ENVIRONMENTAL
LAND MANAGEMENT LLC
waste byproduct landspreading specialists

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Friday January 29, 2026

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

Re: Hormel Foods Corp., Austin, MN: Permit # 00-SDP-08-14P-LAN
Land Application of Solid Waste Additional Sites Application

Ms. Stiner,

Enclosed is an application to add four additional land application sites to the referenced permit for Hormel Foods. There will be no increased volume for storage since the previous permit renewal application, so the closure cost estimate has not been revised. Please note, land application sites will be soil sampled as necessary prior to each application for each site when conditions are suitable.

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

Sincerely,

MJ Klema

Michael Klema
Environmental Land Management, LLC

enclosures

Cc: IDNR FO #2, 2300 15th Street, 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 # 00 -SDP- 08 - 14 -LAN

Solid Waste Generator Name/Address:

Hormel Foods Corp., 500 14th Ave NE, Austin, MN 55912

Phone #: 507-437-5312 **Fax #:** 507-437-9805

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: • Name of site • Legal description of the site • Total acres in the site • Acres to be used for disposal • Name of landowner or tenant		X
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: • 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 *Please remember that the area to be used for land disposal:* • *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* ***If the specific area requested includes any of the above the entire field will not be approved.***	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 567121.7(1)"a"(10)	X
Section F	Review by Soil Conservation District that includes the following: • Soil loss limits applicable to the site • Design soil loss levels for the site • Estimated current soil loss levels *The review may be done by the Natural Resources Conservation Service or a Professional Agronomist in lieu of the Soil Conservation District.*	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) *One document may be submitted for multiple sites with the same landowner or tenant.*	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:** 1-23-26

Printed Name: Ed Finnegan **Title:** Austin Plant Manager

Hormel Foods Corp., Austin, MN

Iowa DNR Land Application Permit # 00-SDP-08-14P
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 all additional land application sites 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 maps 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. Land application site soil sampling will be completed each time 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 of Lakefield, MN discussing soil loss levels through erosion and flooding potential.
    i. Extended Ag Services - Jim Nesseth, Certified Agronomist, License # 17118 and Andy Nesseth, 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.

