

To: File

Through: Jeff Edwards, Compliance Unit Supervisor, Waste Management Section *JE*

From: Jason Holsten, Program Specialist II, Waste Management Section *JH*

Date: March 4, 2019

RE: Notification of Environmental Concern (NEC) #022619-KM-1735
AltEn, LLC
1344 County Road 10
Mead, NE 68041

NDEQ ID: 84069

The Department received numerous complaints against AltEn, LLC between the time period February 19, 2019 and February 26, 2019. Approximately 16 complaints were received on February 22 and another five were received on February 26. All of the complaints received basically alleged that AltEn was spreading material (WDG) on area farm fields and that the material being spread had an offensive odor.

I telephoned AltEn on the morning of February 27 to inquire if they have been land applying the wet cake (WDG/wet distiller's grain) and to inform them that I was going to come up later in the day to investigate the most recent round of complaints. Scott Tingelhoff was unavailable so I discussed the complaints with Dean Egr. Mr. Egr confirmed that WDG was being hauled to area fields and was most recently hauled on February 22. He believed everything would be buried under the recent snow the area received (approx. 10 inches). He said both old and new WDG were being hauled depending on the soil type. He acknowledged that the older stuff smelled when it was stirred up and spread onto the fields. I asked him to gather a list of fields where WDG had been delivered to for the week of February 18. He said he would have to contact Settje Agri-Services (Settje). We agreed to meet at his office between 12:30 and 1:00 p.m.

I arrived at AltEn at approximately 12:30 p.m. I met with Mr. Egr as well as Scott Tingelhoff and Mary Tingelhoff. I discussed the numerous complaints received by the Department. Mr. Egr handed me a packet of information (Attachment I). The packet contained certificates of analysis for "new cake" and "old cake" from SGS North America with a report date of October 10, 2018. Also included with the packet was a list of property where the wet cake was land applied as well as nutrient analysis from Midwest Laboratories on four different piles of wet cake; "new pile," "old," "new fresh out of barn," and "new aged 6 months or less." Mr. Egr explained that the list of properties included fields where WDG was taken to from January 1, 2019, up to today's date. He said WDG had been hauled and

spread onto fields as late as February 26. I asked him and Mr. Tingelhoff if they could include the parcel ID on future property lists as that was easier to search for on the assessor's website. They said they could start doing that.

Facility representatives explained that the certificates of analysis were analytical tests for pesticides that the seed corn was treated with. Mr. Tingelhoff said analysis showed non-detect for all analytes for both samples. A review of the analysis confirmed that all results reported were "N.D." Mr. Tingelhoff made a claim of confidentiality concerning the analytical results. I explained the process of making a claim to him and said I did not have a copy of Title 115, Chapter 4, Confidentiality for Trade Secrets, but that I would send him a copy when I returned to the office. I did so on February 28. Subsequently, Mr. Tingelhoff withdrew his confidentiality claim for the analytical reports in an email sent on March 4, 2019 (Attachment II).

Mr. Tingelhoff explained that the facility may sample for residual chemicals in the WDG once a year. He also commented on how the process doesn't change so he's unsure if there's a need to conduct additional sampling. I encouraged him to conduct annual sampling and directed him to the facility's approved composting operating permit application, Section C. Operational Criteria, Item 15. Chemical Analysis (p.19). I pointed out the last paragraph of that section and told him I believed annual chemical analysis may be required. I said I would have to find out if this was only applicable if the WDG was being composted or if it applied regardless. Subsequent to the site visit, I spoke with Michael Behrens, NDEQ Permit Writer, concerning this issue. After reviewing item 15, he believed it would apply if/when the WDG was going to be composted.

Facility representatives explained that nutrient analysis of the WDG was taken approximately once a month. They also explained that AltEn personnel collected the samples for analysis with assistance from Settje while Settje handled getting the samples analyzed. It is unknown if they were talking about both types of samples; those taken for nutrient analysis and chemical analysis. Chris Reimers is the Settje representative that the facility works with.

Facility representatives also wanted to point out that Mead Cattle is applying manure in the area and thought maybe some of the complaints could be related to their activities. They believed manure was being land applied straight east of Wahoo and didn't think the manure was being incorporated into the ground since it was frozen. They also informed me that they are working on finding a 3rd party to remove the bags of starch located west of the office building. They said the starch was too wet to be used at the facility and hoped to have a decision on the 3rd party within the next few weeks. They do have other starch being stored on site and said they were running starch in their ethanol production process right now.

I asked if they could drive me around to the fields where the WDG was recently hauled and/or land applied. I was especially interested in observing any fields that had WDG land applied on February 22 as well as any locations that may have contributed to the odor complaints from the medical center. I asked what fields may be nearest the medical center that could possibly be the source of the complaint. Mr. Egr said there was a location 2 miles north where WDG was taken to on February 22 as well as a place 3 miles northwest in which WDG was hauled to three weeks ago. Mr. Egr thought maybe the WDG spread on Divis ground on February 22, close to Mead, may have caused quite a few of the complaints.

Mr. Tingelhoff drove while Mr. Egr navigated us to the fields where the WDG had recently been taken to. Joining us was Mrs. Tingelhoff.

Before we drove to the area fields, I asked Mr. Tingelhoff to take us to the compost pad so I could verify that it was empty. While we were proceeding to the pad we drove by the area where Biochar operations occur and cubic yard sacks (bags) of Biochar were observed being stored (Photograph 1). Mr. Tingelhoff said the facility wasn't currently producing Biochar because they were waiting on a SIMS unit as required by the Air Section. Facility representatives estimated there were approximately 100 bags on site. I asked if they had a market to sell the Biochar. They said a market hasn't been established yet. If necessary, the Biochar could be land applied.

After arriving at the compost pad, we drove the length of the pad to the west end where more WDG was being stored. WDG was also being stored north of the main office and hoop buildings. For the most part, although snow covered, the pad appeared to be mainly empty. I did observe four small rows of material on what appeared to be the furthest west pad (Photographs 2 & 3). Mr. Egr said two rows were WDG mixed with Biochar while the other two rows were WDG only. Mr. Egr explained that the facility was conducting some tests to see if they could help control odors coming from the WDG. Mr. Tingelhoff made a comment that they have 70 employees at the facility and he has not received any complaints from them concerning the WDG and odors bothering them.

We then left the facility and drove to some of the various fields on the list provided by Mr. Egr. This included those the facility thought may have contributed to the odor complaints coming from the medical center. As we drove to the first site, I asked for clarification on how WDG was delivered to the field and spread onto the field. Facility representatives explained that AltEn loads trucks to haul the WDG. They receive a handling fee for the WDG from the farmer. Settje is responsible for lining up the hauler as well as the company spreading the WDG. In some instances, the farmer may spread the WDG. The farmer is responsible for the cost of hauling and spreading as well as the cost for testing their soil. Facility representatives commented that the Agronomist says the WDG is good stuff and has good nutrients.

The following observations were made at each location visited. Locations listed below were identified on the list provided by Mr. Egr and are listed in the order in which they were observed on February 27.

John Divis The Y - The area was snow covered. There were piles of WDG observed (Photograph 4). Facility representatives said WDG was spread February 22, which would have been before the snowfall that weekend (February 23/24).

John Divis City of Wahoo - Facility representatives said WDG was hauled to this location 3-4 weeks ago and consisted of older stuff. Mr. Egr said the piles of WDG observed were delivered to the wrong area and should have been delivered to the north side of the tree line observed in the photograph (Photograph 5). Mr. Egr said the City of Wahoo owns the land.

Larry Cuda Property - Mr. Egr believed Mr. Cuda owned this property and Mr. Divis

leased it for farming. There were piles of WDG observed (Photograph 6). This property was located a couple of miles west northwest of the medical center.

John Divis Rita 80 – This property was located east northeast of the airport and WDG had recently been spread onto the field (Photograph 7). Piles of WDG, along with spreading equipment, were still located at the field (Photograph 8-10). Mr. Tingelhoff called Mr. Reimers who said the WDG had been spread on February 26. While taking photographs at the site, an odor was present but I did not find it to be offensive. Subsequent to the complaint investigation, a review of weather data from the National Weather Service, specifically wind direction, noted the wind was out of the northeast at 5-15 mph on February 26 (Attachment III). This was the same day that NDEQ received quite a few complaints from employees working at the Saunders County Medical Center. The center is located outside of Wahoo, on the southwest edge of town. It is possible that given the wind direction, any odors from the WDG may have impacted some individuals working at the medical center.

John Divis Airport - This property was located east of the airport. Fresh piles of WDG were being delivered to the area and were still steaming (Photograph 11). Facility representatives said the WDG would be spread after the other field (John Divis Rita 80) was completed.

After visiting the above listed field locations we returned to AltEn. I departed the facility at approximately 2:20 p.m. and headed to the medical center to discuss the complaints received by the Department with those from the medical center who filed them. I spoke with Jordan Buresh who was one of the individuals who filed a complaint with the NDEQ. No other individuals who filed a complaint were available. I discussed the results of my complaint investigation and provided her a business card. I said given the wind direction and areas where WDG was being spread, this may have impacted the center. I told her this was an odor problem and unfortunately the Department does not regulate odors. I encouraged her to share my contact information with her co-workers and asked that they contact me should they have any questions and/or concerns.

Later that afternoon, on February 27, Mr. Tingelhoff left me a message and said he found out that on Friday, February 22, Mead Cattle was applying or knifing in manure at a location just east of the hospital. He wondered if this contributed to the odor complaints.

