

Facility: AltEn
IIS: 84069
PCS: NE0137634

Jason Windhorst
3-31-2021

Site Visit Check list

Weather conditions: Clear skies, windy
Temperature: 48 F
Precipitation: none

A. Berms (the numbers below match the attached map) Circling yes indicates the area was inspected.

- | | | |
|--|--------------------------------------|--|
| 1. Northeast side of the administration building | <input checked="" type="radio"/> Yes | No <input checked="" type="radio"/> pumped / not pumped |
| 2. Southwest side of the south lagoon | <input checked="" type="radio"/> Yes | No <input checked="" type="radio"/> pumped / not pumped |
| 3. West side of the northwest lagoon | <input checked="" type="radio"/> Yes | No <input checked="" type="radio"/> pumped / <input checked="" type="radio"/> not pumped |
| 4. North side of the north wet cake pile | <input checked="" type="radio"/> Yes | No |
| 5. County Road 10 (Hoop building). | <input checked="" type="radio"/> Yes | No <input checked="" type="radio"/> pumped / not pumped |
| 6. East wet cake pile | <input checked="" type="radio"/> Yes | No <input checked="" type="radio"/> pumped / <input checked="" type="radio"/> not pumped |

Comments:

- The facility is requesting to remove the berm for area. They have removed the wetcake upslope from this area and will no longer have runoff from the storage areas. They have bermed the wetcake further to the north of this area and are working on a plan to divert drainage to area 2. (See photos # 1&2)
- Area 6 continues to seep through the primary berm and appears to be holding at the lower berm. Mr. Peterson plans to pump out the berm once they gain access to more hose.
- Area 3 will need to be pumped after they finish stabilizing the berm and area outside the berm.
- The second Poseidon tank frame has been constructed but not in use currently. The wind is problematic and unsafe currently to install the inside liner and will be completed late this week depending upon the weather. The third Poseidon tank area is being graded to the west of the Biochar area and should be completed this week. Assembly of the third tank is likely to begin in early April.



20210020359

B. Lagoons

1. Northeast lagoon

- High wind gusts are causing large waves to splash up and partly over the east edge.
- Portions of the liner (whales and floating sections) were observed moving.

2. Northwest lagoon

- The southeast corner showed indications of movement under high gusts.