Hormel Austin, Permit # 00-SDP-08-14P: Table 1

Site Name	Legal Description	Section	Township	Tier, Range	County	State	Suitable Acreage	Farmer Name	Landowner
Blaser 125	S1/2 of NE1/4, N1/2 of SE1/4	17	Stacyville	100 N, 16 W	Mitchell	IA	125	Jim Blaser	Rodney Albertson
Blaser 66	W1/2 of NE1/4	35	Liberty	99 N, 16 W	Mitchell	IA	66	Jim Blaser	Jessica Isensee
Blaser 80	S1/2 of NW1/4	26	Liberty	99 N, 16 W	Mitchell	IA	80	Jim Blaser	Rodney Albertson
Halvorson 104	NE 1/4	21	Otranto	100 N, 18 W	Mitchell	IA	100	Curt Halvorson	Curt Halvorson
Halvorson 187	E 1/2 & E 1/2 of SW 1/4	14	Otranto	100 N, 18 W	Mitchell	IA	243	Curt Halvorson	Curt Halvorson
Halvorson 30	NE 1/4 of NE 1/4	14	Otranto	100 N, 18 W	Mitchell	IA	35	Curt Halvorson	Curt Halvorson
Halvorson 337	E 1/2 & E 1/2 of W 1/2 - Sec 23; NE 1/4 of NE 1/4 - Sec 26	23, 26	Otranto	100 N, 18 W	Mitchell	IA	392	Curt Halvorson	Curt Halvorson
Halvorson 36	SE 1/4 of SE 1/4	21	Otranto	100 N, 18 W	Mitchell	IA	33	Curt Halvorson	Curt Halvorson
Halvorson 39	W 1/2 of NW 1/4	14	Otranto	100 N, 18 W	Mitchell	IA	26	Curt Halvorson	Curt Halvorson
Halvorson 70	SE 1/4 of SE 1/4	34	Otranto	100 N, 18 W	Mitchell	IA	67	Curt Halvorson	Curt Halvorson
Hanke 340	E 1/2 & SE 1/4 of SW 1/4	1	Liberty	99 N, 16 W	Mitchell	IA	411	Randy Hanke	Randy Hanke
Hanke 40	NE 1/4 of NE 1/4	9	Liberty	99 N, 16 W	Mitchell	IA	40	Randy Hanke	Randy Hanke
Hanke 60	E 1/2 of SW 1/4	10	Liberty	99 N, 16 W	Mitchell	IA	56	Randy Hanke	Randy Hanke
Hertel 120	N 1/2 of NE 1/4 - Sec 18; SE 1/4 of SE 1/4 - Sec 7; SW 1/4 of SW 1/4 - Sec 8; NW 1/4 of NW 1/4 - Sec 17	7, 8, 17, 18	Otranto	100 N, 18 W	Mitchell	IA	109	Gene Hertel	Gene Hertel
Hertel 330	SW 1/4 & NW 1/4 of SE 1/4 & E 1/2 of NW 1/4 & NE 1/4	17	Otranto	100 N, 18 W	Mitchell	IA	281	Gene Hertel	Gene Hertel
Hertel 40	NE 1/4 of SW 1/4	18	Otranto	100 N, 18 W	Mitchell	IA	43	Gene Hertel	Gene Hertel
Hertel Sand	N 1/4 - Sec 17; S 1/2 - Sec 8; SW 1/4 of SW 1/4 - Sec 9; NW 1/4 of NW 1/4 - Sec 16	8, 9, 16, 17	Otranto	100 N, 18 W	Mitchell	IA	298	Gene Hertel	Hertz Farm Management
Hulshizer Conrad	W 1/2 of SW 1/4, SE 1/4 of SW 1/4	25	Deer Creek	100 N; 19 W	Worth	IA	98	Steve Hulshizer	Steve Hulshizer
Hulshizer Deer Creek 36	N 1/2 of SW 1/4, W 1/2 of NW 1/4	36	Deer Creek	100 N; 19 W	Worth	IA	154	Russ Hulshizer	Russ Hulshizer
Hulshizer Meltonville	SE1/4 Sec 25; SW1/4 Sec 30	25, 30	Deer Creek, Otranto	100 N; 19 W, 100 N; 18 W	Worth, Mitchell	IA	196	Steve Hulshizer	Watkins Family Trust
Hulshizer Opkis	SW1/4	13	Deer Creek	100 N; 19 W	Worth	IA	152	Russ Hulshizer	Catherine Opkis
Hulshizer Parkhurst	SW1/4 SE1/4	28	Otranto	100 N; 18 W	Mitchell	IA	33	Steve Hulshizer	Allen Parkhurst
Hulshizer Pederson	S1/2 NE1/4	35	Deer Creek	100 N; 19 W	Worth	IA	77	Mike Hulshizer	Steven Pederson
Hulshizer Ron Home	N1/2	19	Otranto	100 N; 18 W	Mitchell	IA	194	Ron Hulshizer	Ron Hulshizer
Hulshizer Russ Home	SE1/4 Sec 26, N1/2 NE1/4 Sec 35	35	Deer Creek	100 N; 19 W	Worth	IA	206	Mike Hulshizer	Mike Hulshizer
Hulshizer Steve Home	NW1/4	25	Deer Creek	100 N; 19 W	Worth	IA	149	Steve Hulshizer	Steve Hulshizer
Jax Mona	E1/2 NW1/4	14	Otranto	100 N; 18 W	Mitchell	IA	49	Roger Jax	Jamie Jax
Jax Otranto 11	NE 1/4	11	Otranto	100 N; 18 W	Mitchell	IA	70	Roger Jax	Roger Jax
Jax Otranto 13	NE1/4 NE1/4	13	Otranto	100 N; 18 W	Mitchell	IA	40	Roger Jax	Gary Robertson
Jax Otranto 14	SE1/4 SE1/4	14	Otranto	100 N; 18 W	Mitchell	IA	30	Roger Jax	Tim Jax
Jax Otranto 15	S1/2 NE1/4, SE1/4	15	Otranto	100 N; 18 W	Mitchell	IA	188	Roger Jax	Dairyland Power
Jax Otranto 18	NW1/4 SW1/4	18	Otranto	100 N; 18 W	Mitchell	IA	38	Roger Jax	Blanche Greiner
Jax Stacevville 7	S 1/2 of SE 1/4	7	Stacevville	T100N, R16W	Mitchell	IA	60	Roger Jax	Christopher Jax
Jax Union 11	SW 1/4	11	Union	T100N, R17W	Mitchell	IA	148	Roger Jax	Roger Jax
Jax Union 17	NE1/4	17	Union	100 N; 17 W	Mitchell	IA	153	Roger Jax	Roger Jax
Kephart 160	SW 1/4 & W 1/2 of SE 1/4	29	Jenkins	99 N, 15 W	Mitchell	IA	200	Randy Kephart	Randy Kephart
Klapperich 1709	NE 1/4 of NE 1/4	8	Liberty	99 N, 16 W	Mitchell	IA	22	Reid Klapperich	Jack Fisher
Klapperich 1713	SW 1/4 of NE 1/4 & S 1/2 of SW 1/4 of NW 1/4 & N 1/2 of NW 1/4 of NW 1/4 & SE 1/4 of NW 1/4	29	Stacyville	100 N, 16 W	Mitchell	IA	81	Reid Klapperich	Jack Fisher
Klapperich 1832	SE 1/4 of SW 1/4 - Sec 21; NE 1/4 - Sec 28	21, 28	Stacyville	100 N, 16 W	Mitchell	IA	151	Reid Klapperich	Reid Klapperich
Klapperich 1833	SE 1/4 of SE 1/4 - Sec 19; SW 1/4 of SW 1/4 - Sec 20	19, 20	Stacyville	100 N, 16 W	Mitchell	IA	25	Reid Klapperich	Reid Klapperich
Klapperich 2198	SW 1/4 of NW 1/4	9	Liberty	99 N, 16 W	Mitchell	IA	32	Reid Klapperich	Jack Fisher
Klapperich 8799	SE 1/4 of SE 1/4	17	Stacyville	100 N, 16 W	Mitchell	IA	38	Reid Klapperich	Bridgid Kern
Klapperich 9215	NW 1/4	15	Liberty	99 N, 16 W	Mitchell	IA	131	Reid Klapperich	Gary Skluzacek
Meitner 160	NE 1/4	36	Liberty	99 N, 16 W	Mitchell	IA	160	Keith Meitner	Keith Meitner
Newton Burr Oak 25-36	SW 1/4 - Sec 25; NW 1/4 - Sec 36	25, 36	Burr Oak	T98-99N, R16W	Mitchell	IA	320	Bill Newton	Jackson & Kathryn Steiert
Newton Burr Oak 5	NE 1/4 of NW 1/4	5	Burr Oak	T98-99N, R16W	Mitchell	IA	22	Bill Newton	Bill Newton
Newton Liberty 10	W 1/2 of SW 1/4	10	Liberty	T99N, R16W	Mitchell	IA	74	Bill Newton	David Rabinowitz
Newton Liberty 14	N 1/2 of NW 1/4 & NW 1/4 of NE 1/4	14	Liberty	T99N, R16W	Mitchell	IA	96	Bill Newton	Janice Steiert
Newton Liberty 15	NW 1/4	15	Liberty	T99N, R16W	Mitchell	IA	134	Bill Newton	G & J Skluzacek
Newton Liberty 18	SE 1/4	18	Liberty	T99N, R16W	Mitchell	IA	151	Bill Newton	Bill & Allen Newton
Newton Liberty 19	S 1/2	19	Liberty	T99N, R16W	Mitchell	IA	276	Bill Newton	Allen Newton
Newton Liberty 20	SW 1/4	20	Liberty	T99N, R16W	Mitchell	IA	152	Bill Newton	Allen Newton
Newton Liberty 22	NW 1/4 of NW 1/4	22	Liberty	T99N, R16W	Mitchell	IA	22	Bill Newton	Bill Newton
Newton Newburg 35	NE 1/4 & E 1/2 of NW 1/4	35	Newburg	T99N, R18W	Mitchell	IA	87	Bill Newton	Mary Eggers & Jon Koster
Newton Osage 27	N 1/2 & NE 1/4 of SE 1/4	27	Osage	T98N, R16-17W	Mitchell	IA	135	Bill Newton	Bryce Gast & Clarence Kruse
Newton Staceyville 30	NW 1/4 of NE 1/4	30	Staceyville	99-100N, R16-17\	Mitchell	IA	21	Bill Newton	Robert Wasler
Newton West Lincoln 36	S 1/2 of SE 1/4	36	West Lincoln	97-98N, R16-17V	Mitchell	IA	54	Bill Newton	Bill Newton
Patterson Union 28	SE 1/4	28	Union	T100N, R17W	Mitchell	IA	155	Virgil Patterson	Carol Meyer
Patterson Union 33	NE 1/4	33	Union	T100N, R17W	Mitchell	IA	140	Virgil Patterson	Carol Meyer
Pearson 33	SW 1/4 of NW 1/4	30	Jenkins	99 N, 15 W	Mitchell	IA	31	Travis Sprung	Gary Pearson
Pederson Howard 7	SW 1/4 & S 1/2 of SE 1/4	7	Otranto	100 N; 18W	Mitchell	IA	186	Jeff Pederson	Howard Trust
Pederson Howard 9	E 1/2 of NE 1/4 Sec 8; NW 1/4 Sec 9	8, 9	Otranto	100 N; 18W	Mitchell	IA	170	Jeff Pederson	Howard Trust
Pederson Howard 17	S 1/2 of SE 1/4, NE 1/4 of SE 1/4	17	Otranto	100 N; 18W	Mitchell	IA	115	Jeff Pederson	David Howard
Pederson Nelson 14	NW 1/4 of SW 1/4	14	Otranto	100 N; 18W	Mitchell	IA	38	Jeff Pederson	Nelson Trust
Rosenberg Buntrock	E1/2 of NE1/4 Sec 21; W1/2 of NW1/4, W1/4 of SW1/4 Sec 22	21, 22	Union	100N, 17 W	Mitchell	IA	197	Joe Rosenberg	Orrie Koehlmoos
Rosenberg Gene	NE 1/4 of NW 1/4 & W 1/2 of NE 1/4	32	Newburg	T99N, R18W	Mitchell	IA	103	Joe Rosenberg	Gene Rosenberg
Rosenberg Goose	N1/2 of NW1/4	35	Deer Creek	100 N; 19 W	Worth	IA	102	Richard Rosenberg	Gerald Nash
Rosenberg Hanson	NE1/4 Sec 16, NW1/4 Sec 15	15, 16	Union	100N, 17 W	Mitchell	IA	309	Joe Rosenberg	Orrie Koehlmoos
Rosenberg Home	SE 1/4	19	Newburg	T99N, R18W	Mitchell	IA	145	Joe Rosenberg	Betty Rosenberg
Rosenberg Larson	E 1/4 of SW 1/4 Sec 33; NW 1/4 of NW 1/4 Sec	33, 4	Newburg; Rock	T99N, R18W; T98N, R18W	Mitchell	IA	77	Richard Rosenberg	Lewis Larson Trust
Rosenberg Meltonville	E 1/2 of NW 1/4	6	Deer Creek	100 N, 19 W	Worth	IA	92	Joe Rosenberg	Gerald Nash
Rosenberg Nash 40	NE1/4 of SE1/4	27	Deer Creek	100 N; 19 W	Worth	IA	37	Richard Rosenberg	Gerald Nash
Rosenberg Nash Home	SE 1/4 & E 1/2 of SW 1/4	22	Deer Creek	100 N, 19 W	Worth	IA	192	Joe Rosenberg	Gerald Nash
Rosenberg Nevertell	S 1/4 of SE 1/4 - Sec 2; NE 1/4 - Sec 11	2, 11	Union	98 N, 19 W	Worth	IA	185	Joe Rosenberg	Orrie Koehlmoos
Rosenberg Novack	SW 1/4	1	Union	98 N, 19 W	Worth	IA	151	Joe Rosenberg	Orrie Koehlmoos
Rosenberg Otranto	S1/2 of NE1/4, N1/2 of SE1/4 Sec 18; SW1/4 of NW1/4, NW1/4 of SW1/4 Sec 17	17, 18	Otranto	100N, 18 W	Mitchell	IA	189	Joe Rosenberg	Orrie Koehlmoos
Rosenberg Patrick	SW 1/4 - Sec 31 (Newburg); N 1/2 of SE 1/4 - Sec 36 (Barton)	31, 36	Newburg, Barton	99 N, 18 W; 99 N, 19 W	Mitchell, Worth	IA	194	Joe Rosenberg	Donald Patrick
Rosenberg Tesch	SW 1/4	33	Union	T100N, R17W	Mitchell	IA	130	Richard Rosenberg	Rudy Tesch Trust