Attachment I – Packet of Information Provided by Dean Egr

Attachment II – 3/4/19 Email from Scott Tingelhoff to Jason Holsten Re: Claim of Confidentiality

Attachment III – National Weather Service Weather Observations for 2/24 – 2/27

Attachment IV – Photographs

ATTACHMENT I

Packet of Information Provided by Dean Egr

(16 pages)

Certificate of Analysis



Certificate Number: 18-016502

Report Date: October 10, 2018

Client:

Settje Agri-Services Engineering
15460 NM 48th St.
Raymond, NE 68428

Sample Information:

SGS Sample Identification: MW18-10496.002
Client Sample Identification: SETTJE AGRICULTURAL SERVICES - NEW CAKE
Sample Description: MANURE/DISTILLERS
Received: September 28, 2018
Sample/Product Type: Undefined Product

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Analysis	Result	Units	L.O.Q.	Method
Acetochlor	N.D.	mg/kg	10	GC-QQQ
Alachlor	N.D.	mg/kg	10	GC-QQQ
Aldrin	N.D.	mg/kg	10	GC-QQQ
Atrazine	N.D.	mg/kg	1	GC-QQQ
Benfluralin	N.D.	mg/kg	10	GC-QQQ
BHC-alpha (benzene hexachloride)	N.D.	mg/kg	1	GC-QQQ
BHC-beta	N.D.	mg/kg	1	GC-QQQ
BHC-delta	N.D.	mg/kg	1	GC-QQQ
BHC-gamma	N.D.	mg/kg	1	GC-QQQ
Bifenthrin	N.D.	mg/kg	1	GC-QQQ
Bitertanol I	N.D.	mg/kg	10	GC-QQQ
Bitertanol II	N.D.	mg/kg	10	GC-QQQ
Boscalid	N.D.	mg/kg	10	GC-QQQ
Bromopropylate	N.D.	mg/kg	10	GC-QQQ
Butachlor	N.D.	mg/kg	10	GC-QQQ
Butralin	N.D.	mg/kg	10	GC-QQQ
Butylate	N.D.	mg/kg	1	GC-QQQ
Carbophenothion	N.D.	mg/kg	10	GC-QQQ
Carboxin	N.D.	mg/kg	20	GC-QQQ
Carfentrazone-ethyl	N.D.	mg/kg	10	GC-QQQ
Chlordane-cis (alpha)	N.D.	mg/kg	10	GC-QQQ
Chlordane-oxy	N.D.	mg/kg	20	GC-QQQ
Chlordane-trans (gamma)	N.D.	mg/kg	10	GC-QQQ
Chlorfenvinphos	N.D.	mg/kg	1	GC-QQQ
Chlorobenzilate	N.D.	mg/kg	1	GC-QQQ
Chlorothalonil	N.D.	mg/kg	10	GC-QQQ
Chlorpyrifos	N.D.	mg/kg	10	GC-QQQ
Chlorpyrifos-methyl	N.D.	mg/kg	1	GC-QQQ
Clodinafop-propargyl	N.D.	mg/kg	10	GC-QQQ

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Analysis	Result	Units	L.O.Q.	Method
Clomazone	N.D.	mg/kg	1	GC-QQQ
Cloquintocet-mexyl	N.D.	mg/kg	10	GC-QQQ
Cyfluthrin I	N.D.	mg/kg	10	GC-QQQ
Cyfluthrin II	N.D.	mg/kg	10	GC-QQQ
Cyfluthrins (total)	N.D.	mg/kg	10	GC-QQQ
Cyhalothrin (Gamma)	N.D.	mg/kg	1	GC-QQQ
Cyhalothrin (lambda)	N.D.	mg/kg	10	GC-QQQ
Cypermethrin II	N.D.	mg/kg	10	GC-QQQ
Cypermethrin I (Zeta)	N.D.	mg/kg	10	GC-QQQ
Cyprodinil	N.D.	mg/kg	10	GC-QQQ
DCPA (Dacthal, Chlorthal-dimethyl)	N.D.	mg/kg	1	GC-QQQ
DDD-o,p'	N.D.	mg/kg	1	GC-QQQ
DDD-p,p'	N.D.	mg/kg	10	GC-QQQ
DDE-p,p'	N.D.	mg/kg	1	GC-QQQ
DDT-o,p'	N.D.	mg/kg	10	GC-QQQ
DDT-p,p'	N.D.	mg/kg	10	GC-QQQ
Deltamethrin	N.D.	mg/kg	20	GC-QQQ
Diazinon	N.D.	mg/kg	1	GC-QQQ
Diclofop-methyl	N.D.	mg/kg	1	GC-QQQ
Dicloran (Dichloran)	N.D.	mg/kg	10	GC-QQQ
Dieldrin	N.D.	mg/kg	10	GC-QQQ
Difenoconazole I	N.D.	mg/kg	1	GC-QQQ
Dimethenamid	N.D.	mg/kg	1	GC-QQQ
Dimethenamid-P	N.D.	mg/kg	1	GC-QQQ
Dimethomorph I	N.D.	mg/kg	1	GC-QQQ
Dimethomorph II	N.D.	mg/kg	10	GC-QQQ
Dinitramine	N.D.	mg/kg	1	GC-QQQ
Diphenamid	N.D.	mg/kg	10	GC-QQQ
Disulfoton	N.D.	mg/kg	10	GC-QQQ
Endosulfan I (alpha isomer)	N.D.	mg/kg	20	GC-QQQ
Endosulfan II (beta isomer)	N.D.	mg/kg	10	GC-QQQ
Endosulfan sulfate	N.D.	mg/kg	10	GC-QQQ
Endrin	N.D.	mg/kg	10	GC-QQQ
EPN	N.D.	mg/kg	10	GC-QQQ
EPTC	N.D.	mg/kg	10	GC-QQQ
Esfenvalerate	N.D.	mg/kg	10	GC-QQQ
Ethalfuralin	N.D.	mg/kg	10	GC-QQQ
Etofenprox (Ethofenprox)	N.D.	mg/kg	1	GC-QQQ
Famoxadone	N.D.	mg/kg	10	GC-QQQ
Fenamidone	N.D.	mg/kg	10	GC-QQQ

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Analysis	Result	Units	L.O.Q.	Method
Fenamiphos (Phenamiphos)	N.D.	mg/kg	10	GC-QQQ
Fenbuconazole	N.D.	mg/kg	1	GC-QQQ
Fenitrothion	N.D.	mg/kg	1	GC-QQQ
Fenoxaprop-P-ethyl	N.D.	mg/kg	10	GC-QQQ
Fenthion	N.D.	mg/kg	1	GC-QQQ
Fenvalerate I	N.D.	mg/kg	1	GC-QQQ
Fipronil	N.D.	mg/kg	1	GC-QQQ
Fluazifop-butyl	N.D.	mg/kg	1	GC-QQQ
Flucythrinate I	N.D.	mg/kg	1	GC-QQQ
Flufenacet	N.D.	mg/kg	1	GC-QQQ
Flusilazole	N.D.	mg/kg	1	GC-QQQ
Flutolanil	N.D.	mg/kg	1	GC-QQQ
Flutriafol	N.D.	mg/kg	10	GC-QQQ
Furilazole	N.D.	mg/kg	1	GC-QQQ
Hexaconazole	N.D.	mg/kg	10	GC-QQQ
Kresoxim-methyl	N.D.	mg/kg	10	GC-QQQ
Lactofen	N.D.	mg/kg	1	GC-QQQ
Malathion	N.D.	mg/kg	10	GC-QQQ
Mefenoxam	N.D.	mg/kg	10	GC-QQQ
Metalaxyl	N.D.	mg/kg	1	GC-QQQ
Metconazole	N.D.	mg/kg	10	GC-QQQ
Methidathion	N.D.	mg/kg	10	GC-QQQ
Methoprene	N.D.	mg/kg	10	GC-QQQ
Methoxychlor	N.D.	mg/kg	10	GC-QQQ
Metolachlor	N.D.	mg/kg	10	GC-QQQ
Metribuzin	N.D.	mg/kg	1	GC-QQQ
Myclobutanil	N.D.	mg/kg	1	GC-QQQ
Nitrapyrin	N.D.	mg/kg	1	GC-QQQ
Norflurazon	N.D.	mg/kg	10	GC-QQQ
Oxadiazon	N.D.	mg/kg	1	GC-QQQ
Oxyfluorfen	N.D.	mg/kg	10	GC-QQQ
Paclobutrazol	N.D.	mg/kg	1	GC-QQQ
Parathion	N.D.	mg/kg	10	GC-QQQ
Parathion-methyl	N.D.	mg/kg	10	GC-QQQ
Pendimethalin (Penoxaline)	N.D.	mg/kg	10	GC-QQQ
Permethrin I	N.D.	mg/kg	20	GC-QQQ
Phenothrin I	N.D.	mg/kg	20	GC-QQQ
Phenthoate	N.D.	mg/kg	1	GC-QQQ
Phorate	N.D.	mg/kg	10	GC-QQQ
Phosmet	N.D.	mg/kg	10	GC-QQQ
Phosphamidon	N.D.	mg/kg	10	GC-QQQ

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Analysis	Result	Units	L.O.Q.	Method
Phosphamidon I	N.D.	mg/kg	10	GC-QQQ
Pirimicarb	N.D.	mg/kg	1	GC-QQQ
Profenofos	N.D.	mg/kg	1	GC-QQQ
Propachlor	N.D.	mg/kg	10	GC-QQQ
Propiconazole I	N.D.	mg/kg	20	GC-QQQ
Propiconazole II	N.D.	mg/kg	10	GC-QQQ
Pyraflufen-ethyl	N.D.	mg/kg	1	GC-QQQ
Pyrazophos	N.D.	mg/kg	10	GC-QQQ
Pyrimethanil	N.D.	mg/kg	1	GC-QQQ
Quinoxifen	N.D.	mg/kg	1	GC-QQQ
Quintozene	N.D.	mg/kg	1	GC-QQQ
Quizalofop-ethyl	N.D.	mg/kg	10	GC-QQQ
Simazine	N.D.	mg/kg	10	GC-QQQ
Spiromesifen	N.D.	mg/kg	1	GC-QQQ
Tefluthrin, cis-	N.D.	mg/kg	1	GC-QQQ
Terbufos	N.D.	mg/kg	1	GC-QQQ
Terbutryn	N.D.	mg/kg	10	GC-QQQ
Thiometon	N.D.	mg/kg	10	GC-QQQ
Tolclofos-methyl	N.D.	mg/kg	10	GC-QQQ
Triadimefon	N.D.	mg/kg	10	GC-QQQ
Triadimenol	N.D.	mg/kg	10	GC-QQQ
Triallate	N.D.	mg/kg	1	GC-QQQ
Triazophos	N.D.	mg/kg	10	GC-QQQ
Trifluralin	N.D.	mg/kg	10	GC-QQQ
Vinclozolin	N.D.	mg/kg	10	GC-QQQ
Zoxamide	N.D.	mg/kg	10	GC-QQQ
3-hydroxycarbofuran	N.D.	mg/kg	10	LC/MS/MS
Acephate	N.D.	mg/kg	1	LC/MS/MS
Acetamiprid	N.D.	mg/kg	1	LC/MS/MS
Aldicarb	N.D.	mg/kg	1	LC/MS/MS
Aldicarb-sulfone	N.D.	mg/kg	1	LC/MS/MS
Aldicarb-sulfoxide	N.D.	mg/kg	1	LC/MS/MS
Aminocarb	N.D.	mg/kg	1	LC/MS/MS
Azinphos-Methyl	N.D.	mg/kg	1	LC/MS/MS
Azoxystrobin	N.D.	mg/kg	1	LC/MS/MS
Bendiocarb	N.D.	mg/kg	1	LC/MS/MS
Bensulide	N.D.	mg/kg	1	LC/MS/MS
Buprofezin	N.D.	mg/kg	1	LC/MS/MS
Butocarboxim	N.D.	mg/kg	1	LC/MS/MS
Butocarboxim-sulfoxide	N.D.	mg/kg	1	LC/MS/MS
Carbaryl	N.D.	mg/kg	1	LC/MS/MS

