	3.5	7.7	5	130.2	0	>5	8.5	0	49.6
LF1GMP-02	0	>5	12.7	0	39.3	0	>5	9.3	0	8.3
LF1GMP-03	0.5	4.4	7.2	5	6	0	>5	19.3	0	5.6
LF1GMP-04	0	2.8	3.2	12	0	0	0	20.9	0	0
LF1GMP-06	0	>5	18.1	0	0	0	0	20.3	0	0
LF1GMP-08	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
LF1GMP-09	0	4.2	12.1	3	18.6	0	0	20.9	0	0
LF1GMP-10	0	>5	3.6	8	5.1	0	0	20.9	0	0.1
LF1GMP-11	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
LF1GMP-12	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
LF1GMP-13	0.5	0	21.2	0	0	0	0	20.9	0	0
LF1GMP-14	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
LF1GMP-15	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
LF1GMP-16	0	0	20.9	0	0	0	0	19.2	0	0
LF1GMP-17	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
LF1GMP-18	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
LF1GMP-19	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
LF1GMP-20	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
LF1GV-01	0	>5	20.8	0	0	0	0	20.9	0	0
LF1GV-02	0	>5	18.4	0	0	0	0	20.9	0	0
LF1GV-03	0	>5	19.2	0	0	0	0	20.9	0	0.1
LF1GV-04	0	3.2	19.1	0	0	0	0	20.9	0	0.1
LF1GV-05	0	>5	16.1	0	0	0	0	20.9	0	0
LF1GV-06	0	>5	18.4	0	0.9	0	0	20.9	0	0.1
LF1GV-07	0	>5	21.2	0	0	0	0	20.9	0	0
LF1GV-08	0	>5	15.6	0	3.5	0	0	20.9	0	0
LF1GV-09	0	>5	15.5	0	0	0	0	20.9	0	0.1
LF1GV-10	0	>5	14	0	0	0	0	20.9	0	0
LF1GV-11	0	3.0	20.8	0	0	0	0	20.9	0	0
LF1GV-12	0	>5	18.9	0	0	0	0	20.9	0	0
LF1GV-13	0	>5	18.9	0	0	0	0	20.9	0	0
LF1GV-14	0	3.5	20.3	0	0	0	0	20.9	0	0
LF1GV-15	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
LF1GV-16	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
LF1GV-17	0	>5	20.4	0	0	0	0	20.9	0	0
LF1GV-18	0	4.7	20.4	0	0	0	0	20.9	0	0
LF1GV-19	0	>5	17.7	0	0	0	0	20.9	0	0
LF1GV-20	0	3.7	18.8	0	0	0	0	20.9	0	0
LF1GV-21	0	4.6	20.9	0	0	0	0	20.9	0	0
LF1GV-22	0	3.5	20.9	0	0	0	0	20.9	0	0
LF1GV-23	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned
LF1GV-24	0	0	21.8	0	0	0	0	20.9	0	0
LF1GV-25	0	0.9	20.9	0	0	0	0	20.9	0	0
LF1GV-26	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
LF1GV-27	0	0	21.7	0	0.4	0	0	20.9	0	0
LF1GV-28	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
LF1GV-29	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
LF1GV-30	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
LF1GV-31	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -

Notes:
> = greater than
% = percent
in. = inches
LEL = Lower Explosive Limit
ppm = parts per million
VOC = volatile organic compound
- - = Not Monitored

Appendix A-1
LF001 (Landfill 1 AOC) Landfill Gas Monitoring Results (2010-2023)
Former Griffiss Air Force Base
Rome, New York

	October 2022					September 2023				
	Barometric Pressure (in.) = 29.99 on 10/6 and 29.89 on 10/15					Barometric Pressure (in.) = 29.36 - 29.42 on 9/19				
Sample Location	Hydrogen Sulfide (ppm)	Methane (%)	Oxygen (%)	Carbon Monoxide (ppm)	VOC (ppm)	Hydrogen Sulfide (ppm)	Methane (%)	Oxygen (%)	Carbon Monoxide (ppm)	LEL (%)
LF1GMP-01	0.0	Over	3.3	0	20.7	0	0.0	19.2	0	0
LF1GMP-02	0.0	Over	13.9	0	8.7	0	30.8	3.2	13	over
LF1GMP-03	0.0	Over	1.6	0	1.4	1	42.5	0.8	10	over
LF1GMP-04	0.0	Over	1.3	0	2.0	0	0.0	19.2	0.0	0.0
LF1GMP-06	0.0	Over	10.1	0	0.4	2	62.5	2.8	16	over
LF1GMP-08	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
LF1GMP-09	0.0	Over	12.1	0	2.5	0	42.1	1.9	11	over
LF1GMP-10	0.0	Over	1.6	0	2.1	0	15.5	3.1	20	over
LF1GMP-11	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
LF1GMP-12	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
LF1GMP-13	0.0	0	19.1	0	0.0	- -	- -	- -	- -	- -
LF1GMP-14	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
LF1GMP-15	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
LF1GMP-16	0.0	0	19.4	0	0.0	- -	- -	- -	- -	- -
LF1GMP-17	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
LF1GMP-18	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
LF1GMP-19	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
LF1GMP-20	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
LF1GV-01	0.0	Over	13.9	0	0.0	0	0.0	19.3	0	0
LF1GV-02	0.0	30	17.4	0	0.0	0	0.0	19.4	0	0
LF1GV-03	0.0	30	18.1	0	0.0	0	0.0	19.4	0	0
LF1GV-04	0.0	6	16.7	0	0.0	0	0.0	19.5	0	0
LF1GV-05	0.0	Over	12.6	0	0.0	0	0.0	19.4	0	0
LF1GV-06	0.0	51	10.1	0	0.1	0	0.0	19.2	0	0
LF1GV-07	0.0	39	19.6	0	0.0	0	0.0	19.1	0	0
LF1GV-08	0.0	Over	17.0	0	0.8	0	0.0	19.3	0	0
LF1GV-09	0.0	30	18.3	0	1.0	0	0.0	19.1	0	0
LF1GV-10	0.0	Over	15.8	0	0.0	0	0.0	19.4	0	0
LF1GV-11	0.0	53	18.1	0	0.6	0	0.0	19.4	0	0
LF1GV-12	0.0	0	19.6	0	0.0	0	0.0	19.1	0	0
LF1GV-13	0.0	Over	19.3	0	0.2	0	0.0	18.9	0	0
LF1GV-14	0.0	61	18.7	0	0.0	0	0.0	19.3	0	0
LF1GV-15	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
LF1GV-16	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
LF1GV-17	0.0	Over	17.2	0	0.0	0	0.0	19.4	0	0
LF1GV-18	0.0	46	18.1	0	0.0	0	0.0	19.4	0	0
LF1GV-19	0.0	47	17.2	0	0.0	0	0.0	19.5	0	0
LF1GV-20	0.0	Over	13.0	0	0.1	0	0.0	19.4	0	0
LF1GV-21	0.0	Over	16.8	0	0.0	0	0.0	19.3	0	0
LF1GV-22	0.0	Over	16.2	0	0.0	0	0.0	19.3	0	0
LF1GV-23	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned
LF1GV-24	0.0	0	18.2	0	0.0	- -	- -	- -	- -	- -
LF1GV-25	0.0	4	20.7	0	0.2		0.2	19	0	4
LF1GV-26	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
LF1GV-27	0.0	Over	11.0	0	0.5		0.0	19.1	0	0
LF1GV-28	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
LF1GV-29	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
LF1GV-30	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
LF1GV-31	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -

