

MEMORANDUM

DATE: March 08, 2021
TO: AltEn, LLC.
THRU: Brad Pracheil
FROM: Alan Aanerud
RE: NPDES Site Visit, Aerial Photography

FACILITY ID: 84069

On March 08, 2021 at approximately 1215 hours, Alan Aanerud, Brandon Beethe and Dane Pauley arrived at AltEn for a scheduled drone flight over their property. We met with Dean Egr of AltEn at the main office, signed in and informed Dean that we would be on site for approximately 2 hours. After stating that we would be flying a drone over the property to photograph the spill site and drainage areas Dean gave us permission to conduct those activities.

Both flights were piloted by Dane Pauley after performing our preflight check of the equipment. The first flight started at 1235 hours near the center of the property which allowed for the observers, Alan and Brandon to maintain a visual line of sight during the entirety of the flight. Photography began at the spill site located on the south side of the southern digester. The flight continued east along the discharge stream to the southeast corner of the AltEn property.

The second flight started at 1320 hours from the southeast corner of the AltEn property just west of 9th street and followed the stream south to the corner of 9th street and County Road J. At this corner it was observed pumping of fluid out of creek into pipes running north back to facility.

A total of 2 missions were flown that day covering the spill site and discharge stream at AltEn and also the creek running south off the property. All flights were recorded in paper flight logs and on the Kittyhawk application. NDEE staff concluded the flights and left AltEn property at approximately 1425 hours.

Video Log

DJI_0783 – Preflight prep
798 – Flight from digester headed east along channel
799 – Stream channel looking east headed east
804 – Wet cake pile on the east side of property, started in SE corner and flew around pile
806 – Stream channel on east side of property looking south headed south
807 – Continued stream channel on east side of property headed south
811 – Stream channel from corner of 9th Street and County Rd J looking north
815 – Stream channel from corner of 9th Street and County Rd J heading north

Picture Log

DJI_784 – West side of Mead cattle company lagoons looking west
785 – Overview picture looking northwest
786 – West side of Mead cattle company lagoons looking east
787 – East side AltEn facility looking west
788 – Spill site looking south
789 – Spill site looking southwest
790 – Spill site looking north
791 – Spill site looking east
792 – Spill site looking down
793 – South of spill site looking north
794 – Looking north at facility from spill site
795 – Looking northwest at facility from spill site
796 – Looking west from south of spill site
800 – Looking down at spill site



- 801 – East side of property looking west over east wet cake piles
- 802 – Southeast corner of east wet cake pile looking northwest
- 803 – East side berm on east wet cake pile looking north
- 805 – Far east side of east wet cake pile, looking southwest
- 808 – Pump at corner of 9th Street and County Rd J, looking east
- 809 – Another picture of pump looking east
- 810 – Looking down on pump
- 812 – Creek channel by pump looking north
- 813 – East side of property looking north
- 814 – Pump site looking east

Attachments:

Attachment A: Locations on property

Date: 3/08/2021

Alan Aanerud, Program Specialist

ATTACHMENT A

Arial image(google earth) of AltEn property flown by NDEE staff 3/08/2021

The AltEn property and locations of the spill site and stream location.

















