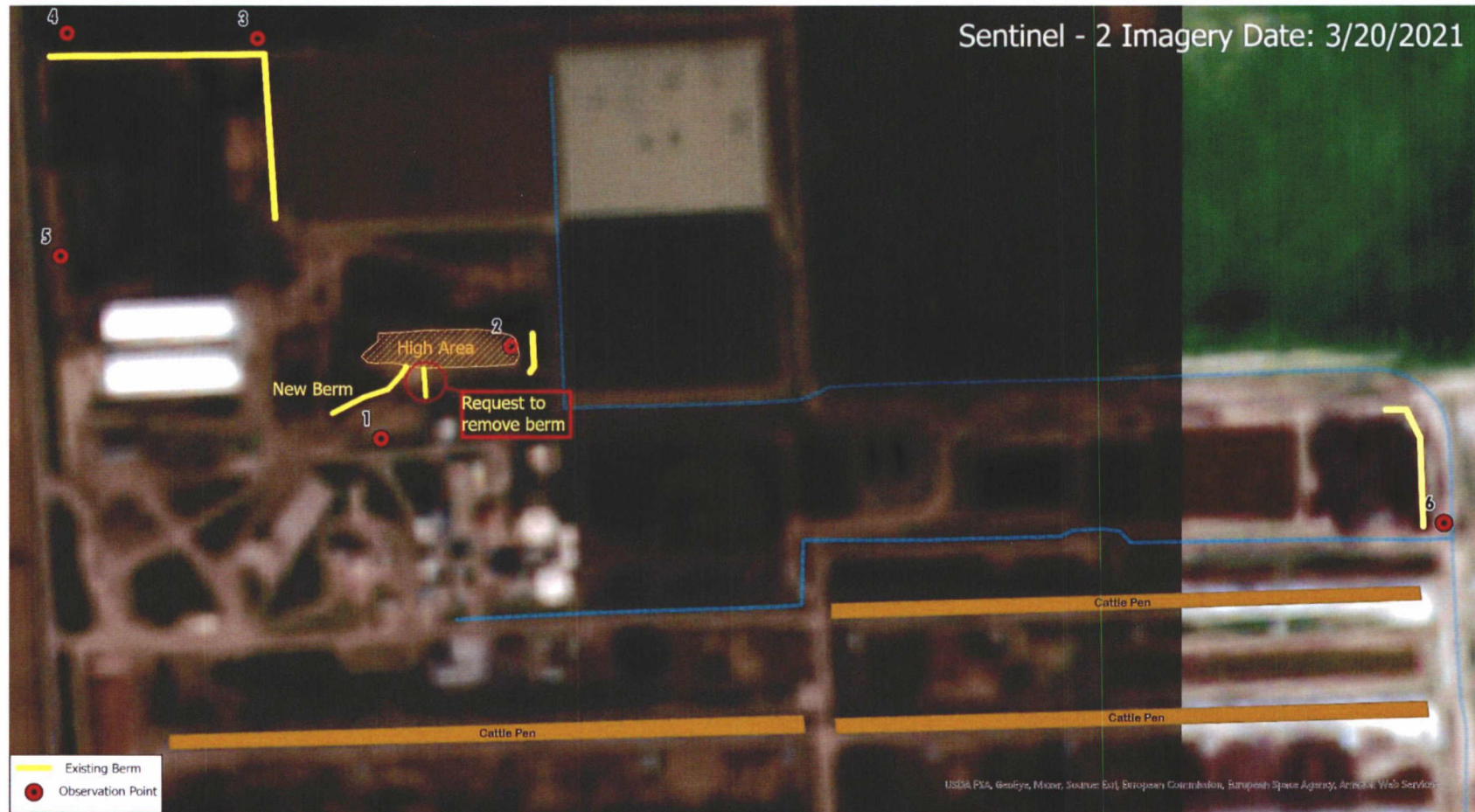
3. South lagoon

- No change

Notes:

- The facility continues to transfer biochar supersacks into the south hoop building. The facility has transferred approximately 80 percent.
- The facility has requested to remove the berm north of the admin building to allow storm water to flow around the bermed wetcake areas. The staff has constructed a small berm around the wetcake area west of the berm in question, but it has not determined how to transfer runoff to the north side of the high area indicated on the Sentinel-2 map below. Once the new berm and catchment system is completed, the berm requested for removal will only capture stormwater runoff from the parking and access road areas.

AltEn LLC - Storm Water Temporary BMP Check Map



Address: 11344 County Road 10, Mead NE
 NDEQ ID: 84069
 Program ID: NE0137634 / NER910444

NEBRASKA

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Photos



Photos: 1

Site Visit Report

Date Taken: 3-31-2021

Photographer: Jason Windhorst

Facility Name/ Project Name: AltEn LLC

Facility IIS number / Project identifier: IIS: 84069 / NE0137634

Location: Area 1 on the site map

Direction Facing: North

Description: The majority of runoff was pumped and is now being allowed to dry out. The facility has requested approval to remove this berm and use the newly constructed berm to the west as a replacement.

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Photos: 2

Site Visit Report

Date Taken: 3-31-2021

Photographer: Jason Windhorst

Facility Name/ Project Name: AltEn LLC

Facility IIS number / Project identifier: IIS: 84069 / NE0137634

Location: Area 1 on the site map

Direction Facing: Southwest

Description: The photo shows that the area above the berm AltEn is requesting to remove is clear of wetcake and any other stockpiled material. The area is not stabilized and will require additional measures such as silt-fence to reduce soil runoff in the bare areas.

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Photo: 3

Site Visit Report

Date Taken: 3-31-2021

Photographer: Jason Windhorst

Facility Name/ Project Name: AltEn LLC

Facility IIS number / Project identifier: IIS: 84069 / NE0137634

Location: Area 1 on the site map

Direction Facing: Southwest

Description: The facility has created a septate berm to replace the berm downslope to contain runoff directly from the wetcake. The area to the south of this area has had wetcake moved further north and place behind the berm in the photo. The berm does not appear compacted/consolidated and may be susceptible to seep if fluid levels build up behind the berm.

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Photo: 4

Site Visit Report

Date Taken: 3-31-2021

Photographer: Jason Windhorst

Facility Name/ Project Name: AltEn LLC

Facility IIS number / Project identifier: IIS: 84069 / NE0137634

Location: Area 5 on the site map

Direction Facing: East

Description: This area was pumped earlier this week and has been graded to allow runoff to flow to the east now with minimal runoff collection behind the berm. AltEn indicated that majority of the runoff in this area should flow to area 2 on the site map. The berms will be maintained until further notice.

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Photo: 5

Site Visit Report

Date Taken: 3-31-2021

Photographer: Jason Windhorst

Facility Name/ Project Name: AltEn LLC

Facility IIS number / Project identifier: IIS: 84069 / NE0137634

Location: Area 3 on the site map

Direction Facing: South

Description: Runoff to the northeast in the north wetcake storage area should be pumped before the next precipitation event but is currently stable with no seepage.