Notes:
> = greater than
% = percent
in. = inches
LEL = Lower Explosive Limit
ppm = parts per million
VOC = volatile organic compound
- - = Not Monitored

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Appendix A-2 LF002 (Landfill 2/3 AOC) Landfill Gas Monitoring Results (2010-2023)

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Appendix A-2
LF002 (Landfill 2/3 AOC) Landfill Gas Monitoring Results (2010-2023)
Former Griffiss Air Force Base
Rome, New York

	February 2010				May 2010				October 2010				May 2011			
	Barometric Pressure (in.) = 29.34				Barometric Pressure (in.) = 29.05-29.06				Barometric Pressure (in.) = 29.24				Barometric Pressure (in.) = 29.21			
Sample Location	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	21.1	0.1	0	0.0	16.9	2.2	0	0.0	18.5	1.6	0	0.0	20.2	0.5
LF2GMP-02	0	0.0	21.5	0.0	>100	5.4	1.0	16.3	0	0.0	15.8	4.8	4	0.2	18.4	1.4
LF2GMP-03	3	0.1	21.1	0.4	0	0.0	21.0	0.0	0	0.0	17.4	2.5	0	0.0	19.5	1.3
LF2GMP-04	14	0.7	19.1	1.9	0	0.0	21.0	0.0	0	0.0	18.1	1.8	0	0.0	20.6	0.0
LF2GMP-05	0	0.0	22.0	0.1	0	0.0	21.0	0.0	0	0.0	18.4	1.5	0	0.0	11.7	2.1
LF2GMP-06	0	0.0	10.3	6.9	0	0.0	21.3	0.0	3	0.2	17.4	2.2	0	0.0	8.8	5.3
LF2GMP-07	0	0.0	21.3	1.2	0	0.0	20.9	0.5	5	0.3	18.1	2.3	0	0.0	18.7	1.5
LF2GMP-08	0	0.0	21.8	0.4	0	0.0	20.5	0.6	0	0.0	18.4	1.8	0	0.0	19.9	0.8
LF2GMP-09	0	0.0	21.9	0.3	0	0.0	21.0	0.3	0	0.0	18.9	1.3	0	0.0	20.3	0.3
LF2VENT-01	34	1.7	19.9	0.9	43	2.1	18.4	1.1	0	0.0	19.5	0.6	51	2.5	17.0	1.1
LF2VENT-02	0	0.0	21.9	0.2	0	0.0	21.0	0.0	0	0.0	19.4	0.6	2	0.1	20.0	0.0
LF2VENT-03	55	2.8	19.9	1.0	7	0.3	20.4	0.3	0	0.0	19.4	0.7	16	0.7	19.1	0.4
LF2VENT-04	11	0.5	19.4	1.7	41	2.0	14.2	5.2	1	0.0	19.1	0.9	86	5.2	16.6	1.2
LF2VENT-05	11	0.6	21.6	0.5	77	3.8	16.7	3.8	0	0.0	19.1	0.9	45	2.6	18.2	1.4
LF2VENT-06	>100	6.8	14.7	6.8	>100	7.1	12.0	7.9	0	0.0	18.8	1.3	>100	9.5	9.5	8.5
LF2VENT-07	0	0.0	22.0	0.1	2	0.1	17.2	1.1	0	0.0	19.5	0.6	5	0.3	17.7	0.5
LF2VENT-08	0	0.0	22.1	0.1	0	0.0	19.0	1.0	6	0.3	19.1	1.1	3	0.1	16.0	1.6
LF2VENT-09	0	0.0	22.1	0.1	0	0.0	18.4	1.8	7	0.4	19.4	0.8	3	0.1	12.7	2.1
LF2VENT-10	0	0.0	22.0	0.1	0	0.0	20.8	0.1	0	0.0	19.5	0.7	0	0.0	18.2	0.3
LF2VENT-11	2	0.1	21.5	0.3	6	0.3	17.5	1.4	0	0.0	19.5	0.7	12	0.6	14.7	1.5
LF2VENT-12	4	0.2	21.3	0.4	15	0.7	18.4	1.4	0	0.0	19.5	0.7	76	4.0	14.9	1.0
LF2VENT-13	9	0.4	21.0	0.4	36	1.8	18.4	0.9	0	0.0	19.4	0.6	37	1.8	17.3	0.7
LF2VENT-14	92	4.6	16.4	1.7	34	1.7	14.5	2.5	0	0.0	19.5	0.6	76	4.0	14.9	1.0

Notes:
> = greater than
% = percent
in. = inches
LEL = Lower Explosive Limit
ppm = parts per million
VOC = volatile organic compound
- - = Not Monitored

Appendix A-2
LF002 (Landfill 2/3 AOC) Landfill Gas Monitoring Results (2010-2023)
Former Griffiss Air Force Base
Rome, New York

