TECHNICAL MEMORANDUM



DATE: October 15, 2025

TO: Emily Brickman, P.G., Senior Project Manager – Geologist, EnSafe

FROM: Caleb Gourley, Senior Staff Scientist, Harbor

RE: Bi-weekly Site Inspection

NABORS Landfill Mountain Home, AR

Harbor Project No: L8247885

Harbor visited the NABORS landfill in Mountain Home, Arkansas on October 9, 2025, to conduct the bi-weekly site inspection to assess the general condition of the landfill and the leachate collection system (LCS). The LCS was last fully repaired by Advanced Fluid Technologies (AFT) in October and November of 2022; however, within a few weeks of these repairs, the LCS began malfunctioning. By March 2023, most of the LCS points were malfunctioning. A quote was then requested and received from AFT to again repair the system. No authorization for the subsequent repairs was provided prior to the expiration of Harbor's contract with DEQ in June 2023.

Landmarc Environmental (Landmarc), a company specializing in LCS installation and service, conducted a full assessment of the LCS on December 3-4, 2024. A report summarizing these activities was submitted on January 20, 2025. Harbor discontinued site visits in February 2025 until DEQ approved a new budget for activities occurring at NABORS. The budget was approved on April 3, 2025, and site visits will continue until 2026.

EnSafe submitted a Scope of Services and Fee Estimate (Revision 1) to the Arkansas Department of Energy and Environment Division of Environmental Quality (DEQ) Office of Land Resources on February 28, 2025, which included proposals from Harbor and Landmarc to complete repairs to the LCS. On July 10, 2025, the DEQ approved EnSafe's Scope of Services and Fee Estimate for LCS repairs, which were conducted on September 2-5, 2025. The LCS system was partially repaired, which included installation of 30-amp power disconnects and new PD6000 controllers. Harbor received a report from Landmarc on October 13, 2025, and it will be sent as a separate document.

Findings and observations from the current landfill inspection are summarized below:

- Vertical leachate collection sump (VLCS)-1 was recently pumped out by 417 services to prevent an overflow event. As such, minimal leachate was observed in the sump.
- VLCS-2 appeared to be functioning correctly and was observed at ½ capacity.
- The leachate tank battery level was 113.5".
- Minimal stormwater was observed in the tank containment. As such, none was released while Harbor was on-site (see photograph 1).

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- LCS-1 was not functioning. The display was not illuminated, nor did the sump activate in "hand" or "auto". The station was reset using the power disconnect; however, the problem persisted.
- LCS-2 displayed a leachate level of 23.9". The station appeared to be operating in both "hand" and "auto" modes.
- LCS-3 displayed a leachate level of 3.2". The station appeared to be operating in both "hand" and "auto" modes.
- LCS-4 displayed a leachate level of 18.7". The station appeared to be operating in both "hand" and "auto" modes.
- LCS-5 displayed a leachate level of 468.7". The VFD displayed an "Error 1" message, indicating a problem within the VFD itself. Landmarc stated that the sump pump is more than likely faulty, causing voltage issues within the VFD. The station is not functioning correctly and will need additional repairs.
- LCS-6 displayed a leachate level of 430.2". The station does not appear to be functioning correctly.
- LCS-7, LCS-8, and LCS-9 remain non-operational. Landmarc will need to make a return trip to complete repairs.
- An erosional washout is present along the road between LCS-4 and LCS-5.
- A damaged pressure relief vent (PRV) was observed on the west side of Area 1-2, between LCS-1 and LCS-2 (see photograph 2). The damage is located near coordinates 36.46144, -92.45128.
- An additional damaged PRV was observed on the west side of Area 1-2 (see photograph 3).
 The damage is located near coordinates 36.46133, -92.45082.
- Damaged closure turf was observed on the north side of Area 1-2 at coordinates 36.46181,
 -92.45045 (see photograph 4). The damage is approximately 30 feet long by 3 feet wide. The damage was first observed on 7/2/2025.
- Damaged closure turf was observed on the east side of Area 1-3, above LCS-7 (see photograph 5). The damage is approximately 100 feet long by 9 feet wide. The closure turf tear was first observed on 6/17/2025.

