

Facility: AltEn, LLC

IIS: 84069

PCS: NE0137634

Mark Pomajzl

5/24/2021

## Site Visit / Sampling Event Report

Weather conditions: Cloudy spotty rain showers

Temperature: 65 F

Wind: South 15-25 (MPH)

Precipitation: 1 inch

### 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 (pumped / <input checked="" type="radio"/> not pumped) |
| 2. Southwest side of the south lagoon            | <input checked="" type="radio"/> Yes | No (pumped / <input checked="" type="radio"/> not pumped) |
| 3. West side of the northwest lagoon             | <input checked="" type="radio"/> Yes | No (pumped / <input checked="" type="radio"/> not pumped) |
| 4. North side of the north wet cake pile         | <input checked="" type="radio"/> Yes | No – No water accumulation                                |
| 5. County Road 10 (Hoop building).               | <input checked="" type="radio"/> Yes | Trenched to Area 2  |
| 6. East wet cake pile                            | <input checked="" type="radio"/> Yes | No (pumped / <input checked="" type="radio"/> not pumped) |

### Comments:

- Area 1 contains two berms. The original east berm contains green water and needs to be pumped to make room for upcoming rain event
- Areas 2: The facility is currently pumping the berm to the emergency lagoon.
- Area 3 is in good condition. No seepage observed.
- Area 4 is in good condition. No seepage observed.
- Area 5 is in good condition. No seepage observed.
- Clean Harbors has finished the berm around the Area 6 pile. No seepage observed. Some totes used to transport water from area 6 are stained with corrosive chemical.

### B. Lagoons (Clean Harbors is not pumping from the lagoons at this time, the treatment facility is at capacity)

- Northeast lagoon
  - No change with the liners. The lagoon is releasing gas in multiple locations.
  - The facility is recirculating water from the pumping station into the northeast lagoon.
  - Vegetation is growing fast around the lagoon. Vegetation is a possible tripping and falling hazard. There appears to be two near floating liner sections (whales).
- Northwest lagoon
  - Vegetation is growing fast.
  - No change in the liners.



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3. South lagoon

- Vegetation is beginning to take over the south and east dike. Vegetation is becoming a tripping and falling hazard.

**C. Biochar**

- Clean Harbors has installed new silt fence. The silt fence does not contain all the spilled biochar product.
- The area continues to contain trash and debris.

**D. Notes**

- × The facility is moving wet cake on the south side of the northwest lagoon, see photos.
- × Vegetation is becoming a problem. I observed an increasing amount of vegetation along the south lagoon dikes.
- × Vegetation is also growing fast along the storm water ditch south of the digester and Biochar Process.

**E. Sampling Event (see photos starting at photo 19)**

- Today I observed Clean Harbors sample from the three onsite Poseidon tanks.
  - Clean Harbors are using Pace Laboratories out of Lenexa Kansas and Pacific AG Laboratory From Sherwood Oregon.
1. Clean Harbors staff sampled each Poseidon tank using a sludge judge. Each tank varied of how many sludge judge draws were used. Tank #1 (East tank) 8 samples, Tank #2 (Middle Tank (9 samples) and Tank #3 (West tank) 12 samples. The sludge judge was not rinsed between tanks.
  2. Clean Harbor employees wore laboratory gloves and proper PPE during the event.
  3. Glass containers were rinsed three times prior to sampling. Each laboratory container was labeled prior to the sampling event.
  4. The samples were placed on ice immediately after sampling.
  5. Clean Harbors sampled TOC for internal use. One sample will be sent to Pace Labs the other will be ran onsite with a TOC X 5 (Hach hot plate) and Hach DR-200. The method does not appear to be EPA approved (according to Hach Methods Quick Reference Guide).
  6. Samples were analyzed for pH after collection. Clean Harbors provided calibration documentation including 4, 7 and 10 (SU) buffers. All are fresh and within expiration dates.



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## Photos



Photo: 1

Site Visit Report

Date Taken: 5-24-21

Photographer: Mark Pomajzl

Facility Name/ Project Name: AltEn LLC

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

Location: Area 1 on the site map

Direction Facing: Northeast

Description: This is the original berm for area 1. The berm is becoming overrun with vegetation.