	October 2011				May 2012				October 2012				May 2013			
	Barometric Pressure (in.) = 29.11-29.14				Barometric Pressure (in.) = 28.89-28.95				Barometric Pressure (in.) = 29.43-29.57				Barometric Pressure (in.) = 29.71-29.81			
Sample Location	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	2.8	0	0.0	21.7	0.0	0	0.0	17.3	2.4	0	0.0	18.5	1.6
LF2GMP-02	>100	7.6	4.6	16.6	0	0.0	22.0	0.0	>100	8.4	0.0	21.7	0	0.0	21.0	0.0
LF2GMP-03	0	0.0	19.0	2.3	0	0.0	22.0	0.0	0	0.0	20.8	0.0	0	0.0	20.8	0.0
LF2GMP-04	0	0.0	21.2	0.2	31	1.6	20.8	0.4	0	0.0	20.8	0.0	0	0.0	20.8	0.0
LF2GMP-05	>100	7.6	0.5	12.3	9	0.4	21.4	0.2	63	3.0	3.3	13.9	0	0.0	20.9	0.0
LF2GMP-06	0	0.0	6.2	10.2	>100	12.9	10.8	9.4	0	0.0	20.6	0.5	0	0.0	20.7	0.1
LF2GMP-07	0	0.0	19.2	2.9	0	0.0	21.5	0.1	0	0.0	19.0	2.3	0	0.0	20.7	0.3
LF2GMP-08	0	0.0	21.1	0.9	32	1.9	18.1	1.2	0	0.0	20.6	0.5	0	0.0	20.2	0.6
LF2GMP-09	0	0.0	21.8	0.0	0	0.0	22.3	0.1	0	0.0	20.6	0.3	0	0.0	20.7	0.3
LF2VENT-01	33	1.6	18.8	1.4	0	0.0	22.1	0.0	0	0.0	20.9	0.0	4	0.2	20.7	0.1
LF2VENT-02	0	0.0	21.9	0.0	0	0.0	22.3	0.1	0	0.0	21.0	0.0	0	0.0	20.9	0.0
LF2VENT-03	0	0.0	21.8	0.0	0	0.0	22.6	0.1	0	0.0	21.0	0.0	0	0.0	20.9	0.0
LF2VENT-04	60	2.8	17.6	1.9	2	0.1	22.1	0.1	4	0.2	18.7	1.1	2	0.1	20.8	0.0
LF2VENT-05	20	1.0	18.8	1.6	0	0.0	22.3	0.1	12	0.6	20.3	0.7	3	0.1	20.8	0.0
LF2VENT-06	>100	13.2	12.2	9.3	0	0.0	17.1	3.0	92	4.6	10.3	10.3	10	0.4	19.4	0.4
LF2VENT-07	0	0.0	22.0	0.0	75	3.6	3.8	14.2	0	0.0	21.0	0.0	2	0.1	20.8	0.0
LF2VENT-08	0	0.0	16.3	2.3	0	0.0	21.7	0.1	0	0.0	21.0	0.0	2	0.1	20.4	0.1
LF2VENT-09	10	0.5	11.1	4.1	4	0.2	21.5	0.4	0	0.0	21.0	0.0	0	0.0	19.3	0.4
LF2VENT-10	0	0.0	20.3	0.4	0	0.0	22.2	0.1	0	0.0	21.0	0.0	0	0.0	20.6	0.0
LF2VENT-11	0	0.0	20.0	0.6	0	0.0	22.7	0.0	0	0.0	21.0	0.0	0	0.0	20.7	0.0
LF2VENT-12	0	0.0	21.7	0.1	0	0.0	21.0	1.9	2	0.1	20.0	0.2	0	0.0	20.7	0.0
LF2VENT-13	13	0.6	19.1	0.9	0	0.0	21.2	1.0	0	0.0	21.0	0.0	0	0.0	20.9	0.0
LF2VENT-14	2	0.1	21.4	0.1	0	0.0	22.1	0.4	0	0.0	20.9	0.0	0	0.0	20.8	0.0

Notes:
> = greater than
% = percent
in. = inches
LEL = Lower Explosive Limit
ppm = parts per million
VOC = volatile organic compound
- - = Not Monitored

Appendix A-2
LF002 (Landfill 2/3 AOC) Landfill Gas Monitoring Results (2010-2023)
Former Griffiss Air Force Base
Rome, New York

