

DEPARTMENT OF ENVIRONMENTAL PROTECTION

Marc Elrich
County Executive

Adam Ortiz

Director

December 7, 2021

Andrew Grenzer, Section Head Investigation and Remediation Section Solid Waste Operations Division Land and Materials Administration 1800 Washington Boulevard, Suite 605 Baltimore MD 21230-1719

Re: Oaks Landfill – 4th Quarter 2021 Landfill Gas Monitoring Probe Report

Dear Mr. Grenzer,

The Montgomery County Department of Environmental Protection (DEP), Recycling and Resource Management Division (RRMD) has enclosed the quarterly landfill gas monitoring probe report for the 4th Quarter of 2021.

Recycling and Resource Management Division
16101 Frederick Road • Derwood • Maryland 20850 • 240-777-6560 • 301-840-2385 FAX

If you have any questions, please call me at 240-777-6574 or email me at Jamie.Foster@montgomerycountymd.gov.

Sincerely,

Jamie C. Foster, Senior Engineer

Jamie Foster

Recycling and Resource Management Division

Department of Environmental Protection

Enclosure

Maryland Relay 711

Oaks Landfill

Landfill Gas Monitoring Report

Fourth Quarter 2021 (October 2021 – December 2021)

Prepared By:

APTIM ENVIRONMENTAL AND INFRASTRUCTURE, LLC 16406 U.S. Route 224 East Findlay, Ohio 45840

For the:

Oaks Landfill 6001 Olney-Laytonsville Road Laytonsville, Maryland 20882

Presented To:

Maryland Department of the Environment 1800 Washington Blvd. Suite 605 Baltimore, MD 21230

December 7, 2021

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1 Background

The Montgomery County Department of Environmental Protection (DEP), Division of Solid Waste Services (DSWS) is responsible for the post-closure care and maintenance of the Oaks Landfill. The Landfill property is nearly 545 acres, with a waste disposal footprint of approximately 170 acres. The Landfill operated from 1982-1995 (in receiving mixed municipal solid waste) and 1995-1997 (in receiving ash residue) from the County's Waste-to-Energy Facility (Resource Recovery Facility) and other non-processible (non-burnable) materials. The Landfill was closed in 2001 in accordance with Environmental Protection Agency (EPA) Subtitle D requirements of the Resource Conservation and Recovery Act (RCRA). The Oaks Landfill is located at 6001 Olney-Laytonsville Road, Laytonsville, Maryland 20882.

This Landfill Gas (LFG) Monitoring Report has been prepared in accordance with the Oaks Landfill Closure and Post-Closure Care Plan that was submitted to the Maryland Department of the Environment (MDE) on January 31, 2001 by DEP. In addition, existing field procedures were updated for this monitoring event from the Updated Environmental Monitoring Plan that was submitted to MDE on January 17, 2012 by DEP.

The existing Closure and Post-Closure Care Plan (and future Environmental Monitoring Plan) requires quarterly LFG monitoring of the monitoring wells/probes located along the perimeter property boundary of the Oaks Landfill and within on-site structures. LFG monitoring is performed to assess the potential for subsurface migration of LFG, specifically, for the presence of methane gas beyond the landfill property.

The regulatory standard concerning the collection and monitoring of explosive gases (i.e. methane) at solid waste landfills in Maryland is established in the Code of Maryland Regulations (COMAR) Title 26, Subtitle 4, Chapter 7, Part 03B(9) – COMAR 26.04.07.03B(9) – "A facility may not be designed or operated in such a manner that the concentration of explosive gases generated by the facility exceeds 25 percent of the lower explosive limits for the gases in facility structures, excluding gas control or recovery system components, and the lower explosive limit for the gases at the property boundary." According to this standard, methane concentrations resulting from the presence of LFG in on-site structures at Oaks Landfill cannot exceed 25 percent of the lower explosive limit (LEL) (1.25 percent by volume), and methane concentrations cannot exceed 100 percent of the LEL (5.00 percent by volume) at the Oaks Landfill property boundary.

2 Subsurface Methane Monitoring

The Oaks Landfill currently maintains twenty five (25) permanent landfill gas monitoring wells that are used for compliance with explosive gas requirements in COMAR. The monitoring wells contain single depth probes that are located along the perimeter property boundary of the Landfill. The monitoring wells provide a media through which LFG can be measured from the adjacent waste fill area.

On November 30, 2021, APTIM Staff performed the Fourth Quarter 2021 (October 2021 – December 2021) monitoring event of the LFG monitoring wells along the Oaks Landfill property boundary. APTIM Staff used a GEM 5000 from Landtec to conduct the monitoring activities. The GEM 5000 measures methane (% vol.), carbon dioxide (% vol.), oxygen (% vol.) and gas balance (% vol.). APTIM Staff recorded the peak measurement of methane concentration (taken after 60 seconds of well purging) as well as relative pressure. For LFG monitoring compliance purposes, level measurements for methane, carbon dioxide, oxygen, and balanced gas were recorded (taken after 180 seconds of well purging).

For a summary of the quarterly LFG monitoring data using the level measurements, refer to **Table 1 – Summary of Quarterly Subsurface Methane Monitoring**.