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Analysis	Result	Units	L.O.Q.	Method
Carbendazim	N.D.	mg/kg	1	LC/MS/MS
Carbofuran	N.D.	mg/kg	1	LC/MS/MS
Chlorimuron ethyl	N.D.	mg/kg	10	LC/MS/MS
Chlorpropham	N.D.	mg/kg	1	LC/MS/MS
Chlorsulfuron	N.D.	mg/kg	10	LC/MS/MS
Cloransulam methyl	N.D.	mg/kg	10	LC/MS/MS
Crotoxyphos	N.D.	mg/kg	10	LC/MS/MS
Dichlofluanid	N.D.	mg/kg	1	LC/MS/MS
Dichlorvos	N.D.	mg/kg	10	LC/MS/MS
Diflubenzuron	N.D.	mg/kg	1	LC/MS/MS
Dimepiperate	N.D.	mg/kg	1	LC/MS/MS
Dimethoate	N.D.	mg/kg	1	LC/MS/MS
Dinotefuran	N.D.	mg/kg	1	LC/MS/MS
Dioxacarb	N.D.	mg/kg	1	LC/MS/MS
Diuron	N.D.	mg/kg	10	LC/MS/MS
Esprocarb	N.D.	mg/kg	1	LC/MS/MS
Ethiofencarb	N.D.	mg/kg	1	LC/MS/MS
Ethiofencarb-sulfoxide	N.D.	mg/kg	1	LC/MS/MS
Fenhexamide	N.D.	mg/kg	10	LC/MS/MS
Fenobucarb	N.D.	mg/kg	1	LC/MS/MS
Fenoxycarb	N.D.	mg/kg	1	LC/MS/MS
Fenpropimorph	N.D.	mg/kg	1	LC/MS/MS
Florasulam	N.D.	mg/kg	10	LC/MS/MS
Flucarbazone-sodium	N.D.	mg/kg	20	LC/MS/MS
Fludioxonil	N.D.	mg/kg	1	LC/MS/MS
Flumetsulam	N.D.	mg/kg	10	LC/MS/MS
Flumioxazin	N.D.	mg/kg	10	LC/MS/MS
Fluometuron	N.D.	mg/kg	1	LC/MS/MS
Fluthiacet-methyl	N.D.	mg/kg	1	LC/MS/MS
Fomesafen	N.D.	mg/kg	10	LC/MS/MS
Furathiocarb	N.D.	mg/kg	1	LC/MS/MS
Halosulfuron-methyl	N.D.	mg/kg	10	LC/MS/MS
Haloxypop	N.D.	mg/kg	1	LC/MS/MS
Haloxypop-methyl	N.D.	mg/kg	1	LC/MS/MS
Haloxypop-2-ethoxyethyl	N.D.	mg/kg	1	LC/MS/MS
Hexaflumuron	N.D.	mg/kg	1	LC/MS/MS
Imazalil	N.D.	mg/kg	1	LC/MS/MS
Imidacloprid	N.D.	mg/kg	1	LC/MS/MS
Iodosulfuron-methyl sodium	N.D.	mg/kg	50	LC/MS/MS
Iprovalicarb	N.D.	mg/kg	1	LC/MS/MS
Isoprocab	N.D.	mg/kg	1	LC/MS/MS

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Analysis	Result	Units	L.O.Q.	Method
Isoxaflutole	N.D.	mg/kg	1	LC/MS/MS
Linuron	N.D.	mg/kg	10	LC/MS/MS
Methamidophos	N.D.	mg/kg	1	LC/MS/MS
Methiocarb	N.D.	mg/kg	1	LC/MS/MS
Methiocarb-sulfone	N.D.	mg/kg	10	LC/MS/MS
Methomyl	N.D.	mg/kg	1	LC/MS/MS
Methoxyfenozide	N.D.	mg/kg	1	LC/MS/MS
Metobromuron	N.D.	mg/kg	1	LC/MS/MS
Metsulfuron methyl	N.D.	mg/kg	1	LC/MS/MS
Monocrotophos	N.D.	mg/kg	1	LC/MS/MS
Nicosulfuron	N.D.	mg/kg	10	LC/MS/MS
Omethoate	N.D.	mg/kg	1	LC/MS/MS
Oxadixyl	N.D.	mg/kg	1	LC/MS/MS
Oxamyl	N.D.	mg/kg	1	LC/MS/MS
Oxycarboxin	N.D.	mg/kg	1	LC/MS/MS
Oxydemeton-methyl	N.D.	mg/kg	1	LC/MS/MS
Phenmedipham	N.D.	mg/kg	1	LC/MS/MS
Phoxim	N.D.	mg/kg	1	LC/MS/MS
Pirimphos-methyl	N.D.	mg/kg	1	LC/MS/MS
Promecarb	N.D.	mg/kg	1	LC/MS/MS
Propamocarb	N.D.	mg/kg	1	LC/MS/MS
Propamocarb HCl	N.D.	mg/kg	1	LC/MS/MS
Propaquizafop	N.D.	mg/kg	1	LC/MS/MS
Propoxur	N.D.	mg/kg	1	LC/MS/MS
Propoxycarbazone-sodium	N.D.	mg/kg	20	LC/MS/MS
Propyzamide	N.D.	mg/kg	1	LC/MS/MS
Pyraclostrobin	N.D.	mg/kg	1	LC/MS/MS
Pyroxsulam	N.D.	mg/kg	10	LC/MS/MS
Spinosad	N.D.	mg/kg	1	LC/MS/MS
Tebufenozide	N.D.	mg/kg	1	LC/MS/MS
Thiabendazole	N.D.	mg/kg	10	LC/MS/MS
Thiacloprid	N.D.	mg/kg	1	LC/MS/MS
Thiamethoxam	N.D.	mg/kg	1	LC/MS/MS
Thifensulfuron methyl	N.D.	mg/kg	10	LC/MS/MS
Thiobencarb	N.D.	mg/kg	1	LC/MS/MS
Thiodicarb	N.D.	mg/kg	1	LC/MS/MS
Thiofanox	N.D.	mg/kg	1	LC/MS/MS
Thiofanox-sulfone	N.D.	mg/kg	1	LC/MS/MS
Thiophanate-methyl	N.D.	mg/kg	1	LC/MS/MS
Tolyfluanid	N.D.	mg/kg	1	LC/MS/MS
Triasulfuron	N.D.	mg/kg	10	LC/MS/MS

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Analysis	Result	Units	L.O.Q.	Method
Trifloxystrobin	N.D.	mg/kg	1	LC/MS/MS
XMC	N.D.	mg/kg	1	LC/MS/MS

Abbreviations:

L.O.Q.: Limit of Quantification

L.O.D.: Limit of Detection

N/A: Not Applicable

N.D.: Not Detected



Jacob Swanson
Analytical Chemistry Supervisor
Start/End Analysis: 09/28/2018 - 10/08/2018

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Certificate of Analysis



Certificate Number: 18-016502

Report Date: October 10, 2018

Client:

Settje Agri-Services Engineering
15460 NM 48th St.
Raymond, NE 68428

Sample Information:

SGS Sample Identification: MW18-10496.001
Client Sample Identification: SETTJE AGRI SERVICES - OLD CAKE
Sample Description: MANURE/DISTILLERS
Received: September 28, 2018
Sample/Product Type: Undefined Product

Page 1 of 7

Analysis	Result	Units	L.O.Q.	Method
Acetochlor	N.D.	mg/kg	10	GC-QQQ
Alachlor	N.D.	mg/kg	10	GC-QQQ
Aldrin	N.D.	mg/kg	10	GC-QQQ
Atrazine	N.D.	mg/kg	1	GC-QQQ
Benfluralin	N.D.	mg/kg	10	GC-QQQ
BHC-alpha (benzene hexachloride)	N.D.	mg/kg	1	GC-QQQ
BHC-beta	N.D.	mg/kg	1	GC-QQQ
BHC-delta	N.D.	mg/kg	1	GC-QQQ
BHC-gamma	N.D.	mg/kg	1	GC-QQQ
Bifenthrin	N.D.	mg/kg	1	GC-QQQ
Bitertanol I	N.D.	mg/kg	10	GC-QQQ
Bitertanol II	N.D.	mg/kg	10	GC-QQQ
Boscalid	N.D.	mg/kg	10	GC-QQQ
Bromopropylate	N.D.	mg/kg	10	GC-QQQ
Butachlor	N.D.	mg/kg	10	GC-QQQ
Butralin	N.D.	mg/kg	10	GC-QQQ
Butylate	N.D.	mg/kg	1	GC-QQQ
Carbophenothion	N.D.	mg/kg	10	GC-QQQ
Carboxin	N.D.	mg/kg	20	GC-QQQ
Carfentrazone-ethyl	N.D.	mg/kg	10	GC-QQQ
Chlordane-cis (alpha)	N.D.	mg/kg	10	GC-QQQ
Chlordane-oxy	N.D.	mg/kg	20	GC-QQQ
Chlordane-trans (gamma)	N.D.	mg/kg	10	GC-QQQ
Chlorfenvinphos	N.D.	mg/kg	1	GC-QQQ
Chlorobenzilate	N.D.	mg/kg	1	GC-QQQ
Chlorothalonil	N.D.	mg/kg	10	GC-QQQ
Chlorpyrifos	N.D.	mg/kg	10	GC-QQQ
Chlorpyrifos-methyl	N.D.	mg/kg	1	GC-QQQ
Clodinafop-propargyl	N.D.	mg/kg	10	GC-QQQ