	October 2013				May 2014				November 2014				May 2015			
	Barometric Pressure (in.) = 29.48-29.65				Barometric Pressure (in.) = 29.48-29.51				Barometric Pressure (in.) = 29.57				Barometric Pressure (in.) = 29.42-29.49			
Sample Location	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	20.3	0.4	0	0.0	20.4	0.3	0	0.0	20.1	1.2	0	0.0	18.6	2.0
LF2GMP-02	>100	10.2	0.2	19.4	17	0.9	1.5	12.6	0	0.0	20.2	0.1	0	0.0	21.4	0.0
LF2GMP-03	0	0.0	20.4	0.9	0	0.0	19.4	0.0	0	0.0	18.9	0.6	0	0.0	21.6	0.0
LF2GMP-04	0	0.0	20.9	0.3	0	0.0	19.2	0.0	0	0.0	19.5	0.0	0	0.0	21.7	0.0
LF2GMP-05	>100	7.6	0.0	10.3	0	0.0	14.9	1.2	12	0.7	16.1	0.9	0	0.0	21.8	0.0
LF2GMP-06	0	0.0	8.0	0.9	0	0.0	19.0	0.0	20	1.0	15.0	1.2	10	0.8	18.7	0.9
LF2GMP-07	0	0.0	18.9	2.5	0	0.0	19.1	1.2	0	0.0	19.7	0.3	0	0.0	20.1	0.1
LF2GMP-08	0	0.0	20.7	0.7	0	0.0	20.1	0.5	0	0.0	19.9	0.0	0	0.0	21.2	0.0
LF2GMP-09	0	0.0	21.0	0.4	0	0.0	20.7	0.3	0	0.0	19.9	0.0	0	0.0	20.4	0.0
LF2VENT-01	2	0.2	20.8	0.4	7	0.4	19.2	0.1	0	0.0	20.1	0.1	0	0.0	21.5	0.0
LF2VENT-02	1	0.1	21.5	0.0	0	0.0	19.5	0.0	0	0.0	20.2	0.0	0	0.0	21.5	0.0
LF2VENT-03	0	0.0	21.3	0.0	0	0.0	20.5	0.1	0	0.0	20.1	0.2	0	0.0	21.4	0.0
LF2VENT-04	35	1.8	19.8	0.8	0	0.0	20.8	0.1	0	0.0	19.9	0.6	0	0.0	21.2	0.0
LF2VENT-05	15	0.8	20.3	0.7	0	0.0	19.3	0.0	0	0.0	19.6	0.0	0	0.0	21.6	0.0
LF2VENT-06	>100	15.2	10.9	10.3	0	0.0	11.3	5.9	0	0.1	20.1	0.3	4	0.3	16	3.2
LF2VENT-07	0	0.0	21.5	0.0	0	0.0	20.5	0.0	6	0.3	18.1	0.6	0	0.0	20.7	0.2
LF2VENT-08	0	0.0	21.1	0.1	0	0.0	20.9	0.0	0	0.0	18.9	0.0	0	0.0	21.6	0.0
LF2VENT-09	0	0.0	18.8	1.4	0	0.0	12.7	1.9	0	0.0	19.5	0.0	0	0.0	21.5	0.0
LF2VENT-10	0	0.0	21.2	0.2	0	0.0	20.5	0.1	0	0.0	19.5	0.0	0	0.0	21.5	0.0
LF2VENT-11	0	0.0	19.6	0.7	0	0.0	20.2	0.0	0	0.0	20.1	0.0	0	0.0	21.5	0.0
LF2VENT-12	5	0.3	18.8	1.4	0	0.0	20.6	0.0	0	0.0	19.7	0.1	0	0.0	21.5	0.0
LF2VENT-13	5	0.3	20.4	0.3	2	0.1	19.4	0.0	18	0.8	14.2	2.4	3	0.2	21.1	0.0
LF2VENT-14	86	4.3	15.7	1.8	0	0.0	20.5	0.0	12	0.5	15.1	1.7	0	0.0	11.2	4.4

Notes:
> = greater than
% = percent
in. = inches
LEL = Lower Explosive Limit
ppm = parts per million
VOC = volatile organic compound
- - = Not Monitored

Appendix A-2
LF002 (Landfill 2/3 AOC) Landfill Gas Monitoring Results (2010-2023)
Former Griffiss Air Force Base
Rome, New York

	September 2015				December 2016				November 2017				October 2018			
	Barometric Pressure (in.) = 29.33-29.42				Barometric Pressure (in.) = 29.48-29.46				Barometric Pressure (in.) = 29.51 - 29.51				Barometric Pressure (in.) = 29.54-29.55			
Sample Location	LEL (%)	Methane (%)	Oxygen (%)	Carbon Dioxide (%)	LEL (%)	Methane (%)	Oxygen (%)	Carbon Dioxide (%)	LEL (%)	Methane (%)	Oxygen (%)	Carbon Dioxide (%)	Hydrogen Sulfide (ppm)	Methane (%)	Oxygen (%)	Carbon Monoxide (ppm)
LF2GMP-01	0	0.0	20.4	0.1	0	0	20.1	0.1	--	--	--	--	--	--	--	--
LF2GMP-02	> 100	8.4	0.1	20.0	15	0.7	8.1	11.7	0.0	0.0	19.0	3.1	0	<0.1	20.9	0
LF2GMP-03	0	0.0	20.6	0.0	0	0	19.3	0.9	0.0	0.0	21.4	0.0	0	<0.1	20.9	0
LF2GMP-04	0	0.0	20.6	0.0	0	0	20.6	0.3	--	--	--	--	--	--	--	--
LF2GMP-05	> 100	11.4	0.3	10	0	0	13.9	5.5	0.0	0.0	10.3	4.5	0	<0.1	20.9	0
LF2GMP-06	0	0.0	18.8	1.4	0	0	7.5	8.6	0.0	0.0	9.5	4.7	0	<0.1	20.9	0
LF2GMP-07	0	0.0	20.4	00	0	0	19.5	1.2	--	--	--	--	--	--	--	--
LF2GMP-08	0	0.1	20.4	0.3	3	0.1	18.2	1.9	0.0	0.0	21.2	0.0	0	<0.1	20.9	0
LF2GMP-09	0	0.0	20.7	0.0	0	0	20.7	0.3	--	--	--	--	--	--	--	--
LF2VENT-01	0	0.0	20.8	0.0	7	0.3	19.7	0.4	2.0	0.1	19.6	0.6	0	<0.1	20.9	0
LF2VENT-02	0	0.0	20.8	0.0	0	0	20.8	0	0.0	0.0	21.2	0.1	0	<0.1	20.9	0
LF2VENT-03	0	0.0	20.8	0.0	0	0	21	0	--	--	--	--	--	--	--	--
LF2VENT-04	0	0.0	20.8	0.0	28	1.4	19.2	0.6	40.0	1.1	20.3	0.7	0	<0.1	20.9	0
LF2VENT-05	0	0.0	20.7	0.0	5	0.2	20	0.4	60.0	2.7	16.4	2.5	0	<0.1	20.9	0
LF2VENT-06	0	0.0	20.8	0.0	90	4.5	17.2	3.1	> 100	17.6	7.8	12.0	0	<0.1	20.9	0
LF2VENT-07	0	0.0	20.8	0.0	0	0	20.3	0.9	0.0	0.0	21.3	0.1	0	<0.1	20.9	0
LF2VENT-08	0	0.0	20.8	0.0	0	0	20.5	0	0.0	0.0	20.6	0.3	0	<0.1	20.9	0
LF2VENT-09	0	0.0	20.8	0.0	0	0	14	2	--	--	--	--	--	--	--	--
LF2VENT-10	0	0.0	20.8	0.0	0	0	20.4	0.1	--	--	--	--	--	--	--	--
LF2VENT-11	0	0.0	20.8	0.0	0	0	19.7	0.2	--	--	--	--	--	--	--	--
LF2VENT-12	0	0.0	20.8	0.0	0	0	19.9	0.2	0.0	0.0	20.2	0.8	0	<0.1	20.9	0
LF2VENT-13	0	0.0	20.8	0.0	5	0.3	18.9	0.5	0.0	0.0	20.0	0.4	0	<0.1	20.9	0
LF2VENT-14	0	0.0	20.8	0.0	0	0	20.9	0	0.0	0.0	21.3	0.0	0	<0.1	20.9	0

