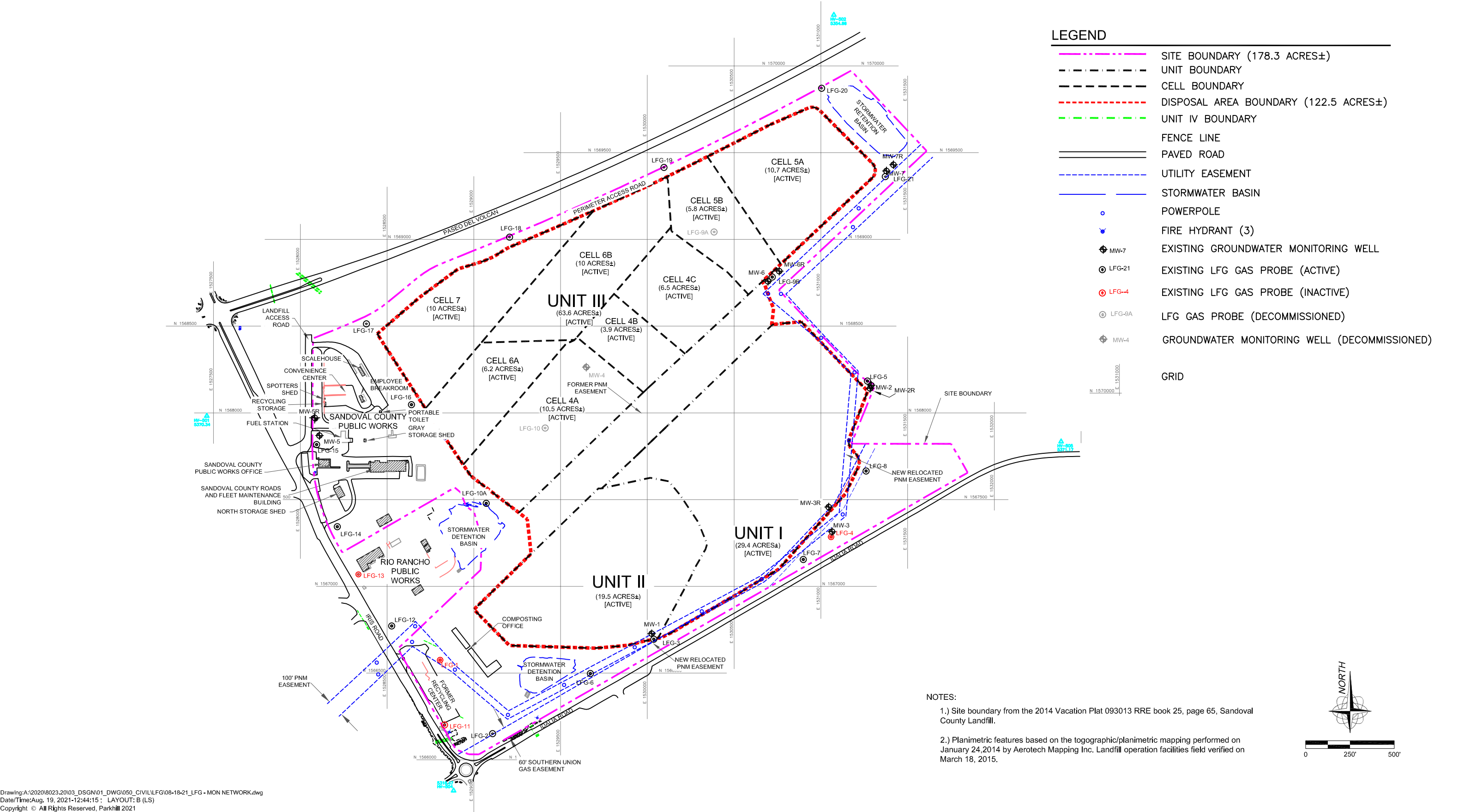


TO:	Chris Perea, Sandoval County Landfill
cc:	George Schuman, Permit Section Manager, NMED Solid Waste Bureau
FROM:	Andrew Yuhas; Parkhill Richard Salas; Parkhill
DATE:	August 19, 2021
SUBJECT:	Sandoval County Landfill: August 2021 Landfill Gas Monitoring Event [01802320]

On August 18, 2021, Parkhill performed quarterly landfill gas (LFG) monitoring at the Sandoval County Landfill (SCLF). Landfill gas measurements were recorded at the seventeen (17) active perimeter gas monitoring probes and ten (10) on-site structures shown on **Attachment A**. Monitoring results for this event are provided as **Attachment B**, and a copy of the field notes is included as **Attachment C**.

Monitoring was performed using a CES Landtec™ GEM-5000® portable gas analyzer to measure methane (CH₄), oxygen (O₂), carbon dioxide (CO₂), and balance gas (typically nitrogen) in and around facility structures and in the perimeter probes. The GEM-5000® records gas measurements in terms of percent by volume in air; and was calibrated in the field prior to monitoring with 50% CH₄, 35% CO₂, and 4% O₂ calibration gases. Methane was not detected above the regulatory threshold of 25% of the lower explosive limit (LEL) for methane (1.25% by volume in air) at any of the monitoring locations or in any of the dedicated methane monitoring probes. The detected values for carbon dioxide and oxygen are generally consistent with the results of previous monitoring events. The trailer, previously located east of the Sandoval County Roads and Fleet Maintenance Building, is no longer located on-site, and has been removed from the site's LFG monitoring network.

