

## Nebraska Department of Environment and Energy (NDEE)

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### MEMORANDUM

**To:** File

**From:** Hillary Stoll

**Date:** March 2, 2021

**RE:** AltEn, LLC

**NDEE ID:** 84069

**Program ID:** WWF, PCS NE0137634

**Subject:** Site Visit Report (Wastewater Aspects Only)

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### **Summary of Site Visit and Information Acquired During Visit:**

Mark Pomajzl and Hillary Stoll (myself) arrived at the AltEn, LLC facility in Mead, Nebraska at about 9:20 AM on March 2, 2021. The weather was about 40 degrees Fahrenheit. Mr. Scott Tingelhoff, Mr. Dean Egr, and Mr. Ken Peterson were all present. We stated that we were conducting a site visit and would like to observe the wastewater lagoons and the easternmost wet cake storage area. At no time was access denied. Mr. Dean Egr accompanied us to the wastewater lagoons and easternmost wet cake storage area. The observations included in this memorandum are only those that are related to wastewater. Observations related to the easternmost wet cake storage area are included in a different memorandum. After the tour, we signed out at the office and left at approximately 10:50 AM.

### **Observations Noted:**

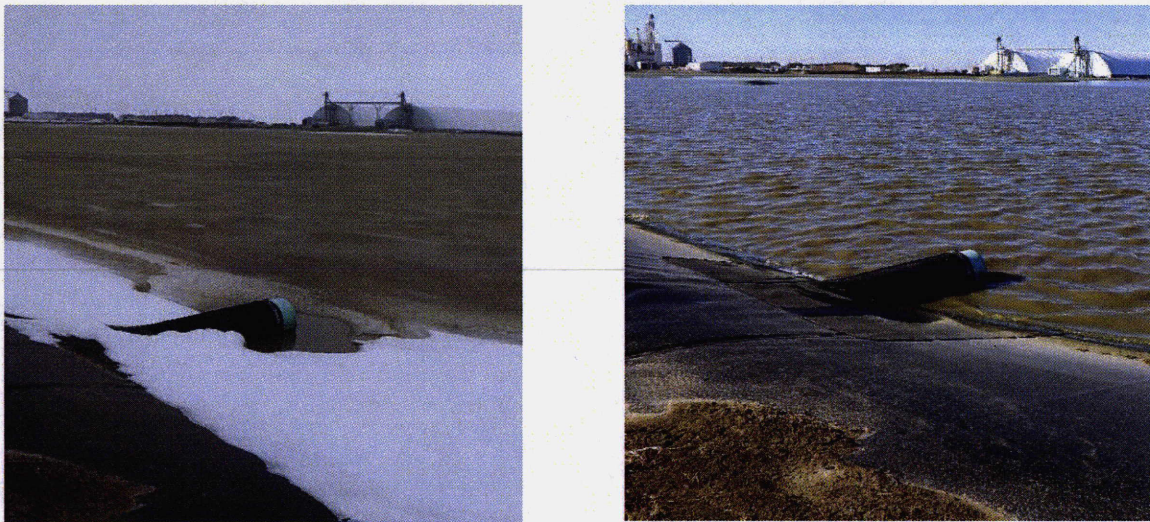
- From a visual observation, the depth of the Northwest lagoon appeared to be about 18.5 feet, based on the depth marker (Photo 2). The maximum depth (top of berm) based on the depth marker is 20 feet. Thus, there was about 1.5 feet of freeboard observed in the Northwest lagoon.
- From a visual observation, the depth of the Northeast lagoon appeared to be about 20 feet, based on the depth marker (Photo 12). The maximum depth (top of berm), based on the depth marker, is 22 feet. Thus, there was about 2.0 feet of freeboard observed in the Northeast lagoon.
- From a visual observation, the depth of the Southeast lagoon appeared to be a little over 21 feet, based on the depth marker (Photos 18 and 19). The maximum depth (top of berm), based on the depth marker, is 23 feet. This provides about 1.8 feet of freeboard. According to information obtained from plans and specifications for the addition of the Northwest lagoon (Document ID 20180034184), the maximum depth of the Southeast lagoon is 22 feet. The reason for the variation between the Southeast lagoon depth marker