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Analysis	Result	Units	L.O.Q.	Method
Fenamiphos (Phenamiphos)	N.D.	mg/kg	10	GC-QQQ
Fenbuconazole	N.D.	mg/kg	1	GC-QQQ
Fenitrothion	N.D.	mg/kg	1	GC-QQQ
Fenoxaprop-P-ethyl	N.D.	mg/kg	10	GC-QQQ
Fenthion	N.D.	mg/kg	1	GC-QQQ
Fenvalerate I	N.D.	mg/kg	1	GC-QQQ
Fipronil	N.D.	mg/kg	1	GC-QQQ
Fluazifop-butyl	N.D.	mg/kg	1	GC-QQQ
Flucythrinate I	N.D.	mg/kg	1	GC-QQQ
Flufenacet	N.D.	mg/kg	1	GC-QQQ
Flusilazole	N.D.	mg/kg	1	GC-QQQ
Flutolanil	N.D.	mg/kg	1	GC-QQQ
Flutriafol	N.D.	mg/kg	10	GC-QQQ
Furilazole	N.D.	mg/kg	1	GC-QQQ
Hexaconazole	N.D.	mg/kg	10	GC-QQQ
Kresoxim-methyl	N.D.	mg/kg	10	GC-QQQ
Lactofen	N.D.	mg/kg	1	GC-QQQ
Malathion	N.D.	mg/kg	10	GC-QQQ
Mefenoxam	N.D.	mg/kg	10	GC-QQQ
Metalaxyl	N.D.	mg/kg	1	GC-QQQ
Metconazole	N.D.	mg/kg	10	GC-QQQ
Methidathion	N.D.	mg/kg	10	GC-QQQ
Methoprene	N.D.	mg/kg	10	GC-QQQ
Methoxychlor	N.D.	mg/kg	10	GC-QQQ
Metolachlor	N.D.	mg/kg	10	GC-QQQ
Metribuzin	N.D.	mg/kg	1	GC-QQQ
Myclobutanil	N.D.	mg/kg	1	GC-QQQ
Nitrapyrin	N.D.	mg/kg	1	GC-QQQ
Norflurazon	N.D.	mg/kg	10	GC-QQQ
Oxadiazon	N.D.	mg/kg	1	GC-QQQ
Oxyfluorfen	N.D.	mg/kg	10	GC-QQQ
Paclobutrazol	N.D.	mg/kg	1	GC-QQQ
Parathion	N.D.	mg/kg	10	GC-QQQ
Parathion-methyl	N.D.	mg/kg	10	GC-QQQ
Pendimethalin (Penoxaline)	N.D.	mg/kg	10	GC-QQQ
Permethrin I	N.D.	mg/kg	20	GC-QQQ
Phenothrin I	N.D.	mg/kg	20	GC-QQQ
Phenthoate	N.D.	mg/kg	1	GC-QQQ
Phorate	N.D.	mg/kg	10	GC-QQQ
Phosmet	N.D.	mg/kg	10	GC-QQQ
Phosphamidon	N.D.	mg/kg	10	GC-QQQ

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Analysis	Result	Units	L.O.Q.	Method
Carbendazim	N.D.	mg/kg	1	LC/MS/MS
Carbofuran	N.D.	mg/kg	1	LC/MS/MS
Chlorimuron ethyl	N.D.	mg/kg	10	LC/MS/MS
Chlorpropham	N.D.	mg/kg	1	LC/MS/MS
Chlorsulfuron	N.D.	mg/kg	10	LC/MS/MS
Cloransulam methyl	N.D.	mg/kg	10	LC/MS/MS
Crotoxypfos	N.D.	mg/kg	10	LC/MS/MS
Dichlofluanid	N.D.	mg/kg	1	LC/MS/MS
Dichlorvos	N.D.	mg/kg	10	LC/MS/MS
Diiflubenazuron	N.D.	mg/kg	1	LC/MS/MS
Dimepiperate	N.D.	mg/kg	1	LC/MS/MS
Dimethoate	N.D.	mg/kg	1	LC/MS/MS
Dinotefuran	N.D.	mg/kg	1	LC/MS/MS
Dioxacarb	N.D.	mg/kg	1	LC/MS/MS
Diuron	N.D.	mg/kg	10	LC/MS/MS
Esprocarb	N.D.	mg/kg	1	LC/MS/MS
Ethiofencarb	N.D.	mg/kg	1	LC/MS/MS
Ethiofencarb-sulfoxide	N.D.	mg/kg	1	LC/MS/MS
Fenhexamide	N.D.	mg/kg	10	LC/MS/MS
Fenobucarb	N.D.	mg/kg	1	LC/MS/MS
Fenoxycarb	N.D.	mg/kg	1	LC/MS/MS
Fenpropimorph	N.D.	mg/kg	1	LC/MS/MS
Florasulam	N.D.	mg/kg	10	LC/MS/MS
Flucarbazone-sodium	N.D.	mg/kg	20	LC/MS/MS
Fludioxonil	N.D.	mg/kg	1	LC/MS/MS
Flumetsulam	N.D.	mg/kg	10	LC/MS/MS
Flumioxazin	N.D.	mg/kg	10	LC/MS/MS
Fluometuron	N.D.	mg/kg	1	LC/MS/MS
Fluthiacet-methyl	N.D.	mg/kg	1	LC/MS/MS
Fomesafen	N.D.	mg/kg	10	LC/MS/MS
Furathiocarb	N.D.	mg/kg	1	LC/MS/MS
Halosulfuron-methyl	N.D.	mg/kg	10	LC/MS/MS
Haloxypop	N.D.	mg/kg	1	LC/MS/MS
Haloxypop-methyl	N.D.	mg/kg	1	LC/MS/MS
Haloxypop-2-ethoxyethyl	N.D.	mg/kg	1	LC/MS/MS
Hexaflumuron	N.D.	mg/kg	1	LC/MS/MS
Imazalil	N.D.	mg/kg	1	LC/MS/MS
Imidacloprid	N.D.	mg/kg	1	LC/MS/MS
Iodosulfuron-methyl sodium	N.D.	mg/kg	50	LC/MS/MS
Iprovalicarb	N.D.	mg/kg	1	LC/MS/MS
Isoprocab	N.D.	mg/kg	1	LC/MS/MS

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Analysis	Result	Units	L.O.Q.	Method
Trifloxystrobin	N.D.	mg/kg	1	LC/MS/MS
XMC	N.D.	mg/kg	1	LC/MS/MS

Abbreviations:

L.O.Q.: Limit of Quantification

L.O.D.: Limit of Detection

N/A: Not Applicable

N.D.: Not Detected



Jacob Swanson
Analytical Chemistry Supervisor
Start/End Analysis: 09/28/2018 - 10/08/2018

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	Parcel	Sec.	Township	Range
	W 1/2, NE 1/4 & NW 1/4, SE 1/4 & PT of NE 1/4, SW 1/4 & PT of E 1/2, NW 1/4			
Pleskac Home 85		32	15	9E
Pleskac South 40	NW 1/4, NW 1/4 Pt of E 1/2, W 1/2 & W 1/2, NE 1/4	5	14	9E
John Ruzicka Home 185		29	16	7E
Dale Nygren South 40	SE 1/4, SE 1/4	2	14	8E
Duane Johnson South 40	SW 1/4, SW 1/4 Pt of W 1/2, NW 1/4 (S18) & Pt of E 1/2, NE 1/4 (S13)	10	14	8E
ENREC	1/4 (S13)	13,18		14 9E
Mark Timm Home 80	S 1/2, SW 1/4	4	13	8E
John Divis New 80	E 1/2, SE 1/4	11	15	8E
John Divis Chostner's	SE 1/4	12	15	8E
John Divis Christensen 80	N 1/2, SW 1/4	10	15	8E
John Divis Home Qtr ✓	SW 1/4	23	15	8E
John Divis The Y ✓	W 1/2, SW 1/4 & NE 1/4, SW 1/4	26	15	8E
John Divis Rita 80	W 1/2, SE 1/4	23	15	7E
John Divis Rita 36	N 1/2, SW 1/4	18	15	8E
John Divis Airport	NE 1/4	26	15	7E
John Divis Johnson 80	W 1/2, NE 1/4	25	15	7E
John Divis Hubshmann's	N 1/2, NW 1/4	8	14	7E
John Divis Hubshmann's	E 1/2, SW 1/4	5	14	7E
John Divis City of Wahoo	S 1/2, SE 1/4, SE 1/4	3	14	7E

19-023-9354REPORT DATE
Jan 23, 2019RECEIVED DATE
Jan 21, 2019SEND TO
2735413611 B Street • Omaha, Nebraska 68144-3693 • (402) 334-7770
www.midwestlabs.com**PAGE 1/1**ISSUE DATE
Jan 23, 2019**ALTEN
SCOTT TINGELHOFF
1344 COUNTY RD 10
MEAD NE 68041****Nutrient Land Application****For: (27354) ALTEN
WDG
104552**

Sample ID: **011819GP** Lab Number: **10147488****Pounds of Nutrient AR Est. First Year**

Parameter	Analysis As Received	per ton	Availability lbs per ton	Method	Reviewer-Date
Ammonium nitrogen (total)	0.22 %	4.4	2	AOAC 2001.11	tat9 2019-01-23 10:36:00
Organic nitrogen	1.60 %	32.0	11	Calculation	Auto 2019-01-23 10:36:00
Total Kjeldahl nitrogen (TKN)	1.82 %	36.4	13	AOAC 2001.11	tat9 2019-01-23 10:36:00
Phosphorus (as P ₂ O ₅)	0.34 %	6.8	5	AOAC 985.01 (mod)	Auto 2019-01-23 10:36:00
Potassium (as K ₂ O)	0.16 %	3.2	3	AOAC 985.01 (mod)	Auto 2019-01-23 10:36:00
Sulfur (total)	0.14 %	2.8	1	AOAC 985.01 (mod)	tat9 2019-01-23 10:36:00
Calcium (total)	0.17 %	3.4	2	AOAC 985.01 (mod)	tat9 2019-01-23 10:36:00
Magnesium (total)	0.07 %	1.4	1	AOAC 985.01 (mod)	tat9 2019-01-23 10:36:00
Sodium (total)	0.06 %	1.2	1	AOAC 985.01 (mod)	tat9 2019-01-23 10:36:00
Copper (total)	6 ppm	0.01	0.01	AOAC 985.01 (mod)	tat9 2019-01-23 10:36:00
Iron (total)	1860 ppm	3.72	2.60	AOAC 985.01 (mod)	tat9 2019-01-23 10:36:00
Manganese (total)	60 ppm	0.12	0.08	AOAC 985.01 (mod)	tat9 2019-01-23 10:36:00
Zinc (total)	255 ppm	0.51	0.36	AOAC 985.01 (mod)	tat9 2019-01-23 10:36:00
Moisture	67.9 %			SM 2540 G-(1997)	tat9 2019-01-23 10:36:00
Total solids	32.10 %	642		Calculation	Auto 2019-01-23 10:36:00
Total salts	0.68 %	13.6		Calculation	Auto 2019-01-23 10:36:00
pH	5.1 S.U.			EPA 9045C *	tat9 2019-01-23 10:36:00

First year availability of nitrogen is calculated based on pre-plant application with incorporation. Nitrogen available from previous year's application not considered. Total manure salts should not exceed 500 lbs/acre. Less than 500 lbs/acre if annual rainfall is less than 25 inches and/or the soil CEC is less than 12 meq/100g. Salt contributions from commercial fertilizer applications must also be considered. Soil test yearly to monitor phosphorus levels, organic matter, pH, and micronutrients. Spring soil test for residual nitrate - make accurate sidedress recommendations! Nitrogen availability will vary with methods of application and field conditions. The nitrogen availability values used on a manure management plan must comply with state regulations. These regulations vary from state to state.