Notes:
> = greater than
% = percent
in. = inches
LEL = Lower Explosive Limit
ppm = parts per million
VOC = volatile organic compound
- - = Not Monitored

Appendix A-2
LF002 (Landfill 2/3 AOC) Landfill Gas Monitoring Results (2010-2023)
Former Griffiss Air Force Base
Rome, New York

	October 2019				September 2020					December 2021				
	Barometric Pressure (in.) = 29.22 - 29.25				Barometric Pressure (in.) = 30.0 - 30.3					Barometric Pressure (in.) = 30.1 - 30.1				
Sample Location	LEL (%)	Methane (%)	Oxygen (%)	Carbon Dioxide (%)	Hydrogen Sulfide (ppm)	Methane (%)	Oxygen (%)	Carbon Monoxide (ppm)	VOC (ppm)	Hydrogen Sulfide (ppm)	Methane (%)	Oxygen (%)	Carbon Monoxide (ppm)	VOC (ppm)
LF2GMP-01	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF2GMP-02	17	0.8	18.7	1.7	0	1.85	15.3	1	0	0	0	20.0	0	0.1
LF2GMP-03	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF2GMP-04	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF2GMP-05	73	3.6	13.6	3.0	0	0	20.6	0	0.1	0	0	19.1	0	0
LF2GMP-06	2	<0.1	21.1	0.0	0	0	20.5	0	0	0	0	20.4	0	0
LF2GMP-07	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF2GMP-08	2	<0.1	20.5	0.8	0	0	20.9	0	0	0	0	20.3	0	0
LF2GMP-09	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF2VENT-01	2	<0.1	20.6	0.0	0	0	19.9	0	0	0	0	20.9	0	0
LF2VENT-02	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF2VENT-03	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF2VENT-04	31	1.5	20.1	0.9	0	0.6	16.1	0	3.8	0	0	20.9	0	0
LF2VENT-05	43	2.2	19.0	1.8	0.5	>5	14.5	2	2.0	0	8.0	20.9	0	0
LF2VENT-06	8	0.4	20.8	0.1	1.0	>5	17.4	0	0.6	0	0	20.9	0	0
LF2VENT-07	2	<0.1	20.8	0.0	0	0	16.7	0	0.1	0	0	20.9	0	0
LF2VENT-08	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF2VENT-09	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF2VENT-10	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF2VENT-11	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF2VENT-12	7	0.3	20.6	0.2	0	>5	15.5	0	0	0	0	20.9	0	0
LF2VENT-13	2	<0.1	20.6	0.0	0	0	18.2	0	0.1	0	0	20.9	0	0.1
LF2VENT-14	2	<0.1	20.8	0.0	0	0	20.2	0	0	0	0	20.9	0	0

Notes:
> = greater than
% = percent
in. = inches
LEL = Lower Explosive Limit
ppm = parts per million
VOC = volatile organic compound
- - = Not Monitored

Appendix A-2
LF002 (Landfill 2/3 AOC) Landfill Gas Monitoring Results (2010-2023)
Former Griffiss Air Force Base
Rome, New York

	October 2022					September 2023				
	Barometric Pressure (in.) = 29.84					Barometric Pressure (in.) = 29.91				
Sample Location	Hydrogen Sulfide (ppm)	Methane (%)	Oxygen (%)	Carbon Monoxide (ppm)	VOC (ppm)	Hydrogen Sulfide (ppm)	Methane (%)	Oxygen (%)	Carbon Monoxide (ppm)	LEL (%)
LF2GMP-01	--	--	--	--	--	--	--	--	--	--
LF2GMP-02	0.0	8	19.9	0	0.0	0	6.3	6.8	0	over
LF2GMP-03	--	--	--	--	--	--	--	--	--	--
LF2GMP-04	--	--	--	--	--	--	--	--	--	--
LF2GMP-05	0.0	0	11.0	0	0.0	--	--	--	--	--
LF2GMP-06	0.0	0	18.7	0	0.0	0	0.0	12.1	0	1
LF2GMP-07	--	--	--	--	--	--	--	--	--	--
LF2GMP-08	0.0	0	20.2	0	0.0	--	--	--	--	--
LF2GMP-09	--	--	--	--	--	--	--	--	--	--
LF2VENT-01	0.0	0	19.2	0	0.0	--	--	--	--	--
LF2VENT-02	--	--	--	--	--	--	--	--	--	--
LF2VENT-03	--	--	--	--	--	--	--	--	--	--
LF2VENT-04	0.0	13	20.1	0	0.1	0	1.8	17.1	0	37
LF2VENT-05	0.0	12	20.9	0	0.1	0	0.2	19.0	0	4
LF2VENT-06	0.0	0	20.9	0	0.0	0	0.5	18.9	0	11
LF2VENT-07	0.0	6	19.9	0	0.0	0	2.5	14.9	0	49
LF2VENT-08	--	--	--	--	--	--	--	--	--	--
LF2VENT-09	--	--	--	--	--	--	--	--	--	--
LF2VENT-10	--	--	--	--	--	--	--	--	--	--
LF2VENT-11	--	--	--	--	--	--	--	--	--	--
LF2VENT-12	0.0	21	17.1	0	0.0	0	0.0	18.6	0	1
LF2VENT-13	0.0	0	20.3	0	0.0	--	--	--	--	--
LF2VENT-14	0.0	0	20.9	0	0.0	--	--	--	--	--

Notes:
> = greater than
% = percent
in. = inches
LEL = Lower Explosive Limit
ppm = parts per million
VOC = volatile organic compound
- - = Not Monitored

Appendix A-3 LF009 (Landfill 6 AOC) Landfill Gas Monitoring Results (2010-2023)

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Appendix A-3
LF009 (Landfill 6 AOC) Landfill Gas Monitoring Results (2010-2023)
Former Griffiss Air Force Base
Rome, New York

