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Thursday December 7, 2023

Theresa Stiner
Iowa Department of Natural Resources
Land Quality Bureau
502 E 9th Street
Des Moines, IA 50319-0034

Re: Prestage Foods of Iowa, Eagle Grove: Permit # 99-SDP-06-19
Land Application of Solid Waste Additional Sites Application

Ms. Stiner,

Enclosed is an application to add additional land application sites to the referenced permit for Prestage Foods of Iowa. There are a few items to note in the checklist.

- There will be no increased volume for storage since the previous permit renewal application, so the closure cost estimate has not been revised.
- Land application sites will be or have been soil sampled as necessary prior to application for each site when conditions are suitable.

If you have any questions, please do not hesitate to call.

Sincerely,

Michael Klema
Environmental Land Management, LLC

Cc: IDNR FO #2, 2300 15th St SW, Mason City, IA 50401



IOWA DEPARTMENT OF NATURAL
RESOURCES

Land Application of
Solid Waste



Additional Sites

Application to add sites to an existing solid waste land application permit must be accompanied by the information required by the applicable solid waste rules under Iowa Administrative Code 567 Chapter 121.

Send completed applications with attached information to:

Iowa Department of Natural Resources
Land Quality Bureau
Solid Waste Section
502 East Ninth Street
Des Moines, IA 50319-0034

For questions concerning this application please contact the Department at (515) 281-8646.

SECTION 1. FACILITY CONTACT INFORMATION

Permit # 99 -SDP- 06 - 19P -LAN

Solid Waste Generator Name/Address:



Prestage Foods of Iowa, 3183 Highway 17, Eagle Grove, IA 50533

Phone #: 515-448-2700 Fax #: 515-233-8201

SECTION 2. PERMIT APPLICATION CHECKLIST

Checking the appropriate boxes below certifies that the documents submitted in conjunction with this application form are complete and in compliance with the applicable chapters of the Iowa Administrative Code. One (1) copy of each document shall be submitted. If an application is found by the department to be incomplete, it may be denied and returned to the applicant.

Required Documents			Attached
	Document/Information	Administrative Code	
Section A	List of all the sites being added. For each site include: <ul style="list-style-type: none">Name of siteLegal description of the siteTotal acres in the siteAcres to be used for disposalName of landowner or tenant		X <input checked="" type="checkbox"/>
Section B	Financial Assurance. If the additional site(s) will include additional storage of materials, include a revised cost estimate and proof of financial assurance in the revised amount.	IAC 567 121.8	*Checklist

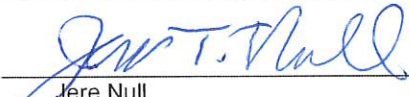
For each site attach the following:			
Section C	Site map or aerial photo of the site showing the following: <ul style="list-style-type: none"> • The specific area where the material will be applied • Buildings, lakes, ponds, watercourses, wetlands, dry runs, rock outcroppings, roads, and other applicable details. • Soil types and slope • Location of wells <p><i>Please remember that the area to be used for land disposal:</i></p> <ul style="list-style-type: none"> • may not have a slope of greater than 9%, • may not be within 200 feet of an occupied residence • may not be within 500 feet of a well <p><i>If the specific area requested includes any of the above the entire field will not be approved.</i></p>	IAC 567 121.7(1)"a"(1) IAC 567 121.7(1)"a"(1) IAC 567 121.7(1)"a"(2) IAC 567 121.7(1)"a"(1)	X 
Section D	Soil testing	IAC 567 121.7(1)"a"(9)	*Checklist
Section E	Water table levels	IAC 567 121.7(1)"a"(10)	X
Section F	Review by Soil Conservation District that includes the following: <ul style="list-style-type: none"> • Soil loss limits applicable to the site • Design soil loss levels for the site • Estimated current soil loss levels <p><i>The review may be done by the Natural Resources Conservation Service or a Professional Agronomist in lieu of the Soil Conservation District.</i></p>	IAC 567 121.7(1)"a"(3) IAC 567 121.7(1)"a"(6) IAC 567 121.7(1)"a"(7) IAC 567 121.7(1)"a"(8)	X 
Section G	Proof of ownership or legal entitlement to use the site. (Agreement with landowner or tenant) <i>One document may be submitted for multiple sites with the same landowner or tenant.</i>	IAC 567 121.7(1)"b"(6)	X

SECTION 3. APPLICANT CERTIFICATION

CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete.

I further certify that the construction and operation of the above described facility will be in accordance with the plans, specifications, reports and related communications accepted by the Iowa Department of Natural Resources and on file in its office; and in accordance with conditions imposed in the permit issued by the Iowa Department of Natural Resources.

Signature:  Date: 12/7/2023
 Printed Name: Jere Null Title: CEO

Prestage Foods of Iowa, Eagle Grove

**Iowa DNR Land Application Permit # 99-SDP-06-19
Additional Sites Application Checklist: Sections A-G**

A. List of All Sites Being Added

1. See attached Additional Sites List and Table 1 Master Site List including additional land application site and all previously approved land application sites. Each site list includes:
 - i. Name of Site
 - ii. Legal Description of Site
 - iii. Total Acres in the Site
 - iv. Acres to be used for disposal / Suitable Acres
 - v. Name of Landowner or Tenant

B. Financial Assurance

1. Financial assurance will not be updated or changed due to this being a new site addition with no additional volumes expected.

C. Site Map or Aerial Photo of Sites

1. See attached aerial site map of each additional site detailing:
 - i. The specific area where the material will be applied
 1. Site boundaries outlined on each aerial map
 - ii. Buildings, lakes, ponds, watercourses, wetlands, dry runs, rock outcroppings, roads, and other applicable details
 1. Site features and setbacks detailed on aerial maps
 - iii. Soil types and slope
 1. NRCS soil maps attached for each site
 - iv. Location of wells
 1. IDNR Well Search information attached for each site and active wells highlighted on aerial maps by 500 foot circular setback

D. Soil Testing

1. Soil testing will be completed as soon as possible prior to application of the site. Additional site soil sampling will be completed as necessary when site is used for application and discussed in annual agronomist reports.

E. Water Table Levels

1. See attached Depth to Water Table outline for each specific site provided by NRCS.

F. Review by Professional Agronomist

1. See attached land application site suitability review performed by Extended Ag Services discussing soil loss levels through erosion and flooding potential.
 - i. Extended Ag Services - Jim Nesselth, Certified Agronomist, License # 17118 and Andy Nesselth, Environmental Consultant.
2. See attached T Factor erosion potential outlines for each specific site provided by NRCS.

G. Proof of Ownership or Legal Entitlement to Use the Site

1. See attached Contractual Consent of Landowner, Lessee and/or Land Operator for the specific individual with this additional sites application.