The result(s) issued on this report only reflect the analysis of the sample(s) submitted.

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19-023-9353**Jan 23, 2019****Jan 21, 2019****27354**

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PAGE 1/1**Jan 23, 2019**

**ALTEN
SCOTT TINGELHOFF
1344 COUNTY RD 10
MEAD NE 68041**

Nutrient Land Application

For: (27354) ALTEN

WDG

104552

Sample ID: **0118190D** Lab Number: **10147487**

Pounds of Nutrient AR Est. First Year

Parameter	Analysis As Received	per ton	Availability lbs per ton	Method	Reviewer-Date
Ammonium nitrogen (total)	0.67 %	13.4	7	AOAC 2001.11	tat9 2019-01-23 10:36:00
Organic nitrogen	1.01 %	20.2	7	Calculation	Auto 2019-01-23 10:36:00
Total Kjeldahl nitrogen (TKN)	1.68 %	33.6	14	AOAC 2001.11	tat9 2019-01-23 10:36:00
Phosphorus (as P ₂ O ₅)	0.39 %	7.8	5	AOAC 985.01 (mod)	Auto 2019-01-23 10:36:00
Potassium (as K ₂ O)	0.22 %	4.4	4	AOAC 985.01 (mod)	Auto 2019-01-23 10:36:00
Sulfur (total)	0.16 %	3.2	1	AOAC 985.01 (mod)	tat9 2019-01-23 10:36:00
Calcium (total)	0.28 %	5.6	4	AOAC 985.01 (mod)	tat9 2019-01-23 10:36:00
Magnesium (total)	0.11 %	2.2	2	AOAC 985.01 (mod)	tat9 2019-01-23 10:36:00
Sodium (total)	0.04 %	0.8	1	AOAC 985.01 (mod)	tat9 2019-01-23 10:36:00
Copper (total)	9 ppm	0.02	0.01	AOAC 985.01 (mod)	tat9 2019-01-23 10:36:00
Iron (total)	2930 ppm	5.86	4.10	AOAC 985.01 (mod)	tat9 2019-01-23 10:36:00
Manganese (total)	110 ppm	0.22	0.15	AOAC 985.01 (mod)	tat9 2019-01-23 10:36:00
Zinc (total)	52 ppm	0.10	0.07	AOAC 985.01 (mod)	tat9 2019-01-23 10:36:00
Moisture	61.6 %			SM 2540 G-(1997)	tat9 2019-01-23 10:36:00
Total solids	38.40 %	768		Calculation	Auto 2019-01-23 10:36:00
Total salts	1.32 %	26.4		Calculation	Auto 2019-01-23 10:36:00
pH	5.7 S.U.			EPA 9045C *	tat9 2019-01-23 10:36:00

First year availability of nitrogen is calculated based on pre-plant application with incorporation. Nitrogen available from previous year's application not considered. Total manure salts should not exceed 500 lbs/acre. Less than 500 lbs/acre if annual rainfall is less than 25 inches and/or the soil CEC is less than 12 meq/100g. Salt contributions from commercial fertilizer applications must also be considered. Soil test yearly to monitor phosphorus levels, organic matter, pH, and micronutrients. Spring soil test for residual nitrate - make accurate sidedress recommendations! Nitrogen availability will vary with methods of application and field conditions. The nitrogen availability values used on a manure management plan must comply with state regulations. These regulations vary from state to state.

The result(s) issued on this report only reflect the analysis of the sample(s) submitted.

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19-023-9351**Jan 23, 2019****Jan 21, 2019****27354**

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PAGE 1/1**Jan 23, 2019**

**ALTEN
SCOTT TINGELHOFF
1344 COUNTY RD 10
MEAD NE 68041**

Nutrient Land Application

For: (27354) ALTEN

WDG

104552

new Fresh out of Barn
Sample ID: **011819CB** Lab Number: **10147485**

Pounds of Nutrient AR Est. First Year

Parameter	Analysis As Received	per ton	Availability lbs per ton	Method	Reviewer-Date
Ammonium nitrogen (total)	< 0.01 %	---	---	AOAC 2001.11	tat9 2019-01-23 10:36:00
Organic nitrogen	1.90 %	38.0	13	Calculation	Auto 2019-01-23 10:36:00
Total Kjeldahl nitrogen (TKN)	1.90 %	38.0	13	AOAC 2001.11	tat9 2019-01-23 10:36:00
Phosphorus (as P2O5)	0.46 %	9.2	6	AOAC 985.01 (mod)	Auto 2019-01-23 10:36:00
Potassium (as K2O)	0.16 %	3.2	3	AOAC 985.01 (mod)	Auto 2019-01-23 10:36:00
Sulfur (total)	0.15 %	3.0	1	AOAC 985.01 (mod)	tat9 2019-01-23 10:36:00
Calcium (total)	0.02 %	0.4	---	AOAC 985.01 (mod)	tat9 2019-01-23 10:36:00
Magnesium (total)	0.05 %	1.0	1	AOAC 985.01 (mod)	tat9 2019-01-23 10:36:00
Sodium (total)	0.02 %	0.4	---	AOAC 985.01 (mod)	tat9 2019-01-23 10:36:00
Copper (total)	8 ppm	0.02	0.01	AOAC 985.01 (mod)	tat9 2019-01-23 10:36:00
Iron (total)	64 ppm	0.13	0.09	AOAC 985.01 (mod)	tat9 2019-01-23 10:36:00
Manganese (total)	4 ppm	0.01	0.01	AOAC 985.01 (mod)	tat9 2019-01-23 10:36:00
Zinc (total)	19 ppm	0.04	0.03	AOAC 985.01 (mod)	tat9 2019-01-23 10:36:00
Moisture	67.9 %			SM 2540 G-(1997)	tat9 2019-01-23 10:36:00
Total solids	32.10 %	642		Calculation	Auto 2019-01-23 10:36:00
Total salts	0.25 %	5.0		Calculation	Auto 2019-01-23 10:36:00
pH	4.5 S.U.			EPA 9045C *	tat9 2019-01-23 10:36:00

First year availability of nitrogen is calculated based on pre-plant application with incorporation. Nitrogen available from previous year's application not considered. Total manure salts should not exceed 500 lbs/acre. Less than 500 lbs/acre if annual rainfall is less than 25 inches and/or the soil CEC is less than 12 meq/100g. Salt contributions from commercial fertilizer applications must also be considered. Soil test yearly to monitor phosphorus levels, organic matter, pH, and micronutrients. Spring soil test for residual nitrate - make accurate sidedress recommendations! Nitrogen availability will vary with methods of application and field conditions. The nitrogen availability values used on a manure management plan must comply with state regulations. These regulations vary from state to state.

The result(s) issued on this report only reflect the analysis of the sample(s) submitted.

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19-023-9352**Jan 23, 2019****Jan 21, 2019****27354**

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PAGE 1/1**Jan 23, 2019**

**ALTEN
SCOTT TINGELHOFF
1344 COUNTY RD 10
MEAD NE 68041**

Nutrient Land Application

For: (27354) ALTEN

WDG

104552

new aged 6 months or less
Sample ID: **011819SG** Lab Number: **10147486**

Pounds of Nutrient AR Est. First Year

Parameter	Analysis As Received	per ton	Availability lbs per ton	Method	Reviewer-Date
Ammonium nitrogen (total)	0.25 %	5.0	2	AOAC 2001.11	tat9 2019-01-23 10:36:00
Organic nitrogen	2.17 %	43.4	15	Calculation	Auto 2019-01-23 10:36:00
Total Kjeldahl nitrogen (TKN)	2.42 %	48.4	18	AOAC 2001.11	tat9 2019-01-23 10:36:00
Phosphorus (as P ₂ O ₅)	0.53 %	10.6	7	AOAC 985.01 (mod)	Auto 2019-01-23 10:36:00
Potassium (as K ₂ O)	0.17 %	3.4	3	AOAC 985.01 (mod)	Auto 2019-01-23 10:36:00
Sulfur (total)	0.18 %	3.6	1	AOAC 985.01 (mod)	tat9 2019-01-23 10:36:00
Calcium (total)	0.05 %	1.0	1	AOAC 985.01 (mod)	tat9 2019-01-23 10:36:00
Magnesium (total)	0.06 %	1.2	1	AOAC 985.01 (mod)	tat9 2019-01-23 10:36:00
Sodium (total)	< 0.01 %	---	---	AOAC 985.01 (mod)	tat9 2019-01-23 10:36:00
Copper (total)	7 ppm	0.01	0.01	AOAC 985.01 (mod)	tat9 2019-01-23 10:36:00
Iron (total)	573 ppm	1.15	0.80	AOAC 985.01 (mod)	tat9 2019-01-23 10:36:00
Manganese (total)	24 ppm	0.05	0.04	AOAC 985.01 (mod)	tat9 2019-01-23 10:36:00
Zinc (total)	67 ppm	0.13	0.09	AOAC 985.01 (mod)	tat9 2019-01-23 10:36:00
Moisture	66.3 %			SM 2540 G-(1997)	tat9 2019-01-23 10:36:00
Total solids	33.70 %	674		Calculation	Auto 2019-01-23 10:36:00
Total salts	0.53 %	10.6		Calculation	Auto 2019-01-23 10:36:00
pH	5.4 S.U.			EPA 9045C *	tat9 2019-01-23 10:36:00

First year availability of nitrogen is calculated based on pre-plant application with incorporation. Nitrogen available from previous year's application not considered. Total manure salts should not exceed 500 lbs/acre. Less than 500 lbs/acre if annual rainfall is less than 25 inches and/or the soil CEC is less than 12 meq/100g. Salt contributions from commercial fertilizer applications must also be considered. Soil test yearly to monitor phosphorus levels, organic matter, pH, and micronutrients. Spring soil test for residual nitrate - make accurate sidedress recommendations! Nitrogen availability will vary with methods of application and field conditions. The nitrogen availability values used on a manure management plan must comply with state regulations. These regulations vary from state to state.