Rosenberg Watts	S1/2 & NE1/4 of SW1/4 Sec 28; E1/4 of NW1/4 Sec 33	28, 33	Newburg	99 N; 18 W	Mitchell	IA	151	Richard Rosenberg	Thomas Watts
Rosenberg Watts 60	E 1/2 of SW 1/4	25	Barton	T99N, R19W	Worth	IA	60	Richard Rosenberg	Thomas Watts
Rugland 115	SE 1/4	10	Deer Creek	100 N, 19 W	Worth	IA	101	Kris Rugland	James Olson
Rugland 132	NE 1/4 & E 1/2 of NW 1/4	7	Hartland	100 N, 21 W	Worth	IA	112	Kris Rugland	Lee Kvam
Rugland 138	NW 1/4	29	Hartland	100 N, 21 W	Worth	IA	132	Kris Rugland	Kris Rugland
Rugland 148	NW 1/4	8	Barton	99 N, 19 W	Worth	IA	136	Kris Rugland	Berton Follmuth
Rugland 174	NE 1/4 - Sec 10; NW 1/4 - 11	10 , 11	Grove	100 N, 20 W	Worth	IA	104	Kris Rugland	Lonny Broitzman
Rugland 195	W 1/2 of E 1/2 & SE 1/4 of SE 1/4 - Sec 17; NW 1/4 of NE 1/4 - Sec 20	17, 20	Hartland	100N, 21W	Worth	IA	195	Kris Rugland	Kris Rugland
Rugland 211	NE 1/4 - Sec 8; NW 1/4 - Sec 9	8, 9	Hartland	100N, 21W	Worth	IA	211	Kris Rugland	Kris Rugland
Rugland 51	W 1/2 of NW 1/4	10	Grove	100 N, 20 W	Worth	IA	48	Kris Rugland	Lonny Broitzman
Rugland 54	NW 1/4	9	Grove	100 N, 20 W	Worth	IA	60	Kris Rugland	Dennis & Lonny Broitzman
Rugland 7	W 1/4 of NW 1/4	9	Grove	100 N, 20 W	Worth	IA	14	Kris Rugland	Dennis Broitzman
Rugland Home	E 1/2 of SW 1/4 & w 1/2 of SE 1/4 - Sec 18; S 1/2 of NW 1/4 & W 1/2 of NE 1/4 - Sec 19	18, 19	Hartland	100N, 21W	Worth	IA	278	Kris Rugland	Kris Rugland
Sprung 2298	NE 1/4 of SW 1/4	30	Jenkins	99 N, 15 W	Mitchell	IA	37	Travis Sprung	LR Falk Construction
Sprung 3108	W 1/2 of NW 1/4	31	Jenkins	99 N, 15 W	Mitchell	IA	81	Travis Sprung	Travis Sprung
Sprung 3812	SE 1/4	25	Burr Oak	99 N, 16 W	Mitchell	IA	145	Travis Sprung	Travis Sprung
Sprung 3879	NW 1/4 of SW 1/4	30	Jenkins	99 N, 15 W	Mitchell	IA	31	Travis Sprung	Travis Sprung
Sprung CRP 18	SW 1/4 of SW 1/4	30	Jenkins	99 N, 15 W	Mitchell	IA	18	Travis Sprung	Travis Sprung

Farmer	Address	Phone
Jim Blaser	4504 Rampart Ave, Stacyville, IA 50476	(641) 220-3446
Curt Halvorson	4830 Epic Ave, St. Ansgar, IA 50472	(641) 590-2813
Randy Hanke	2747 450th St., Stacyville, IA 50476	(641) 220-0681
Gene Hertel	4916 Beech Road, St. Ansgar, IA 50472	(641) 220-6108
Steve Hulshizer	4765 Yarrow Ave, St. Ansgar, IA 50472	(641) 390-0315
Ron Hulshizer	1097 485th St., St. Ansgar, IA 50472	(641) 326-4689
Mike Hulshizer	4805 Cameo Ave, St. Ansgar, IA 50472	(641) 736-4399
Roger Jax	11331 620th Ave, Adams, MN 55909	(507) 438-0447
Randy Kephart	2951 Hwy 9, Riceville, IA 50466	(641) 220-3507
Reid Klapperich	2456 480th St, Stacyville, IA 50476	(641) 220-0159
Keith Meitner	2795 405th St, Osage, IA 50461	(641) 985-2397
Bill Newton	2516 430th St., Little Cedar, IA 50454	(641) 330-0183
Virgil Patterson	1721 480th St., St. Ansgar, IA 50472	(641) 590-1207
Jeff Pederson	52690 130th St, Lyle, MN 55953	(507) 440-2703
Joe Rosenberg	1085 420th St, St. Ansgar, IA 50472	(641) 590-3530
Kris Rugland	4870 Wheelerwood Rd, Northwood, IA 50459	(641) 390-0220
Travis Sprung	4113 Shadow Ave, Riceville, IA 50466	(641) 220-3213

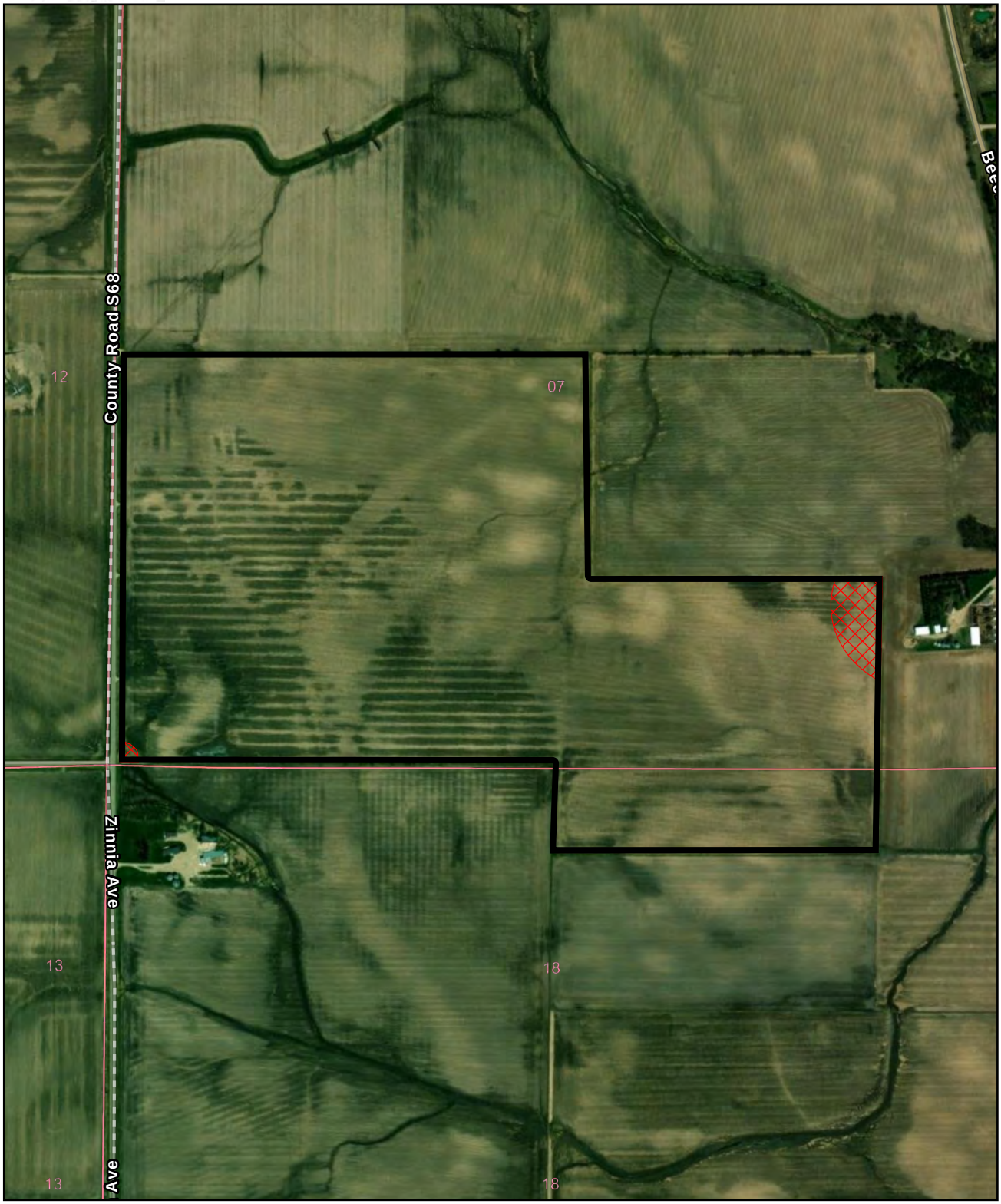
Hormel Austin New Site List 1/27/2026

Site Name	Legal Description	Section	Township	Tier, Range	County	State	Total Acreage	Suitable Acreage	Farmer Name
Pederson Howard 7	SW 1/4 & S 1/2 of SE 1/4	7	Otranto	100 N; 18W	Mitchell	IA	186	183	Jeff Pederson
Pederson Howard 9	E 1/2 of NE 1/4 Sec 8; NW 1/4 Sec 9	8, 9	Otranto	100 N; 18W	Mitchell	IA	170	159	Jeff Pederson
Pederson Howard 17	S 1/2 of SE 1/4, NE 1/4 of SE 1/4	17	Otranto	100 N; 18W	Mitchell	IA	115	115	Jeff Pederson
Pederson Nelson 14	NW 1/4 of SW 1/4	14	Otranto	100 N; 18W	Mitchell	IA	38	38	Jeff Pederson

Farmer Name	Address	Phone
Jeff Pederson	52690 130th St, Lyle, MN 55953	507-440-2703

ENVIRONMENTAL LAND MANAGEMENT LLC
waste byproduct landspreading specialists

Site Name: Pederson Howard 7



Unsuitable for Land Application

Jeff Pederson Phone: (507)440-2703 Spreadable Acres: 183 Deliverable Tons: 1462

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

Signature_____ Date_____

Soil Map—Mitchell County, Iowa

Map Scale: 1:7,000 if printed on A landscape (11" x 8.5") sheet.