Prestage Foods Table 1 Master Land Application Site List: Permit # 99-SDP-06-19P

Site Name	Legal Description	Section	Township	Tier, Range	County	State	Acreage	Farmer Name
Durschmidt Hammer	SW 1/4 and W 1/2 of SE 1/4	8	Webster	T87N, R26W	Hamilton	IA	189	Jason Durschmidt
Harmon Newark 13	SW 1/4	13	Newark	T90N, R27W	Webster	IA	155	Sean Harmon
Harmon Newark 24	E 1/4 of NE 1/4 Sec 23; 1/2 of the NW 1/4 Sec 24	23, 24	Newark	T90N, R27W	Webster	IA	90	Sean Harmon
Harmon Newark 25-26-27	W 1/2 of NW 1/4 Sec 25; N 1/2 and N 1/2 of SW 1/4 Sec 26; NE 1/4 Sec 27	25, 26, 27	Newark	T90N, R27W	Webster	IA	573	Sean Harmon
Harmon Newark Troy 12-7	SE 1/4 Sec 12; SW 1/4 Sec 7	12, 7	Newark, Troy	T90N, R26W	Wright, Webster	IA	300	Sean Harmon
Harmon Newark Troy 13-18	SE 1/4 of SE 1/4 Sec 13; S 1/2 of SW 1/4 Sec 18	13 - Newark; 18 - Troy	Newark, Troy	T90N, R27W; T90N, R26W	Webster, Wright	IA	116	Sean Harmon
Harmon Sparboe NW	SW 1/4	16	Troy	T90N, R26W	Wright	IA	101	Sean Harmon
Harmon Troy 17-18	NW 1/4 Sec 17; E 1/2 NE 1/4 Sec 18	17, 18	Troy	T90N, R26W	Wright	IA	227	Sean Harmon
Harmon Troy 21	SW 1/4 and NE 1/4	21	Troy	T90N, R26W	Wright	IA	286	Sean Harmon
Harmon Troy 14	NE 1/4 and E 1/2 of NW 1/4	14	Troy	T90N, R26W	Wright	IA	228	Sean Harmon
Harmon Wagner	E 1/2 of SE 1/4, S 1/2 of NE 1/4	4	Newark	T90N, R27W	Webster	IA	155	Sean Harmon
Stanek Elkhorn 27-28	NW 1/4 Sec 27; E 1/2 of NE 1/4 Sec 28	27, 28	Elkhorn	T88N, R29W	Webster	IA	270	Jeff Stanek
Stanek Elkhorn 28-29-32	NW 1/4 of SW 1/4 Sec 28; SE 1/4 Sec 29; N 1/2 of SE 1/4 Sec 32	28, 29, 32	Elkhorn	T88N, R29W	Webster	IA	257	Jeff Stanek
Stanek Elkhorn 33	E 1/2 of NW 1/4 and W 1/2 of NE 1/4	33	Elkhorn	T88N, R29W	Webster	IA	136	Jeff Stanek
Pliner Allard 11	E 1/2 of NW 1/4	11	Douglas	T89N, R29W	Webster	IA	35	Alex Pliner
Pliner Gerken 5	NE 1/4 of NE 1/4	5	Clay	T87N, R29W	Webster	IA	27	Alex Pliner
Pliner Gerken 22	NE 1/4	22	Elkhorn	T88N, R29W	Webster	IA	131	Alex Pliner
Pliner Katnik 15	NE 1/4	15	Elkhorn	T88N, R29W	Webster	IA	127	Alex Pliner
Pliner Kendal 2	S 1/2 of NW 1/4	2	Clay	T87N, R29W	Webster	IA	65	Alex Pliner
Pliner Kendal 23	NW 1/4	23	Elkhorn	T88N, R29W	Webster	IA	149	Alex Pliner
Pliner Kendal 33	SW 1/4	33	Elkhorn	T88N, R29W	Webster	IA	144	Alex Pliner
Pliner Stinnett 11	SW 1/4	11	Elkhorn	T88N, R29W	Webster	IA	84	Alex Pliner
Farmer Name	Address	Phone						
Sean Harmon - Harmon Farms	3510 NW 18th St, Ankeny, IA 50023	(515) 249-6555						
Jeff Stanek	2703 Indiana Ave, Callender, IA 50523	(515) 351-9656						
Alex Pliner	2510 Kansas Ave, Fort Dodge, IA 50501	(515) 570-2620						
Jason Durschmidt	832 N 2nd St, Fort Dodge, IA 50501	515-570-6322						

Prestage Foods New Site Site List: Permit # 99-SDP-06-19P

Site Name	Legal Description	Section	Township	Tier, Range	County	State	Acreage	Farmer Name
Harmon Wagner	E 1/2 of SE 1/4, S 1/2 of NE 1/4	4	Newark	T90N, R27W	Webster	IA	155	Sean Harmon
Harmon Sparboe NW	SW 1/4	16	Troy	T90N, R26W	Wright	IA	101	Sean Harmon
Farmer Name	Address	Phone						
Sean Harmon - Harmon Farms	3510 NW 18th St, Ankeny, IA 50023	(515) 249-6555						

Site Name:Harmon Wagner



Unsuitable for Land Application

Farmer Name: Sean Harmon Phone: (515)249-6555 Spreadable Acres: 155 Deliverable Tons: 1242

I certify I have followed all stockpiling and spreading rules provided by ELM.

Signature _____ Date _____

Soil Map—Webster County, Iowa



MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons

Soil Map Unit Lines

Soil Map Unit Points

Special Point Features

Blowout

Borrow Pit

Clay Spot

Closed Depression

Gravel Pit

Gravelly Spot

Landfill

Lava Flow

Marsh or swamp

Mine or Quarry

Miscellaneous Water

Perennial Water

Rock Outcrop

Saline Spot

Sandy Spot

Severely Eroded Spot

Sinkhole

Slide or Slip

Sodic Spot

Water Features

Streams and Canals

Transportation

Rails

Interstate Highways

US Routes

Major Roads

Local Roads

Background

Aerial Photography

Spoil Area

Stony Spot

Very Stony Spot

Wet Spot

Other

Special Line Features

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:12,000.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL: <https://websoilsurvey.sc.egov.usda.gov/>

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Webster County, Iowa

Survey Area Data: Version 40, Sep 12, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Sep 5, 2021—Oct 14, 2021

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
6	Okoboji silty clay loam, 0 to 1 percent slopes	1.6	1.1%
55	Nicollet clay loam, 1 to 3 percent slopes	45.7	29.6%
107	Webster clay loam, 0 to 2 percent slopes	59.5	38.5%
138B	Clarion loam, 2 to 6 percent slopes	8.4	5.4%
507	Canisteo clay loam, 0 to 2 percent slopes	39.2	25.4%
Totals for Area of Interest		154.5	100.0%

T Factor

Map unit symbol	Map unit name	Rating (tons per acre per year)	Acres in AOI	Percent of AOI
62E2	Storden loam, 10 to 22 percent slopes, moderately eroded	5	0.6	0.6%
107	Webster clay loam, 0 to 2 percent slopes	5	41.3	40.5%
138B	Clarion loam, 2 to 6 percent slopes	5	49.5	48.6%
138C2	Clarion loam, 6 to 10 percent slopes, moderately eroded	5	9.5	9.3%
507	Canisteo clay loam, 0 to 2 percent slopes	5	1.0	1.0%
Totals for Area of Interest			101.9	100.0%

Description

The T factor is an estimate of the maximum average annual rate of soil erosion by wind and/or water that can occur without affecting crop productivity over a sustained period. The rate is in tons per acre per year.

Rating Options

Units of Measure: tons per acre per year

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Lower

Interpret Nulls as Zero: No

Depth to Water Table

Map unit symbol	Map unit name	Rating (centimeters)	Acres in AOI	Percent of AOI
62E2	Storden loam, 10 to 22 percent slopes, moderately eroded	>200	0.6	0.6%
107	Webster clay loam, 0 to 2 percent slopes	0	41.3	40.5%
138B	Clarion loam, 2 to 6 percent slopes	90	49.5	48.6%
138C2	Clarion loam, 6 to 10 percent slopes, moderately eroded	140	9.5	9.3%
507	Canisteo clay loam, 0 to 2 percent slopes	0	1.0	1.0%
Totals for Area of Interest			101.9	100.0%

Description

"Water table" refers to a saturated zone in the soil. It occurs during specified months. Estimates of the upper limit are based mainly on observations of the water table at selected sites and on evidence of a saturated zone, namely grayish colors (redoximorphic features) in the soil. A saturated zone that lasts for less than a month is not considered a water table.

This attribute is actually recorded as three separate values in the database. A low value and a high value indicate the range of this attribute for the soil component. A "representative" value indicates the expected value of this attribute for the component. For this soil property, only the representative value is used.

Rating Options

Units of Measure: centimeters

Aggregation Method: Dominant Component

Component Percent Cutoff: None Specified

Tie-break Rule: Lower

Interpret Nulls as Zero: No

Beginning Month: January

Ending Month: December

Well Search

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Well Search Report

Site: Harmon Wagner

Included in search	No. of wells	Database
X	35	IGS well database General well database maintained by IGS, location accuracy varies 3,730 to 25 ft., last updated 8/2005.
X	0	Public wells Municipal and nonmunicipal public well databases maintained by IGS, location varies 3,730 to 25 ft., under development.
X	0	SDWIS public wells Public well database developed from the Safe Drinking Water Information System database maintained by IDNR, estimated locational accuracy varies from 15m. to 3300m. Created from 5/2005 data.
X	7	Private well tracking system IDNR database management system for Grants-to-counties-covered wells. Locational accuracy unknown, assumed to be +/- 17 m., Last update 7/2005.
X	2	Wells registered for testing Wells tested under Grant-to-Counties program. Locational accuracy varies 1150 to 150 m.; Last update 9/2001, no future updates planned.
X	0	Permitted private wells Wells permitted under Grant-to-Counties program. Locational accuracy varies 1150 to 150 m.; Last update 9/2001, no future updates planned.
X	3	Registered abandoned wells Wells abandoned under Grant-to-Counties program. Locational accuracy varies 1150 to 150 m.; Last update 9/2001, no future updates planned.
X	0	Water use facilities Wells used by facilities permitted to withdraw >25,000 gallons per day, locational accuracy is +/-20m to 1150 m. Created from 7/2005 data.
X	0	Municipal wells and intakes Locational accuracy 220 m., last updated 8/96.
X	1	Ag drainage wells Locational accuracy 100 m., last updated 4/98.