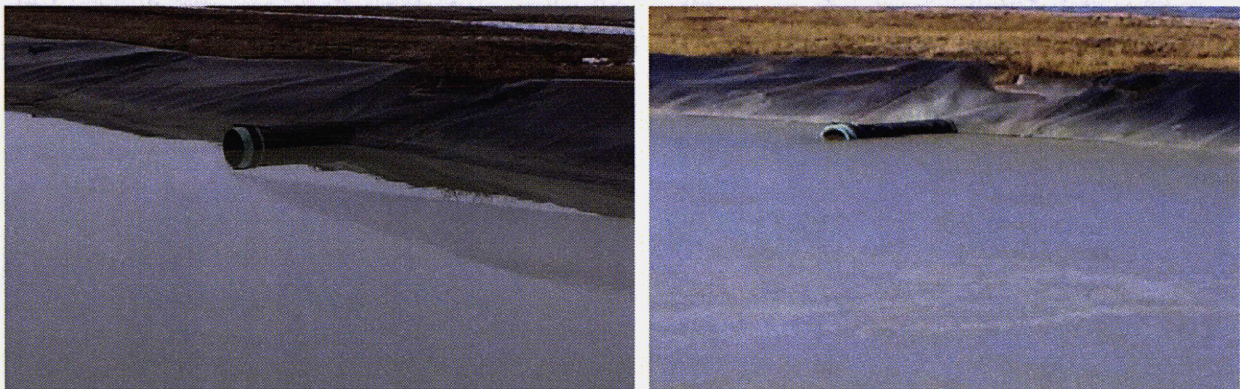


and the referenced engineering document is unclear. Regardless, there was about 1.8 feet of freeboard observed in the Southeast lagoon.

- The Northeast lagoon cell liner has not been repaired and is still badly damaged (Photos 9 and 10). There were also numerous animal burrows observed on the north side of the dike north of the Northeast lagoon (Photo 11).
- The facility was not pumping wastewater from the emergency overflow lagoon into any of the three wastewater lagoons during the site visit (Photos 3 and 17).
- There is a stockpile of ice and soil that were excavated as part of the spill clean-up process on the east side of the emergency overflow lagoon (Photos 23 and 27).
- The facility is currently pumping wastewater from the emergency overflow lagoon to a portable filtration unit provided by Clean Harbors. This water is then being stored in a portable holding structure. It was confirmed that this is what was occurring during the March 2, 2021 site visit via a phone call with Mr. Scott Tingelhoff and Mr. Ken Peterson on March 3, 2021 (Photos 24-26).

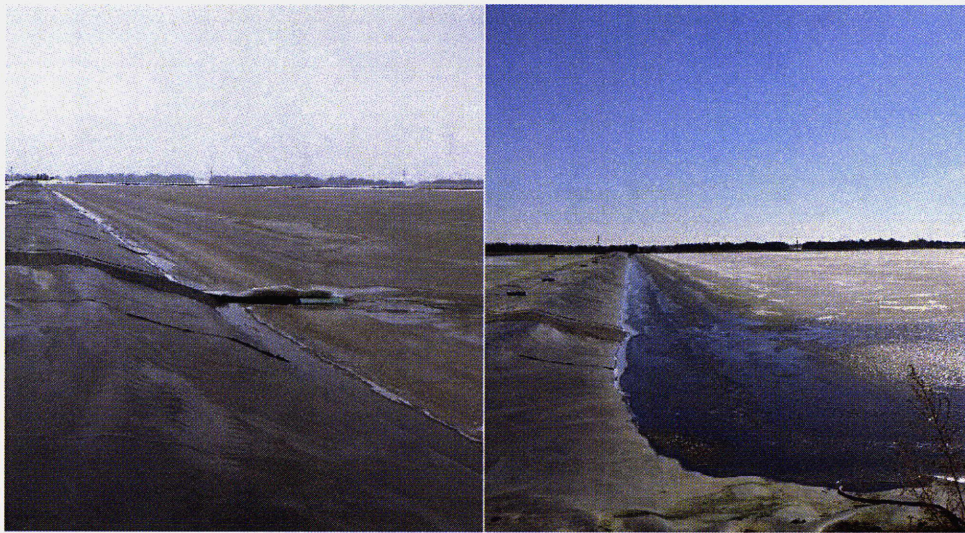


**Figure 1. Overflow Pipe in Northwest lagoon on February 1, 2021 (left) and on March 2, 2021 (right).**



**Figure 2. Overflow Pipe from Northwest lagoon entering the Northeast lagoon on February 1, 2021 (left) and on March 2, 2021 (right).**





**Figure 3. Overflow Pipe entering the Southeast lagoon from the Northeast lagoon on February 1, 2021 (left) and on March 2, 2021 (right).**

**Attachments**

- 1) Photos**
- 2) Map**



## 1) Photos

**Note: Not all photos taken at the site are included in this memorandum.**



Photo 1

Date Taken: March 2, 2021

Photographer: Hillary Stoll

Facility Name/Project Name: AltEn, LLC, Mead, NE

Facility IIS number/Project Identifier: IIS #84069, PCS NE0137634

Direction Facing: Northwest

Description: Influent pipe into the Northwest lagoon.