N

Meters: 0 100 200 400 600

Feet: 0 300 600 1200 1800

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 15N WGS84

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
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

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

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
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: Mitchell County, Iowa
Survey Area Data: Version 31, Sep 8, 2025

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 15, 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
83	Kenyon loam, 0 to 2 percent slopes	4.0	2.1%
84	Clyde silty clay loam, 0 to 3 percent slopes	0.5	0.2%
171B	Bassett loam, 2 to 5 percent slopes	3.3	1.7%
175	Dickinson fine sandy loam, 0 to 2 percent slopes	4.4	2.3%
175B	Dickinson fine sandy loam, 2 to 5 percent slopes	0.7	0.4%
198B	Floyd loam, 1 to 4 percent slopes	28.7	15.2%
394	Ostrander loam, 0 to 2 percent slopes	24.3	12.8%
394B	Ostrander loam, 2 to 5 percent slopes	0.1	0.1%
399	Readlyn silt loam, 1 to 3 percent slopes	16.3	8.6%
407B	Schley silt loam, 1 to 4 percent slopes	82.4	43.5%
471	Oran loam, 0 to 2 percent slopes	6.2	3.3%
482	Racine silt loam, 0 to 2 percent slopes	8.4	4.4%
482B	Racine loam, 2 to 5 percent slopes	5.2	2.7%
575	Dickinson-Ostrander complex, 0 to 2 percent slopes	2.8	1.5%
760	Ansgar silt loam, 0 to 2 percent slopes	1.9	1.0%
Totals for Area of Interest		**189.2**	**100.0%**

T Factor

Map unit symbol	Map unit name	Rating (tons per acre per year)	Acres in AOI	Percent of AOI
83	Kenyon loam, 0 to 2 percent slopes	5	4.0	2.1%
84	Clyde silty clay loam, 0 to 3 percent slopes	5	0.5	0.2%
171B	Bassett loam, 2 to 5 percent slopes	5	3.3	1.7%
175	Dickinson fine sandy loam, 0 to 2 percent slopes	3	4.4	2.3%
175B	Dickinson fine sandy loam, 2 to 5 percent slopes	3	0.7	0.4%
198B	Floyd loam, 1 to 4 percent slopes	5	28.7	15.2%
394	Ostrander loam, 0 to 2 percent slopes	5	24.3	12.8%
394B	Ostrander loam, 2 to 5 percent slopes	5	0.1	0.1%
399	Readlyn silt loam, 1 to 3 percent slopes	5	16.3	8.6%
407B	Schley silt loam, 1 to 4 percent slopes	5	82.4	43.5%
471	Oran loam, 0 to 2 percent slopes	5	6.2	3.3%
482	Racine silt loam, 0 to 2 percent slopes	5	8.4	4.4%
482B	Racine loam, 2 to 5 percent slopes	5	5.2	2.7%
575	Dickinson-Ostrander complex, 0 to 2 percent slopes	3	2.8	1.5%
760	Ansgar silt loam, 0 to 2 percent slopes	5	1.9	1.0%
Totals for Area of Interest			**189.2**	**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.

Depth to Water Table

Map unit symbol	Map unit name	Rating (centimeters)	Acres in AOI	Percent of AOI
83	Kenyon loam, 0 to 2 percent slopes	122	4.0	2.1%
84	Clyde silty clay loam, 0 to 3 percent slopes	0	0.5	0.2%
171B	Bassett loam, 2 to 5 percent slopes	122	3.3	1.7%
175	Dickinson fine sandy loam, 0 to 2 percent slopes	>200	4.4	2.3%
175B	Dickinson fine sandy loam, 2 to 5 percent slopes	>200	0.7	0.4%
198B	Floyd loam, 1 to 4 percent slopes	30	28.7	15.2%
394	Ostrander loam, 0 to 2 percent slopes	>200	24.3	12.8%
394B	Ostrander loam, 2 to 5 percent slopes	>200	0.1	0.1%
399	Readlyn silt loam, 1 to 3 percent slopes	30	16.3	8.6%
407B	Schley silt loam, 1 to 4 percent slopes	30	82.4	43.5%
471	Oran loam, 0 to 2 percent slopes	30	6.2	3.3%
482	Racine silt loam, 0 to 2 percent slopes	>200	8.4	4.4%
482B	Racine loam, 2 to 5 percent slopes	>200	5.2	2.7%
575	Dickinson-Ostrander complex, 0 to 2 percent slopes	>200	2.8	1.5%
760	Ansgar silt loam, 0 to 2 percent slopes	0	1.9	1.0%
Totals for Area of Interest			**189.2**	**100.0%**

Well Search

Print Help

Well Search Report

Site: Pederson Howard 7

Included in search	No. of wells	Database
X	0	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 Muncipal 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	0	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	15	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	1	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	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	0	Ag drainage wells Locational accuracy 100 m., last updated 4/98.

Well Search Detail

Subject: XY UTM Coordinates: 498712/4815291
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
No records found from this data source								

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
No records found from this data source								

Wells Registered For Testing

Map ID	Well No.	Location	Accuracy	Dist. From Point	Well Depth	Construction/ Permit Date	Owner/ Permittees	Other Information
57769	67511	T100N, R19W, Sec. 12, SE, SW, NW	Calc. +/- 285m.	1316 (m)	unkn	1950	Davis, Kevin	Drilling method: Drilled; Well depth is uncertain
58757	76087	T100N, R18W, Sec. 8, NW, NW, NE	Calc. +/- 285m.	1352 (m)	17	1964	Greibrok, John	Drilling method: Drilled; Estimated well depth
58060	80663	T100N, R18W, Sec. 18, NW, NW, NW	Calc. +/- 285m.	(m)	45	unkn	Grundel, George	Drilling method: Drilled; Estimated well depth

58963	12211	T100N, R18W, Sec. 17, SW, NE, NE	Calc. +/- 285m.	(m)	55	unkn	Hertel, Gene	Drilling method: Drilled; Estimated well depth
58756	19877	T100N, R18W, Sec. 8, SW, NW, SW	Calc. +/- 285m.	1033 (m)	unkn	unkn	Olsen, Roger	Drilling method: Drilled; Well depth is uncertain
58933	19911	T100N, R18W, Sec. 8, NW, SE, NW	Calc. +/- 285m.	1527 (m)	56	unkn	Osgood, Jon	Drilling method: Drilled;
58935	76119	T100N, R18W, Sec. 8, NW, SE, SW	Calc. +/- 285m.	1523 (m)	56	1972	Osgood, Jon	Drilling method: Drilled; Known well depth
58577	19917	T100N, R18W, Sec. 7, SE, SE, NE	Calc. +/- 285m.	(m)	180	1978	Thurnau, John	Drilling method: Drilled;
58776	12213	T100N, R18W, Sec. 17, NW, SW, SE	Calc. +/- 285m.	1403 (m)	165	1979	Thurnau, Rick	Drilling method: Drilled; Known well depth
58760	12214	T100N, R18W, Sec. 8, NW, SW, SE	Calc. +/- 285m.	(m)	40	unkn	Wilder, Doyle	Drilling method: Drilled; Known well depth
58755	19854	T100N, R18W, Sec. 8, NW, NW, SE	Calc. +/- 285m.	1343 (m)	60	1966	Wilder, Doyle	Drilling method: Drilled;
58754	76001	T100N, R18W, Sec. 8, NW, NW, SW	Calc. +/- 285m.	1342 (m)	unkn	unkn	Wilder, Doyle/ Marilyn	Drilling method: Drilled; Well depth is uncertain
58565	12215	T100N, R18W, Sec. 7, NE, SE, SW	Calc. +/- 285m.	814 (m)	35	1982	Wilder, Steve	Drilling method: Sandpoint; Estimated well depth
58402	19852	T100N, R18W, Sec. 7, NE, SW, NW	Calc. +/- 285m.	577 (m)	35	1982	Wilder, Steve	Drilling method: Drilled;
58408	52366	T100N, R18W, Sec. 7, NE, SW, SE	Calc. +/- 285m.	569 (m)	35	1982	Wilder, Steve/May	Drilling method: Drilled; Known well depth