	February 2010				May 2010				October 2010				May 2011			
	Barometric Pressure (in.) = NS				Barometric Pressure (in.) = 29.18-29.38				Barometric Pressure (in.) = 29.19-29.20				Barometric Pressure (in.) = 29.14-29.19			
Sample Location	LEL (%)	Methane (%)	Oxygen (%)	Carbon Dioxide (%)	LEL (%)	Methane (%)	Oxygen (%)	Carbon Dioxide (%)	LEL (%)	Methane (%)	Oxygen (%)	Carbon Dioxide (%)	LEL (%)	Methane (%)	Oxygen (%)	Carbon Dioxide (%)
LF6GMP-01	NS	NS	NS	NS	0	0.0	20.6	0.1	0	0.0	19.4	0.5	0	0.0	19.4	0.3
LF6GMP-02	NS	NS	NS	NS	0	0.0	20.9	0.1	0	0.0	11.8	6.6	0	0.0	20.9	0.1
LF6GMP-03	NS	NS	NS	NS	0	0.0	20.9	0.0	0	0.0	15.6	2.7	0	0.0	20.6	0.1
LF6GMP-04	NS	NS	NS	NS	0	0.0	20.9	0.0	0	0.0	19.4	1.0	0	0.0	20.8	0.0
LF6GMP-05	NS	NS	NS	NS	0	0.0	20.9	0.0	0	0.0	20.6	0.2	0	0.0	20.8	0.0
LF6GMP-06	NS	NS	NS	NS	0	0.0	19.7	0.9	0	0.0	20.4	0.4	0	0.0	20.8	0.1
LF6GMP-07	NS	NS	NS	NS	0	0.0	17.6	3.4	0	0.0	16.3	4.6	0	0.0	20.8	0.0
LF6GMP-08	NS	NS	NS	NS	0	0.0	10.2	9.2	0	0.0	5.4	13.8	0	0.0	12.7	5.5
LF6GMP-09	NS	NS	NS	NS	0	0.0	17.4	3.1	0	0.0	14.2	5.9	0	0.0	14.6	5.2
LF6GMP-10	NS	NS	NS	NS	0	0.0	19.8	1.0	0	0.0	19.7	1.0	0	0.0	20.8	0.0
LF6GMP-11	NS	NS	NS	NS	0	0.0	19.9	1.1	0	0.0	18.0	2.7	0	0.0	18.9	2.1
LF6GMP-12	NS	NS	NS	NS	0	0.0	20.3	0.6	0	0.0	18.8	1.9	0	0.0	18.2	2.1
LF6GMP-13	NS	NS	NS	NS	0	0.0	20.2	0.7	0	0.0	18.9	1.5	0	0.0	18.5	2.5
LF6GMP-14	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	NS	NS	NS	NS	0	0.0	19.7	0.7	0	0.0	20.7	0.1	0	0.0	20.3	0.6
LF6VENT-02	NS	NS	NS	NS	0	0.0	20.4	0.1	0	0.0	20.6	0.0	0	0.0	20.7	0.0
LF6VENT-03	NS	NS	NS	NS	0	0.0	20.2	0.5	0	0.0	20.6	0.1	0	0.0	20.7	0.2
LF6VENT-04	NS	NS	NS	NS	0	0.0	18.5	1.6	0	0.0	20.7	0.0	0	0.0	20.8	0.1
LF6VENT-05	NS	NS	NS	NS	0	0.0	20.1	0.8	0	0.0	20.2	0.2	0	0.0	20.9	0.0
LF6VENT-06	NS	NS	NS	NS	0	0.0	20.2	0.4	0	0.0	20.7	0.0	0	0.0	20.8	0.0
LF6VENT-07	NS	NS	NS	NS	0	0.0	19.4	0.8	0	0.0	20.2	0.0	0	0.0	20.4	0.0
LF6VENT-08	NS	NS	NS	NS	0	0.0	19.8	0.6	0	0.0	20.3	0.0	0	0.0	20.4	0.0
LF6VENT-09	NS	NS	NS	NS	0	0.0	19.5	0.7	0	0.0	20.4	0.0	0	0.0	19.9	0.6
LF6VENT-10	NS	NS	NS	NS	0	0.0	19.6	0.9	0	0.0	20.4	0.1	0	0.0	20.5	0.0
LF6VENT-11	NS	NS	NS	NS	0	0.0	19.5	0.9	0	0.0	20.6	0.0	0	0.0	20.7	0.0
LF6VENT-12	NS	NS	NS	NS	0	0.0	20.1	0.7	0	0.0	20.5	0.0	0	0.0	20.3	0.5
LF6VENT-13	NS	NS	NS	NS	0	0.0	17.3	2.0	0	0.0	20.6	0.0	0	0.0	20.4	0.3
LF6VENT-14	NS	NS	NS	NS	0	0.0	19.2	1.4	0	0.0	20.6	0.0	0	0.0	20.5	0.4
LF6VENT-15	NS	NS	NS	NS	0	0.0	18.7	1.5	0	0.0	20.6	0.0	0	0.0	18.3	2.8
LF6VENT-16	NS	NS	NS	NS	0	0.0	15.7	4.1	0	0.0	20.7	0.0	0	0.0	13.4	5.7

Notes:
NI = Not Installed
NS = Not Sampled
- - = Not Monitored
% = percent
in. = inches
LEL = Lower Explosive Limit
ppm = parts per million
VOC = volatile organic compound
- - = Not Monitored

Appendix A-3
LF009 (Landfill 6 AOC) Landfill Gas Monitoring Results (2010-2023)
Former Griffiss Air Force Base
Rome, New York

	October 2011				May 2012				October 2012				May 2013			
	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			
Sample Location	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	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	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	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	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	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	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	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	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	14.1	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	20.5	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	18.5	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	18.4	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	18.3	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
LF6GMP-15S	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
LF6GMP-15D	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
LF6GMP-16S	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
LF6GMP-16D	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
LF6GMP-17S	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
LF6GMP-17D	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
LF6VENT-01	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	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	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	>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	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	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	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	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	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	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	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	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	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	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	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	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:
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% = percent
in. = inches
LEL = Lower Explosive Limit
ppm = parts per million
VOC = volatile organic compound
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Appendix A-3
LF009 (Landfill 6 AOC) Landfill Gas Monitoring Results (2010-2023)
Former Griffiss Air Force Base
Rome, New York