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Photo: 2

Site Visit Report

Date Taken: 5-24-21

Photographer: Mark Pomajzl

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: This is the original berm for area 1. There is green water behind the berm. There is no signs of seepage.





Photo: 3

Site Visit Report

Date Taken: 5-24-21

Photographer: Mark Pomajzl

Facility Name/ Project Name: AltEn LLC

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

Location: Area 2 on the site map

Direction Facing: Southwest

Description: This photo depicts water accumulation. Water drains areas west which includes Area 5. Area 5 contains a trench that conveys water to area 2.



Photo: 4

Site Visit Report

Date Taken: 5-24-21

Photographer: Mark Pomajzl

Facility Name/ Project Name: AltEn LLC

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

Location: Area 3 on the site map

Direction Facing: West

Description: This photo depicts water accumulation. The water outside the berm is pooled rain water.





Photo: 5

Site Visit Report

Date Taken: 5-24-21

Photographer: Mark Pomajzl

Facility Name/ Project Name: AltEn LLC

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

Location: Area 4 on the site map

Direction Facing: East

Description: This photo depicts the new compacted berm. Area four connects to area 5, which is depicted in the next photo.

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Photo: 6

Site Visit Report

Date Taken: 5-24-21

Photographer: Mark Pomajzl

Facility Name/ Project Name: AltEn LLC

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

Location: Area 4 on the site map

Direction Facing: East

Description: This photo depicts the connection between area 4 and 5.





Photo: 7

Site Visit Report

Date Taken: 5-24-21

Photographer: Mark Pomajzl

Facility Name/ Project Name: AltEn LLC

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

Location: Area 5 on the site map

Direction Facing: North

Description: This photo depicts the area 5 berm. There are no signs of seepage.



Photo: 8

Site Visit Report

Date Taken: 5-24-21

Photographer: Mark Pomajzl

Facility Name/ Project Name: AltEn LLC

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

Location: Area 6 on the site map

Direction Facing: North

Description: There is no signs of seepage.





Photo: 9

Site Visit Report

Date Taken: 5-24-21

Photographer: Mark Pomajzl

Facility Name/ Project Name: AltEn LLC

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

Location: Area 6 on the site map

Direction Facing: North

Description: There is no signs of seepage.



Photo: 10

Site Visit Report

Date Taken: 5-24-21

Photographer: Mark Pomajzl

Facility Name/ Project Name: AltEn LLC

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

Location: Equalization pipe between the northeast and south lagoon.

Direction Facing: North

Description: There is no change.





Photo: 11

Site Visit Report

Date Taken: 5-24-21

Photographer: Mark Pomajzl

Facility Name/ Project Name: AltEn LLC

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

Location: Northwest lagoon

Direction Facing: East

Description: Depth gauge



Photo: 12

Site Visit Report

Date Taken: 5-24-21

Photographer: Mark Pomajzl

Facility Name/ Project Name: AltEn LLC

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

Location: Equalization pipe between the northeast and northwest lagoon.

Direction Facing: East

Description: No change





Photo: 13

Site Visit Report

Date Taken: 5-24-21

Photographer: Mark Pomajzl

Facility Name/ Project Name: AltEn LLC

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

Location: Northeast lagoon

Direction Facing: South

Description: There appears to be new whales on the northeast lagoon.



Photo: 14

Site Visit Report

Date Taken: 5-24-21

Photographer: Mark Pomajzl

Facility Name/ Project Name: AltEn LLC

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

Location: South lagoon

Direction Facing: Southwest

Description: This is the south lagoon depth gauge.





Photo: 15

Site Visit Report

Date Taken: 5-24-21

Photographer: Mark Pomajzl

Facility Name/ Project Name: AltEn LLC

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

Location: Northeast lagoon

Direction Facing: Northwest

Description: This is the northeast lagoon depth gauge.



Photo: 16

Site Visit Report

Date Taken: 5-24-21

Photographer: Mark Pomajzl

Facility Name/ Project Name: AltEn LLC

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

Location: Biochar

Direction Facing: Southwest

Description: The facility has not installed BMPs.