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Photo: 6

Site Visit Report

Date Taken: 3-31-2021

Photographer: Jason Windhorst

Facility Name/ Project Name: AltEn LLC

Facility IIS number / Project identifier: IIS: 84069 / NE0137634

Location: Area 6 on the site map

Direction Facing: South

Description: The containment berm adjacent to the wetcake shows some indication that there is seepage, but the second berm constructed below is currently holding with no obvious seepage. The area will be pumped according to AltEn once they acquire more hose or find another way to remove the liquid behind the berms.

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Photo: 6

Site Visit Report

Date Taken: 3-31-2021

Photographer: Jason Windhorst

Facility Name/ Project Name: AltEn LLC

Facility IIS number / Project identifier: IIS: 84069 / NE0137634

Location: Area 6 on the site map

Direction Facing: East

Description: The wet area is the ditch that conveys runoff from AltEn and a small portion of Mead Cattle. This area was impacted by the digester spill in February and shows evidence of filamentous bacteria (white masses). The area along the ditch has a strong acrid odor where liquid is present.

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Photo: 7

Site Visit Report

Date Taken: 3-31-2021

Photographer: Jason Windhorst

Facility Name/ Project Name: AltEn LLC

Facility IIS number / Project identifier: IIS: 84069 / NE0137634

Location: Northeast corner of the southeast lagoon

Direction Facing: Southwest.

Description: The southeast lagoon does not appear to have any significant changes since that last inspection.

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Photo: 8

Site Visit Report

Date Taken: 3-26-2021

Photographer: Jason Windhorst

Facility Name/ Project Name: AltEn LLC

Facility IIS number / Project identifier: IIS: 84069 / NE0137634

Location: Northeast corner of the northeast lagoon

Direction Facing: West.

Description: The Northeast lagoon does not appear to have any significant changes since that last inspection.

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Photo: 8

Site Visit Report

Date Taken: 3-26-2021

Photographer: Jason Windhorst

Facility Name/ Project Name: AltEn LLC

Facility IIS number / Project identifier: IIS: 84069 / NE0137634

Location: Approximately 400' west of the NE corner of the northeast lagoon

Direction Facing: Southeast

Description: Portions of the liner was moving up and down with the wind during high gusts (40 mph).

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Photo: 9

Site Visit Report

Date Taken: 3-31-2021

Photographer: Jason Windhorst

Facility Name/ Project Name: AltEn LLC

Facility IIS number / Project identifier: IIS: 84069 / NE0137634

Location: Northeast corner of the northwest lagoon

Direction Facing: West

Description: The lagoon appears lower since the last site visit.

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Photo: 10

Site Visit Report

Date Taken: 3-31-2021

Photographer: Jason Windhorst

Facility Name/ Project Name: AltEn LLC

Facility IIS number / Project identifier: IIS: 84069 / NE0137634

Location: Approximately 250' south of the NE corner of the northwest lagoon

Direction Facing: Southwest

Description: Whales present in northwest lagoon.

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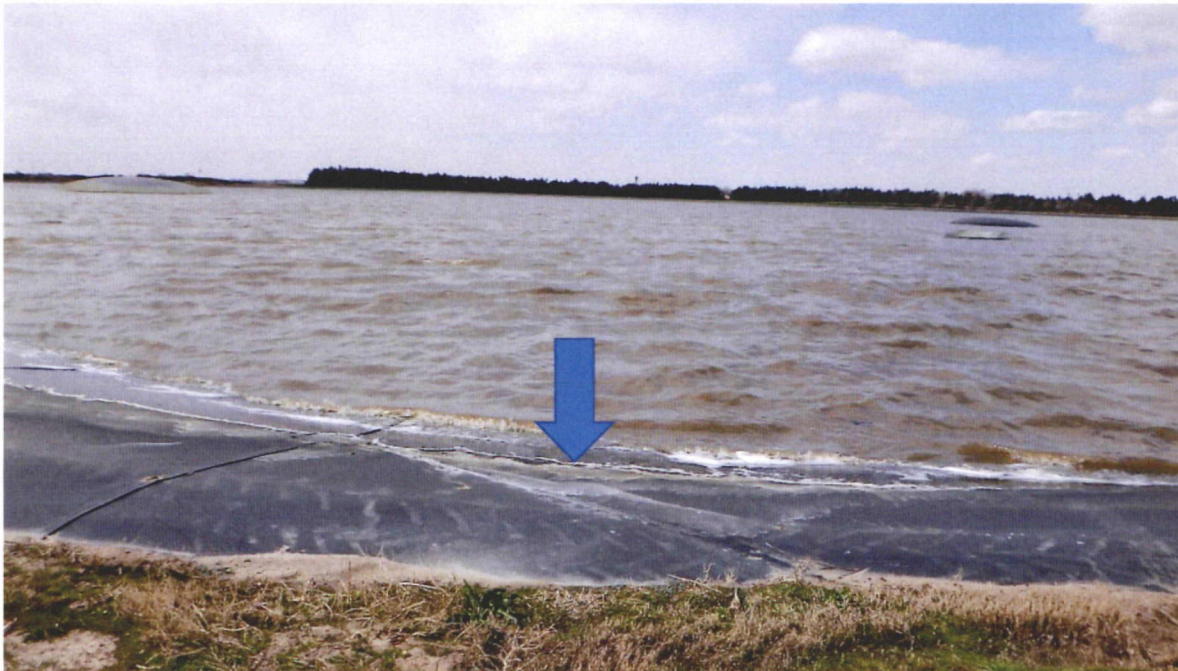