Well Search Detail

Subject: XY UTM Coordinates: 415351/4721012
Search Radius (mi): 1

IGS Well Database								
Map ID	Well No.	Location	Accuracy	Dist. From Point	Well Depth	Construction/ Permit Date	Owner/Permittees	Other Information
90367	31747	T90N, R27W, 3, NW NW SW SE SE	Calc. +/- 115 ft.	(m)	2192	10/4/1965	Anderson	Bedrock Depth: 0 Well Type: Gas Storage
90407	16939	T90N, R27W, 3, NW SW SW SW	Calc. +/- 230 ft.	263 (m)	2151	9/8/1964	Anderson	Bedrock Depth: 85 Well Type: Gas Storage
90460	27204	T90N, R27W, 3, NW SW	Calc. +/- 930 ft.	472 (m)	2200	6/30/1971	Anderson	Bedrock Depth: 80 Well Type: Gas Storage
91009	31748	T90N, R27W, 3, NW SE SE SE SE	Calc. +/- 115 ft.	954 (m)	2212	3/28/1966	Anderson	Bedrock Depth: 0 Well Type: Gas Storage
90020	31749	T90N, R27W, 4, NE SW SE SE SW	Calc. +/- 115 ft.	337 (m)	366	9/30/1967	Ekstrom	Bedrock Depth: 0 Well Type: Gas Storage
90765	5857	T90N, R27W, 9, NE SE NE	Calc. +/- 470 ft.	1193 (m)	70	10/30/1952	From, Forest	Bedrock Depth: 40 Well Type: Other
89426	16964	T90N, R27W, 4, SW SW SW SW	Calc. +/- 230 ft.	(m)	2310	8/6/1964	Hofmann	Bedrock Depth: 118 Well Type: Gas Storage
89452	14096	T90N, R27W, 4, SW SW SW	Calc. +/- 470 ft.	1466 (m)	519	9/18/1962	Hofmann	Bedrock Depth: 100 Well Type: Gas Storage
89798	14095	T90N, R27W, 4, SW SE SW	Calc. +/- 470 ft.	1108 (m)	433	9/10/1962	Hofmann	Bedrock Depth: 77 Well Type: Gas Storage
89804	18690	T90N, R27W, 4, SW NE SE	Calc. +/- 470 ft.	765 (m)	2250	9/3/1966	Hofmann	Bedrock Depth: 0 Well Type: Gas Storage
89595	17038	T90N, R27W, 4, SW	Calc. +/- 1870 ft.	1082 (m)	2175	10/28/1964	Hofmann	Bedrock Depth: 0 Well Type: Gas Storage
89634	14093	T90N, R27W, 4, SW SW SE	Calc. +/- 470 ft.	1284 (m)	330	1/1/1962	Hofmann	Bedrock Depth: 70 Well Type: Gas Storage
88671	14094	T90N, R27W, 5, NE NE NE NW	Calc. +/- 230 ft.	(m)	510	10/23/1962	Kelly	Bedrock Depth: 90 Well Type: Gas Storage
88757	16943	T90N, R27W, 5,	Calc. +/- 230 ft.	(m)	161	6/6/1964	Kelly	Bedrock Depth: 82 Well Type:

		NE NE NE NE						Gas Storage
89408	12021	T90N, R27W, 4, NW NE NE	Calc. +/- 470 ft.	1073 (m)	398	10/26/1959	Maage	Bedrock Depth: 80 Well Type: Gas Storage
89409	31751	T90N, R27W, 4, NW NE NE	Calc. +/- 470 ft.	1073 (m)	1350	5/18/1969	Maage	Bedrock Depth: 0 Well Type: Gas Storage
89254	17079	T90N, R27W, 4, NW	Calc. +/- 1870 ft.	1146 (m)	125	6/11/1964	Maage	Bedrock Depth: 80 Well Type: Gas Storage
89003	17097	T90N, R27W, 4, NW NW	Calc. +/- 930 ft.	1411 (m)	500	6/1/1964	Maage	Bedrock Depth: 70 Well Type: Gas Storage
90027	17288	T91N, R27W, 34, SW SW NW NW	Calc. +/- 230 ft.	1250 (m)	447	11/16/1964	Nessa	Bedrock Depth: 130 Well Type: Gas Storage
90143	17289	T91N, R27W, 34, SW SW SW	Calc. +/- 470 ft.	1017 (m)	404	11/12/1964	Nessa	Bedrock Depth: 80 Well Type: Gas Storage
90144	18670	T91N, R27W, 34, SW SW SW	Calc. +/- 470 ft.	1017 (m)	2230	1/1/1966	Nessa	Bedrock Depth: 0 Well Type: Gas Storage
90443	17799	T91N, R27W, 34, SW SE SW	Calc. +/- 470 ft.	1191 (m)	2250	8/15/1965	Nessa	Bedrock Depth: 0 Well Type: Gas Storage
89285	11598	T90N, R27W, 8, NE NE NE NW	Calc. +/- 230 ft.	(m)	623	11/20/1959	Olson	Bedrock Depth: 115 Well Type: Gas Storage
91301	17095	T90N, R27W, 10, NW NE NE	Calc. +/- 470 ft.	1164 (m)	400	8/12/1964	Peterson	Bedrock Depth: 0 Well Type: Gas Storage
91340	11749	T90N, R27W, 10, NW NE NE NE	Calc. +/- 230 ft.	1169 (m)	2186	2/7/1960	Peterson	Bedrock Depth: 65 Well Type: Gas Storage
91474	31752	T90N, R27W, 10, NW NE SE SE SE	Calc. +/- 115 ft.	1416 (m)	350	2/2/1966	Peterson	Bedrock Depth: 0 Well Type: Gas Storage
90888	15523	T90N, R27W, 10, NW SW NW NW	Calc. +/- 230 ft.	1161 (m)	2213	11/1/1963	Sharp	Bedrock Depth: 45 Well Type: Gas Storage
90610	11637	T90N, R27W, 9, NE NE NE	Calc. +/- 470 ft.	784 (m)	338	10/1/1959	Sharp	Bedrock Depth: 80 Well Type: Gas Storage
90159	11748	T90N, R27W, 9, NE NW NW	Calc. +/- 470 ft.	951 (m)	367	11/27/1959	Sharp	Bedrock Depth: 70 Well Type: Gas Storage
90636	18703	T90N, R27W, 9, NE NE NE NE	Calc. +/- 230 ft.	739 (m)	2170	1/1/1966	Sharp	Bedrock Depth: 0 Well Type: Gas Storage

90637	17798	T90N, R27W, 9, NE NE NE NE	Calc. +/- 230 ft.	739 (m)	2170	7/5/1965	Sharp	Bedrock Depth: 0 Well Type: Gas Storage
90692	11111	T90N, R27W, 9, NE NE SE	Calc. +/- 470 ft.	988 (m)	90	1/1/1959	Sharp, Raymond	Bedrock Depth: 65 Well Type: Private
89653	17283	T91N, R27W, 33, SE	Calc. +/- 1870 ft.	1301 (m)	288	11/6/1964	Stueland	Bedrock Depth: 95 Well Type: Gas Storage
89187	5067	T91N, R27W, 33, SW SE	Calc. +/- 930 ft.	1363 (m)	164	1/1/1951	Stueland, Erik	Bedrock Depth: 110 Well Type: Private
90625	54067	T90N, R27W, 3, SW SW NW	Calc. +/- 470 ft.	469 (m)	0	NULL	Voss, Delmer	Bedrock Depth: 70 Well Type: Oil Exploration

Public Wells

Map ID	Well No.	Location	Accuracy	Dist. From Point	Well Depth	Construction/ Permit Date	Owner/Permittees	Other Information
No records found from this data source								

SDWIS public wells

Map ID	Well No.	Location	Accuracy	Dist. From Point	Well Depth	Construction/ Permit Date	Owner/Permittees	Other Information
No records found from this data source								

