

**Oaks Landfill**

**Landfill Gas Monitoring Report**

**Third Quarter 2022**  
**(July 2022 – September 2022)**

Prepared By:

**SCS Field Services**  
**11260 Roger Bacon Drive, Ste. 300**  
**Reston, VA 20190**

For:

**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 14, 2022



DEPARTMENT OF ENVIRONMENTAL PROTECTION

Marc Elrich  
*County Executive*

Adriana Hochberg  
*Acting Director*

December 14, 2022

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 – 3<sup>rd</sup> Quarter 2022 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 3<sup>rd</sup> Quarter of 2022.

If you have any questions, please call me at 240-777-6574 or email me at [Jamie.Foster@montgomerycountymd.gov](mailto:Jamie.Foster@montgomerycountymd.gov).

Sincerely,

A handwritten signature in cursive script that reads "Jamie Foster".

Jamie C. Foster, Senior Engineer  
Recycling and Resource Management Division  
Department of Environmental Protection

Enclosure

December 12, 2022  
Job No. 07222103.00

**Sent Via Email on 12/13/2022**

Ms. Kitty McIlroy  
Project Manager  
Northeast Maryland Waste Disposal Authority  
100 S. Charles St, Tower II – Suite 402  
Baltimore, MD 21201

Subject: Third Quarter 2022 Landfill Gas (LFG) Probe Monitoring Data for the Oaks Landfill,  
Montgomery County, Maryland.

Dear Ms. McIlroy:

SCS Field Services (SCS-FS) presents this report to the Northeast Maryland Waste Disposal Authority for the Third quarter 2022 landfill gas (LFG) monitoring event at the subject landfill. The third quarter monitoring was conducted on September 14<sup>th</sup>, during the third quarter of 2022, as part of our LFG compliance services at the landfill. A Landtec GEM 5000 infrared gas analyzer was used to monitor the compliance monitoring probes. Each probe was monitored for the following parameters:

- Methane
- Carbon Dioxide
- Oxygen
- Balance Gas (typically nitrogen in LFG)
- Static Pressure

There was only a slight detection of methane at MW-16 (0.1%). There was no detection of methane at any of the tested probes. The testing results are presented in Table 1 (attached).

SCS-FS appreciates the opportunity to provide our services. Please contact either of the undersigned should you require further information or assistance.

Sincerely,



William Jacks, Jr.  
OM&M Superintendent  
SCS Field Services



Mike Gibbons  
Project Manager  
SCS Field Services

cc: Jamie Foster, Montgomery County

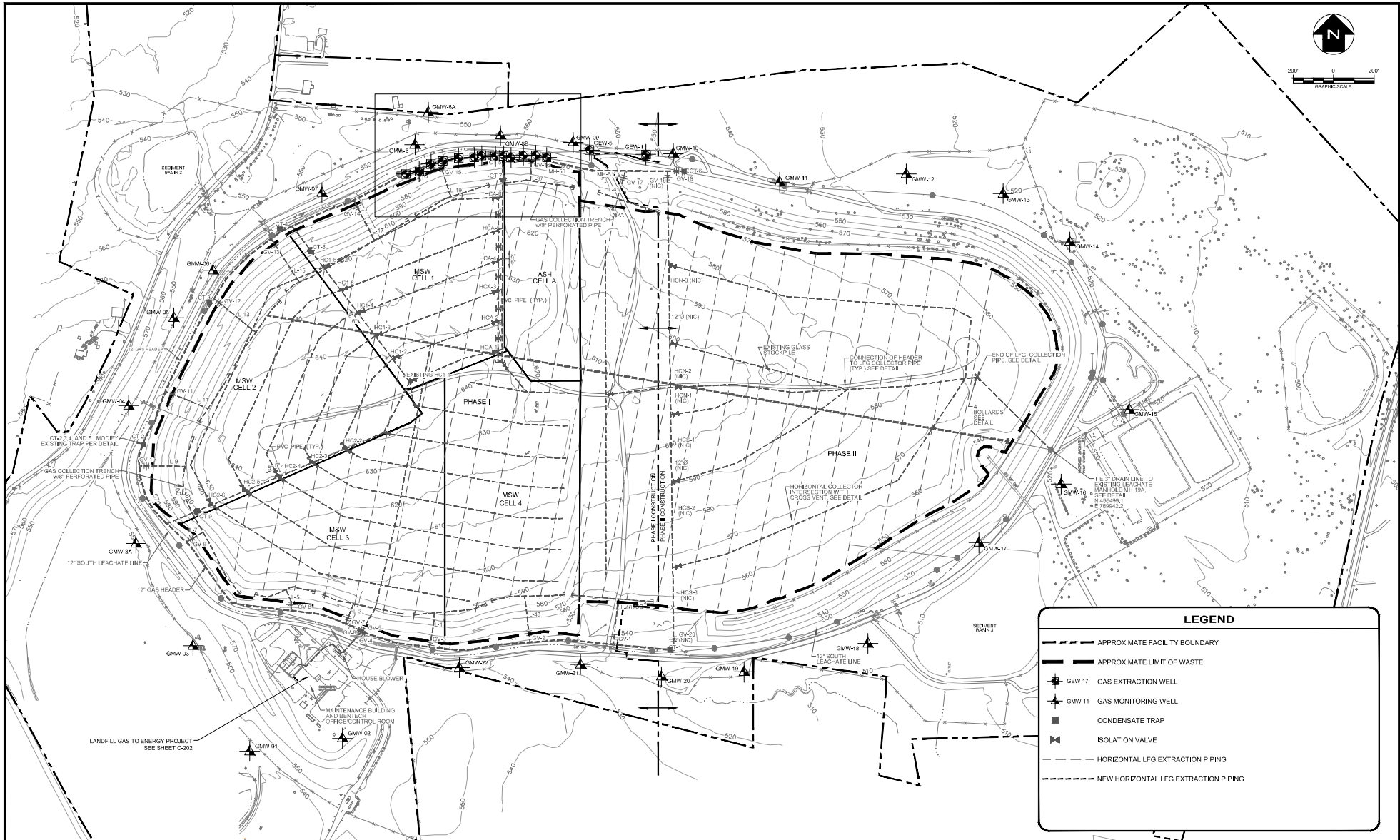
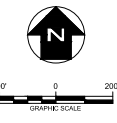
Table 1. Oaks Landfill - Monitoring Probes Data - 3rd Quarter