	October 2013				May 2014				November 2014				May 2015			
	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			
Sample Location	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
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
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
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
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
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
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
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
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
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
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
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	l.8
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
LF6GMP-14	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
LF6VENT-02	58	2.9	4.5	0.4	0	0.0	12.3	0.0	0	0.0	19.8	0.2	0	0.0	20.9	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
LF6VENT-04	>100	10.5	4.8	4.5	80	4.0	5.3	3.3	0	0.0	19.9	0.5	0	0.0	20.3	0.5
LF6VENT-05	0	0.0	10.1	6.8	0	0.0	13.9	3.1	0	0.0	20.0	0.5	0	0.0	19.7	1.7
LF6VENT-06	17	0.9	5.2	1.1	0	0.0	12.4	0.7	0	0.0	20.6	0.2	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	0	0.1	20.7	0.9
LF6VENT-08	0	0.0	12.4	6.1	0	0.0	15.8	2.9	0	0.0	20.7	0.3	0	0.1	20.9	0.6
LF6VENT-09	0	0.0	17.2	3.0	0	0.0	18.8	1.3	0	0.0	20.6	0.3	0	0.0	20.9	0.3
LF6VENT-10	0	0.0	9.2	8.5	0	0.0	16.6	2.6	0	0.0	20.5	0.2	0	0.1	20.6	0.7
LF6VENT-11	0	0.0	17.3	3.3	0	0.0	19.1	1.3	0	0.0	20.7	0.2	0	0.1	20.6	0.5
LF6VENT-12	0	0.0	8.4	9.4	0	0.0	15.7	2.7	0	0.0	20.2	0.2	0	0.0	20.5	1.0
LF6VENT-13	0	0.0	13.8	6.7	0	0.0	16.6	3.6	0	0.0	19.8	0.5	0	0.0	18.9	2.3
LF6VENT-14	0	0.0	16.6	3.5	0	0.0	18.8	1.6	0	0.0	19.5	0.2	0	0.1	20.4	1.2
LF6VENT-15	0	0.0	18.6	2.5	0	0.0	15.3	4.2	0	0.0	19.6	0.2	0	0.0	19.0	3.2
LF6VENT-16	0	0.0	12.5	6.6	0	0.0	14.9	4.8	0	0.0	19.4	0.5	0	0.0	18.1	3.7

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Appendix A-3
LF009 (Landfill 6 AOC) Landfill Gas Monitoring Results (2010-2023)
Former Griffiss Air Force Base
Rome, New York

	September 2015				November 2016				November 2017				October 2018			
	Barometric Pressure (in.) = 29.32-29.48				Barometric Pressure (in.) = 29.87-29.75				Barometric Pressure (in.) = 29.49 - 29.49				Barometric Pressure (in.) = 30.03 - 29.96			
Sample Location	LEL (%)	Methane (%)	Oxygen (%)	Carbon Dioxide (%)	LEL (%)	Methane (%)	Oxygen (%)	Carbon Dioxide (%)	LEL (%)	Methane (%)	Oxygen (%)	Carbon Dioxide (%)	Hydrogen Sulfide (ppm)	Methane (%)	Oxygen (%)	Carbon Monoxide (ppm)
LF6GMP-01	0	0.0	18.9	1.5	0	0	20.7	0.2	--	--	--	--	--	--	--	--
LF6GMP-02	0	0.0	20.6	0.1	0	0	13.2	6.4	--	--	--	--	--	--	--	--
LF6GMP-03	0	0.0	20.7	0.0	0	0	20.4	0.5	--	--	--	--	--	--	--	--
LF6GMP-04	0	0.0	20.7	0.0	0	0	16.6	4.9	--	--	--	--	--	--	--	--
LF6GMP-05	0	0.0	20.6	0.0	0	0	18.7	2.6	--	--	--	--	--	--	--	--
LF6GMP-06	0	0.0	20.5	0.1	0	0	18.3	3.3	--	--	--	--	--	--	--	--
LF6GMP-07	0	0.0	20.5	0.1	0	0	20.7	0.3	--	--	--	--	--	--	--	--
LF6GMP-08	0	0.0	20.1	0.8	0	0	8.8	11.1	--	--	--	--	--	--	--	--
LF6GMP-09	0	0.0	20.0	0.9	0	0	20	1.1	--	--	--	--	--	--	--	--
LF6GMP-10	0	0.0	20.3	0.4	0	0	20.3	1.2	--	--	--	--	--	--	--	--
LF6GMP-11	0	0.0	20.7	0.1	0	0	20.1	1.4	--	--	--	--	--	--	--	--
LF6GMP-12	0	0.0	20.7	0.1	0	0	18.6	2.9	--	--	--	--	--	--	--	--
LF6GMP-13	0	0.0	20.4	0.4	0	0	20.2	1	--	--	--	--	--	--	--	--
LF6GMP-14	NI	NI	NI	NI	NI	NI	NI	NI	--	--	--	--	--	--	--	--
LF6GMP-15S	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF6GMP-15D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF6GMP-16S	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF6GMP-16D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF6GMP-17S	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF6GMP-17D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF6VENT-01	1	0.0	20.9	0.0	0	0	16.7	2.4	--	--	--	--	--	--	--	--
LF6VENT-02	0	0.0	20.8	0.0	3	0.1	13.4	0.4	0.0	0.0	18.8	0.4	0	1	7	0
LF6VENT-03	0	0.0	20.7	0.0	0	0	15.1	4.3	0.0	0.0	18.5	2.2	0	0.2	9.5	0
LF6VENT-04	0	0.0	20.8	0.0	3	0.1	12.8	2.6	0.0	0.0	19.1	1.7	0	3.4	8.8	0
LF6VENT-05	1	0.0	20.8	0.0	0	0	17	3.3	--	--	--	--	--	--	--	--
LF6VENT-06	0	0.2	20.8	0.0	0	0	16.3	0.9	0.0	0.0	19.7	0.6	0	<0.1	14.8	0
LF6VENT-07	1	0.0	20.8	0.0	0	0	16.4	4.4	--	--	--	--	--	--	--	--
LF6VENT-08	1	0.0	20.7	0.0	0	0	21	0.1	--	--	--	--	--	--	--	--
LF6VENT-09	1	0.0	19.9	0.7	0	0	17.5	3.3	--	--	--	--	--	--	--	--
LF6VENT-10	1	0.0	12.8	5.9	0	0	11.1	7.5	--	--	--	--	--	--	--	--
LF6VENT-11	1	0.0	18.2	2.2	0	0	17.4	3.7	--	--	--	--	--	--	--	--
LF6VENT-12	0	0.0	12.3	7.4	0	0	14.5	5	--	--	--	--	--	--	--	--
LF6VENT-13	0	0.0	13.7	6.2	0	0	14.4	5.6	--	--	--	--	--	--	--	--
LF6VENT-14	0	0.0	17.4	2.4	0	0	20.8	0.1	--	--	--	--	--	--	--	--
LF6VENT-15	2	0.1	3.8	17.4	0	0	9.2	10.2	--	--	--	--	--	--	--	--
LF6VENT-16	2	0.1	5.7	12.6	0	0	9.7	9.9	--	--	--	--	--	--	--	--