Private Well Tracking System

Map ID	Well No.	Location	Accuracy	Dist. From Point	Well Depth	Construction/ Permit Date	Owner/Permittees	Other Information
89201	2126489	T90N, R27W, S4	nom. +/- 25m.	(m)	200	1/1/1950	Dencklau, William & Luann	Status: Active
90702	2126843	T90N, R27W, S4	nom. +/- 25m.	867 (m)	90	1/1/1940	Harmon, Dave	Status: Plugged
90722	2143048	T91N, R27W, S34	nom. +/- 25m.	1457 (m)	110	1/1/1960	Law, Ryan	Status: Active
89854	2147472	T91N, R27W, S33	nom. +/- 25m.	1027 (m)	40	1/1/1960	Stanberg, Andy	Status: Active
89963	2219130	T91N, R27W, S33	nom. +/- 25m.	931 (m)	100	1/1/1900	Stanburg, James	Status: Active
90758	2149402	T90N, R27W, S9	nom. +/- 25m.	1050 (m)	90	1/1/1959	Terwilliger, David	Status: Active
90729	2209398	T90N, R27W, S3	nom. +/- 25m.	565 (m)	130	6/14/1950	Voss, Delmer	Status: Active

Wells Registered For Testing

Map ID	Well No.	Location	Accuracy	Dist. From Point	Well Depth	Construction/ Permit Date	Owner/Permittees	Other Information
90992	28168	T91N, R27W, Sec. 34, SE, NE, SW	Calc. +/- 285m.	(m)	132	1991	Lund, Vanetta	Drilling method: Drilled; Known well depth
90277	58817	T91N, R27W, Sec. 34, SW, SW, SE	Calc. +/- 140m.	1094 (m)	unkn	unkn	Powell, Jacob/Mary	Drilling method: Drilled; Well depth is uncertain

Permitted Private Wells

Map ID	Well No.	Location	Accuracy	Dist. From Point	Well Depth	Construction/ Permit Date	Owner/Permittees	Other Information
No records found from this data source								

Abandoned Wells (plugged)

Map ID	Well No.	Location	Accuracy	Dist. From Point	Well Depth	Construction/ Permit Date	Owner/Permittees	Other Information
90999	5068	T91N, R27W, Sec. 34, SE, NE, NE	Calc. +/- 285m.	(m)	unkn	n.a.	Lund, Vanetta	Well plugged: nil; Well type: unkn
89637	23632	T90N, R27W, Sec. 9, NW, NW, SW	Calc. +/- 140m.	(m)	100	n.a.	Schmalenberger, Mrs. Carl	Well plugged: 4/10/1996; Well type: < 18" dia.
89165	12714	T90N, R27W, Sec. 4, NW, SW, NW	Calc. +/- 140m.	1274 (m)	33	n.a.	Thomas, Harry E.	Well plugged: 9/19/1991; Well type: > 18" dia.

Water Use Facilities

Map ID	Well No.	Location	Accuracy	Dist. From Point	Well Depth	Construction/ Permit Date	Owner/Permittees	Other Information
No records found from this data source								

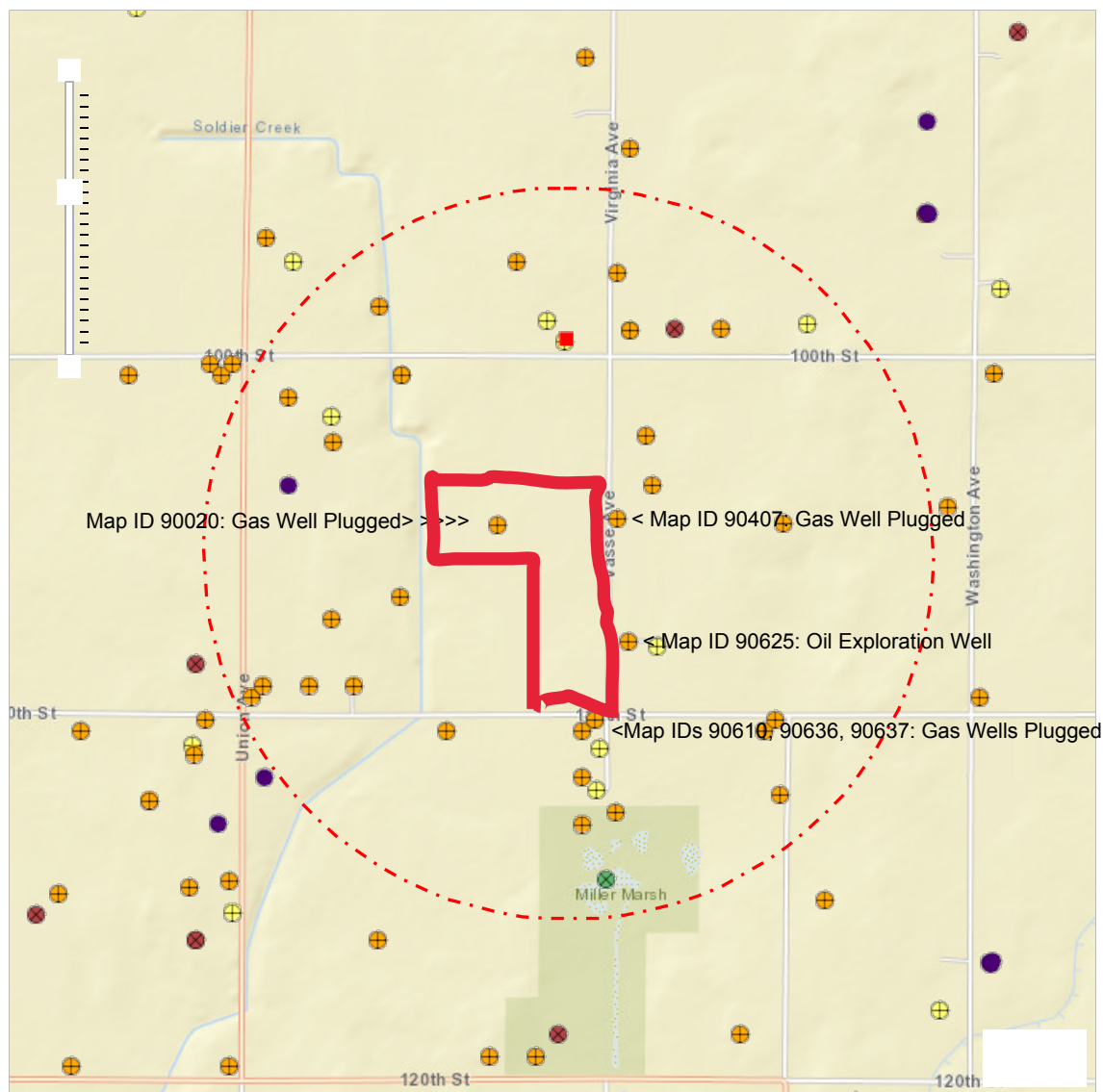
Municipal Wells And Intakes

Map ID	Well No.	Location	Accuracy	Dist. From Point	Well Depth	Construction/ Permit Date	Owner/Permittees	Other Information
No records found from this data source								

Ag Drainage Wells								
Map ID	Well No.	Location	Accuracy	Dist. From Point	Well Depth	Construction/ Permit Date	Owner/Permittees	Other Information
90971	9027W09AD01	T. 90N., R. 27W., Sec. 10, NW, SW, SW	+/- 15 m.	1444 (m)	0	no data	Deuel, Don	Status: Closed; Aquifer risk: high

Well Search Buffered Map

Subject: XY UTM Coordinates: 415351/4721012
Search Radius (mi): 1



Map Notes:

- UST
- ★ LUST
- Wells

Please refer to the Accuracy column in Well Search Detail.

Since multiple points can be at the same spot (as those located to the center of a quarter section), points were randomly dispersed within 10 meters around that spot so all points can be seen.