Photo: 17

Site Visit Report

Date Taken: 5-24-21

Photographer: Mark Pomajzl

Facility Name/ Project Name: AltEn LLC

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

Location: Biochar

Direction Facing: Southwest

Description: Clean Harbors is process of moving soil and wet cake to the west location. This is being done to make room for additional Poseidon Tanks.



Photo: 18

Site Visit Report

Date Taken: 5-24-21

Photographer: Mark Pomajzl

Facility Name/ Project Name: AltEn LLC

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

Location: Hoop Buildings

Direction Facing: Southeast

Description: This photo depicts the heavy equipment Clean Harbors is using to move soil and wet cake.





Photo: 19

Site Visit Report

Date Taken: 5-24-21

Photographer: Mark Pomajzl

Facility Name/ Project Name: AltEn LLC

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

Location: East Poseidon tank

Direction Facing: Northeast

Description: This photo depicts the sludge judge used to collect samples. The sampler places the tube straight down of the platform until it reaches the bottom.

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Photo: 20

Site Visit Report

Date Taken: 5-24-21

Photographer: Mark Pomajzl

Facility Name/ Project Name: AltEn LLC

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

Location: East Poseidon tank

Direction Facing: Northeast

Description: After the tube reaches the bottom it is removed with a solid column of water as depicted here and photo 21.



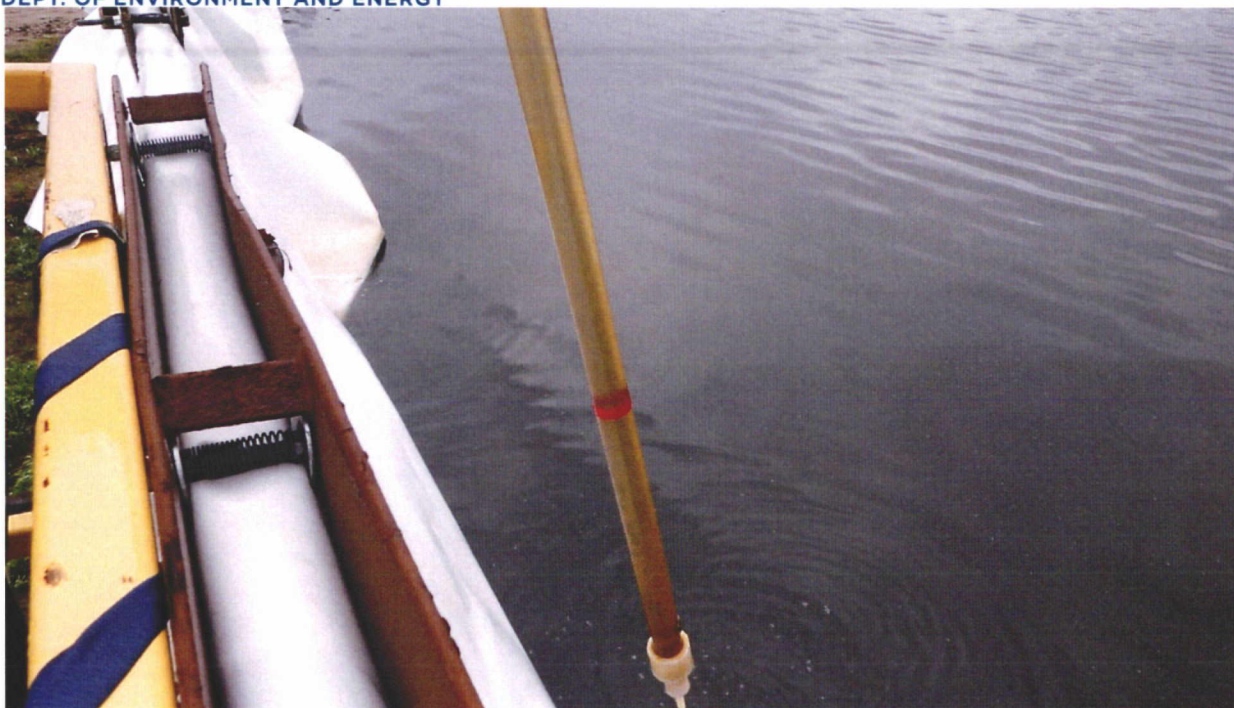


Photo: 21

Site Visit Report

Date Taken: 5-24-21

Photographer: Mark Pomajzl

Facility Name/ Project Name: AltEn LLC

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

Location: East Poseidon tank

Direction Facing: Northeast

Description: This photo depicts after collection. The sampler then takes the column and transfers water into a collection vessel. All samples are collected the same and composted in the same vessel.



