

MEMORANDUM

DATE: May 17, 2021
TO: AltEn, LLC.
THRU: Brad Pracheil
FROM: Dane Pauley
RE: NPDES Site Visit, Aerial Photography

FACILITY ID: 84069

On May 17, 2021 at approximately 1000 hours, Dane Pauley, Lindsey Hollmann and Mark Pomajzl arrived at AltEn for a scheduled drone flight over their property. We signed in at the AltEn main office.

All flights were piloted by Dane Pauley after performing our preflight check of the equipment. The first flight started at 1025 hours near the east side of the property which allowed for the observers to maintain a visual line of sight during the entirety of the flight. Photography began at the east wet cake pile located on the east side of the property.

The second flight started at 1125 hours from the center of the 3 lagoons. Each lagoon was flown and recorded. Pictures were taken at points of concern.

The third flight started at 1215 hours from the northwest side of the property. The west wet cake piles were observed during this flight.

The fourth flight started at 1340 hours from the center of the property. This flight observed the large holding tanks in the middle of the property and the biochar.

A total of 4 missions were flown that day covering the wet cake piles, lagoons and large holding tanks. All flights were recorded in paper flight logs and on the Kittyhawk application. NDEE staff concluded the flights and left AltEn property at approximately 1400 hours.

Video Log

DJI_0107 – Northwest lagoon perimeter flight
115 – Northeast lagoon perimeter
116 – Southeast lagoon perimeter
117 – Flight over Northeast lagoon looking at rips
131 – Berm along wet cake pile just south of lagoons
137 – Berm around west wet cake piles
157 – West Clean Harbor holding tank
159 – Biochar and looking south
161 – East and middle Clean Harbor holding tanks
164 – Looking south over the holding tanks
165 – Emergency lagoon
891 – East wet cake piles
892 – East wet cake pile

Picture Log

DJI_108 – Damaged pond liner in northwest lagoon
109 – Northwest lagoon pond level looking west
110 – Northwest lagoon looking south over wet cake
111 – Northwest lagoon looking southeast over wet cake
112 – Northwest corner of northwest lagoon looking southeast
113 – Northeast corner of west wet cake pile looking southwest
114 – Pipe between northwest and northeast lagoons looking east
118 – Liner tear on north side of northeast lagoon looking north
119 – Liner on north side of northeast lagoon looking north



120 - Liner tear on north side of northeast lagoon looking north
121 - Liner tear on north side of northeast lagoon looking north zoomed in
122 - Liner tear on north side of northeast lagoon looking northwest zoomed in
123 - Northeast lagoon liner tear in middle of lagoon
124 - Northeast lagoon liner tear in middle of lagoon
125 - Northeast lagoon liner tear in middle of lagoon
126 - South side of northwest lagoon looking south
127 - West side of Southeast lagoon looking west
128 - West side of Southeast lagoon looking west zoomed in
129 - Berm on the south side of wet cake pile south of the lagoons
130 - Berm on the south side of wet cake pile south of the lagoons
132 - Center wet cake pile looking northeast from southwest corner
133 - Center wet cake pile looking northeast from southwest corner
134 - Center wet cake pile looking west
135 - Southeast corner of west wet cake pile looking west
136 - Southeast corner of west wet cake pile looking north
138 - Southeast corner of west wet cake pile looking east
139 - Southeast corner of west wet cake pile looking north
140 - Southeast corner of west wet cake pile looking west
141 - Southeast corner of west wet cake pile looking north
142 - Northeast corner of west wet cake pile looking southwest
143 - Northeast corner of west wet cake pile looking west
144 - North center of west wet cake pile looking south
145 - North center of west wet cake pile looking south
146 - Northwest corner of west wet cake pile looking south
147 - Northwest corner of west wet cake pile looking east
148 - Northwest corner of west wet cake pile looking southeast
149 - Southwest corner of west wet cake pile looking east
150 - Southwest corner of west wet cake pile looking north
151 - Southwest corner of west wet cake pile looking northeast
152 - Southwest corner of west wet cake pile looking north
153 - Southwest corner of west wet cake pile looking northeast
154 - Southwest corner of west wet cake pile looking north
155 - West Clean Harbor holding tank looking south
156 - West Clean Harbor holding tank and Biochar looking south
158 - Center of west Clean Harbor holding tank looking east
160 - Middle Clean Harbor holding tank looking east
162 - Emergency lagoon looking northwest
163 - Emergency lagoon looking northeast
166 - Middle Clean Harbor holding tank looking south
167 - Emergency Lagoon looking southwest
168 - West Clean Harbor holding tank looking southwest
169 - Birchar looking south
885 - Northeast corner of east wet cake looking southwest
886 - Northeast corner of east wet cake looking south
887 - North side of east wet cake pile looking south
888 - Northwest corner of east wet cake looking south
889 - Northwest corner of east wet cake looking south, just above berm
890 - Northwest corner of east wet cake looking southeast, just above berm
893 - Southeast corner of east wet cake pile
894 - Southeast corner of east wet cake pile from middle
895 - Southeast corner of east wet cake pile from east side
896 - East of east wet cake pile looking west
897 - East of east wet cake pile looking west, just above ground height
898 - East of east wet cake pile looking west, just above ground height
899 - East of east wet cake pile looking northwest, just above ground height

































































































