Permitted Private Wells

Map ID	Well No.	Location	Accuracy	Dist. From Point	Well Depth	Construction/ Permit Date	Owner/ Permittees	Other Information

58812	28238	T100N, R18W, Sec. 8, SW, NW, NE	Calc. +/- 140m.	1169 (m)	182	4/02/2001	Marsolek, James	Primary use: household

Abandoned Wells (plugged)

Map ID	Well No.	Location	Accuracy	Dist. From Point	Well Depth	Construction/ Permit Date	Owner/ Permittees	Other Information
58034	46845	T100N, R18W, Sec. 18, NW, NW, SW	Calc. +/- 140m.	886 (m)	25	n.a.	Grundel, Jerry	Well plugged: 4/26/2001; 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

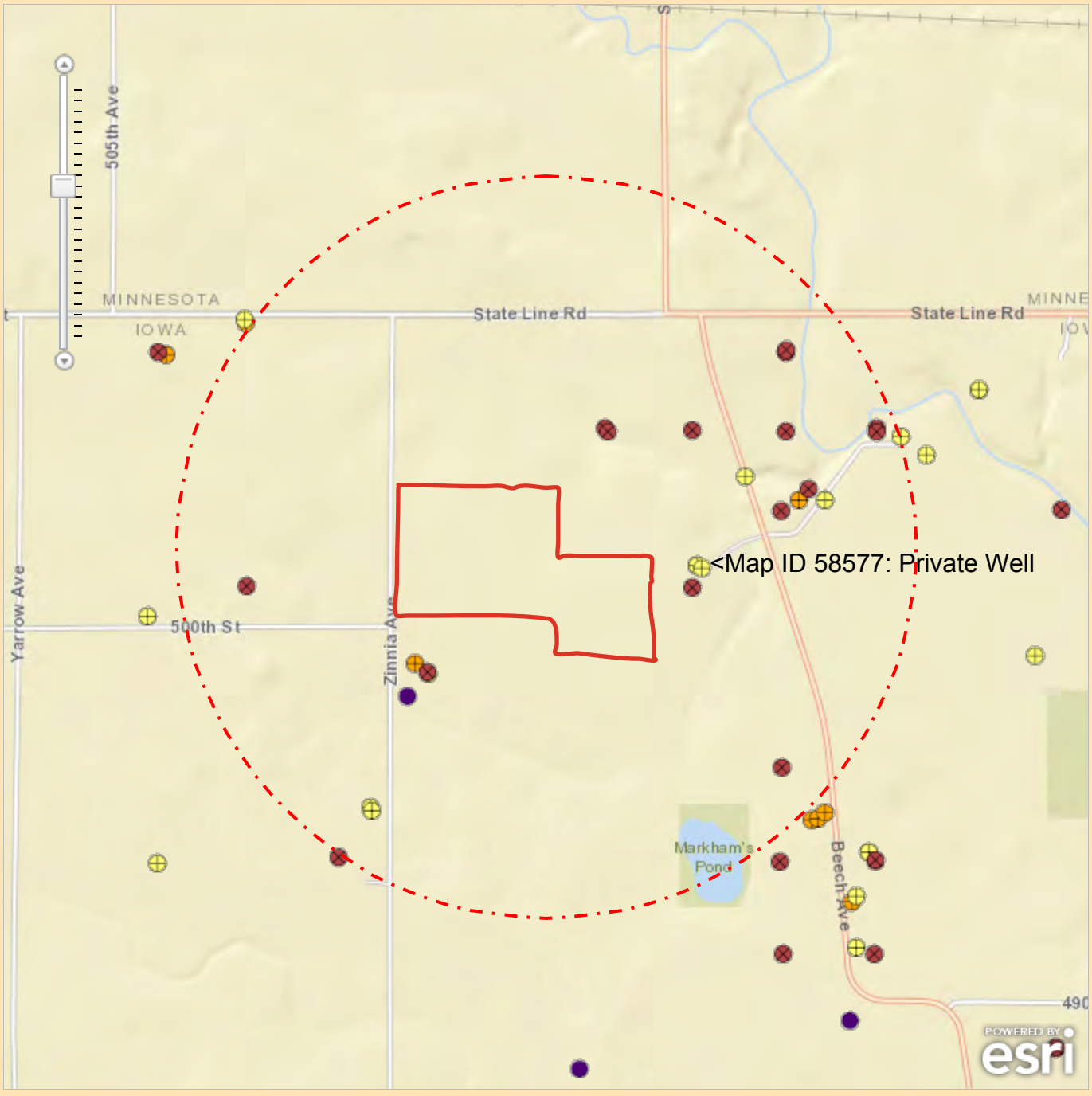
Map ID	Well No.	Location	Accuracy	Dist. From Point	Well Depth	Construction/ Permit Date	Owner/ Permittees	Other Information
No records found from this data source								

Ag Drainage Wells

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

Well Search Buffered Map

Subject: XY UTM Coordinates: 498712/4815291
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.

ENVIRONMENTAL LAND MANAGEMENT LLC
waste byproduct landspreading specialists

Site Name: Pederson Howard 9

Unsuitable for Land Application

Jeff Pederson Phone: (507)440-2703 Spreadable Acres: 159 Deliverable Tons: 1270

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

Signature_____ Date_____

Map Scale: 1:6,470 if printed on A landscape (11" x 8.5") sheet.

N

Meters
0 50 100 200 300

Feet
0 300 600 1200 1800

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 15N WGS84

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
84	Clyde silty clay loam, 0 to 3 percent slopes	22.6	14.9%
175B	Dickinson fine sandy loam, 2 to 5 percent slopes	17.5	11.6%
177	Saude loam, 0 to 2 percent slopes	0.6	0.4%
198B	Floyd loam, 1 to 4 percent slopes	21.4	14.2%
221	Klossner muck, 1 to 4 percent slopes	0.2	0.1%
235	Coland-Turlin complex, 0 to 2 percent slopes	0.4	0.3%
284	Flagler sandy loam, 0 to 2 percent slopes	1.7	1.2%
303B	Pinicon loam, 1 to 4 percent slopes	0.2	0.1%
407B	Schley silt loam, 1 to 4 percent slopes	46.0	30.4%
482B	Racine loam, 2 to 5 percent slopes	6.6	4.4%
482C	Racine silt loam, 5 to 9 percent slopes	0.1	0.1%
626	Hayfield loam, 0 to 2 percent slopes, rarely flooded	8.3	5.5%
777B	Wapsie loam, 2 to 5 percent slopes	4.2	2.8%
782B	Donnan silt loam, 2 to 5 percent slopes	14.5	9.6%
1152	Marshan clay loam, 0 to 2 percent slopes, rarely flooded	4.1	2.7%
1226	Lawler loam, 0 to 2 percent slopes, rarely flooded	2.6	1.7%
C315	Alluvial land, channeled	0.2	0.1%
Totals for Area of Interest		**151.1**	**100.0%**

T Factor

Map unit symbol	Map unit name	Rating (tons per acre per year)	Acres in AOI	Percent of AOI
84	Clyde silty clay loam, 0 to 3 percent slopes	5	22.6	14.9%
175B	Dickinson fine sandy loam, 2 to 5 percent slopes	3	17.5	11.6%
177	Saude loam, 0 to 2 percent slopes	3	0.6	0.4%
198B	Floyd loam, 1 to 4 percent slopes	5	21.4	14.2%
221	Klossner muck, 1 to 4 percent slopes	1	0.2	0.1%
235	Coland-Turlin complex, 0 to 2 percent slopes	5	0.4	0.3%
284	Flagler sandy loam, 0 to 2 percent slopes	3	1.7	1.2%
303B	Pinicon loam, 1 to 4 percent slopes	5	0.2	0.1%
407B	Schley silt loam, 1 to 4 percent slopes	5	46.0	30.4%
482B	Racine loam, 2 to 5 percent slopes	5	6.6	4.4%
482C	Racine silt loam, 5 to 9 percent slopes	5	0.1	0.1%
626	Hayfield loam, 0 to 2 percent slopes, rarely flooded	3	8.3	5.5%
777B	Wapsie loam, 2 to 5 percent slopes	3	4.2	2.8%
782B	Donnan silt loam, 2 to 5 percent slopes	3	14.5	9.6%
1152	Marshan clay loam, 0 to 2 percent slopes, rarely flooded	3	4.1	2.7%
1226	Lawler loam, 0 to 2 percent slopes, rarely flooded	3	2.6	1.7%
C315	Alluvial land, channeled	5	0.2	0.1%
Totals for Area of Interest			**151.1**	**100.0%**