Photo: 22

Site Visit Report

Date Taken: 5-24-21

Photographer: Mark Pomajzl

Facility Name/ Project Name: AltEn LLC

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

Location: East Poseidon tank

Direction Facing: Northeast

Description: This photo depicts the sampler transfer a sample into the collection vessel. The samples were collected and composited with the same technique.



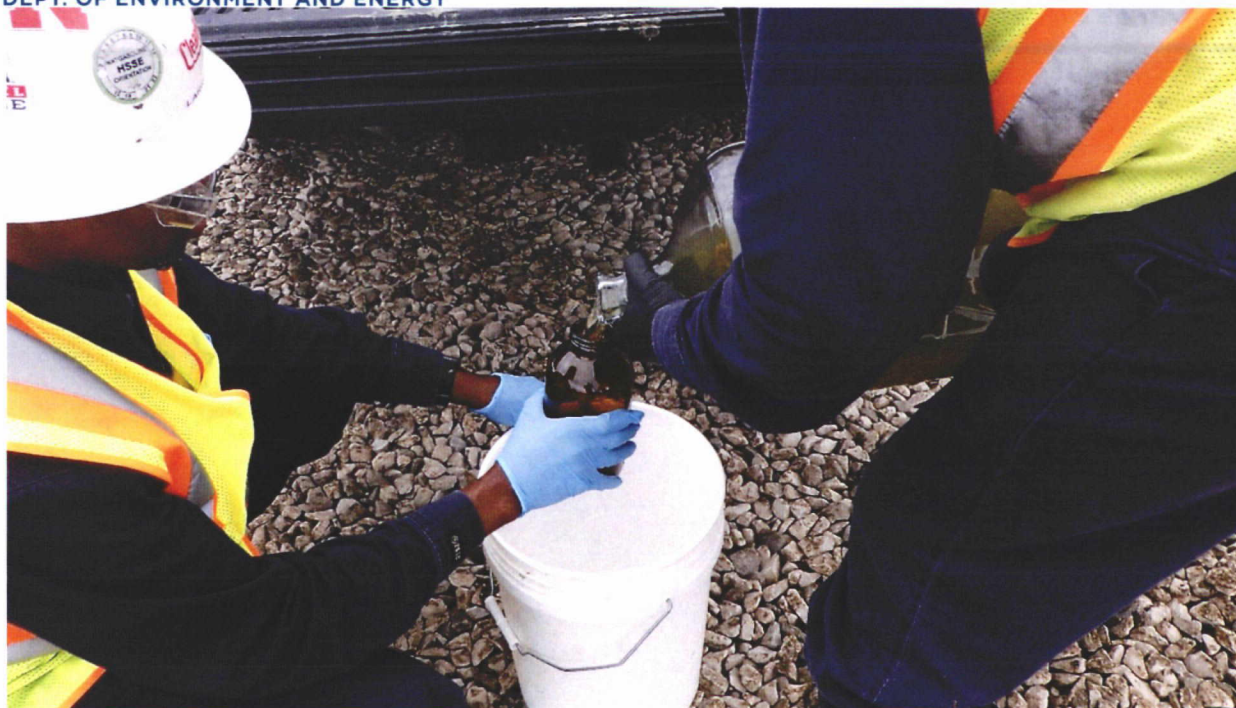


Photo: 23

Site Visit Report

Date Taken: 5-24-21

Photographer: Mark Pomajzl

Facility Name/ Project Name: AltEn LLC

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

Location: Near the Clean Harbors lab

Direction Facing: East

Description: This photo depicts samplers transferring water into sample bottles.



