Weaver Consultants Group

July 18, 2025
Project No. 9943-007-52-00

Ms. Susan Speake
Office of Land Resources
Solid Waste Management
Arkansas Department of Environmental Quality
5301 Northshore Drive
North Little Rock, AR 72118-5317

Re: 2025 Landfill Gas Collection System Expansion
Craighead County SWDA, Permit No. 0254-S1-R4; AFIN: 16-00199
Craighead County, Arkansas

Dear Ms. Speake:

The purpose of this letter submitted on behalf of Craighead County Solid Waste Disposal Authority - the owner of Legacy Landfill is to notify Arkansas Department of Environmental Quality (ADEQ) of the proposed expansion of the existing landfill gas (LFG) collection system at the Legacy Landfill (site).

The primary purpose of the voluntarily GCCS expansion is to increase the collection of LFG from the landfill for control of emissions and in preparation of a new renewable natural gas (RNG) facility installation and will include the following components;

System Description

The proposed GCCS expansion will include the installation of LFG extraction wells, horizontal LFG collectors with chimney wells, LFG collection piping, isolation valves, and associated LFG system components as shown on attached Drawing 1.

The proposed LFG system components will be installed in phases as needed at the general locations shown on Drawing 1. The new LFG extraction wells will be installed in vertical borings drilled within the waste. Each LFG extraction well will be fitted with a wellhead valve assembly. The valve assembly will allow the system operator to individually regulate the amount of vacuum and the LFG extraction rate at each extraction point during GCCS operation. In addition, the wellhead valve assembly will include gas monitoring ports for measuring gas composition, pressure, flow rate, and temperature. The wellheads will be connected by new lateral piping which will convey the flow of gas into the new/existing header pipe and then to the existing blower/flare facility.

The excavated waste during the drilling and piping activities will be sent to the site active disposal area. As the new wells are drilled and completed, they will be

connected to the lateral piping. Caps will be installed on the new wells until wellheads are installed and connections are made to the lateral piping. To assist in extracting LFG from the landfill, connections will also be made to the leachate clean out risers (LCR) as necessary to help prevent potential odors at the site.

System Operations

Once the GCCS expansion has been installed, the system will be activated and the well field initially balanced. The new extraction components will be gradually brought online and balanced to a steady-state condition. It is expected that achieving a steady-state condition could take up to several months. During this time, the new extraction components will be routinely monitored and adjusted to minimize air intrusion into the landfill. GCCS operations personnel will also routinely inspect the overall system to note any operating issues with the new GCCS components.

Schedule

It is anticipated that the installation of the proposed system components will commence immediately and will be completed by the end of 2nd quarter of 2026 and may be installed in phases as needed.

One original and one copy of this submittal are provided for your use and distribution. In addition, a copy of this submittal was also placed in the site operating record.

If you have any questions or comments regarding this submittal, please do not hesitate to contact us.