Landfill gas monitoring at the perimeter probes is accomplished by connecting the GEM-5000® to the quick-connect port atop the probe with flexible Teflon tubing. Monitoring within structures is performed by connecting a 3-foot-long fiberglass extension rod to the tubing. For each type of monitoring, the pump on the GEM-2000® was turned on and the instrument was allowed to operate for a minimum of 90 seconds before stabilized instrument readings were recorded.



Drawing: A:\2020\8023.20\03_DSGN\01_DWG\050_CIVIL\LFG\08-18-21_LFG - MON NETWORK.dwg
Date/Time: Aug. 19, 2021-12:44:15; LAYOUT: B (LS)
Copyright © All Rights Reserved, Parkhill 2021

Parkhill

AUGUST 2021 LANDFILL GAS MONITORING EVENT

LANDFILL GAS MONITORING POINTS

Parkhill.com

SANDOVAL COUNTY LANDFILL
RIO RANCHO, NEW MEXICO

Date:08/18/21

Project No:8023.20

Sheet:ATTACHMENT A

Attachment B - Landfill Gas Monitoring Field Log

Monitoring Personnel: Andy Yuhas / Richard Salas

Methane Monitoring Type: Dedicated Probe

Probe Depth: 30'

Monitoring Date: 8/18/2021

Weather Information

Date and amount of last precipitation 8/12/2021 0.04 in

Temp: 75 °F

Wind Speed: 10 mph

Wind Direction: SSW (observed at site)

Barometric Pressure: 29.82 inches mercury (Hg)

Weather Conditions: Clear, warm, breezy

Equipment Information

Monitoring Equipment Used: CES-LandTec™ GEM 5000

Date and Time Last Calibrated: 08/18/2021 1023

Permanent Landfill Gas Monitoring Probes

Monitoring Probe ID	Time of Measurement	CH ₄ (% in air)	CO ₂ (% in air)	O ₂ (% in air)	Balance Gas (% in air)
LFG-2	1103	0	0.3	19.8	79.9
LFG-3	1052	0	0.2	20.0	79.8
LFG-5	1036	0	3.3	17.1	79.6
LFG-6	1230	0	0.4	20.4	79.2
LFG-7	1405	0	0.6	20.4	79.0
LFG-8	1355	0	0.5	20.7	78.6
LFG-9B	1146	0	0	19.3	80.1
LFG-10A	1132	0	0	19.4	80.3
LFG-12	1125	0	0.2	19.9	79.9
LFG-14	1238	0	0.1	20.9	79.0
LFG-15	1244	0	0.1	20.8	79.1
LFG-16	1223	0	0	20.6	79.2
LFG-17	1216	0	0	20.4	79.3
LFG-18	1211	0	0	20.6	79.4
LFG-19	1205	0	1	19.3	80.0
LFG-20	1200	0	0.1	20.5	79.4
LFG-21	1153	0	0.2	20.2	79.6

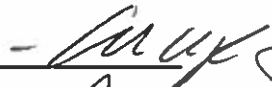

Landfill Structures

Scalehouse (ticket office)	1250	0	0	21.2	78.8
Scalehouse (supervisor's office)	1252	0	0	21.3	78.7
Employee Breakroom	1305	0	0	21.6	78.4
Spotter's Shed	1302	0	0	21.4	78.6
Recycling Storage	1300	0	0	21.4	78.6
Portable Toilet	1309	0	0	21.6	78.4
Gray Storage Shed	1335	0	0	21.4	78.6
Composting Office	1341	0	0	21.5	78.5
Public Works Dept. Admin	1326	0	0	21.6	78.4
Roads & Fleet Maintenance Bldg	1318	0	0	21.6	78.4
North Storage Shed	1323	0	0	21.5	78.5

Ambient Readings

Office	1440	0.1	0.0	21.3	78.6
Near LFG 5	1034	0	0	20.3	79.7

Signature(s):

Andy Yuhas - 
Richard Salas - 

Attachment B - Landfill Gas Monitoring Field Log

Monitoring Personnel: Andy Yuhars / Richard Salas
Methane Monitoring Type: Dedicated Probe
Probe Depth: 30'
Monitoring Date: 8/18/2021

Weather Information

Date and amount of last precipitation 8/12/2021 0.04 in
Temp: 75 °F
Wind Speed: 10 mph
Wind Direction: SSW (observed at site)
Barometric Pressure: 29.82 inches mercury (Hg)
Weather Conditions: Clear, warm, breezy

Note:
All locks replaced
All keys alike

Equipment Information

Monitoring Equipment Used: CES-LandTec™ GEM 5000

Date and Time Last Calibrated: 8/18/2021 1023

Permanent Landfill Gas Monitoring Probes

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Signature(s):

Andy Yuhars - [Signature]
Richard Salas [Signature]