No methane exceedances were found in the LFG monitoring wells during this quarterly monitoring event.

3 Explosive Gas Monitoring Within On-Site Structures

At the Oaks Landfill, seven (7) on-site structures are monitored for the presence of explosive gas as part of the quarterly LFG monitoring event:

- 1. Maintenance Building (hallway, front office, large side office, men's room, women's room, storage room, records storage room, and garage).
- 2. Security Guard Shack.
- 3. Monitoring Well Maintenance Shed.
- 4. Landfill Gas Flare Station.
- 5. Landfill Gas-to-Energy Switchgear Enclosure.
- 6. Landfill Gas-to-Energy Equipment Storage Building.
- 7. Leachate Pretreatment Plant (Control Room, Lab, Restroom, Mechanical Room, and Equipment Area).

On November 30, 2021, APTIM Staff performed the Fourth Quarter 2021 (October 2021 – December 2021) monitoring event of the on-site structures at the Oaks Landfill. Using the GEM 5000 and a Combustible Gas Monitor with sample pump, APTIM conducted methane monitoring inside the on-site structures located at the Oaks Landfill. The GEM 5000 measures methane (% vol.), carbon dioxide (% vol.), oxygen (% vol.), and gas balance (% vol.). The Combustible Gas Monitor measures CH4 (ppm) and O2 (% volume). APTIM Staff walked through the interiors of the structures and monitored the perimeter wall interface, floor to wall interface in hallways and rooms, floor penetrations, and other likely potential gas pathways as well as the exterior perimeter of the structures.

No combustible gas (e.g. methane) was detected in any of the seven (7) on-site structures at the Oaks Landfill during the quarterly monitoring event.

TABLE 1

SUMMARY OF QUARTERLY SUBSURFACE METHANE MONITORING

NAME OF SANITARY LANDFILL: Oaks/ Montgomery County LOCATION: 6001 Olney Laytonsville, MD 2088/ ERST DONE BY: Mikey Bussen DATE: 11/30/2021				EXP	LOSIVE G	AS MON	ITORIN	G PROB	E REPOR	RT.		
AGE SENSING DEVICE: Landtec GEM MODEL NO: 5000 DATE LAST CALIBRATED: 11/30/2021	NAME OF SANI	TARY LANI	DFILL: Oak								nsville Rd Laytonsville, MD 20882	
CALIBRATION GAS: 15% CH ₄ , 15% CO ₂ , 11% O ₂ PRESSURE SENSING DEVICE: Landlec GEM MODEL NO: 5000	TEST DONE BY	: Mikey Bua	sen					DATE: 1	1/30/2021			
MODEL NO: 5000 MODE	GAS SENSING I	DEVICE: L	andtec GEN	1	MODEL NO: 5000							
MBIENT AIR TEMPERATURE: 37°F RELATIVE HUMIDITY: 63% BASERVED WEATHER CONDITIONS: Mosty Cloudy WIND: N 6 mph PRECIPITATION (LAST 24 HRS): 0 in.	CALIBRATION	GAS: 15%	CH ₄ , 15% C	O ₂ , 11% C	02							
PROBE NO. Time LEL (%) CH4 initial (%) CH4 CO2 CH4 CO2 CH4 PROBE NO. Relative (%) CH4 CO2 CH4 PROBE NO. Relative (%) CH4 CO2 CH4 PROBE NO. Relative (%) CMMENTS (NC) COMMENTS (NC)	PRESSURE SE	NSING DE	/ICE: Land	tec GEM				MODEL	NO: 5000			
PROBE NO. Time LEL (%) CH4 initial (%) CH4 CO2 CH4 CO2 CH4 PRECIPITATION (LAST 24 HRS): 0 in.	AMBIENT AIR T	EMPERAT	URE: 37	°F	RELATIVE HUMIDITY: 63%			AMBIENT BAROMETRIC PRESSURE: 30.04 in. Hg				
PROBE NO. Time LEL (%) CH4 Sustain (%) CH4 CO2 O2 Bal Pressure ("WC)	DBSERVED WE	ATHER CO	ONDITIONS	: Mostly C	Cloudy	WIND:	N 6 mph					
OAKSMW02 10:00 0 0 0 2.8 17.9 79.3 -0.02 OAKSMW33 10:14 0 0 0 0 3.6 19.6 76.8 -0.08 OAKSMW34 10:19 0 0 0 0 3 19.9 77.1 -0.04 OAKSMW05 10:30 0 0 0 0 2.2 20.8 77 -0.03 OAKSMW06 10:48 0 0 0 0 2.1 20.6 77.3 -0.07 OAKSMW07 10:52 0 0 0 0 0.3 22.1 77.6 -0.07 OAKSMW88 10:45 0 0 0 0 0.3 22.1 77.6 -0.07 OAKSMW8B 10:57 0 0 0 0 3.7 18.5 77.8 -0.05 OAKSMW10 11:02 0 0 0 0 2.9 20.1 77 -0	PROBE NO.	Time	LEL (%)		1-1000000000000000000000000000000000000	CH4	CO2	02	Bal	Pressure	COMMENTS	
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