Depth to Water Table

Map unit symbol	Map unit name	Rating (centimeters)	Acres in AOI	Percent of AOI
84	Clyde silty clay loam, 0 to 3 percent slopes	0	22.6	14.9%
175B	Dickinson fine sandy loam, 2 to 5 percent slopes	>200	17.5	11.6%
177	Saude loam, 0 to 2 percent slopes	>200	0.6	0.4%
198B	Floyd loam, 1 to 4 percent slopes	30	21.4	14.2%
221	Klossner muck, 1 to 4 percent slopes	0	0.2	0.1%
235	Coland-Turlin complex, 0 to 2 percent slopes	0	0.4	0.3%
284	Flagler sandy loam, 0 to 2 percent slopes	>200	1.7	1.2%
303B	Pinicon loam, 1 to 4 percent slopes	30	0.2	0.1%
407B	Schley silt loam, 1 to 4 percent slopes	30	46.0	30.4%
482B	Racine loam, 2 to 5 percent slopes	>200	6.6	4.4%
482C	Racine silt loam, 5 to 9 percent slopes	>200	0.1	0.1%
626	Hayfield loam, 0 to 2 percent slopes, rarely flooded	30	8.3	5.5%
777B	Wapsie loam, 2 to 5 percent slopes	>200	4.2	2.8%
782B	Donnan silt loam, 2 to 5 percent slopes	30	14.5	9.6%
1152	Marshan clay loam, 0 to 2 percent slopes, rarely flooded	0	4.1	2.7%
1226	Lawler loam, 0 to 2 percent slopes, rarely flooded	30	2.6	1.7%
C315	Alluvial land, channeled	122	0.2	0.1%
Totals for Area of Interest			**151.1**	**100.0%**

Well Search

Print Help

Well Search Report

Site: Pederson Howard 9

Included in search	No. of wells	Database
X	0	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 Muncipal 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	0	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	7	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	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	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	0	Ag drainage wells Locational accuracy 100 m., last updated 4/98.

Well Search Detail

Subject: XY UTM Coordinates: 501564/4815979
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
No records found from this data source								

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
No records found from this data source								

Wells Registered For Testing

Map ID	Well No.	Location	Accuracy	Dist. From Point	Well Depth	Construction/ Permit Date	Owner/ Permittees	Other Information
60092	52362	T100N, R18W, Sec. 9, SE, SE, SE	Calc. +/- 285m.	1340 (m)	5	unkn	Corson, Duane	Drilling method: Drilled; Estimated well depth
60082	76104	T100N, R18W, Sec. 9, NE, SE, SW	Calc. +/- 285m.	1015 (m)	23	1980	Follmath, Joe	Drilling method: Drilled; Estimated well depth
60083	76103	T100N, R18W, Sec. 9, NE, SE, NW	Calc. +/- 285m.	1015 (m)	23	1980	Follmath, Joe	Drilling method: Drilled; Estimated well depth
58933	19911	T100N, R18W, Sec. 8, NW, SE, NW	Calc. +/- 285m.	1425 (m)	56	unkn	Osgood, Jon	Drilling method: Drilled;

58935	76119	T100N, R18W, Sec. 8, NW, SE, SW	Calc. +/- 285m.	1426 (m)	56	1972	Osgood, Jon	Drilling method: Drilled; Known well depth
59344	19895	T100N, R18W, Sec. 8, SE, NE, NE	Calc. +/- 285m.	805 (m)	264	1993	Osgood, Robert	Drilling method: Drilled;
60262	76000	T100N, R18W, Sec. 10, SW, SW, SW	Calc. +/- 285m.	(m)	60	unkn	Williams, Keith	Drilling method: Drilled; Known well depth

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
60135	18931	T100N, R18W, Sec. 9, SE, SE, SE	Calc. +/- 140m.	1467 (m)	105	n.a.	Carson, Duane	Well plugged: 7/6/1995; Well type: not reported

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

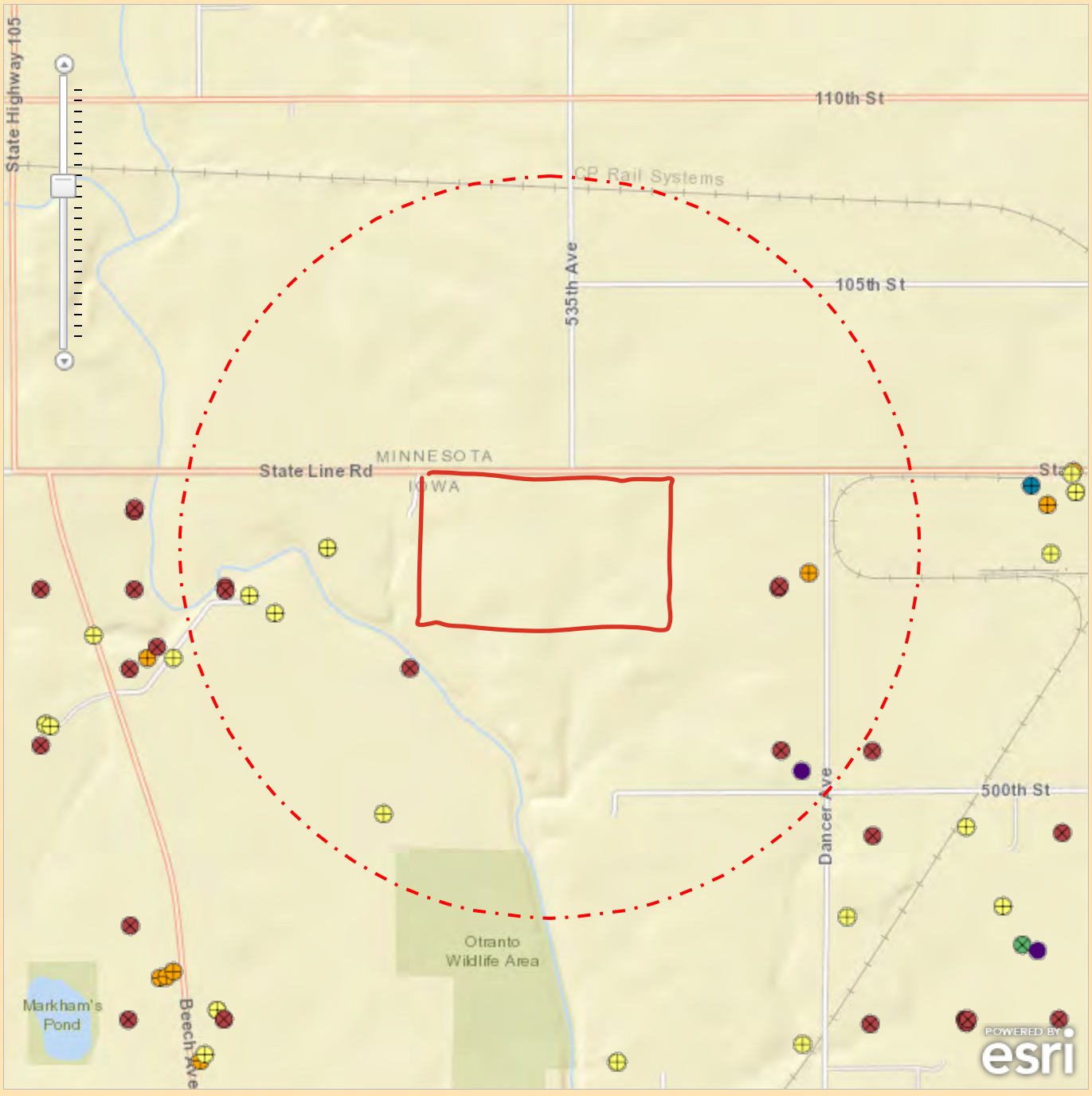
Map ID	Well No.	Location	Accuracy	Dist. From Point	Well Depth	Construction/ Permit Date	Owner/ Permittees	Other Information
No records found from this data source								

Ag Drainage Wells

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

Well Search Buffered Map

Subject: XY UTM Coordinates: 501564/4815979
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.

