

DATE: January 21, 2025

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

FROM: Thomas Huetter, P.G., *Senior Project Manager, Harbor*

RE: Bi-weekly Site Inspection
NABORS Landfill
Mountain Home, AR
Harbor Project No: ENSF-23299

Harbor visited the NABORS landfill in Mountain Home, Arkansas on January 17, 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 initial repairs on December 3-4, 2024. A report summarizing these activities was submitted on January 20, 2025.

The LCS remains largely unchanged from previous inspections. Findings and observations from the current landfill inspection are summarized below:

- Vertical leachate collection sump (VLCS)-1 is functioning correctly and was observed at 2/3 capacity (see photographs 1 and 2).
 - VLCS-2 appeared to be functioning correctly, and the sump was at approximately 1/3 capacity (see photographs 3 and 4).
 - Approximately 4-5 inches of stormwater was observed in the leachate tank battery containment (see photograph 5). The pH of the stormwater was measured at 8.48 and approximately two inches of stormwater was released while on site (see photograph 6).
 - The panel displays were off at all LCS stations except LCS-2, LCS-5 and LCS-7.
 - LCS-2 level remained at 26.2 inches and did not activate when the switch was placed in "hand" or "auto" mode. LCS-2 also displayed a pump fault alarm.
 - LCS-5 level remained at 9.7 inches and did not activate when the sump was placed in "hand" or "auto" mode.
 - LCS-7 level remained at 0.0 inches and did not activate when the sump was placed in "hand" or "auto" mode. LCS-7 also displayed a pump fault alarm.
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- The display at LCS-9 had been removed (see photograph 7). In addition, the cover for the LCS-9 sump had either been manually removed or had fallen off (see photograph 8).
- The closure turf has some significant rills present between LCS-1 and LCS-2 on the north side of Area 1-2. These rills have sediment deposited in them which allows vegetation to grow. An erosional washout is present along the road between LCS-4 and LCS-5.

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 leachate collection system has been functioning at a minimal level, resulting in some leachate generation, mainly by placing some of the LCS points in "hand" mode. Harbor contract water hauler 417 Services LLC (417 Services) began hauling leachate on July 2, 2024. As of January 9, 2025, 417 Services hauled 187 loads of leachate totaling 716,550 gallons to the City of Springfield, Missouri wastewater treatment plant under wastewater contribution permit #593.

Attachments:

Attachment A – Site Map

Attachment B – Site Photographs

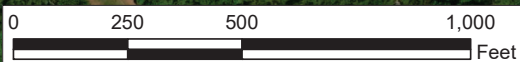
Attachment C – Field Notes and Leachate Collection System Status Form

Attachment A

Site Map



Scales



Legend

- Landfill Boundary
- VLCS Points
- LCS Points

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

Client: **ENSAFE**



Leachate Collection Points
NABORS Landfill
Mountain Home, Baxter County, AR

Date: 5/17/2024
Drawn by: TH
Checked by: LD

Attachment B

Site Photographs



Photograph 1: View of VLCS-1.



Photograph 2: Leachate at 2/3 full in VLCS-1 sump.



Photograph 3: View of VLCS-2.



Photograph 4: Leachate at 2/3 full in VLCS-1 sump.



Photograph 5: View of approximately 4-5 inches of stormwater in secondary containment.



Photograph 6: View of stormwater in secondary containment after release of approximately two inches.



Photograph 7: View of missing display in LCS-9 panel.



Photograph 8: View of cover removed from LCS-9 sump.

Attachment C

Field Notes and Leachate Collection System Status Inspection Form

1/17/26

NABORS LF BI-WEEKLY SITE
INSPECTIONWEATHER: PARTLY CLOUDY, MID 50S,
LIGHT BREEZE

1125: T. HETTER ON SITE.

1129: ARRIVE AT VLCS-2, SUMP
X $\frac{1}{3}$ FULL1133: ARRIVE AT ALLS-1, $\frac{2}{3}$ FULL1140: ARRIVE AT TANK BATTERY
TANK LEVEL @ 178.7". APPROX.4-5" ~~TO~~ STORMWATER IN
SECONDARY CONTAINMENT, 8.48 pH1147: ARRIVE AT LCS-1 - DISPLAY
OFF, NO CHANGE.

1201: ARRIVE AT LCS-2

1203: ARRIVE AT LCS-3

1213: ARRIVE AT LCS-4

1214: ARRIVE AT LCS-5 - 9.7"
STATION OK, 0 HOURS

1224: ARRIVE AT LCS-9

1233: ARRIVE AT LCS-8, NO DISPLAY

1235: ARRIVE AT LCS-7 - 0.0"

29 HOURS, PUMP FAULT, VFD
COMES ON 10 HOURS

1/17/26

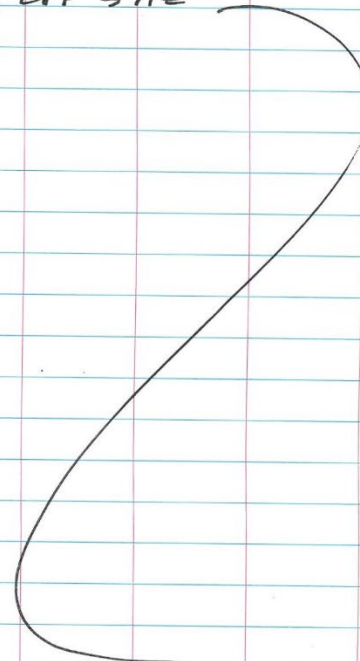
1233: ARRIVE AT LCS-6

NO DISPLAY, NO RESPONSE IN
HAND

1244: BACK AT TANK FARM.

APPROX. 2" STORM WATER RELEASED
TANK LEVEL UP SLIGHTLY TO 179.3"

1302: T.H. OFF SITE





Leachate Collection System Status

Date: 1/17/2025 Arrival Time: 1125 Location: NABORS Landfill Leachate Tank Battery Level (inches): 178.7
 Weather Conditions: PARTLY CLOUDY, WINDY, MID-50s

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 Status	Hours	Alarm	Comments	
VLCS-1	N/A	N/A	N/A	N/A	No	—	—	N/A	N/A	N/A	Sump status:	2/3 Full
VLCS-2	N/A	N/A	N/A	N/A	No	—	—	N/A	N/A	N/A	Sump status:	1/3 Full
LCS-1	No	1	N	N	N	—	—	—	—	—		
LCS-2	Y	26.2	N	N	N	Y	?	✓	1853	N	PUMP FAULT	
LCS-3	N	1	N	N	N	Y	?	?	?	?	VFD FAULT COMES ON IN HAND	
LCS-4	N	1	N	N	N	N	N	?	?	?		
LCS-5	Y	9.7	N	N	N	N	N	OK	0	OK	NO SOUND IN HAND	
LCS-6	N	1	N	N	N	N	N	?	1	1		
LCS-7	N	0.0	N	N	N	N	N	OK	29	Y	PUMP FAULT	
LCS-8	N	1	N	N	N	N	N	?	1	1		
LCS-9	N	1	N	N	N	N	N	?	1	1	N/A	
General Comments:												

End of Report
