

**DATE:** September 19, 2024

**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*

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Harbor visited the NABORS landfill in Mountain Home, Arkansas on September 5, 2024, to conduct the bi-weekly site inspection to assess the condition general condition of the landfill and the leachate collection system. The leachate collection system was last fully repaired by Advanced Fluid Technologies (AFT) in October and November of 2022; however, within a few weeks of these repairs, the system began malfunctioning. By March 2023, most of the leachate collection points were malfunctioning. A quote was then requested and received from AFT to repair the system again. No authorization for the subsequent repairs was provided prior to the expiration of Harbor's contract with DEQ in June 2023.

Upon commencement of the subcontract with EnSafe, Inc. (EnSafe) in April 2024, Harbor retained Comfort Systems USA (CSUSA) to begin repairs of the leachate collection system. CSUSA conducted partial repairs of the system; however, they were unable to conduct all of the repairs necessary and have since been terminated as the repair contractor. Harbor contacted Landmarc Environmental (Landmarc), a company specializing in leachate collection system installation and service, to assess the leachate collection system (LCS). Landmarc accompanied Harbor during the current inspection to assess the LCS. Findings of that assessment are summarized below:

- LCS-1 – panel was off, but power came on and display was visible, level was at 0.0; green strobe activated but pump did not come on when put in hand mode at main switch; no voltage to level sensor; pump did come on when activated directly from variable frequency drive (VFD).
  - LCS-2 – no power to VFD; incorrectly wired; no feed from breaker to VFD, display not programmed; pump fault.
  - LCS-3 – no display; pump did come on when activated directly from VFD.
  - LCS-4 – Display working, VFD was not wired.
  - LCS-5 – Display working, pump did not come on when put in hand mode at main switch; but did come on when activated directly from VFD.
  - LCS-6 – Green strobe was activated; level was at 9.4 inches; hand auto switch was not working, but the LCS point was functioning.
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- LCS-7 – hand /auto switch on panel not working; but pump came on when activated directly from VFD.
- LCS-8 – VFD was missing, panel was off.
- LCS-9 – VFD was missing, panel was off.

Landmarc is preparing a cost estimate with recommendations for repair options. G&C Land Improvements LLC was on site to begin clearing operations. A report of their activities will be provided separately. Other findings and observations from the current landfill inspection are summarized below:

- Vertical leachate collection sump (VLCS)-1 was at approximately 1/2 - 2/3 capacity (see photographs 1 and 2).
- VLCS-2 appeared to be functioning correctly and the sump was at approximately 1/4 – 1/3 capacity (see photographs 3 and 4).
- Minimal stormwater was observed in the leachate tank battery secondary containment (See photographs 5 and 6).

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 August 31, 2024, 417 Services hauled 58 loads of leachate totaling 219,900 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**

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Scales



### Legend

- Landfill Boundary
- VLCS Points
- LCS Points





**Attachment B**

**Site Photographs**

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**Photograph 1:** View of VLCS-1.



**Photograph 2:** View of VLCS-1 sump at 1/2 - 2/3 capacity.





**Photograph 3:** View of VLCS-2.



**Photograph 4:** View of VLCS-2 sump at 1/4 – 1/3 capacity.





**Photograph 5:** View west of minimal stormwater in leachate tank secondary containment.



**Photograph 6:** View north of minimal stormwater in leachate tank secondary containment.



## **Attachment C**

### **Field Notes**

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NABORS LE BI-WEEKLY SITE  
INSPECTIONWEATHER: MOSTLY SUNNY, LOW 80s,  
LIGHT BREEZE1022: T. HUETER ON SITE. 417  
SERVICES ON SITE PICKING UP  
LEACHATE LOAD1023: CLEANING CONTRACTOR ON SITE  
SHOW THEM AREAS TO BE CLEARED,1109: ARRIVE AT VCS-1, PUMP  
APPROX. 1/2-2/3 FULL - GOOD1113: ARRIVE AT VCS-2, PUMP  
APPROX. 1/4-1/3 FULL1131: MATT BAKER, LANDMARC ON  
SITE1138: ARRIVE AT LCS-1. ~~NO~~  
~~POWER TO PANEL~~ PANEL OFF  
POWERED UP, DISPLAY ON, GREEN  
STROBE ACTIVATED LEVEL = 0.0"  
PUMP WAS NOT ONNO VOLTAGE TO LEACH GUNSON  
PUMP RUNNING WHEN ACTIVATED  
FROM VFD

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1200: ARRIVE AT LCS-2, NO POWER  
TO VFD - NOT WIRING CORRECTLY  
NO FEED FROM BREAKER TO VFD.  
DISPLAY NOT PROGRAMMED  
PUMP FAULT1215: ARRIVE AT LCS-3  
DISPLAY PANEL (CONTROLLER) - NO  
DISPLAY, PUMP WORKING WITH  
VFD.1220: ARRIVE AT LCS-4  
WIRING TO VFD HAS BEEN  
REMOVED. DISPLAY WORKING1226: ARRIVE LCS-5  
DISPLAY WORKING, HAND/AUTO  
SWITCH NOT WORKING  
RUNS ON VFD1235: ARRIVE AT LCS-9  
VFD MISSING, PANEL OFF1249: ARRIVE AT 1249 LCS-8  
VFD MISSING, PANEL OFF1253: ARRIVE AT LCS-7, HAND  
AUTO SWITCH NOT WORKING. PUMP  
COMES ON W/ VFD



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NABORS LP

1258: ARRIVE AT LCS-6

GREEN STRIKE FLAGLINE

LEVEL @ 9.4" HAND/AUTO

SWITCH NOT WORKING

APPEARS TO FUNCTIONING

1305: BACK TO TANK AREA,

LANDMAN TO PROVIDE RETAINED

RECOMMENDATIONS AND QUOTE

1310: M. BAKER OFF SITE, ~~GO~~ TH

TO CHECK ON CLEANING PROGRESS

1341: LAND CLEANING CUTS OFF SITE  
FOR LUNCH.

1418: CLEANING CUTS BACK ON SITE

1430: JH OFF SITE