Attachment A is a map showing the LCS points. Photographs are included in Attachment B. Copies of the field notes and the LCS status form are included in Attachment C.

The LCS functionality has improved significantly since Landmarc made their recent repairs. 417 Services began hauling leachate on July 2, 2024. As of February 23, 2025, 417 Services hauled 226 loads of leachate (866,700 gallons) to the City of Springfield, Missouri wastewater treatment plant under wastewater contribution permit #593.

No leachate was hauled between February 24, 2025, and April 10, 2025. 417 Services resumed hauling leachate on April 11, 2025. Since hauling resumed in April 2025, and as of October 11,

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2025, 176 loads of leachate (677,600 gallons) have been hauled to the City of Springfield for disposal.

Attachments:

Attachment A – Site Map

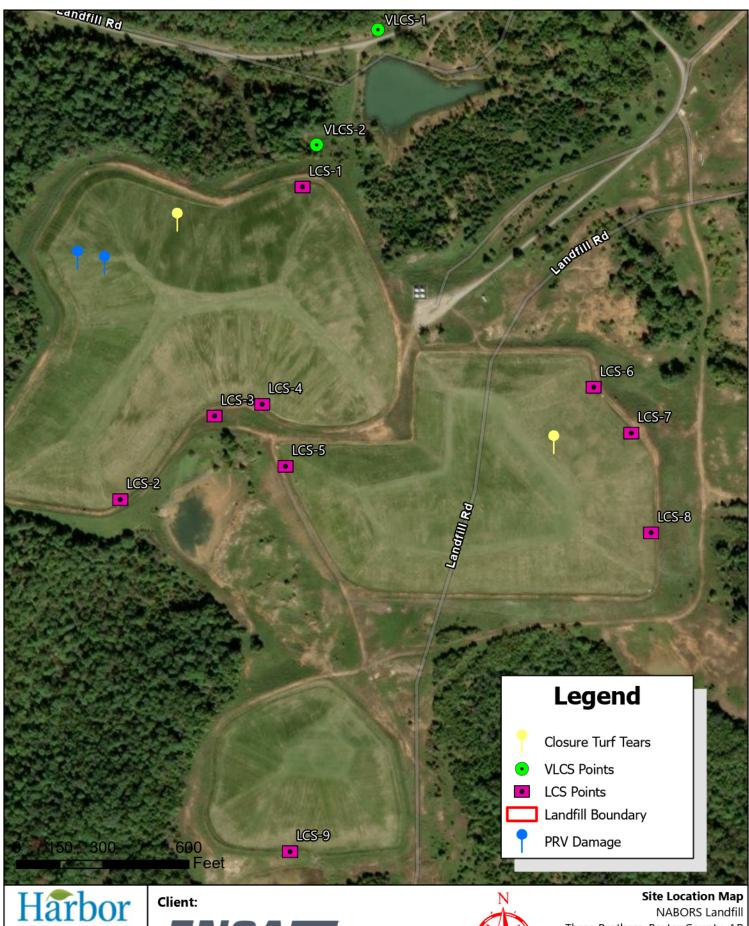
Attachment B – Site Photographs

Attachment C – Field Notes and Leachate Collection System Status Form



Attachment A

Site Map





5800 Evergreen Drive Little Rock, AR 72205 P: 501.663.8800 www.HarborEnv.com





Three Brothers, Baxter County, AR 10/9/2025

Date: Drawn by: CG Checked by: TH Revision No: 0



Attachment B

Site Photographs





Photograph 1: View of minimal stormwater in containment.



Photograph 2: View of damaged pressure relief vent on west side of Area 1-2.





Photograph 3: View of damaged pressure relief vent on west side of Area 1-2.



Photograph 3: View of damaged closure turf on the north side of Area 1-2.





Photograph 5: View of damaged closure turf on east side of Area 1-3.