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ATTACHMENT II

**3/4/19 Email from Scott Tingelhoff, AltEn, to Jason
Holsten, NDEQ, RE: Claim of Confidentiality**

(2 pages)

Holsten, Jason

From: Scott Tingelhoff <stingelhoff@mrgkc.com>
Sent: Monday, March 04, 2019 5:59 PM
To: Holsten, Jason
Subject: RE: Title 115, Chapter 4 - Confidentiality Document

Jason,

Yes, after reviewing the information in question it was determined that we would not be claiming confidentiality on those two documents. Please consider this e-mail as our withdrawal of our confidentiality claim. Thank you.

Scott

Scott Tingelhoff
General Manager
AltEn, LLC
1344 County Road 10
Mead, NE 68041
Office: (402) 624-2000, ext. 1008
Fax: (402) 624-2027

From: Holsten, Jason <jason.holsten@nebraska.gov>
Sent: Monday, March 4, 2019 2:01 PM
To: Scott Tingelhoff <stingelhoff@mrgkc.com>
Subject: RE: Title 115, Chapter 4 - Confidentiality Document

Scott,

After our phone conversation on 2/28, are you still thinking of withdrawing the claim of confidentiality for the two Certificates of Analysis- Certificate # 18-106502, SGS Sample ID MW18-10496.001 and MW18-10496.002? These are the two referenced in my original email. Please let me know, thanks.

Jason

From: Holsten, Jason
Sent: Thursday, February 28, 2019 9:04 AM
To: 'Scott Tingelhoff' <stingelhoff@mrgkc.com>
Subject: Title 115, Chapter 4 - Confidentiality Document

RE: AltEn, LLC
NDEQ ID: 84069
Program ID: NE0204447

Scott,

Here is a copy of Title 115, Chp. 4, Confidentiality for Trade Secrets. I will hold the two Certificates of Analysis from SGS North America for the old and new cake (14 pages total) that Dean gave me yesterday as confidential for 30 days. If you wish to make a claim of confidentiality, please read the attached and include all information required for asserting the

claim within the 30 days. You can submit your claim to me and I'll forward to the appropriate office for review and determination. Thanks

Jason

Jason Holsten

Program Specialist II, Waste Compliance Unit

Nebraska Department of Environmental Quality

1200 N Street, Suite 400

P.O. Box 98922

Lincoln, NE 68509-8922

DIRECT: (402) 471-4218

<http://deg.ne.gov>

ATTACHMENT III


National Weather Service Weather Observations 2/24 – 2/27

(7 Pages)

weather.gov



metric



Weather observations for the past three days

Wahoo

Date	Time (cst)	Wind (mph)	Vis. (mi.)	Weather	Sky Cond.	Temperature (°F)				Relative Humidity	Wind Chill (°F)	Heat Index (°F)	Pressure		Precipitation (in.)		
						Air	Dwpt	6 hour					altimeter (in)	sea level (mb)	1 hr	3 hr	6 hr
								Max.	Min.								
27	15:35	N 13	10.00	Fair	CLR	12	3			68%	-3	NA	30.39	NA			
27	15:15	N 16 G 21	10.00	Fair	CLR	12	3			69%	-5	NA	30.38	NA			
27	14:55	N 20 G 24	10.00	Fair	CLR	12	3			69%	-6	NA	30.38	NA			
27	14:35	N 23 G 26	10.00	Fair and Breezy	CLR	11	3			70%	-9	NA	30.38	NA			
27	14:15	N 21	10.00	Fair and Breezy	CLR	11	4			71%	-8	NA	30.38	NA			
27	13:55	N 17	10.00	Fair	CLR	11	3			70%	-6	NA	30.38	NA			
27	13:35	N 21 G 25	10.00	Fair and Breezy	CLR	11	3			71%	-8	NA	30.39	NA			
27	13:15	N 20 G 23	10.00	Fair	CLR	11	3			71%	-8	NA	30.39	NA			
27	12:55	N 18	10.00	Fair	CLR	10	3			71%	-8	NA	30.41	NA			
27	12:35	N 18	10.00	Fair	CLR	10	2			69%	-8	NA	30.42	NA			
27	12:15	N 16 G 23	10.00	Fair	CLR	10	2			70%	-7	NA	30.42	NA			
27	11:55	N 18	10.00	Fair	CLR	9	1	9	7	71%	-9	NA	30.41	NA			
27	11:35	N 18 G 24	10.00	Fair	CLR	9	1			71%	-9	NA	30.41	NA			
27	11:15	N 16	10.00	Fair	CLR	9	1			72%	-8	NA	30.41	NA			
27	10:55	N 20	10.00	Fair	CLR	8	1			72%	-12	NA	30.41	NA			
27	10:35	N 17	10.00	Fair	CLR	8	1			74%	-10	NA	30.41	NA			
27	10:15	N 18 G 24	10.00	Partly Cloudy	SCT027	7	1			73%	-12	NA	30.41	NA			
27	09:55	N 18 G 25	10.00	Mostly Cloudy	BKN027	7	1			73%	-12	NA	30.41	NA			
27	09:35	NA	10.00	Mostly Cloudy	BKN029	8	1			75%	NA	NA	30.42	NA			
27	09:15	N 18	10.00	Overcast	OVC029	8	2			77%	-11	NA	30.41	NA			
27	08:55	N 13	10.00	Light Snow	OVC027	7	2			78%	-9	NA	30.41	NA			
27	08:35	N 16	10.00	Light Snow	OVC027	7	2			78%	-11	NA	30.40	NA			
27	08:15	N 16	10.00	Overcast	OVC027	7	1			77%	-11	NA	30.39	NA			
27	07:55	N 17 G 24	10.00	Light Snow	OVC025	7	2			78%	-11	NA	30.39	NA			
27	07:35	N 17	10.00	Overcast	OVC025	7	2			79%	-11	NA	30.38	NA			

27 07:15	N 16 G 22	10.00	Overcast	OVC025	8	2			78%	-10	NA	30.38	NA
27 06:55	N 16 G 23	10.00	Overcast	OVC025	8	3			78%	-10	NA	30.38	NA
27 06:35	N 15 G 21	10.00	Overcast	OVC025	8	2			78%	-9	NA	30.38	NA
27 06:15	N 14	10.00	Overcast	OVC025	8	2			77%	-9	NA	30.38	NA
27 05:55	N 15	10.00	Overcast	OVC025	8	2	10	8	76%	-9	NA	30.37	NA
27 05:35	NA	7.00	Overcast	OVC023	8	3			78%	NA	NA	30.35	NA
27 05:15	N 18 G 23	10.00	Overcast	OVC023	9	3			78%	-9	NA	30.34	NA
27 04:55	N 16	10.00	Overcast	OVC023	9	4			81%	-8	NA	30.34	NA
27 04:35	NA	7.00	Overcast	OVC023	9	4			80%	NA	NA	30.32	NA
27 04:15	N 18 G 22	10.00	Overcast	OVC023	9	4			81%	-9	NA	30.31	NA
27 03:55	N 17	10.00	Overcast	OVC023	9	5			81%	-9	NA	30.31	NA
27 03:35	N 15 G 23	10.00	Overcast	OVC023	9	5			82%	-8	NA	30.31	NA
27 03:15	N 17	10.00	Overcast	OVC023	9	5			82%	-9	NA	30.32	NA
27 02:55	N 16	10.00	Overcast	OVC023	9	5			82%	-8	NA	30.32	NA
27 02:35	NW 15 G 22	10.00	Light Snow	OVC023	9	5			83%	-8	NA	30.33	NA
27 02:15	N 18	7.00	Light Snow	OVC021	9	5			84%	-9	NA	30.31	NA
27 01:55	N 16	7.00	Light Snow	OVC021	10	6			84%	-7	NA	30.31	NA
27 01:35	N 13	7.00	Light Snow	OVC021	10	6			84%	-5	NA	30.31	NA
27 01:15	N 10	7.00	Light Snow	OVC021	10	6			85%	-4	NA	30.31	NA
27 00:55	N 10	10.00	Overcast	OVC021	10	6			84%	-4	NA	30.30	NA
27 00:35	N 9	10.00	Overcast	OVC021	10	6			85%	-3	NA	30.28	NA
27 00:15	N 10	7.00	Light Snow	OVC021	10	7			85%	-4	NA	30.27	NA
26 23:55	N 10	5.00	Light Snow	OVC021	10	7	14	10	85%	-4	NA	30.28	NA
26 23:35	N 10	5.00	Light Snow	BKN019 BKN060 BKN075	10	7			85%	-4	NA	30.27	NA
26 23:15	N 12	5.00	Light Snow	CLR	11	8			86%	-4	NA	30.27	NA
26 22:55	N 10	5.00	Light Snow	CLR	11	8			85%	-2	NA	30.28	NA
26 22:35	N 9	10.00	Fair	CLR	12	8			86%	-0	NA	30.28	NA
26 22:15	N 12	10.00	Fair	CLR	12	8			86%	-2	NA	30.27	NA
26 21:55	N 12	7.00	Light Snow	CLR	12	9			86%	-2	NA	30.27	NA
26 21:35	N 9	10.00	Light Snow	CLR	12	9			86%	-0	NA	30.26	NA
26 21:15	N 12	7.00		SCT019	13	9			86%	-1	NA	30.26	NA