Site Name: Harmon Sparboe NW



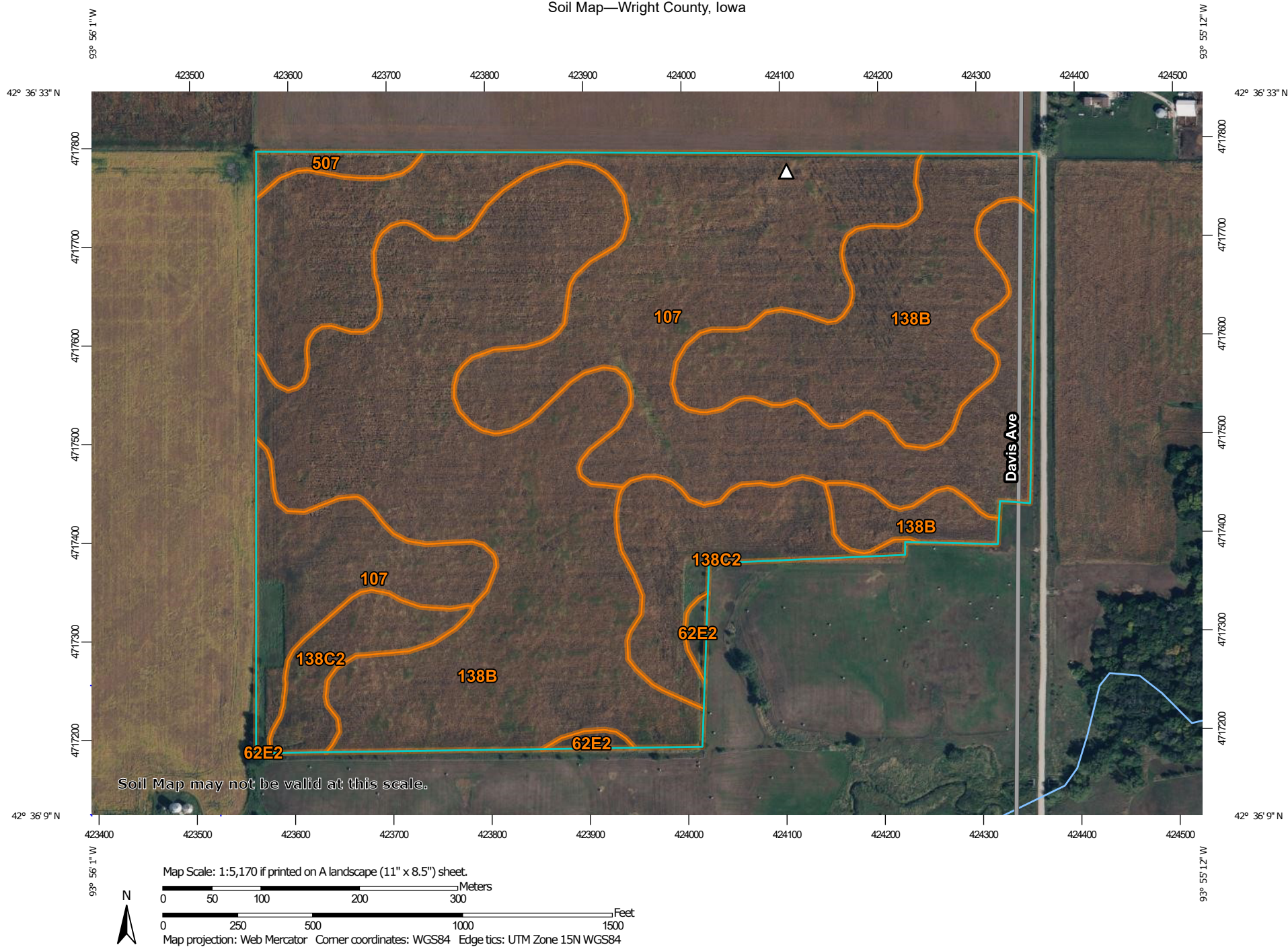
Unsuitable for Land Application

Farmer Name: Sean Harmon Phone: (515)249-6555 Spreadable Acres: 101 Deliverable Tons: 805

I certify I have followed all stockpiling and spreading rules provided by ELM.

Signature _____ Date _____

Soil Map—Wright County, Iowa



**Natural Resources
Conservation Service**

Web Soil Survey
National Cooperative Soil Survey

11/6/2023
Page 1 of 3

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
62E2	Storden loam, 10 to 22 percent slopes, moderately eroded	0.6	0.6%
107	Webster clay loam, 0 to 2 percent slopes	41.3	40.5%
138B	Clarion loam, 2 to 6 percent slopes	49.5	48.6%
138C2	Clarion loam, 6 to 10 percent slopes, moderately eroded	9.5	9.3%
507	Canisteo clay loam, 0 to 2 percent slopes	1.0	1.0%
Totals for Area of Interest		101.9	100.0%

T Factor

Map unit symbol	Map unit name	Rating (tons per acre per year)	Acres in AOI	Percent of AOI
62E2	Storden loam, 10 to 22 percent slopes, moderately eroded	5	0.6	0.6%
107	Webster clay loam, 0 to 2 percent slopes	5	41.3	40.5%
138B	Clarion loam, 2 to 6 percent slopes	5	49.5	48.6%
138C2	Clarion loam, 6 to 10 percent slopes, moderately eroded	5	9.5	9.3%
507	Canisteo clay loam, 0 to 2 percent slopes	5	1.0	1.0%
Totals for Area of Interest			101.9	100.0%

Description

The T factor is an estimate of the maximum average annual rate of soil erosion by wind and/or water that can occur without affecting crop productivity over a sustained period. The rate is in tons per acre per year.

Rating Options

Units of Measure: tons per acre per year

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Lower

Interpret Nulls as Zero: No

Depth to Water Table

Map unit symbol	Map unit name	Rating (centimeters)	Acres in AOI	Percent of AOI
62E2	Storden loam, 10 to 22 percent slopes, moderately eroded	>200	0.6	0.6%
107	Webster clay loam, 0 to 2 percent slopes	0	41.3	40.5%
138B	Clarion loam, 2 to 6 percent slopes	90	49.5	48.6%
138C2	Clarion loam, 6 to 10 percent slopes, moderately eroded	140	9.5	9.3%
507	Canisteo clay loam, 0 to 2 percent slopes	0	1.0	1.0%
Totals for Area of Interest			101.9	100.0%

Description

"Water table" refers to a saturated zone in the soil. It occurs during specified months. Estimates of the upper limit are based mainly on observations of the water table at selected sites and on evidence of a saturated zone, namely grayish colors (redoximorphic features) in the soil. A saturated zone that lasts for less than a month is not considered a water table.

This attribute is actually recorded as three separate values in the database. A low value and a high value indicate the range of this attribute for the soil component. A "representative" value indicates the expected value of this attribute for the component. For this soil property, only the representative value is used.

Rating Options

Units of Measure: centimeters

Aggregation Method: Dominant Component

Component Percent Cutoff: None Specified

Tie-break Rule: Lower

Interpret Nulls as Zero: No

Beginning Month: January

Ending Month: December

Well Search

[Print](#) | [Help](#) |

Well Search Report

Site: Harmon Sparboe NW

Included in search	No. of wells	Database
X	19	IGS well database General well database maintained by IGS, location accuracy varies 3,730 to 25 ft., last updated 8/2005.
X	0	Public wells Municipal and nonmunicipal public well databases maintained by IGS, location varies 3,730 to 25 ft., under development.
X	3	SDWIS public wells Public well database developed from the Safe Drinking Water Information System database maintained by IDNR, estimated locational accuracy varies from 15m. to 3300m. Created from 5/2005 data.
X	21	Private well tracking system IDNR database management system for Grants-to-counties-covered wells. Locational accuracy unknown, assumed to be +/- 17 m., Last update 7/2005.
X	3	Wells registered for testing Wells tested under Grant-to-Counties program. Locational accuracy varies 1150 to 150 m.; Last update 9/2001, no future updates planned.
X	6	Permitted private wells Wells permitted under Grant-to-Counties program. Locational accuracy varies 1150 to 150 m.; Last update 9/2001, no future updates planned.
X	1	Registered abandoned wells Wells abandoned under Grant-to-Counties program. Locational accuracy varies 1150 to 150 m.; Last update 9/2001, no future updates planned.
X	5	Water use facilities Wells used by facilities permitted to withdraw >25,000 gallons per day, locational accuracy is +/-20m to 1150 m. Created from 7/2005 data.
X	0	Municipal wells and intakes Locational accuracy 220 m., last updated 8/96.
X	0	Ag drainage wells Locational accuracy 100 m., last updated 4/98.

