



January 12, 2026

Kansas Department of Health and Environment  
Bureau of Waste Management  
1000 SW Jackson Street, Suite 400  
Topeka, KS 66612-1367  
Attention: Heather Merritt

**RE: Ambient Air Monitoring Activities – 12/22/2025**  
City of Galena Construction and Demolition Landfill  
KDHE Permit No. 738  
Galena, Cherokee County, Kansas

Dear Ms. Merritt,

Air monitoring was conducted on December 22, 2025, according to the Ambient Air Monitoring Protocol dated October 6, 2025, and approved by KDHE on October 29, 2025. The protocol, following Kansas Administrative Regulations (K.A.R.) 28-29-333(b)(1), included the use of a Jerome 631-X to monitor hydrogen sulfide (H<sub>2</sub>S) in parts per billion (ppb) and a Landtec GEM5000 to monitor methane (CH<sub>4</sub>) concentrations as a percent of the lower explosive limit (LEL). These two instruments were calibrated prior to use, and a prevailing south wind determined the monitoring locations. A Kestrel 4000 was used on site as a handheld weather meter to determine wind speed, temperature, humidity, dew point, and barometric pressure. A handheld Garmin GPS device was utilized to document the location of each sampling event along the landfill property boundary.

One location was monitored on the upwind (south) side of the landfill boundary as a background location, and a total of four additional locations were monitored along the north side of the property from the northeast to the northwest. The H<sub>2</sub>S readings were taken every minute for 15 minutes, and the Time Weighted Average (TWA) was documented as the average of the 15 readings from each location. The south (upwind) and northeast locations registered no H<sub>2</sub>S readings during the sampling; however, the three additional samples north of the landfill working area exhibited individual readings ranging from 0.00 to 0.02 ppm, with the center location (Sample ID 25122204) exhibiting a 15-minute TWA of 0.005 ppm.

The 25122204 location exhibited a 0.1% concentration of the lower explosive limit of methane, whereas all other sampling locations did not register any methane concentrations. A site map is included as an attachment to this letter in addition to Table 1, exhibiting the air monitoring data and Table 2 exhibiting the location and weather conditions of each sampling location.

TriCore appreciates your time and consideration on this matter. If you have questions, comments, or need additional information, please do not hesitate to contact the undersigned.

Sincerely,

TriCore Group, LLC

Greg A. Vance

Joe Paul Edwards, P.E.

Attachments: Table 1: Ambient Air Monitoring Data  
Table 2: Ambient Air Monitoring Location, Weather, and Observations  
Figure 1: Air Monitoring Locations

Cc: Ashley Groves – City of Galena  
Michelle Murphy – Jordan Disposal  
Mads Gisselbaek – Jordan Disposal

**C&D Landfill (No. 738) Ambient Air Monitoring Data**

**Table 1: Ambient Air Monitoring Data**

Sample ID	Date	Time	Individual H <sub>2</sub> S Readings															H <sub>2</sub> S TWA	CH <sub>4</sub>
			01	02	03	04	05	06	07	08	09	10	11	12	13	14	15		
25122201	12/22/25	1029-1043	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.000	0.0
25122202	12/22/25	1054-1055	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.000	0.0
25122203	12/22/25	1117-1131	0.001	0	0	0	0	0	0	0.001	0	0	0	0	0	0	0.001	0.000	0.0
25122204	12/22/25	1138-1152	0.001	0.002	0.004	0.002	0.005	0.001	0.005	0.010	0.002	0.005	0	0.009	0.012	0.015	0.002	0.005	0.1
25122205	12/22/25	1159-1213	0	0	0	0	0.012	0	0	0.010	0.020	0.001	0	0	0.002	0	0.001	0.003	0.0
25122206	12/22/25	1331	0															n/a	0.0

\* The H<sub>2</sub>S (hydrogen sulfide) results are reported in parts per million (ppm), and the TWA (Time Weighted Average) results are rounded to the nearest 0.001 ppm.

\*\*The CH<sub>4</sub> (methane) results are reported as a percentage of the lower explosive limit (LEL).

\*\*\*Reported H<sub>2</sub>S readings below 0.003 ppm (3 ppb) are considered lower than accurate detection limit of the monitoring instrument.

**Table 2: Ambient Air Monitoring Location, Weather, and Observations**

Sample ID	Date	Time	Latitude	Longitude	Wind Direction	Wind Speed (mph)	Temp. (F)	Humidity (%)	Dew Point	Barometric Pressure	Odor Observations
25122201	12/22/25	1029-1043	37.078775	-94.632020	S	9	56.6	56.9	41.3	29.14	No noticeable odor
25122202	12/22/25	1054-1055	37.082171	-94.628726	S	13	57.8	59.0	44.1	29.14	No noticeable odor
25122203	12/22/25	1117-1131	37.082138	-94.630545	S	9	60.0	57.8	44.8	29.16	Intermittent slight exhaust odor
25122204	12/22/25	1138-1152	37.081984	-94.632828	S	9	60.8	59.2	46.5	29.13	Persistent decomposing waste odor, potential slight sulfur
25122205	12/22/25	1159-1213	37.082071	-94.634467	S	14	60.7	57.7	45.8	29.12	Intermittent decomposing waste odor, potential slight sulfur
25122206	12/22/25	1331	Scalehouse		n/a	n/a	n/a	n/a	n/a	n/a	No noticeable odor

\*Each weather reading is reported as: Wind Speed = miles per hour, Temperature & Dew Point = degrees Fahrenheit, Humidity = percentage, and Barometric Pressure = inches of mercury



FIGURE 1  
 AMBIENT AIR MONITORING  
 JORDAN DISPOSAL LANDFILL  
 AIR MONITORING LOCATIONS 12.22.25



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Drafted by SCM  
 Date: 12/23/25  
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