26	20:55	N 8	7.00	Light Snow	BKN019 BKN085 BKN100	13	9		85%	2	NA	30.25	NA
26	20:35	N 8	7.00	Light Snow	SCT019 SCT070 SCT085	13	9		85%	2	NA	30.26	NA
26	20:15	N 7	7.00	Light Snow	CLR	13	9		83%	3	NA	30.26	NA
26	19:55	N 7	10.00	Light Snow	CLR	14	9		83%	4	NA	30.26	NA
26	19:35	N 8	10.00	Fair	CLR	14	10		83%	3	NA	30.26	NA
26	19:15	N 7	10.00	Partly Cloudy	SCT022	14	9		82%	4	NA	30.25	NA
26	18:55	NE 7	10.00	Mostly Cloudy	BKN022	14	9		82%	4	NA	30.24	NA
26	18:35	NE 5	10.00	Partly Cloudy	SCT022	14	9		81%	6	NA	30.25	NA
26	18:15	NE 7	10.00	Partly Cloudy	SCT024	14	9		80%	4	NA	30.24	NA
26	17:55	NE 9	10.00	Partly Cloudy	SCT022	14	9	15 9	79%	2	NA	30.24	NA
26	17:35	NE 9	10.00	Partly Cloudy	SCT024	14	9		78%	2	NA	30.24	NA
26	17:15	NE 8	10.00	Partly Cloudy	SCT024	15	8		77%	4	NA	30.25	NA
26	16:55	NE 9	10.00	Partly Cloudy	SCT024	15	9		76%	3	NA	30.25	NA
26	16:35	NE 8	10.00	Fair	CLR	15	8		74%	4	NA	30.25	NA
26	16:15	N 7	10.00	Partly Cloudy	SCT032	15	8		74%	5	NA	30.26	NA
26	15:55	NE 8	10.00	Partly Cloudy	SCT032	15	7		73%	4	NA	30.25	NA
26	15:35	N 8	10.00	Fair	CLR	15	7		72%	4	NA	30.26	NA
26	15:15	NE 8	10.00	Fair	CLR	15	7		72%	4	NA	30.26	NA
26	14:55	NE 9	10.00	Fair	CLR	15	7		71%	3	NA	30.25	NA
26	14:35	NE 9	10.00	Partly Cloudy	SCT033	15	6		69%	3	NA	30.27	NA
26	14:15	NE 9	10.00	Partly Cloudy	SCT033	15	6		70%	3	NA	30.27	NA
26	13:55	NE 8	10.00	Fair	CLR	14	6		71%	3	NA	30.27	NA
26	13:35	NE 8	10.00	Fair	CLR	13	6		72%	2	NA	30.29	NA
26	13:15	NE 9	10.00	Fair	CLR	12	5		73%	-0	NA	30.30	NA
26	12:55	N 10	10.00	Fair	CLR	11	4		74%	-2	NA	30.31	NA
26	12:35	NE 10	10.00	Fair	CLR	11	4		73%	-2	NA	30.32	NA
26	12:15	N 9	10.00	Fair	CLR	10	3		73%	-3	NA	30.33	NA
26	11:55	NE 9	10.00	Fair	CLR	10	3	10 1	74%	-3	NA	30.32	NA
26	11:35	NE 13	10.00	Fair	CLR	8	1		73%	-8	NA	30.34	NA
26	11:15	N 12	10.00	Fair	CLR	8	1		72%	-7	NA	30.35	NA

26	10:55	N 10	10.00	Fair	CLR	7	0		73%	-7	NA	30.35	NA
26	10:35	N 12	10.00	Fair	CLR	7	-0		74%	-9	NA	30.36	NA
26	10:15	NE 9	10.00	Fair	CLR	6	-1		74%	-8	NA	30.36	NA
26	09:55	NE 10	10.00	Fair	CLR	5	-1		74%	-10	NA	30.36	NA
26	09:35	NE 9	10.00	Fair	CLR	5	-2		74%	-9	NA	30.36	NA
26	09:15	N 12	10.00	Fair	CLR	4	-2		74%	-12	NA	30.40	NA
26	08:55	N 9	10.00	Fair	CLR	3	-3		75%	-11	NA	30.39	NA
26	08:35	N 10	10.00	Fair	CLR	3	-3		76%	-12	NA	30.38	NA
26	08:15	N 8	10.00	Fair	CLR	2	-4		76%	-12	NA	30.38	NA
26	07:55	N 7	10.00	Fair	CLR	2	-4		76%	-11	NA	30.37	NA
26	07:35	NE 7	10.00	Fair	CLR	1	-4		77%	-12	NA	30.37	NA
26	07:15	N 10	10.00	Partly Cloudy	SCT025	1	-4		78%	-15	NA	30.38	NA
26	06:55	N 10	10.00	Partly Cloudy	SCT025	1	-4		78%	-15	NA	30.39	NA
26	06:35	N 12	10.00	Partly Cloudy	SCT027	2	-4		76%	-15	NA	30.38	NA
26	06:15	N 13	10.00	Overcast	OVC027	2	-3		78%	-16	NA	30.39	NA
26	05:55	N 12	10.00	Overcast	OVC027	2	-3	4 2	78%	-15	NA	30.40	NA
26	05:35	N 12	10.00	Overcast	OVC031	2	-3		78%	-15	NA	30.39	NA
26	05:15	NE 13	10.00	Overcast	OVC027	3	-3		79%	-14	NA	30.39	NA
26	04:55	N 14	10.00	Overcast	OVC027	3	-2		79%	-15	NA	30.39	NA
26	04:35	NE 14 G 18	10.00	Overcast	OVC031	3	-2		80%	-15	NA	30.38	NA
26	04:15	N 15	10.00	Overcast	OVC031	3	-2		79%	-16	NA	30.38	NA
26	03:55	NE 15	10.00	Overcast	OVC031	3	-2		79%	-16	NA	30.39	NA
26	03:35	NE 15	10.00	Overcast	OVC031	3	-2		78%	-16	NA	30.40	NA
26	03:15	N 14	10.00	Overcast	OVC029	3	-2		79%	-15	NA	30.41	NA
26	02:55	N 13	10.00	Overcast	OVC031	3	-2		79%	-14	NA	30.41	NA
26	02:35	NE 15	10.00	Overcast	OVC031	3	-2		79%	-16	NA	30.42	NA
26	02:15	NE 14 G 20	10.00	Overcast	OVC031	3	-2		79%	-15	NA	30.43	NA
26	01:55	N 15	10.00	Overcast	OVC031	3	-2		78%	-16	NA	30.44	NA
26	01:35	NE 15	10.00	Overcast	OVC031	4	-2		78%	-14	NA	30.44	NA
26	01:15	NE 14	10.00	Overcast	OVC031	4	-2		78%	-14	NA	30.45	NA
26	00:55	N 17	10.00	Overcast	OVC031	4	-2		77%	-15	NA	30.45	NA
26	00:35	N 17	10.00	Overcast	OVC031	4	-1		78%	-15	NA	30.44	NA
26	00:15	N 15	10.00	Overcast	OVC033	4	-1		78%	-14	NA	30.45	NA
25	23:55	N 15	10.00	Overcast	OVC033	4	-1	9 4	78%	-14	NA	30.45	NA
25	23:35	N 14	10.00	Overcast	OVC033	4	-1		77%	-14	NA	30.45	NA
25	23:15	N 13	10.00	Overcast	OVC033	4	-1		77%	-13	NA	30.44	NA
25	22:55	N 14	10.00	Overcast	OVC033	5	-1		78%	-12	NA	30.45	NA
25	22:35	NE 14	10.00	Overcast	OVC033	5	-1		78%	-12	NA	30.45	NA
25	22:15	NE 14	10.00	Overcast	OVC035	5	-1		78%	-12	NA	30.44	NA
25	21:55	NE 15	10.00	Overcast	OVC035	4	-1		78%	-14	NA	30.43	NA

25	21:35	NE 14	10.00	Overcast	OVC035	5	-0		79%	-12	NA	30.42	NA
25	21:15	NE 14	10.00	Overcast	OVC035	5	-0		79%	-12	NA	30.42	NA
25	20:55	N 16	10.00	Overcast	OVC035	5	-0		78%	-14	NA	30.42	NA
25	20:35	N 16	10.00	Overcast	OVC035	5	0		79%	-14	NA	30.44	NA
25	20:15	N 16	10.00	Overcast	OVC037	6	1		79%	-12	NA	30.42	NA
25	19:55	NE 17	10.00	Overcast	OVC037	6	1		78%	-13	NA	30.43	NA
25	19:35	N 17 G 22	10.00	Overcast	OVC037	6	1		78%	-13	NA	30.43	NA
25	19:15	NE 16 G 20	10.00	Overcast	OVC039	7	1		78%	-11	NA	30.42	NA
25	18:55	N 16	10.00	Overcast	OVC039	7	1		78%	-11	NA	30.41	NA
25	18:35	NE 15	10.00	Overcast	OVC039	7	1		76%	-10	NA	30.41	NA
25	18:15	N 15	10.00	Overcast	OVC041	9	2		73%	-8	NA	30.41	NA
25	17:55	NE 9	10.00	Mostly Cloudy	BKN041	9	0	10 7	67%	-4	NA	30.40	NA
25	17:35	NE 13	10.00	Mostly Cloudy	SCT032 BKN041	9	-0		64%	-7	NA	30.39	NA
25	17:15	NE 10	10.00	Mostly Cloudy	BKN032	10	-0		65%	-4	NA	30.40	NA
25	16:55	NE 10	10.00	Overcast	OVC032	10	-0		64%	-4	NA	30.39	NA
25	16:35	NE 10	10.00	Overcast	OVC032	10	-1		61%	-4	NA	30.39	NA
25	16:15	NE 12	10.00	Overcast	OVC030	10	-1		60%	-5	NA	30.38	NA
25	15:55	NE 12	10.00	Overcast	OVC030	10	-0		62%	-5	NA	30.38	NA
25	15:35	NE 12	10.00	Overcast	OVC032	10	0		63%	-5	NA	30.37	NA
25	15:15	NE 14	10.00	Overcast	OVC032	10	-1		62%	-6	NA	30.36	NA
25	14:55	NE 12	10.00	Overcast	OVC032	10	-0		64%	-5	NA	30.37	NA
25	14:35	NE 13 G 17	10.00	Overcast	OVC032	9	-1		64%	-7	NA	30.37	NA
25	14:15	NE 15	10.00	Overcast	OVC032	9	-1		64%	-8	NA	30.39	NA
25	13:55	NE 13	10.00	Overcast	OVC032	9	-1		65%	-7	NA	30.39	NA
25	13:35	NE 14	10.00	Overcast	OVC034	8	-1		66%	-9	NA	30.39	NA
25	13:15	NE 15	10.00	Mostly Cloudy	BKN034	8	-0		68%	-9	NA	30.39	NA
25	12:55	N 14	10.00	Partly Cloudy	SCT034	8	-1		65%	-9	NA	30.41	NA
25	12:35	NE 13 G 16	10.00	Fair	CLR	8	-1		64%	-8	NA	30.42	NA
25	12:15	NE 10	10.00	Fair	CLR	8	-1		66%	-6	NA	30.43	NA
25	11:55	N 9	10.00	Fair	CLR	7	-1	7 -10	68%	-6	NA	30.44	NA
25	11:35	NE 9	10.00	Fair	CLR	6	-1		71%	-8	NA	30.44	NA
25	11:15	N 6	10.00	Fair	CLR	6	1		79%	-5	NA	30.44	NA
25	10:55	NE 7	10.00	Fair	CLR	5	1		83%	-7	NA	30.43	NA
25	10:35	NE 7	10.00	Fair	CLR	4	0		85%	-8	NA	30.43	NA
25	10:15	NE 7	10.00	Fair	CLR	3	-0		85%	-9	NA	30.44	NA
25	09:55	NE 8	10.00	Fair	CLR	2	-1		86%	-12	NA	30.41	NA
25	09:35	E 8	10.00	Fair	CLR	1	-2		85%	-13	NA	30.41	NA
25	09:15	NE 6	10.00	Fair	CLR	-1	-5		85%	-13	NA	30.41	NA