Well Search Detail

Subject: XY UTM Coordinates: 423968/4717546
Search Radius (mi): 1

IGS Well Database								
Map ID	Well No.	Location	Accuracy	Dist. From Point	Well Depth	Construction/ Permit Date	Owner/Permittees	Other Information
98157	93399	T90N, R26W, 20, NE SW NE	GPS	(m)	490	10/10/2019	DayBreak Foods Inc	Bedrock Depth: 168 Well Type: Livestock
98098	93398	T90N, R26W, 20, NE SW NE	GPS	(m)	495	10/23/2019	DayBreak Foods Inc	Bedrock Depth: 162 Well Type: Livestock
98700	35262	T90N, R26W, 16, SW SE SW	Calc. +/- 470 ft.	(m)	392	9/30/1994	Miller, Al	Bedrock Depth: 112 Well Type: Livestock
100007	89295	T90N, R26W, 21, SE NE NE	Calc. +/- 470 ft.	(m)	452	3/25/2017	Prestage Foods	Bedrock Depth: 82 Well Type: Commercial
98236	59958	T90N, R26W, 17, SE SE SE	Maps/Air Photos +/- 20 m.	587 (m)	410	3/8/2005	Prestage-Stoecker	Bedrock Depth: 125 Well Type: Livestock
98318	50909	T90N, R26W, 16, NW NE NE	Calc. +/- 470 ft.	981 (m)	320	11/12/1999	Robert Newig Etal	Bedrock Depth: 76 Well Type: Private
97076	72835	T90N, R26W, 17, NW NE NE	Calc. +/- 470 ft.	1592 (m)	170	9/22/2010	Sparboe Farms	Bedrock Depth: 150 Well Type: Private
97550	63053	T90N, R26W, 20, NW NE NE	Maps/Air Photos +/- 20 m.	1522 (m)	320	1/23/2007	Sparboe Farms	Bedrock Depth: 29 Well Type: Private
98083	59724	T90N, R26W, 20, NE SW NE	Maps/Air Photos +/- 20 m.	(m)	475	9/29/2004	Sparboe Farms	Bedrock Depth: 155 Well Type: Public Supply
98278	38532	T90N, R26W, 20, SE NW NE	GPS +/- 15 m.	(m)	490	6/3/1996	Sparboe Farms (Eagle Grove)	Bedrock Depth: 178 Well Type: Public Supply
98421	73507	T90N, R26W, 20, NE NE SE	Calc. +/- 470 ft.	1014 (m)	484	12/1/2010	Sparboe Farms, Inc	Bedrock Depth: 136 Well Type: Private
98516	73508	T90N, R26W, 20, NE SE NE	Calc. +/- 470 ft.	1157 (m)	470	11/22/2010	Sparboe Farms, Inc.	Bedrock Depth: 142 Well Type: Private

98146	73510	T90N, R26W, 20, NE SW NE	Calc. +/- 470 ft.	1366 (m)	480	12/15/2010	Sparboe Farms, Inc.	Bedrock Depth: 160 Well Type: Private
98359	73509	T90N, R26W, 20, NE NE NE	Calc. +/- 470 ft.	813 (m)	483	12/7/2010	Sparboe Farms, Inc.	Bedrock Depth: 135 Well Type: Private
98040	48736	T90N, R26W, 17, SE SE	Calc. +/- 930 ft.	704 (m)	0	11/5/1993	Swineco, Inc.	Bedrock Depth: 0 Well Type: Unknown
99574	6967	T90N, R26W, 16, SE SE SE	Calc. +/- 470 ft.	1192 (m)	130	1/1/1954	Troy Center School	Bedrock Depth: 80 Well Type: Public Supply
98033	32814	T90N, R26W, 9, SW SE SW	Calc. +/- 470 ft.	1142 (m)	337	10/13/1994	Troy Pork	Bedrock Depth: 155 Well Type: Livestock
97791	48737	T90N, R26W, 9, SW SW	Calc. +/- 930 ft.	1256 (m)	0	5/25/1994	Troy Pork, Inc.	Bedrock Depth: 0 Well Type: Unknown
99785	16070	T90N, R26W, 15, SW SW SW	Calc. +/- 470 ft.	1377 (m)	134	10/10/1961	Wright Co. Conserv. Board	Bedrock Depth: 70 Well Type: Public Supply

Public Wells

Map ID	Well No.	Location	Accuracy	Dist. From Point	Well Depth	Construction/ Permit Date	Owner/Permittees	Other Information
No records found from this data source								

SDWIS public wells

Map ID	Well No.	Location	Accuracy	Dist. From Point	Well Depth	Construction/ Permit Date	Owner/Permittees	Other Information
98422	2587190	T90N, R26W, S20 NE NE SE	Map +/- 20 m	1014 (m)	484		DAYBREAK FOODS EAGLE GROVE COMPLEX	PWSID: IA9926801 STATUS: Not Used
98225	2583385	T90N, R26W, S20 SE NW NE	GPS +/- 15 m	(m)	385	7/30/1999	DAYBREAK FOODS EAGLE GROVE COMPLEX	PWSID: IA9926801 STATUS: Plugged
98228	2591663	T90N, R26W, S20 NE SW SE	GPS	(m)	505		DAYBREAK FOODS EAGLE GROVE COMPLEX	PWSID: IA9926801 STATUS: Active

Private Well Tracking System

Map ID	Well No.	Location	Accuracy	Dist. From Point	Well Depth	Construction/ Permit Date	Owner/Permittees	Other Information
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97069	2151183	T90N, R26W, S8	nom. +/- 25m.	1598 (m)	150	1/1/1964	Alesche, kate	Status: Active
98702	2226382	T90N, R26W, S16	nom. +/- 25m.	532 (m)	0		Anderson, Rod	Status: Permitted
96989	2225629	T90N, R26W, S8	nom. +/- 25m.	(m)	0		BMC Rentals	Status: Permitted
98099	2208793	T90N, R26W, S20	nom. +/- 25m.	1460 (m)	0		Daybreak Foods	Status: Permitted
98156	2208795	T90N, R26W, S20	nom. +/- 25m.	1423 (m)	0		Daybreak Foods	Status: Permitted
99208	2185709	T90N, R26W, S21	nom. +/- 25m.	(m)	150	1/1/1980	Jones, Gaylord	Status: Active
99605	2154515	T90N, R26W, S16	nom. +/- 25m.	1219 (m)	100	1/1/1960	Larson , John	Status: Active
99118	2180986	T90N, R26W, S10	nom. +/- 25m.	(m)	150	1/1/1965	Linn, Alan	Status: Active
98025	2094795	T90N, R26W, S9	nom. +/- 25m.	1068 (m)	200	1/1/1980	Murphy Family Farms	Status: Active
98365	2105233	T90N, R26W, S17	nom. +/- 25m.	(m)	410	3/8/2005	Prestage-Stoecker	Status: Retired
98420	2215632	T90N, R26W, S16	nom. +/- 25m.	869 (m)	350	1/1/1965	school trust, Wilson Nevada	Status: Plugged
97553	2124704	T90N, R26W, S17	nom. +/- 25m.	1532 (m)	320	1/23/2007	Sparboe	Status: Active Logged
98198	2126034	T90N, R26W, S20	nom. +/- 25m.	1338 (m)	0		Sparboe - Eagle site well #4	Status: Permitted
97568	2132940	T90N, R26W, S17	nom. +/- 25m.	1539 (m)	75	1/1/1950	Sparboe Egg	Status: Plugged
97826	2151934	T90N, R26W, S20	nom. +/- 25m.	1512 (m)	484	12/6/2010	Sparboe Farms Troy Site Well #1 (Central Well)	Status: Active Logged
98544	2151936	T90N, R26W, S20	nom. +/- 25m.	1144 (m)	470	12/1/2010	Sparboe Farms Troy Site Well #2 (South Well)	Status: Active Logged
98357	2151935	T90N, R26W, S17	nom. +/- 25m.	813 (m)	483	12/14/2010	Sparboe Farms Troy Site Well #3 (North Well)	Status: Active Logged
98147	2151933	T90N, R26W, S20	nom. +/- 25m.	1366 (m)	484	12/21/2010	Sparboe Farms Woolstock Site Well #2 (South Well)	Status: Active Logged

97075	2150106	T90N, R26W, S17	nom. +/- 25m.	1594 (m)	170	9/22/2010	SPARBOE RENAISSANCE, L.L.C.	Status: Active Logged
100470	2174458	T90N, R26W, S22	nom. +/- 25m.	(m)	165	4/14/2014	Stein, Grant	Status: Active
97079	2151051	T90N, R26W, S8	nom. +/- 25m.	1589 (m)	150	1/1/1964	Thomas, Margaret	Status: Active

Wells Registered For Testing

Map ID	Well No.	Location	Accuracy	Dist. From Point	Well Depth	Construction/ Permit Date	Owner/Permittees	Other Information
99976	33453	T90N, R26W, Sec. 15, SW, SW, SE	Calc. +/- 140m.	1578 (m)	120	1980	Juhl, Dawson	Drilling method: Drilled;
99965	33454	T90N, R26W, Sec. 22, NW, NW, SW	Calc. +/- 140m.	1569 (m)	unkn	1982	Newcombe, Don	Drilling method: Drilled; Well depth is uncertain
97629	41177	T90N, R26W, Sec. 20, NW, NE, NE	Calc. +/- 140m.	1476 (m)	unkn	unkn	Plunkett, John	Drilling method: Drilled; Well depth is uncertain