Point Name	Record Date	CH4 (% by vol)	CO2 (% by vol)	O2 (% by vol)	Bal Gas (% by vol)	Rel Press (%H2O)	Comments
MW-01	9/14/2022 09:44	0.0	4.0	16.4	79.6	2.4	
MW-02	9/14/2022 09:23	0.0	5.5	14.6	79.9	0.1	
MW-03	9/14/2022 09:50	0.0	4.9	13.1	82.0	-3.8	
MW-04	9/14/2022 10:35	0.0	1.6	18.6	79.8	-0.1	
MW-05	9/14/2022 10:38	0.0	1.6	19.3	79.1	-0.1	
MW-06	9/14/2022 10:15	0.0	2.7	18.2	79.1	0.0	
MW-07	9/14/2022 10:20	0.0	0.6	19.7	79.7	-0.1	
MW-08	9/14/2022 10:24	0.0	0.5	19.4	80.1	-0.2	
MW-09	9/14/2022 11:00	0.0	2.9	17.4	79.7	-0.2	
MW-10	9/14/2022 11:05	0.0	3.5	16.2	80.3	2.0	
MW-11	9/14/2022 11:11	0.0	4.1	16.6	79.3	-0.3	
MW-12	9/14/2022 11:13	0.0	6.3	13.4	80.3	0.1	
MW-13	9/14/2022 11:16	0.0	5.2	15.4	79.4	-0.2	
MW-14	9/14/2022 11:22	0.0	3.8	17.1	79.1	-0.1	
MW-15	9/14/2022 13:00	0.0	5.3	19.0	75.7	0.0	
MW-16	9/21/2022 10:36	0.1	0.7	18.3	80.9	-0.1	
MW-17	9/14/2022 13:23	0.0	3.6	14.8	81.6	-8.8	
MW-18	9/14/2022 13:29	0.0	10.1	11.6	78.3	-0.4	
MW-19	9/14/2022 13:34	0.0	2.3	17.5	80.2	2.0	
MW-20	9/14/2022 13:40	0.0	0.9	19.7	79.4	6.4	
MW-21	9/14/2022 13:45	0.0	7.6	7.4	85.0	4.5	
MW-22	9/14/2022 13:48	0.0	6.0	15.3	78.7	-0.2	
MW-03A	9/14/2022 09:54	0.0	3.5	17.4	79.1	-0.1	
MW-08A	9/14/2022 10:44	0.0	5.8	14.6	79.6	-0.7	
MW-08B	9/14/2022 10:55	0.0	5.2	16.0	78.8	-0.2	
<b>Calibration</b>							
Point Name	Record Date	CH4 (% by vol)	CO2 (% by vol)	O2 (% by vol)	Bal Gas (% by vol)		
Calibration	9/14/2022 08:57	0.0	0.1	20.9	79.0		
Calibration	9/14/2022 08:59	49.9	35.0	0.0	15.1		
Calibration	9/14/2022 09:02	15.0	15.0	0.0	70.0		



Table 1. Oaks Landfill - Monitoring Probes Data - 3rd Quarter

Point Name	Record Date	CH4 (% by vol)	CO2 (% by vol)	O2 (% by vol)	Bal Gas (% by vol)	Rel Press ("H2O)	Comments
Calibration	9/14/2022 09:03	0	1	11	88		
Calibration	9/14/2022 13:58	0	0	11	89		
Calibration	9/14/2022 14:00	15	15	0	70		
<b>Technician/Weather</b>							
Field Technician	Record Date	Barometric Pressure	Ambient Temp	Wind Speed	Wind Direction	General Weather	
JG (JOHN GUICE)	9/14/2022	29.4	80	5	SE	Light wind	



**LEGEND**

- APPROXIMATE FACILITY BOUNDARY
- APPROXIMATE LIMIT OF WASTE
- GEW-17 GAS EXTRACTION WELL
- GMW-11 GAS MONITORING WELL
- CONDENSATE TRAP
- ISOLATION VALVE
- HORIZONTAL LFG EXTRACTION PIPING
- NEW HORIZONTAL LFG EXTRACTION PIPING

REV. NO.	DATE	DESCRIPTION

FINAL

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<b>OAKS LANDFILL</b> MONTGOMERY COUNTY, MARYLAND		PROJECT NO.: 154749	DATE: JUNE 2018
<b>COMPREHENSIVE LANDFILL GAS MANAGEMENT PLANS</b> LANDFILL GAS SYSTEM LAYOUT (FULL)		DESIGNED BY: KMR	DRAWING NUMBER:
		DRAWN BY: ECK	C2
		CHECKED BY: JAM	SHEET 2 OF 7
		APPROVED BY: KMR	

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