Photo 2

Date Taken: March 2, 2021

Photographer: Hillary Stoll

Facility Name/Project Name: AltEn, LLC, Mead, NE

Facility IIS number/Project Identifier: IIS #84069, PCS NE0137634

Direction Facing: Northwest

Description: Depth marker for the Northwest lagoon.





Photo 3

Date Taken: March 2, 2021

Photographer: Hillary Stoll

Facility Name/Project Name: AltEn, LLC, Mead, NE

Facility IIS number/Project Identifier: IIS #84069, PCS NE0137634

Direction Facing: Southwest

Description: Hose that was used to pump wastewater from the emergency overflow lagoon into the southeast corner of the Northwest lagoon. No wastewater was observed being pumped into the lagoons while we were there.





Photo 4

Date Taken: March 2, 2021

Photographer: Hillary Stoll

Facility Name/Project Name: AltEn, LLC, Mead, NE

Facility IIS number/Project Identifier: IIS #84069, PCS NE0137634

Direction Facing: Southeast

Description: Overflow pipe between the Northwest lagoon (pictured) and the Northeast lagoon.



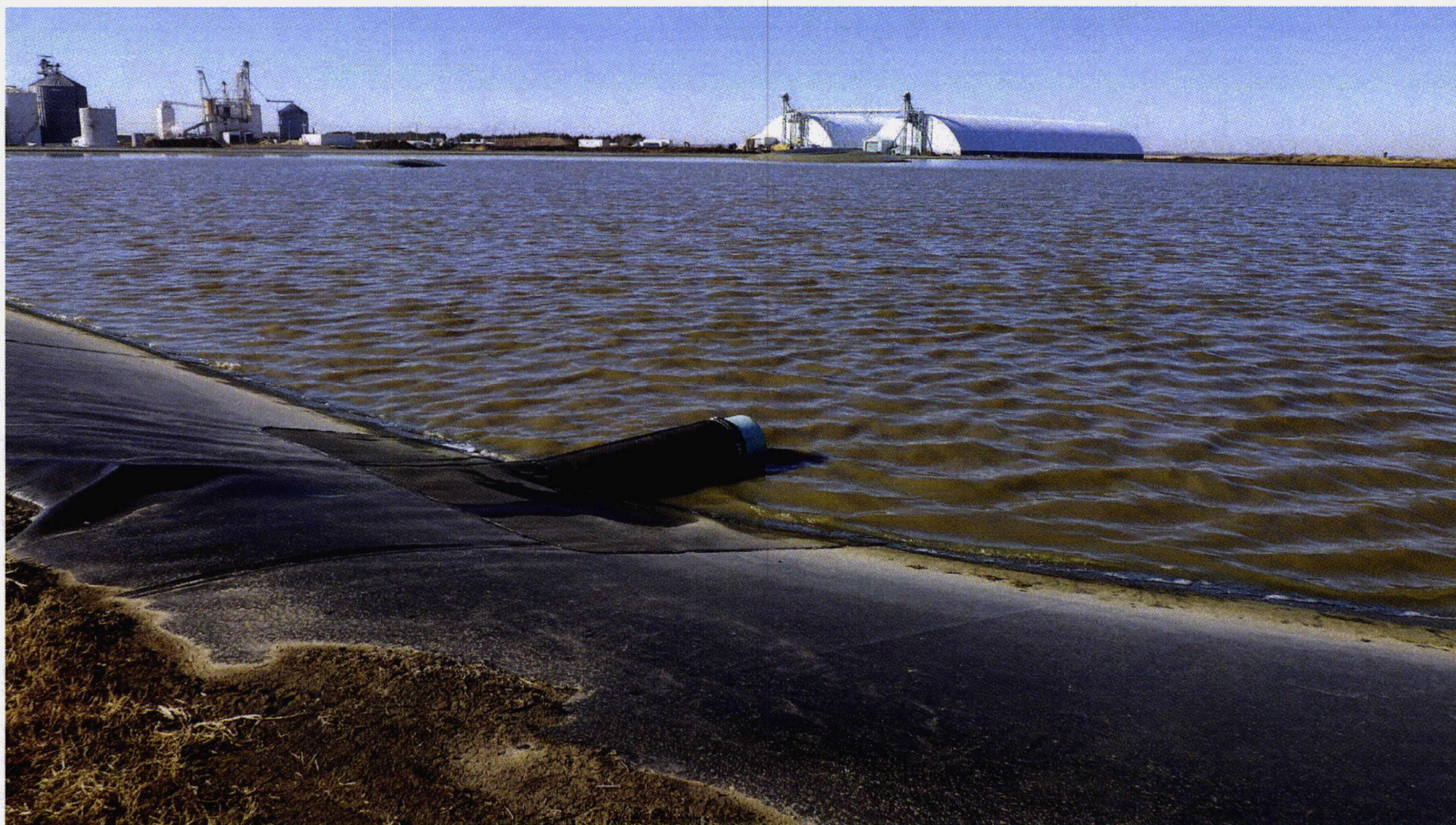


Photo 5

Date Taken: March 2, 2021

Photographer: Hillary Stoll

Facility Name/Project Name: AltEn, LLC, Mead, NE

Facility IIS number/Project Identifier: IIS #84069, PCS NE0137634

Direction Facing: Southwest

Description: Overflow pipe between the Northwest lagoon (pictured) and the Northeast lagoon.





Photo 6

Date Taken: March 2, 2021

Photographer: Hillary Stoll