Permitted Private Wells

Map ID	Well No.	Location	Accuracy	Dist. From Point	Well Depth	Construction/ Permit Date	Owner/Permittees	Other Information
98328	25975	T90N, R26W, Sec. 16, NW, NE, NE	Calc. +/- 140m.	975 (m)	unkn	11/12/1999	Nervig	Primary use: household
98262	25985	T90N, R26W, Sec. 20, SE, NW, NE	Calc. +/- 140m.	(m)	300	7/30/1999	Sparboe Farms Of la	Primary use: livestock
99886	15325	T90N, R26W, Sec. 15, SW, SW, NE	Calc. +/- 140m.	1528 (m)	unkn	12/20/1993	Unknown	Primary use: Domestic/household
99887	19984	T90N, R26W, Sec. 15, SW, SW, NE	Calc. +/- 140m.	1524 (m)	unkn	12/20/1993	Unknown	
98032	18405	T90N, R26W, Sec. 9, SW, SE, SW	Calc. +/- 140m.	1150 (m)	unkn	10/13/1994	Unknown	Primary use: Livestock/Agricultural

98183	17211	T90N, R26W, Sec. 17, SE, SE, SE	Calc. +/- 140m.	678 (m)	unkn	9/26/1994	Unknown	Primary use: Livestock/Agricultural
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Abandoned Wells (plugged)

Map ID	Well No.	Location	Accuracy	Dist. From Point	Well Depth	Construction/ Permit Date	Owner/Permittees	Other Information
98326	40033	T90N, R26W, Sec. 16, NW, NE, NE	Calc. +/- 140m.	990 (m)	270	n.a.	Nervig, Robert	Well plugged: 11/12/1999; Well type: < 18" dia.

Water Use Facilities

Map ID	Well No.	Location	Accuracy	Dist. From Point	Well Depth	Construction/ Permit Date	Owner/Permittees	Other Information
98279	3212	T90NR26WS20	nom. +/-100m.	(m)	490	7/23/2007	DAYBREAK FOODS EAGLE FARM (JULIA ROLSTON)	PermitID= 7917 well #4 2007
97948	30009	T90NR26WS20	nom. +/-100m.	1476 (m)	480		DAYBREAK FOODS EAGLE FARM (JULIA ROLSTON)	PermitID= 7917 7
98022	30014	T90NR26WS20	nom. +/-100m.	(m)	475	6/15/2004	DAYBREAK FOODS INC (JULIA ROLSTON)	PermitID= 10271 Well #1 (Woolstock)
98048	30016	T90NR26WS20	nom. +/-100m.	1588 (m)	50	7/1/2019	DAYBREAK FOODS INC (JULIA ROLSTON)	PermitID= 10271 Well #4 (woolstock)
100049	29493	T90NR26WS21	nom. +/-100m.	(m)	1988	6/28/2017	PRESTAGE FARMS, INC. (TOM FORD)	PermitID= 10251 Well #1 (2017)

Municipal Wells And Intakes

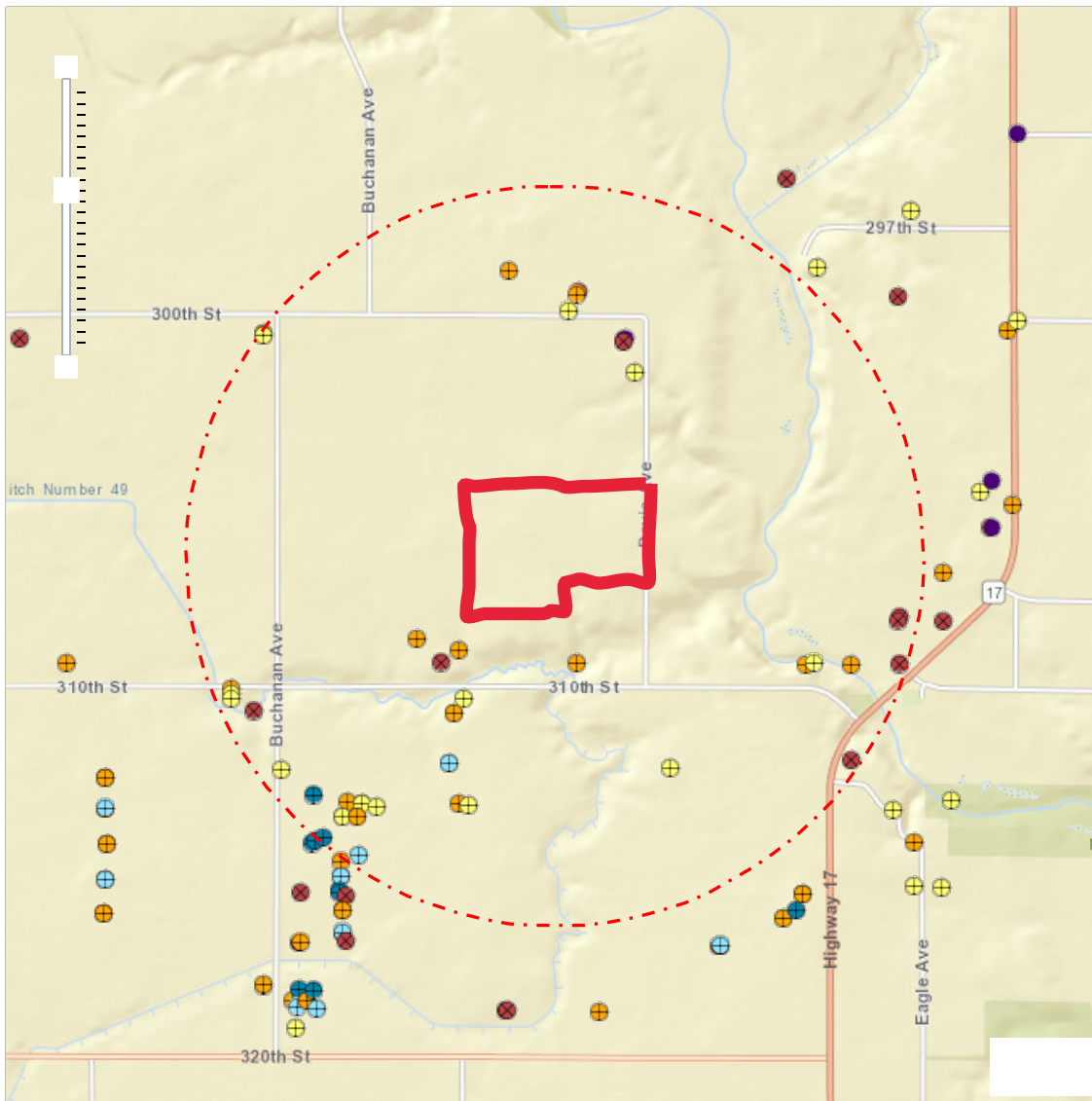
Map ID	Well No.	Location	Accuracy	Dist. From Point	Well Depth	Construction/ Permit Date	Owner/Permittees	Other Information
No records found from this data source								

Ag Drainage Wells

Map ID	Well No.	Location	Accuracy	Dist. From Point	Well Depth	Construction/ Permit Date	Owner/Permittees	Other Information
No records found from this data source								

Well Search Buffered Map

Subject: XY UTM Coordinates: 423968/4717546
Search Radius (mi): 1



Map Notes:

- UST
- ★ LUST
- Wells

Please refer to the Accuracy column in Well Search Detail.

Since multiple points can be at the same spot (as those located to the center of a quarter section), points were randomly dispersed within 10 meters around that spot so all points can be seen.



202 South Highway 86
Lakefield, MN 56150
507.662.5005 phone
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info@extendedag.com

November 2, 2023

Environmental Land Management

1602 11th Drive NE

Austin, MN 55912

RE: Review of Potential Land Application Sites – Prestage Foods

Michael,

We have completed our review of the proposed land application site for the Prestage Foods facility in Webster County, Iowa. Thank you for the opportunity to provide our input on this project. The following fields were included in this review, all acres are approximate:

Site Name	Acres
Harmon Wagner	159.3
Grand Total	159.3

Imagery provided by the National Ag Imagery Program (2022) was utilized to determine whether land application sites were in crop production, pasture/hay or non-farmed land. Overall, the land application site has some significant limitations in regard to slope steepness and length and general erosion potential.