Photo: 11

Site Visit Report

Date Taken: 3-31-2021

Photographer: Jason Windhorst

Facility Name/ Project Name: AltEn LLC

Facility IIS number / Project identifier: IIS: 84069 / NE0137634

Location: Southeast corner of the northwest lagoon

Direction Facing: Northwest

Description: The liner was visibly moving up and down during strong gusts. (arrow).



Photo: 13

Site Visit Report

Date Taken: 3-31-2021

Photographer: Jason Windhorst

Facility Name/ Project Name: AltEn LLC

Facility IIS number / Project identifier: IIS: 84069 / NE0137634

Location: Approximately 275' west of the northeast corner of the southeast lagoon.

Direction Facing: West

Description: Note the density change between both lagoons. The lagoon on the right had periodic whitecaps while the lagoon on the left appears calm.



Photo: 14

Site Visit Report

Date Taken: 3-31-2021

Photographer: Jason Windhorst

Facility Name/ Project Name: AltEn LLC

Facility IIS number / Project identifier: IIS: 84069 / NE0137634

Location: Area 2 on the site map

Direction Facing: North

Description: Recently pumped down containment area.



Photo: 15

Site Visit Report

Date Taken: 3-31-2021

Photographer: Jason Windhorst

Facility Name/ Project Name: AltEn LLC

Facility IIS number / Project identifier: IIS: 84069 / NE0137634

Location: North of Biochar unit

Direction Facing: Southwest

Description: Area being prepped and graded for assembly of the third Poseidon tank directly west of the Biochar area.



Photo: 16

Site Visit Report

Date Taken: 3-31-2021

Photographer: Jason Windhorst

Facility Name/ Project Name: AltEn LLC

Facility IIS number / Project identifier: IIS: 84069 / NE0137634

Location: South of the emergency 6 mil lagoon.

Direction Facing: Southeast

Description: Partial assemble of the second Poseidon tank. High winds were blowing the inside liner around and installation could not be completed.

AltEn LLC - Storm Water Temporary BMP Check Map



Address: 11344 County Road 10, Mead NE
 NDEQ ID: 84069
 Program ID: NE0137634

500 250 0 500 1,000 1,500 2,000
 Feet

Inspection and Assistance Exit Summary

NDEE ID: 84069 NDEE Program & ID: NE0137634/NER410444 NDEE Notification #: _____

☒ Inspection/Other ☐ Compliance Assistance Visit (CAV) ☐ Permit Assistance Visit (PAV)

Facility/Operation Name: A14 En

Address: 11344 CR 10

City/Town: mead, County Savannah, State of Nebraska.

Owner/Occupant/Operator Inspection Contact(s): Scott Tinglehoff

Inspector: Jason Windham Phone No: _____ E-Mail address: @nebraska.gov

Mailing Address: Department of Environment and Energy, PO Box 98922, Lincoln, Nebraska 68509-8922

Inspection Date: 3-31-2021 Start Time: 145 End Time: 3 20

☒ No concerns observed ☐ Further agency discussion needed to determine compliance

☐ Concerns observed:

Area: 1 - Dry & face of wet cake, berm is muddy but no ponding ✓
 2 - recently pumped & berm in good condition ✓
 3 - repaired recently & try to dry area out ✓
 4 - Good condition ✓
 5 - Berm in good condition & area graded to drain east ✓
 6 - Berm holding & no seepage ✓

☐ Actions to be performed immediately or as soon as reasonably practical:

Please notify the Inspector when the above actions are completed.

The Department will provide a final inspection report within an agency average of 14 days of the inspection date. The final inspection report will contain a complete list of any alleged violations. This inspection exit summary does not preclude any other legal action by the Nebraska Department of Environment and Energy and your prompt attention to the documented concerns will be considered in assessment of your voluntary compliance. This summary was left

with: Ken Peterson. Please contact the Inspector if you have any questions concerning this inspection and assistance exit summary.

Jason Windham
Inspector Signature

Ken Peterson
Inspection Contact Signature

revised 11/19/19