Facility Name/Project Name: AltEn, LLC, Mead, NE

Facility IIS number/Project Identifier: IIS #84069, PCS NE0137634

Direction Facing: Southwest

Description: Overflow pipe entering the Northeast lagoon (left) from the Northwest lagoon (right).





Photo 7

Date Taken: March 2, 2021

Photographer: Hillary Stoll

Facility Name/Project Name: AltEn, LLC, Mead, NE

Facility IIS number/Project Identifier: IIS #84069, PCS NE0137634

Direction Facing: N/A

Description: Overflow pipe entering the Northeast lagoon (pictured) from the Northwest lagoon (not pictured).





Photo 8

Date Taken: March 2, 2021

Photographer: Hillary Stoll

Facility Name/Project Name: AltEn, LLC, Mead, NE

Facility IIS number/Project Identifier: IIS #84069, PCS NE0137634

Direction Facing: North

Description: Overflow pipe entering the Northeast lagoon (pictured) from the Northwest lagoon (not pictured).





Photo 9

Date Taken: March 2, 2021

Photographer: Hillary Stoll

Facility Name/Project Name: AltEn, LLC, Mead, NE

Facility IIS number/Project Identifier: IIS #84069, PCS NE0137634

Direction Facing: Southwest

Description: Liner tear on the north side of the Northeast lagoon.





Photo 10

Date Taken: March 2, 2021

Photographer: Hillary Stoll

Facility Name/Project Name: AltEn, LLC, Mead, NE

Facility IIS number/Project Identifier: IIS #84069, PCS NE0137634

Direction Facing: Southwest

Description: Liner tear on the north side of the Northeast lagoon.