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Appendix A-3
LF009 (Landfill 6 AOC) Landfill Gas Monitoring Results (2010-2023)
Former Griffiss Air Force Base
Rome, New York

	October 2019				September 2020					December 2021					October 2022				
	Barometric Pressure (in.) = 29.38				Barometric Pressure (in.) = 30.0 - 30.3					Barometric Pressure (in.) = 29.7 - 29.8					Barometric Pressure (in.) = 29.89				
Sample Location	LEL (%)	Methane (%)	Oxygen (%)	Carbon Dioxide (%)	Hydrogen Sulfide (ppm)	Methane (%)	Oxygen (%)	Carbon Monoxide (ppm)	VOC (ppm)	Hydrogen Sulfide (ppm)	Methane (%)	Oxygen (%)	Carbon Monoxide (ppm)	VOC (ppm)	Hydrogen Sulfide (ppm)	Methane (%)	Oxygen (%)	Carbon Monoxide (ppm)	VOC (ppm)
LF6GMP-01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF6GMP-02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF6GMP-03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF6GMP-04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF6GMP-05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF6GMP-06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF6GMP-07	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF6GMP-08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF6GMP-09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF6GMP-10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF6GMP-11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF6GMP-12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF6GMP-13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF6GMP-14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF6GMP-15S	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF6GMP-15D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF6GMP-16S	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF6GMP-16D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF6GMP-17S	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF6GMP-17D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF6VENT-01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF6VENT-02	2	<0.1	20.8	0.0	0	2.6	12.5	0	0	0	18.0	8.3	0	0.4	0	0	20.9	0	0
LF6VENT-03	2	<0.1	20.6	0.0	0	0.75	13.1	0	0	0	0	20.9	0	0	down	down	down	down	down
LF6VENT-04	2	<0.1	20.7	0.0	0	4.35	18.4	0	0	0	8.0	11.9	0	0.2	0	0	20.9	0	0
LF6VENT-05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF6VENT-06	2	<0.1	20.7	0.0	0	0	15.8	0	0	0	0	15.9	0	0	0	0	20.9	0	0
LF6VENT-07	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF6VENT-08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF6VENT-09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF6VENT-10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF6VENT-11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF6VENT-12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF6VENT-13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF6VENT-14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF6VENT-15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LF6VENT-16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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Appendix A-3
LF009 (Landfill 6 AOC) Landfill Gas Monitoring Results (2010-2023)
Former Griffiss Air Force Base
Rome, New York

Sample Location	September 2023 Barometric Pressure (in.) = 29.59 Hydrogen Sulfide (ppm)	Methane (%)	Oxygen (%)	Carbon Monoxide (ppm)	LEL (%)
LF6GMP-01	- -	- -	- -	- -	- -
LF6GMP-02	- -	- -	- -	- -	- -
LF6GMP-03	- -	- -	- -	- -	- -
LF6GMP-04	- -	- -	- -	- -	- -
LF6GMP-05	- -	- -	- -	- -	- -
LF6GMP-06	- -	- -	- -	- -	- -
LF6GMP-07	- -	- -	- -	- -	- -
LF6GMP-08	- -	- -	- -	- -	- -
LF6GMP-09	- -	- -	- -	- -	- -
LF6GMP-10	- -	- -	- -	- -	- -
LF6GMP-11	- -	- -	- -	- -	- -
LF6GMP-12	- -	- -	- -	- -	- -
LF6GMP-13	- -	- -	- -	- -	- -
LF6GMP-14	- -	- -	- -	- -	- -
LF6GMP-15S	- -	- -	- -	- -	- -
LF6GMP-15D	- -	- -	- -	- -	- -
LF6GMP-16S	- -	- -	- -	- -	- -
LF6GMP-16D	- -	- -	- -	- -	- -
LF6GMP-17S	- -	- -	- -	- -	- -
LF6GMP-17D	- -	- -	- -	- -	- -
LF6VENT-01	- -	- -	- -	- -	- -
LF6VENT-02	0	0.0	19.5	0	0
LF6VENT-03	0	0.0	19.5	0	0
LF6VENT-04	0	0.0	19.6	0	0
LF6VENT-05	- -	- -	- -	- -	- -
LF6VENT-06	0	0.0	19.6	0	0
LF6VENT-07	- -	- -	- -	- -	- -
LF6VENT-08	- -	- -	- -	- -	- -
LF6VENT-09	- -	- -	- -	- -	- -
LF6VENT-10	- -	- -	- -	- -	- -
LF6VENT-11	- -	- -	- -	- -	- -
LF6VENT-12	- -	- -	- -	- -	- -
LF6VENT-13	- -	- -	- -	- -	- -
LF6VENT-14	- -	- -	- -	- -	- -
LF6VENT-15	- -	- -	- -	- -	- -
LF6VENT-16	- -	- -	- -	- -	- -

Notes:
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- - = Not Monitored
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LEL = Lower Explosive Limit
ppm = parts per million
VOC = volatile organic compound
- - = Not Monitored