ENVIRONMENTAL LAND MANAGEMENT LLC
waste byproduct landspreading specialists

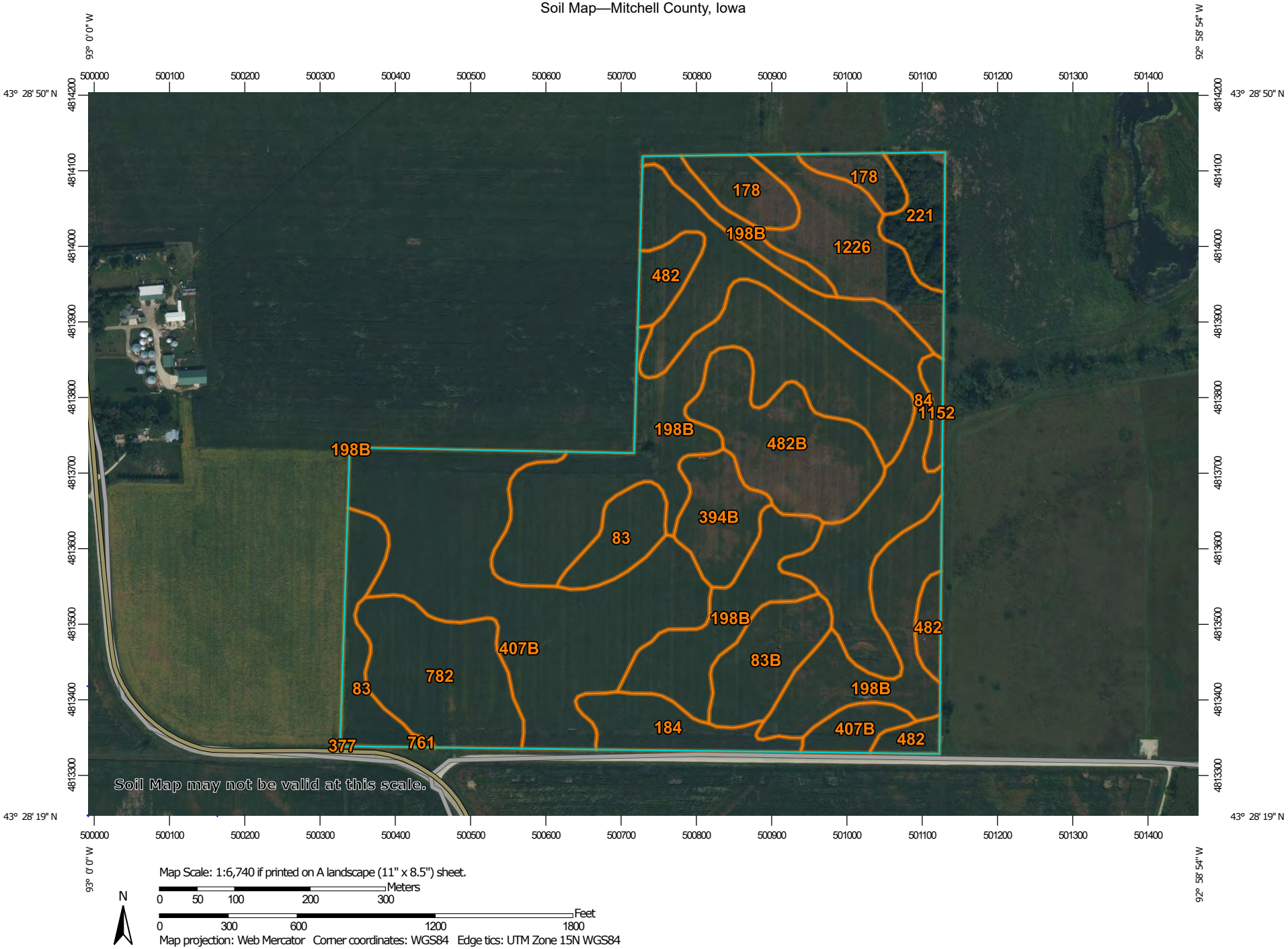
Site Name: Pederson Howard 17

Unsuitable for Land Application

Jeff Pederson Phone: (507)440-2703 Spreadable Acres: 115 Deliverable Tons: 917

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

Signature_____ Date_____



Map Scale: 1:6,740 if printed on A landscape (11" x 8.5") sheet.

N

Meters
0 50 100 200 300

Feet
0 300 600 1200 1800

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 15N WGS84

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
83	Kenyon loam, 0 to 2 percent slopes	6.1	5.2%
83B	Kenyon loam, 2 to 5 percent slopes	4.2	3.6%
84	Clyde silty clay loam, 0 to 3 percent slopes	14.4	12.3%
178	Waukee silt loam, 0 to 2 percent slopes	3.7	3.2%
184	Klinger silty clay loam, 1 to 4 percent slopes	3.5	2.9%
198B	Floyd loam, 1 to 4 percent slopes	30.7	26.1%
221	Klossner muck, 1 to 4 percent slopes	2.7	2.3%
377	Dinsdale silty clay loam, 0 to 2 percent slopes	0.0	0.0%
394B	Ostrander loam, 2 to 5 percent slopes	3.7	3.1%
407B	Schley silt loam, 1 to 4 percent slopes	22.0	18.8%
482	Racine silt loam, 0 to 2 percent slopes	3.4	2.9%
482B	Racine loam, 2 to 5 percent slopes	7.9	6.7%
761	Franklin silt loam, 1 to 3 percent slopes	0.1	0.1%
782	Donnan silt loam, 0 to 2 percent slopes	7.8	6.7%
1152	Marshan clay loam, 0 to 2 percent slopes, rarely flooded	0.8	0.7%
1226	Lawler loam, 0 to 2 percent slopes, rarely flooded	6.4	5.4%
Totals for Area of Interest		**117.4**	**100.0%**

T Factor

Map unit symbol	Map unit name	Rating (tons per acre per year)	Acres in AOI	Percent of AOI
83	Kenyon loam, 0 to 2 percent slopes	5	6.1	5.2%
83B	Kenyon loam, 2 to 5 percent slopes	5	4.2	3.6%
84	Clyde silty clay loam, 0 to 3 percent slopes	5	14.4	12.3%
178	Waukee silt loam, 0 to 2 percent slopes	3	3.7	3.2%
184	Klinger silty clay loam, 1 to 4 percent slopes	5	3.5	2.9%
198B	Floyd loam, 1 to 4 percent slopes	5	30.7	26.1%
221	Klossner muck, 1 to 4 percent slopes	1	2.7	2.3%
377	Dinsdale silty clay loam, 0 to 2 percent slopes	5	0.0	0.0%
394B	Ostrander loam, 2 to 5 percent slopes	5	3.7	3.1%
407B	Schley silt loam, 1 to 4 percent slopes	5	22.0	18.8%
482	Racine silt loam, 0 to 2 percent slopes	5	3.4	2.9%
482B	Racine loam, 2 to 5 percent slopes	5	7.9	6.7%
761	Franklin silt loam, 1 to 3 percent slopes	5	0.1	0.1%
782	Donnan silt loam, 0 to 2 percent slopes	3	7.8	6.7%
1152	Marshan clay loam, 0 to 2 percent slopes, rarely flooded	3	0.8	0.7%
1226	Lawler loam, 0 to 2 percent slopes, rarely flooded	3	6.4	5.4%
Totals for Area of Interest			**117.4**	**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.

Depth to Water Table

Map unit symbol	Map unit name	Rating (centimeters)	Acres in AOI	Percent of AOI
83	Kenyon loam, 0 to 2 percent slopes	122	6.1	5.2%
83B	Kenyon loam, 2 to 5 percent slopes	122	4.2	3.6%
84	Clyde silty clay loam, 0 to 3 percent slopes	0	14.4	12.3%
178	Waukee silt loam, 0 to 2 percent slopes	>200	3.7	3.2%
184	Klinger silty clay loam, 1 to 4 percent slopes	30	3.5	2.9%
198B	Floyd loam, 1 to 4 percent slopes	30	30.7	26.1%
221	Klossner muck, 1 to 4 percent slopes	0	2.7	2.3%
377	Dinsdale silty clay loam, 0 to 2 percent slopes	122	0.0	0.0%
394B	Ostrander loam, 2 to 5 percent slopes	>200	3.7	3.1%
407B	Schley silt loam, 1 to 4 percent slopes	30	22.0	18.8%
482	Racine silt loam, 0 to 2 percent slopes	>200	3.4	2.9%
482B	Racine loam, 2 to 5 percent slopes	>200	7.9	6.7%
761	Franklin silt loam, 1 to 3 percent slopes	30	0.1	0.1%
782	Donnan silt loam, 0 to 2 percent slopes	30	7.8	6.7%
1152	Marshan clay loam, 0 to 2 percent slopes, rarely flooded	0	0.8	0.7%
1226	Lawler loam, 0 to 2 percent slopes, rarely flooded	30	6.4	5.4%
Totals for Area of Interest			**117.4**	**100.0%**

Well Search

Print Help

Well Search Report

Site: Pederson Howard 17

Included in search	No. of wells	Database
X	2	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 Muncipal 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	0	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	29	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	4	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	2	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	0	Ag drainage wells Locational accuracy 100 m., last updated 4/98.