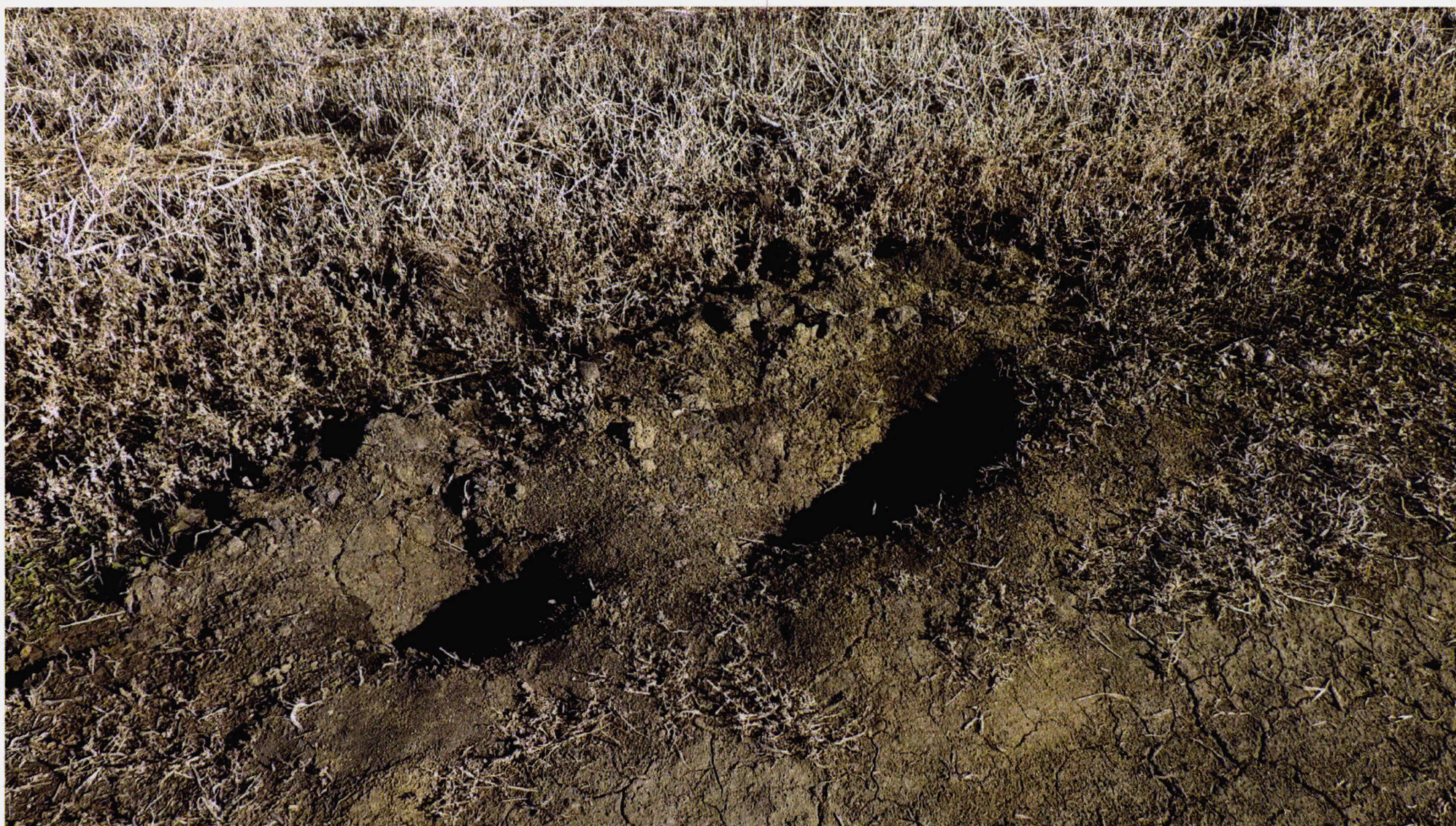


Photo 11

Date Taken: March 2, 2021

Photographer: Hillary Stoll

Facility Name/Project Name: AltEn, LLC, Mead, NE

Facility IIS number/Project Identifier: IIS #84069, PCS NE0137634

Direction Facing: N/A

Description: Animal burrows on north side of the dike north of the Northeast lagoon.





Photo 12

Date Taken: March 2, 2021

Photographer: Hillary Stoll

Facility Name/Project Name: AltEn, LLC, Mead, NE

Facility IIS number/Project Identifier: IIS #84069, PCS NE0137634

Direction Facing: Southwest

Description: Depth marker for the Northeast lagoon (Southeast corner). The water level appears to be at about 20 feet (number at top of dike is 22 feet).





Photo 13

Date Taken: March 2, 2021

Photographer: Hillary Stoll

Facility Name/Project Name: AltEn, LLC, Mead, NE

Facility IIS number/Project Identifier: IIS #84069, PCS NE0137634

Direction Facing: Northwest

Description: Overview of the Northeast lagoon.





Photo 14

Date Taken: March 2, 2021

Photographer: Hillary Stoll

Facility Name/Project Name: AltEn, LLC, Mead, NE

Facility IIS number/Project Identifier: IIS #84069, PCS NE0137634

Direction Facing: Southeast

Description: Overflow pipe from the Northeast lagoon (left) to the Southeast lagoon (right).





Photo 15

Date Taken: March 2, 2021

Photographer: Hillary Stoll

Facility Name/Project Name: AltEn, LLC, Mead, NE

Facility IIS number/Project Identifier: IIS #84069, PCS NE0137634

Direction Facing: East

Description: Overflow pipe from the Northeast lagoon (left) to the Southeast lagoon (right).