Photo: 24

Site Visit Report

Date Taken: 5-24-21

Photographer: Mark Pomajzl

Facility Name/ Project Name: AltEn LLC

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

Location: Near the Clean Harbors lab

Direction Facing: South

Description: This photo depicts samplers transferring water into sample bottles.





Photo: 25

Site Visit Report

Date Taken: 5-24-21

Photographer: Mark Pomajzl

Facility Name/ Project Name: AltEn LLC

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

Location: Near the Clean Harbors lab

Direction Facing: East

Description: This photo depicts samplers placing filled sample bottles into bags in preparation of sending to the laboratory.



Photo: 26

Site Visit Report

Date Taken: 5-24-21

Photographer: Mark Pomajzl

Facility Name/ Project Name: AltEn LLC

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

Location: Near the Clean Harbors lab

Direction Facing: East

Description: This photo depicts the samples collected today. Left to right is east, middle and west Poseidon tanks.





Photo: 27

Site Visit Report

Date Taken: 5-24-21

Photographer: Mark Pomajzl

Facility Name/ Project Name: AltEn LLC

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

Location: Near the Clean Harbors lab

Direction Facing: East

Description: This photo depicts a Clean Harbors worker packing samples in ice and preparing for shipment.



Photo: 28

Site Visit Report

Date Taken: 5-24-21

Photographer: Mark Pomajzl

Facility Name/ Project Name: AltEn LLC

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

Location: Near the Clean Harbors lab

Direction Facing: South

Description: This photo depicts a cooler, ice and samples ready to ship to the laboratories.





Photo: 29

Site Visit Report

Date Taken: 5-24-21

Photographer: Mark Pomajzl

Facility Name/ Project Name: AltEn LLC

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

Location: Near the Clean Harbors lab

Direction Facing: East

Description: This photo depicts Clean Harbors personnel dumping left over sampling into the sludge holding tank. The tank is connected to treatment.