Sincerely,
Weaver Consultants Group, LLC

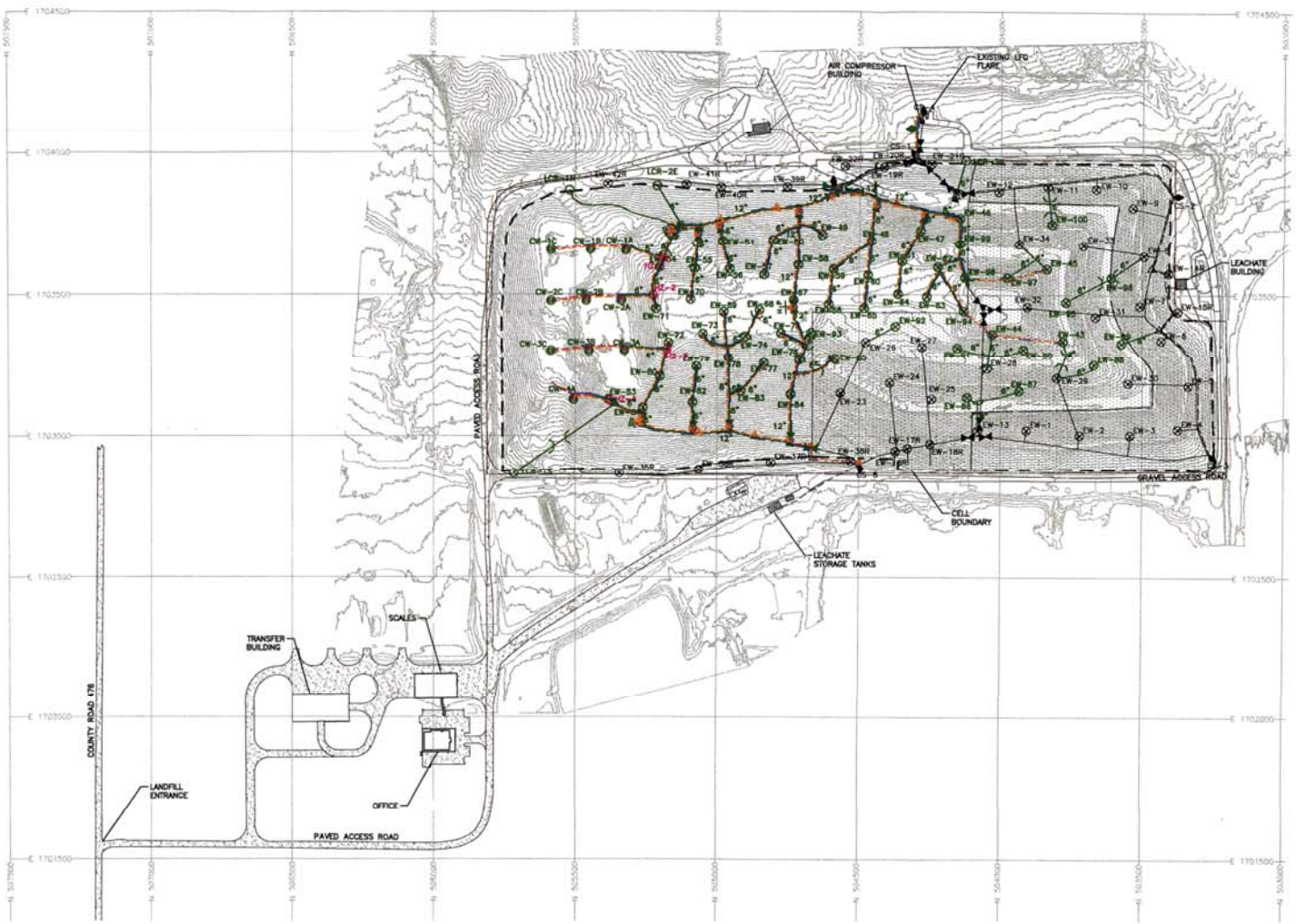
Colin G. McInnes, P.E.
Principal

Attachment: 2025 LFG System Expansion Site Plan

cc: Ron Allen, ADEQ Air Division
Angela Sparks, Chief Executive Officer (e-copy only)
Robert D Hendrix, Craighead County SWDA (e-copy only)
Kyle Walker, VBM Legacy, LLC (e-copy only)

ATTACHMENT

2025 LFG SYSTEM EXPANSION
SITE PLAN



0 200 400
SCALE IN FEET

LEGEND

- LIMITS OF WASTE
- EXISTING CONTOUR
- 503000 N STATE PLANE COORDINATE
- FINAL COVER LIMITS
- EXISTING AIR SUPPLY LINE
- EXISTING CONDENSATE FORCEMAIN
- EXISTING LFG COLLECTION PIPING
- EW-10 EXISTING LFG EXTRACTION WELL
- EW-14R EXISTING LCR CONNECTION
- CS-1 EXISTING CONDENSATE SUMP
- EXISTING LFG ISOLATION VALVE
- EXISTING REMOTE WELLHEAD
- EW-80 PROPOSED LFG EXTRACTION WELL
- HZ-1 EW-16 PROPOSED HORIZONTAL LFG COLLECTOR WITH CHIMNEY WELLS
- LCR-1N PROPOSED LCR CONNECTION
- PROPOSED LFG COLLECTION PIPING
- PROPOSED CONDENSATE FORCEMAIN
- PROPOSED AIR SUPPLY LINE
- PROPOSED CONDENSATE SUMP
- PROPOSED LFG ISOLATION VALVE
- PROPOSED REMOTE WELLHEAD
- PROPOSED HEADER ACCESS RISER
- PROPOSED BLIND FLANGE
- PROPOSED HDPE CAP
- PROPOSED ROAD CROSSING
- PROPOSED AIR/FORCEMAIN VALVE
- PROPOSED FORCEMAIN CLEANOUT RISER
- PROPOSED AIR RELEASE VALVE

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 19714
COLLIN C. MCINNES
7/16/2025

CERTIFICATE OF AUTHORIZATION
WEAVER CONSULTANTS GROUP LLC
No. 1871
ARKANSAS

NOTES:

1. THE EXISTING CONTOURS AND ELEVATIONS PROVIDED BY FIRMATEK FROM SITE SCAN COMPLETED ON 4/28/25.
2. LOCATIONS SHOWN FOR THE PROPOSED LFG EXTRACTION WELLS, HORIZONTAL LFG COLLECTORS, COLLECTION PIPING, SUMP, VALVES, AND ASSOCIATED LFG SYSTEM COMPONENTS ARE APPROXIMATE. ACTUAL NUMBERS, LOCATIONS, AND PIPING SIZE/CONFIGURATION TO BE DETERMINED BASED ON THE FIELD CONDITIONS AT THE TIME OF CONSTRUCTION.

☐ DRAFT
☒ FOR INFORMATINAL PURPOSES ONLY
☐ ISSUED FOR CONSTRUCTION

DATE: 07/2025
FILE: 8943-007-52
CAD: SITE PLAN.DWG
DRAWN BY: IOS
DESIGN BY: LKS
REVIEWED BY: CCM

Weaver Consultants Group
CERTIFICATE OF AUTHORIZATION NO. 1871

PREPARED FOR
VBM LEGACY, LLC

REVISIONS		
NO.	DATE	DESCRIPTION

2025 LFG SYSTEM EXPANSION SITE PLAN

LEGACY LANDFILL
CRAIGHEAD COUNTY, ARKANSAS

WWW.WCGRP.COM

DRAWING 1

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