There are approximately 159.3 acres available for land application of the industrial by-product. The land application sites are dominated by loam and silty clay loam soils with approximately 100% of the tillable acres having acceptable slopes for the land application the Prestage byproducts (0-9%). According to the NRCS soil survey, 71.5% of the soils are classified as having slight erosion potential. The remaining acres have little to no concerns regarding erosion potential. Field specific planning and/or residue management should be utilized when applying the byproduct to reduce the potential for movement offsite, on all sites. Application can and should still be limited to areas with the lowest slope first and then be directed to areas with structural controls in place to control soil erosion. The application of the byproduct is not expected to conflict with any Conservation Plans associated with the observed soils. A summary of slope ratings for the potential land application sites is included below:

Slope Range	Acres
0-1%	1.6
0-2%	110.4
1-3%	40.0
2-5%	7.3
Grand Total	159.3

Approximately 0% of the soils identified as potential land application sites are listed by the NRCS soil survey as commonly or frequently flooded. Still, it is assumed that agricultural drain tile has been installed, to varying degrees, on soils with poor or somewhat poor drainage. Flooding frequency is not expected to be a limiting factor for land application. However, land application on saturated soils should be avoided at all times. Further, land application on fields with higher slope ranges and predicted rainfall within 24 hours should be limited. A complete breakdown of flooding frequency ratings is shown below:

NRCS Flooding Frequency	Acres
NONE	157.7
PONDED	1.6
Grand Total	159.3

Determining appropriate land application rates for any by-product is dependent on the most restrictive variable. This can be either slope, erosivity, flooding potential, soil fertility levels, soil texture or byproduct characteristics, to name a few. The recommendations given herein are independent of any byproduct reviews and only consider the known field characteristics discussed in this review.

Application rates of approximately 16 Wet Tons per acre are appropriate for the slope conditions of the land application sites discussed in this review. Appropriate measures should be taken to ensure minimal movement of the waste respect to adequate setbacks from sensitive features (surface water, karst features, conduits to water and high slopes) and land application rates. Special care should be given to applying wastes no less than 48 hours prior to rainfall events of greater than 0.5 inches. Wastes should be incorporated whenever possible, if such practices do not conflict with existing NRCS conservation plans. Applications of organic by-products can result in improved soil fertility, tilth and structure, if properly managed. The soils and parent material on the proposed land application site are naturally acidic to pH neutral in nature. Agricultural lime should be used to ensure the soil pH is above 6.0 prior to land application of any byproducts.

Summary

The specified land application material should be evaluated for constituents that pose a risk to the general health and welfare of the public. In general, land utilized for the land application of solid waste containing nutrients needed for pasture or crop production will benefit from such applications. Careful consideration should be taken to ensure nutrients are not applied at levels greater than crop need, once soils have reached the high fertility range as defined by Iowa State University.

In summary, we believe the field conditions are very suitable for land application of solid wastes done in accordance with all applicable rules, permits and laws. If you have any questions, please do not hesitate to contact us.

Sincerely,



Jim Nesseth
Certified Agronomist
License #: 17118



Andrew Nesseth
Environmental Consultant
NRCS Technical Service Provider



202 South Highway 86
Lakefield, MN 56150
507.662.5005 phone
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info@extendedag.com

November 2, 2023

Environmental Land Management
1602 11th Drive NE
Austin, MN 55912

RE: Review of Potential Land Application Sites – Prestage Foods

Michael,

We have completed our review of the proposed land application site for the Prestage Foods facility in Wright County, Iowa. Thank you for the opportunity to provide our input on this project. The following fields were included in this review, all acres are approximate:

Site Name	Acres
Harmon Sparboe NW	101.1
Grand Total	101.1

Imagery provided by the National Ag Imagery Program (2020) was utilized to determine whether land application sites were in crop production, pasture/hay or non-farmed land. Overall, the land application site has some significant limitations in regard to slope steepness and length and general erosion potential.

There are approximately 101.1 acres available for land application of the industrial by-product. The land application sites are dominated by loam and silty clay loam soils with approximately 99.5% of the tillable acres having acceptable slopes for the land application the Prestage byproducts (0-9%). According to the NRCS soil survey, 88.9% of the soils are classified as having slight erosion potential and 10.1% have moderate erosion potential. The remaining acres have little to no concerns regarding erosion potential. Field specific planning and/or residue management should be utilized when applying the byproduct to reduce the potential for movement offsite, on all sites. Application can and should still be limited to areas with the lowest slope first and then be directed to areas with structural controls in place to control soil erosion. The application of the byproduct is not expected to conflict with any Conservation Plans associated with the observed soils. A summary of slope ratings for the potential land application sites is included below:

Slope Range	Acres
0-2%	41.3
2-5%	49.5
5-9%	9.7
14-18%	0.5
Grand Total	101.1

Approximately 0% of the soils identified as potential land application sites are listed by the NRCS soil survey as commonly or frequently flooded. Still, it is assumed that agricultural drain tile has been installed, to varying degrees, on soils with poor or somewhat poor drainage. Flooding frequency is not expected to be a limiting factor for land application. However, land application on saturated soils should be avoided at all times. Further, land application on fields with higher slope ranges and predicted rainfall within 24 hours should be limited. A complete breakdown of flooding frequency ratings is shown below:

NRCS Flooding Frequency	Acres
NONE	101.1
Grand Total	101.1

Determining appropriate land application rates for any by-product is dependent on the most restrictive variable. This can be either slope, erosivity, flooding potential, soil fertility levels, soil texture or byproduct characteristics, to name a few. The recommendations given herein are independent of any byproduct reviews and only consider the known field characteristics discussed in this review.

Application rates of approximately 16 Wet Tons per acre are appropriate for the slope conditions of the land application sites discussed in this review. Appropriate measures should be taken to ensure minimal movement of the waste respect to adequate setbacks from sensitive features (surface water, karst features, conduits to water and high slopes) and land application rates. Special care should be given to applying wastes no less than 48 hours prior to rainfall events of greater than 0.5 inches. Wastes should be incorporated whenever possible, if such practices do not conflict with existing NRCS conservation plans. Applications of organic by-products can result in improved soil fertility, tilth and structure, if properly managed. The soils and parent material on the proposed land application site are naturally acidic to pH neutral in nature. Agricultural lime should be used to ensure the soil pH is above 6.0 prior to land application of any byproducts.

Summary

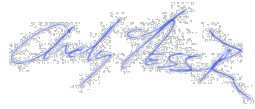
The specified land application material should be evaluated for constituents that pose a risk to the general health and welfare of the public. In general, land utilized for the land application of solid waste containing nutrients needed for pasture or crop production will benefit from such applications. Careful consideration should be taken to ensure nutrients are not applied at levels greater than crop need, once soils have reached the high fertility range as defined by Iowa State University.

In summary, we believe the field conditions are very suitable for land application of solid wastes done in accordance with all applicable rules, permits and laws. If you have any questions, please do not hesitate to contact us.

Sincerely,



Jim Nesseth
Certified Agronomist
License #: 17118



Andrew Nesseth
Environmental Consultant
NRCS Technical Service Provider

Contractual Consent of Landowner/Lessee/Operator**Landowner, Lessee and/or Land Operator:** Sean Harmon**Location of storage sites and spreading site(s):** All permitted sites owned, leased and rented.**Description of byproduct to be stored and land applied on site(s):** Byproduct waste consisting of industrial wastewater sludge solids and trailer bedding generated from the Prestage Foods pork processing plant. The facility has a wastewater pretreatment plant and a de-watering process, in which sludge solids are recovered. The facility also has a trailer washout facility where trailer bedding is recovered.**Wastewater treatment plant sludge and trailer bedding byproducts are generated from:**
Prestage Foods, Eagle Grove, IA

Analysis of sludge byproduct on a "dry" basis:

***Analysis is not guaranteed for agronomic value. Byproduct output will be variable.

Total Solids	37.63 %	Arsenic	none detected
pH	7.65	Barium	7.8 mg/kg
Tot.Kjeldahl Nitrogen	3.40 %	Cadmium	5.4 mg/kg
Ammonia Nitrogen	0.97 %	Chromium	52 mg/kg
Phosphorus	1.87 %	Copper	151.2mg/kg
Phosphate	4.27 %	Iron	108300 mg/kg
Potassium	0.14 %	Lead	none detected
Potash	0.16 %	Manganese	128 mg/kg
Calcium	1.52 %	Mercury	none detected
Magnesium	0.11 %	Molybdenum	10.2 mg/kg
Chloride	0.12 %	Nickel	6.7 mg/kg
Sodium	0.07 %	Selenium	none detected
Zinc	none detected	Silver	9 mg/kg

***Check with your Agronomist to verify that these nutrients and other constituents are not harmful to the crops you are growing during the coming year.

I have reviewed this information and am authorized to hereby give permission to Environmental Land Management, LLC to store and land apply the above byproduct on the spreading sites. If, in the future, I decide not to allow Environmental Land Management, LLC to store and land apply the aforementioned byproducts on these sites, I will inform them before it is delivered to the sites.

Signed: Date: 2-18-20