25 08:55	N 6	10.00	Fair	CLR	-3	-7		83%	-15	NA	30.43	NA
25 08:35	N 5	10.00	Fair	CLR	-4	-8		83%	-15	NA	30.43	NA
25 08:15	N 5	10.00	Fair	CLR	-6	-10		83%	-18	NA	30.43	NA
25 07:55	N 6	10.00	Fair	CLR	-7	-11		81%	-20	NA	30.43	NA
25 07:35	N 5	10.00	Fair	CLR	-7	-12		80%	-19	NA	30.42	NA
25 07:15	N 5	10.00	Partly Cloudy	SCT100	-7	-11		82%	-19	NA	30.41	NA
25 06:55	N 3	10.00	Partly Cloudy	SCT100	-5	-9		83%	NA	NA	30.41	NA
25 06:35	N 3	10.00	Mostly Cloudy	BKN110	-6	-10		83%	NA	NA	30.42	NA
25 06:15	Calm	10.00	Partly Cloudy	SCT100 SCT120	-8	-12		81%	NA	NA	30.42	NA
25 05:55	Calm	10.00	Mostly Cloudy	BKN110	-9	-14	-1 -11	79%	NA	NA	30.41	NA
25 05:35	Calm	10.00	Partly Cloudy	SCT110	-6	-10		83%	NA	NA	30.41	NA
25 05:15	N 3	10.00	Fair	CLR	-10	-14		82%	NA	NA	30.42	NA
25 04:55	N 3	10.00	Fair	CLR	-7	-11		83%	NA	NA	30.43	NA
25 04:35	N 3	10.00	Partly Cloudy	SCT110	-10	-15		79%	NA	NA	30.42	NA
25 04:15	Calm	10.00	Partly Cloudy	SCT110	-8	-13		80%	NA	NA	30.42	NA
25 03:55	NW 3	10.00	Fair	CLR	-7	-11		82%	NA	NA	30.42	NA
25 03:35	Calm	10.00	Partly Cloudy	SCT100	-9	-13		82%	NA	NA	30.44	NA
25 03:15	Calm	10.00	Mostly Cloudy	BKN100	-8	-12		83%	NA	NA	30.44	NA
25 02:55	Calm	10.00	Mostly Cloudy	BKN110	-9	-14		81%	NA	NA	30.44	NA
25 02:35	N 5	10.00	Mostly Cloudy	BKN100	-9	-13		80%	-21	NA	30.45	NA
25 02:15	NW 5	10.00	Partly Cloudy	SCT100	-11	-16		81%	-23	NA	30.46	NA
25 01:55	NW 5	10.00	Fair	CLR	-11	-16		79%	-23	NA	30.46	NA
25 01:35	N 6	10.00	Fair	CLR	-9	-13		80%	-23	NA	30.46	NA
25 01:15	Calm	10.00	Fair	CLR	-6	-10		83%	NA	NA	30.45	NA
25 00:55	Calm	10.00	Fair	CLR	-4	-7		86%	NA	NA	30.46	NA
25 00:35	Calm	10.00	Fair	CLR	-2	-5		89%	NA	NA	30.45	NA
25 00:15	Calm	10.00	Partly Cloudy	SCT110	-2	-4		91%	NA	NA	30.45	NA
24 23:55	Calm	10.00	Partly Cloudy	SCT100	-1	-3	11 -5	87%	NA	NA	30.46	NA
24 23:35	Calm	10.00	Fair	CLR	0	-3		86%	NA	NA	30.45	NA
24 23:15	Calm	10.00	Partly Cloudy	SCT110	-2	-5		87%	NA	NA	30.43	NA
24 22:55	Calm	10.00	Partly Cloudy	SCT100	-4	-8		83%	NA	NA	30.43	NA
24 22:35	N 6	10.00	Fair	CLR	0	-4		83%	-12	NA	30.43	NA

24	22:15	N 6	10.00	Fair	CLR	2	-2		81%	-9	NA	30.45	NA
24	21:55	N 3	10.00	Fair	CLR	4	-2		79%	NA	NA	30.45	NA
24	21:35	N 3	10.00	Fair	CLR	2	-3		80%	NA	NA	30.46	NA
24	21:15	NW 3	10.00	Fair	CLR	4	-2		78%	NA	NA	30.45	NA
24	20:55	NW 5	10.00	Fair	CLR	3	-2		78%	-7	NA	30.44	NA
24	20:35	N 6	10.00	Fair	CLR	4	-2		79%	-7	NA	30.43	NA
24	20:15	NW 7	10.00	Fair	CLR	5	-1		76%	-7	NA	30.43	NA
24	19:55	NW 6	10.00	Fair	CLR	4	-2		77%	-7	NA	30.42	NA
24	19:35	NW 7	10.00	Fair	CLR	4	-1		77%	-8	NA	30.42	NA
24	19:15	NW 7	10.00	Fair	CLR	8	1		72%	-3	NA	30.41	NA
24	18:55	NW 7	10.00	Fair	CLR	8	1		72%	-3	NA	30.40	NA
24	18:35	NW 8	10.00	Fair	CLR	9	1		72%	-3	NA	30.39	NA
24	18:15	NW 9	10.00	Fair	CLR	10	2		70%	-3	NA	30.39	NA
24	17:55	NW 7	10.00	Fair	CLR	12	3	16 12	69%	1	NA	30.39	NA
24	17:35	NW 10	10.00	Fair	CLR	13	4		66%	0	NA	30.39	NA
24	17:15	NW 10	10.00	Fair	CLR	14	5		67%	1	NA	30.39	NA
24	16:55	NW 14	10.00	Fair	CLR	15	5		65%	0	NA	30.39	NA
24	16:35	NW 14	10.00	Fair	CLR	15	6		66%	0	NA	30.39	NA
24	16:15	NW 14	10.00	Fair	CLR	15	6		66%	0	NA	30.39	NA
24	15:55	NW 13	10.00	Fair	CLR	16	6		64%	2	NA	30.38	NA

Date	Time (cst)	Wind (mph)	Vis. (mi.)	Weather	Sky Cond.	Air		Max. Min.		Relative Humidity	Wind Chill (°F)	Heat Index (°F)	altimeter (in.)	sea level (mb)	1	3	6 hr
						Dwpt	6 hour	hr	hr								
															Temperature (°F)		

National Weather Service
Southern Region Headquarters
Fort Worth, Texas
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ATTACHMENT IV

Photographs

(6 pages)



Photograph 1
Date: February 27, 2019
Photographer: Jason Holsten
Camera: Nikon Coolpix L810
IIS# 84069, IWM Permit # NE0204447
NEC# 022619-KM-1735
Subject: AltEn, LLC Complaint Investigation

Looking south southeast, photograph showing numerous cubic yard sacks of Biochar. Facility representatives estimated there were approximately 100.



Photograph 2
Date: February 27, 2019
Photographer: Jason Holsten
Camera: Nikon Coolpix L810
IIS# 84069, IWM Permit # NE0204447
NEC# 022619-KM-1735
Subject: AltEn, LLC Complaint Investigation

Looking east, photograph taken from the western edge of the permitted compost pad. Observable were approximately 4 small windrows of WDG and WDG/Biochar.



Photograph 3
Date: February 27, 2019
Photographer: Jason Holsten
Camera: Nikon Coolpix L810
IIS# 84069, IWM Permit # NE0204447
NEC# 022619-KM-1735
Subject: AltEn, LLC Complaint Investigation

Looking south, photograph showing the small windrows mentioned in Photograph 2.



Photograph 4
Date: February 27, 2019
Photographer: Jason Holsten
Camera: Nikon Coolpix L810
IIS# 84069, IWM Permit # NE0204447
NEC# 022619-KM-1735
Subject: AltEn, LLC Complaint Investigation

Photograph showing piles of WDG located on the "John Divis The Y" property.



Photograph 5
Date: February 27, 2019
Photographer: Jason Holsten
Camera: Nikon Coolpix L810
IIS# 84069, IWM Permit # NE0204447
NEC# 022619-KM-1735
Subject: AltEn, LLC Complaint Investigation

Looking north northwest, photograph showing piles of WDG located on the "John Divis City of Wahoo" property.



Photograph 6
Date: February 27, 2019
Photographer: Jason Holsten
Camera: Nikon Coolpix L810
IIS# 84069, IWM Permit # NE0204447
NEC# 022619-KM-1735
Subject: AltEn, LLC Complaint Investigation

Photograph showing piles of WDG located on the "Larry Cuda" property.



Photograph 7
Date: February 27, 2019
Photographer: Jason Holsten
Camera: Nikon Coolpix L810
IIS# 84069, IWM Permit # NE0204447
NEC# 022619-KM-1735
Subject: AltEn, LLC Complaint Investigation

Looking west, photograph showing WDG that had been land applied on the "John Divis Rita 80" property.



Photograph 8
Date: February 27, 2019
Photographer: Jason Holsten
Camera: Nikon Coolpix L810
IIS# 84069, IWM Permit # NE0204447
NEC# 022619-KM-1735
Subject: AltEn, LLC Complaint Investigation

Looking north, photograph showing piles of WDG on the "John Divis Rita 80" property as well as the equipment used to spread the WDG onto the field.



Photograph 9
Date: February 27, 2019
Photographer: Jason Holsten
Camera: Nikon Coolpix L810
IIS# 84069, IWM Permit # NE0204447
NEC# 022619-KM-1735
Subject: AltEn, LLC Complaint Investigation

Another photograph showing a slightly different view of the previous photograph.



Photograph 10
Date: February 27, 2019
Photographer: Jason Holsten
Camera: Nikon Coolpix L810
IIS# 84069, IWM Permit # NE0204447
NEC# 022619-KM-1735
Subject: AltEn, LLC Complaint Investigation

Photograph looking east showing WDG land applied on the "John Divis Rita 80" property as well as a loader used to load the WDG into the spreader.



Photograph 11

Date: February 27, 2019

Photographer: Jason Holsten

Camera: Nikon Coolpix L810

IIS# 84069, IWM Permit # NE0204447

NEC# 022619-KM-1735

Subject: AltEn, LLC Complaint Investigation

Looking west, photograph showing WDG that had recently been hauled to this location, "John Divis Airport."