Photo 16

Date Taken: March 2, 2021

Photographer: Hillary Stoll

Facility Name/Project Name: AltEn, LLC, Mead, NE

Facility IIS number/Project Identifier: IIS #84069, PCS NE0137634

Direction Facing: East

Description: Overflow pipe entering the Southeast lagoon (right) from the Northeast lagoon (left). The overflow pipe in the Southeast lagoon is submerged.





Photo 17

Date Taken: March 2, 2021

Photographer: Hillary Stoll

Facility Name/Project Name: AltEn, LLC, Mead, NE

Facility IIS number/Project Identifier: IIS #84069, PCS NE0137634

Direction Facing: Southeast

Description: Hose that was used to pump wastewater into the Southeast lagoon. No wastewater was observed being pumped into the lagoons during the site visit.





Photo 18

Date Taken: March 2, 2021

Photographer: Hillary Stoll

Facility Name/Project Name: AltEn, LLC, Mead, NE

Facility IIS number/Project Identifier: IIS #84069, PCS NE0137634

Direction Facing: Northwest

Description: Depth marker for the Southeast lagoon (northeast corner). The water level appears to be a little over 21 feet (based on depth marker numbers). According to the depth marker, the maximum depth is 23 feet, which means there is a little less than 2 feet of freeboard. According to the depth marker, the maximum depth for the Northeast lagoon is 22 feet. This number can be seen in this photo, as well (circled in red).





Photo 19

Date Taken: March 2, 2021

Photographer: Hillary Stoll

Facility Name/Project Name: AltEn, LLC, Mead, NE

Facility IIS number/Project Identifier: IIS #84069, PCS NE0137634

Direction Facing: N/A

Description: Depth marker for the Southeast lagoon (northeast corner). The water level appears to be a little over 21 feet (based on depth marker numbers).





Photo 20

Date Taken: March 2, 2021

Photographer: Hillary Stoll

Facility Name/Project Name: AltEn, LLC, Mead, NE

Facility IIS number/Project Identifier: IIS #84069, PCS NE0137634

Direction Facing: Southwest

Description: Overview of the Southeast lagoon.





Photo 21

Date Taken: March 2, 2021

Photographer: Hillary Stoll

Facility Name/Project Name: AltEn, LLC, Mead, NE

Facility IIS number/Project Identifier: IIS #84069, PCS NE0137634

Direction Facing: South

Description: Overview of the east side of the Southeast lagoon.





Photo 22

Date Taken: March 2, 2021

Photographer: Hillary Stoll

Facility Name/Project Name: AltEn, LLC, Mead, NE

Facility IIS number/Project Identifier: IIS #84069, PCS NE0137634

Direction Facing: Northeast

Description: Overview of the emergency overflow lagoon. Excavated soil/ice are floating in the lagoon from the spill.





Photo 23

Date Taken: March 2, 2021

Photographer: Hillary Stoll

Facility Name/Project Name: AltEn, LLC, Mead, NE

Facility IIS number/Project Identifier: IIS #84069, PCS NE0137634

Direction Facing: East

Description: Overflow of the emergency overflow lagoon. Excavated soil/ice are floating in the lagoon from the spill.





Photo 24

Date Taken: March 2, 2021

Photographer: Hillary Stoll

Facility Name/Project Name: AltEn, LLC, Mead, NE

Facility IIS number/Project Identifier: IIS #84069, PCS NE0137634

Direction Facing: N/A

Description: Suction end of pump that appeared to be pumping wastewater from the emergency overflow lagoon to a portable filtration treatment system (Photo 25) and a portable holding tank (Photo 26).





Photo 25

Date Taken: March 2, 2021

Photographer: Hillary Stoll

Facility Name/Project Name: AltEn, LLC, Mead, NE

Facility IIS number/Project Identifier: IIS #84069, PCS NE0137634

Direction Facing: South

Description: Portable filtration treatment system provided by Clean Harbors.





Photo 26

Date Taken: March 2, 2021

Photographer: Hillary Stoll

Facility Name/Project Name: AltEn, LLC, Mead, NE

Facility IIS number/Project Identifier: IIS #84069, PCS NE0137634

Direction Facing: Southeast

Description: Temporary wastewater holding tank provided by Clean Harbors.





Photo 27

Date Taken: March 2, 2021

Photographer: Hillary Stoll

Facility Name/Project Name: AltEn, LLC, Mead, NE

Facility IIS number/Project Identifier: IIS #84069, PCS NE0137634

Direction Facing: West

Description: Pile of ice/soil excavated from the spill. This pile is on the east side of the emergency overflow lagoon.



## 2) Map