Attachment C

Field Notes and Leachate Collection System Status Inspection Form



| | s Lan | | | 2/26/25 | | | | | 10/9/ |
|---------|---------|---------|-------------|-----------|---------|----------|--------|----------|----------|
| 13, - W | eebly | s, te | VISIT | | Bi-wee | | | | |
| • | | | | - | weather | L. 68, B | .clby, | breezy | |
| 947; | C, Go-V | ly o | n-5.7· | | 1024: | C. Gow | -ly , | m-site | |
| 951; | Ame | at | VLCS-Z | | 1029: | Aurice | - a+ | VLCS- | 2 |
| | Arrive | | | | | | | VLCS-1 | |
| | | | tank contai | m. | | | | on- 5,7e | |
| | | | el e 116.0" | | | | | tank o | ontainen |
| | ~ 10 | -1.5" 5 | w none he | leased | | | | le 113,5 | |
| 1002: | Amre | at L | -C5-) 30'× | , | | - mins | | | |
| 1007: | Anne | . at L | C5.2 | 2.51 | 1042: | | | | |
| 1009: | Amile | - at | LC5-3 | 4 | | | | PRU | |
| 1010: | Amire | at | LC5-4 | | 1057: | | | V | |
| 1013: | Avvi | e at | LC5-5 | | 1059: | Anne | - at | LC5-3 | |
| 1017: | Awive | - a+ | LC5-8 | 1 | 1100% | Amre | at | LCS-4 | |
| loia: | Anive | at | LCS-7 | | 1103: | Arrive | at | LCS-5 | |
| | - +~8 | tear | alless 100 | fa exagew | 1106: | Amire | - at | LLS-7 | |
| 1026: | | | LC5-6 | 1 | | Anne | | | |
| 1035: | C. Gon | dey a | 98-5.7e | | 11117 | Amur | - at | LC5-8 | |
| | | | | | 1175; | C. Gov | -4 | off-site | |
| | | | | 2 | | | | | |
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Leachate Collection System Status

| Date: 10/4/75 | Arrival Time: | 1024 | Location: | NABORS Landfill | Leachate Tank Battery Level (inches): | 113.5 | |
|---------------------|---------------|---------|-----------|-----------------|---------------------------------------|-------|---|
| Weather Conditions: | 68°, P. clo | ey, bro | cery | | | | _ |

| Panel Number | Display Functioning (Yes/No) | Leachate Level (inches) | Green Flashing? (Yes/No) | Amber Flashing? (Yes/No) | Red Flashing? (Yes/No) | Working in Hand? (Yes/No) | Working in Auto? (Yes/No) | VFD Operational? (Yes/No) | Comments |
|-----------------|------------------------------------|-------------------------------|--------------------------------|--------------------------------|------------------------------|---------------------------------|---------------------------------|---------------------------------|-------------------------|
| VLCS-1 | N/A | N/A | N/A | N/A | N | N | ~ | N/A | Sump Capacity: 1/2 Roll |
| VLCS-2 | N/A | N/A | N/A | N/A | ~ | 4 | Y | N/A | Sump Capacity: Empty |
| LCS-1 | N | _ | - | | _ | _ | _ | _ | station not apprations |
| LCS-2 | 7 | 23,9 | ~ | N | N | 4 | 7 | ĭ | station our |
| LCS-3 | 4 | 3.2 | N | N | N | Y | Y | Y | 11 11 |
| LCS-4 | 4 | 18,7 | N | ~ | N | 7 | Y | 7 | 11 11 |
| LCS-5 | Y | 468.7 | ~ | N | N | N | N | ~ | Error 1 |
| LCS-6 | Y | 430.2 | N | N | N | ~ | ~ | - | 200 |
| LCS-7 | ~ | _ | , | - | _ | _ | - | _ | Statuon not aperation |
| LCS-8 | N | _ | - | _ | _ | _ | _ | _ | 1 |
| LCS-9 | ~ | _ | _ | _ | _ | _ | _ | _ | (1 |
| General (| Comments: | | | | | | | | |



End of Report