Photo: 30

Site Visit Report

Date Taken: 5-24-21

Photographer: Mark Pomajzl

Facility Name/ Project Name: AltEn LLC

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

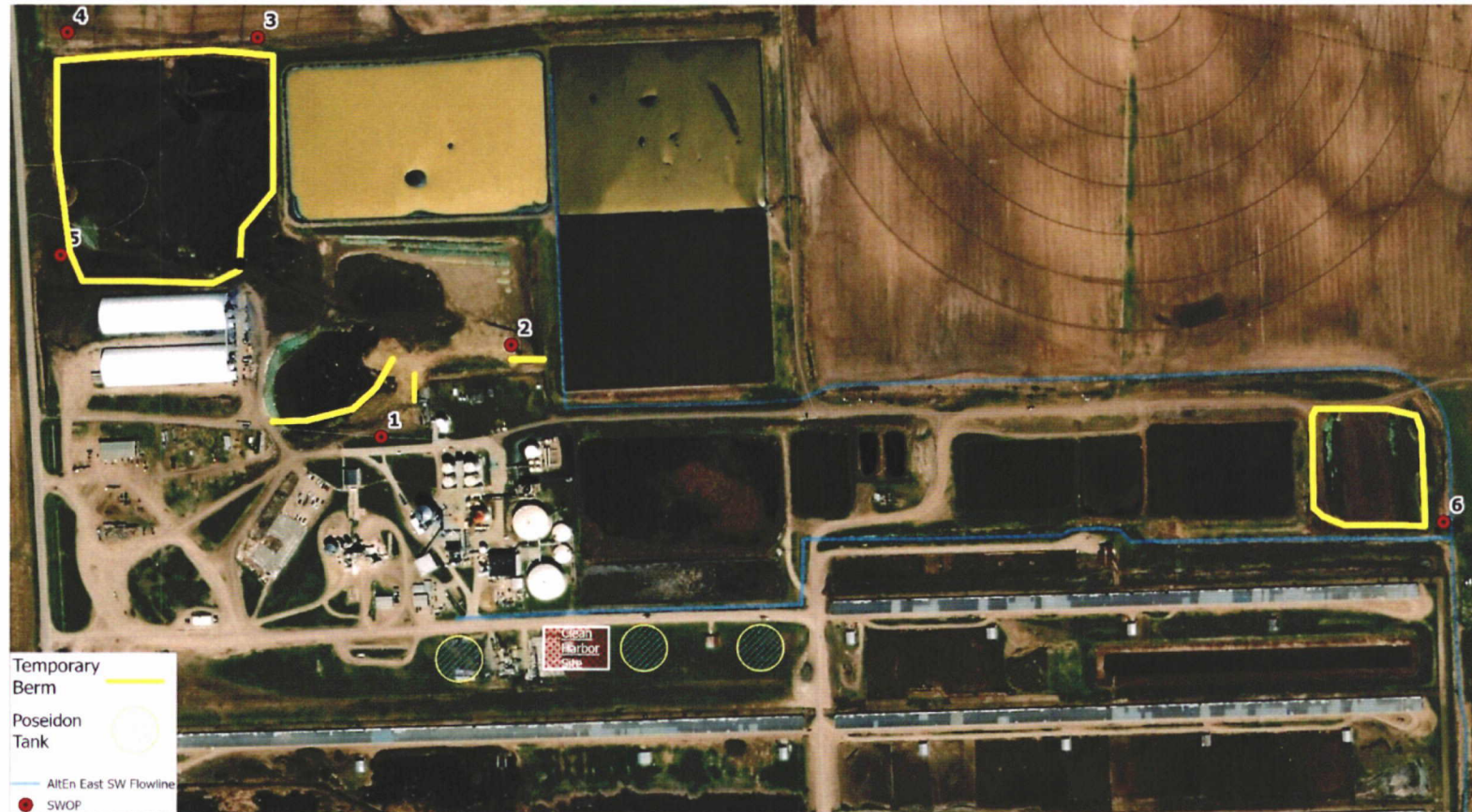
Location: Area 6 on the site map

Direction Facing: Southwest

Description: This photo depicts corrosive chemical staining a chemical tote used to transfer water from area 6.



## AltEn LLC - Storm Water Temporary BMP Check Map



Temporary  
Berm

Poseidon  
Tank

AltEn East SW Flowline

SWOP

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: <u>84069</u>	NDEE Program & ID: <u>NE0137634</u>	NDEE Notification #: _____
Inspection/Other: <u>yes</u>	Compliance Assistance Visit (CAV) no: _____	Permit Assistance Visit (PAV) no: _____
Facility/Operation Name: <u>AltEn, LLC</u>		
Address: <u>11344 County Road 10</u>		
City/Town: <u>Mead</u>	County: <u>Saunders</u>	
Owner/Occupant/Operator Inspection Contact (S): <u>Scott Tingelhoff/Mary Tingelhoff</u>		

Inspection Date: 5-24-21 Start Time: 9:20 am End time: 1:40 pm  
 Inspector: Mark Pomajzl Phone #: 1-402-471-2936 Email Address: mark.pomajzl@nebraska.gov

Concerns observed: \_\_\_\_\_ Further Agency discussion needed to determine compliance: none

Observations: X

Comments:

Area 1 - Ok  
 Area 2 - Ok  
 Area 3 - OK  
 Area 4 - OK  
 Area 5 - OK  
 Area 6 - OK

x The Biochar area continues to have spilled product, trash and debris. The facility has not installed best management practices (BMPs).

x Vegetation is growing fast around the south and northeast lagoon. I could not visually inspect transfer hoses.

x I observed Clean Harbors sample from the three onsite Poseidon tanks.

Lagoons - No change

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

- Clean the biochar area and install proper BMPs
- Manage vegetation around the lagoons and the main facility.



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**Please notify the inspector when the above actions are completed.**

The Department will provide the 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 of the documented concerns will be considered in assessment of your voluntary compliance the summary was left with Email. Please contact your inspector if you have any questions concerning this inspection and assistance exit summary.

Singing this document is not an admission of liability by the facility.

Inspector: Mark Pomajzl

Inspection Contact Signature: 