Well Search Detail

Subject: XY UTM Coordinates: 500732/4813712
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
197672	24448	T100N, R18W, 21, NW NW NE NE	Maps/Air Photos +/- 20 m.	954 (m)	45	4/17/1976	Clausen, Delmar	Bedrock Depth: 5 Well Type: Private
178035	9240	T100N, R18W, 20, NE SW SW NE	Calc. +/- 230 ft.	1072 (m)	72	1/19/1957	Wells, Harold	Bedrock Depth: 15 Well Type: Private

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
No records found from this data source								

Wells Registered For Testing

Map ID	Well No.	Location	Accuracy	Dist. From Point	Well Depth	Construction/ Permit Date	Owner/ Permittees	Other Information
59072	51305	T100N, R18W, Sec. 20, SW, NE, NE	Calc. +/- 1135m.	1257 (m)	unkn	unkn	Anderson, Russel	Drilling method: Drilled; Well depth is uncertain

59374	19866	T100N, R18W, Sec. 20, NE, NE, SW	Calc. +/- 285m.	630 (m)	50	1976	Clausen, Del	Drilling method: Drilled;
59375	76123	T100N, R18W, Sec. 20, NE, NE, SE	Calc. +/- 285m.	627 (m)	50	1976	Clausen, Del	Drilling method: Drilled; Known well depth
59064	51400	T100N, R18W, Sec. 20, SW, NE, NE	Calc. +/- 1135m.	1266 (m)	208	1989	Cock, Geraldine	Drilling method: Drilled; Known well depth
59066	51401	T100N, R18W, Sec. 20, SW, NE, NE	Calc. +/- 1135m.	1262 (m)	208	1989	Cock, Geraldine	Drilling method: Drilled; Known well depth
59080	76097	T100N, R18W, Sec. 20, SE, NW, NW	Calc. +/- 1135m.	1262 (m)	unkn	1974	Cowell, Corine	Drilling method: Drilled; Well depth is uncertain
59081	51402	T100N, R18W, Sec. 20, NE, SW, SW	Calc. +/- 1135m.	1253 (m)	unkn	1917	Diedrich, John	Drilling method: Drilled; Well depth is uncertain
59068	51405	T100N, R18W, Sec. 20, NW, SE, SE	Calc. +/- 1135m.	1254 (m)	unkn	unkn	Feldt, Lany	Drilling method: Drilled; Well depth is uncertain
59397	76077	T100N, R18W, Sec. 20, SE, NE, SW	Calc. +/- 285m.	1421 (m)	unkn	1980	Ferguson, Bert	Drilling method: Unknown; Well depth is uncertain
59069	51407	T100N, R18W, Sec. 20, SW, NE, NE	Calc. +/- 1135m.	1258 (m)	unkn	unkn	Heimer, Keith	Drilling method: Drilled; Well depth is uncertain
59071	51406	T100N, R18W, Sec. 20, NW, SE, SE	Calc. +/- 1135m.	1251 (m)	unkn	unkn	Heimer, Keith	Drilling method: Drilled; Well depth is uncertain
58971	19919	T100N, R18W, Sec. 17, SW, SE, SE	Calc. +/- 285m.	619 (m)	unkn	unkn	Herdel, Gene And Cindy	Drilling method: Unknown; Well depth is uncertain
58962	80665	T100N, R18W, Sec. 17, SW, NE, NE	Calc. +/- 285m.	626 (m)	90	unkn	Hertel, Al	Drilling method: Drilled; Estimated well depth

58788	12212	T100N, R18W, Sec. 17, SW, SW, SE	Calc. +/- 285m.	1004 (m)	unkn	unkn	Hertel, Cindy	Drilling method: Drilled; Well depth is uncertain
58963	12211	T100N, R18W, Sec. 17, SW, NE, NE	Calc. +/- 285m.	625 (m)	55	unkn	Hertel, Gene	Drilling method: Drilled; Estimated well depth
59082	76099	T100N, R18W, Sec. 20, NE, SW, SW	Calc. +/- 1135m.	1249 (m)	unkn	unkn	Hulshizer, Mike	Drilling method: Drilled; Well depth is uncertain
58610	12198	T100N, R18W, Sec. 19, NE, SE, NE	Calc. +/- 285m.	(m)	230	1980	Hulshizer, Ronald	Drilling method: Drilled; Known well depth
59904	19962	T100N, R18W, Sec. 16, SE, SW, NE	Calc. +/- 285m.	1439 (m)	85	1979	Johnson, Leroy	Drilling method: Drilled;
59897	76118	T100N, R18W, Sec. 16, SE, SW, SW	Calc. +/- 285m.	1427 (m)	70	1979	Johnson, Leroy S	Drilling method: Drilled; Known well depth
59077	51399	T100N, R18W, Sec. 20, NW, SE, SE	Calc. +/- 1135m.	1249 (m)	100	unkn	Julien, Earl	Drilling method: Drilled; Estimated well depth
58975	76125	T100N, R18W, Sec. 20, NW, SE, NW	Calc. +/- 285m.	1159 (m)	85	1958	Koch, Dennis	Drilling method: Drilled; Known well depth
58988	20726	T100N, R18W, Sec. 20, NW, SE, SE	Calc. +/- 285m.	1158 (m)	82	unkn	Koch, Dennis	Drilling method: Drilled;
58617	19869	T100N, R18W, Sec. 19, SE, NE, SE	Calc. +/- 285m.	(m)	62	unkn	Leidall, Terry & Marsha	Drilling method: Drilled;
59065	76098	T100N, R18W, Sec. 20, NW, SE, SE	Calc. +/- 1135m.	1251 (m)	18	1985	Michell, Joann	Drilling method: Drilled; Known well depth
59083	51409	T100N, R18W, Sec. 20, SE, NW, NW	Calc. +/- 1135m.	1256 (m)	unkn	unkn	Neuman, Darwin	Drilling method: Drilled; Well depth is uncertain

59075	51408	T100N, R18W, Sec. 20, SW, NE, NE	Calc. +/- 1135m.	1264 (m)	unkn	unkn	Neuman, Darwin	Drilling method: Drilled; Well depth is uncertain
59078	51397	T100N, R18W, Sec. 20, NE, SW, SW	Calc. +/- 1135m.	1253 (m)	unkn	unkn	Schaffer, Jeff	Drilling method: Drilled; Well depth is uncertain
58776	12213	T100N, R18W, Sec. 17, NW, SW, SE	Calc. +/- 285m.	(m)	165	1979	Thurnau, Rick	Drilling method: Drilled; Known well depth
58777	76127	T100N, R18W, Sec. 17, SW, NW, SW	Calc. +/- 285m.	1024 (m)	165	1979	Thurnau, Rick	Drilling method: Drilled; Known well depth

Permitted Private Wells

Map ID	Well No.	Location	Accuracy	Dist. From Point	Well Depth	Construction/ Permit Date	Owner/ Permittees	Other Information
59534	2015	T100N, R18W, Sec. 21, NW, NW, NW	Calc. +/- 140m.	706 (m)	150	unkn	Shawver Well	Primary use: Domestic/ household
59570	11065	T100N, R18W, Sec. 21, NW, NW, NW	Calc. +/- 285m.	844 (m)	150	3/16/1993	Unknown	Primary use: Domestic/ household
59531	15230	T100N, R18W, Sec. 21, NW, NW, NW	Calc. +/- 140m.	707 (m)	150	3/16/1993	Unknown	Primary use: Domestic/ household
59067	15240	T100N, R18W, Sec. 20, SW, NE, NE	Calc. +/- 1135m.	1262 (m)	200	unkn	Unknown	Primary use: Domestic/ household

Abandoned Wells (plugged)

Map ID	Well No.	Location	Accuracy	Dist. From Point	Well Depth	Construction/ Permit Date	Owner/ Permittees	Other Information
59613	32178	T100N, R18W, Sec. 16, SW, SW, SE	Calc. +/- 140m.	(m)	30	n.a.	Hugo, Guenther	Well plugged: 3/27/1998; Well type: < 18" dia.
58922	1800	T100N, R18W, Sec. 20, NW, NE, NW	Calc. +/- 140m.	845 (m)	22	n.a.	Koch, R. Geraldine	Well plugged: 4/25/1990; Well type: unkn

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

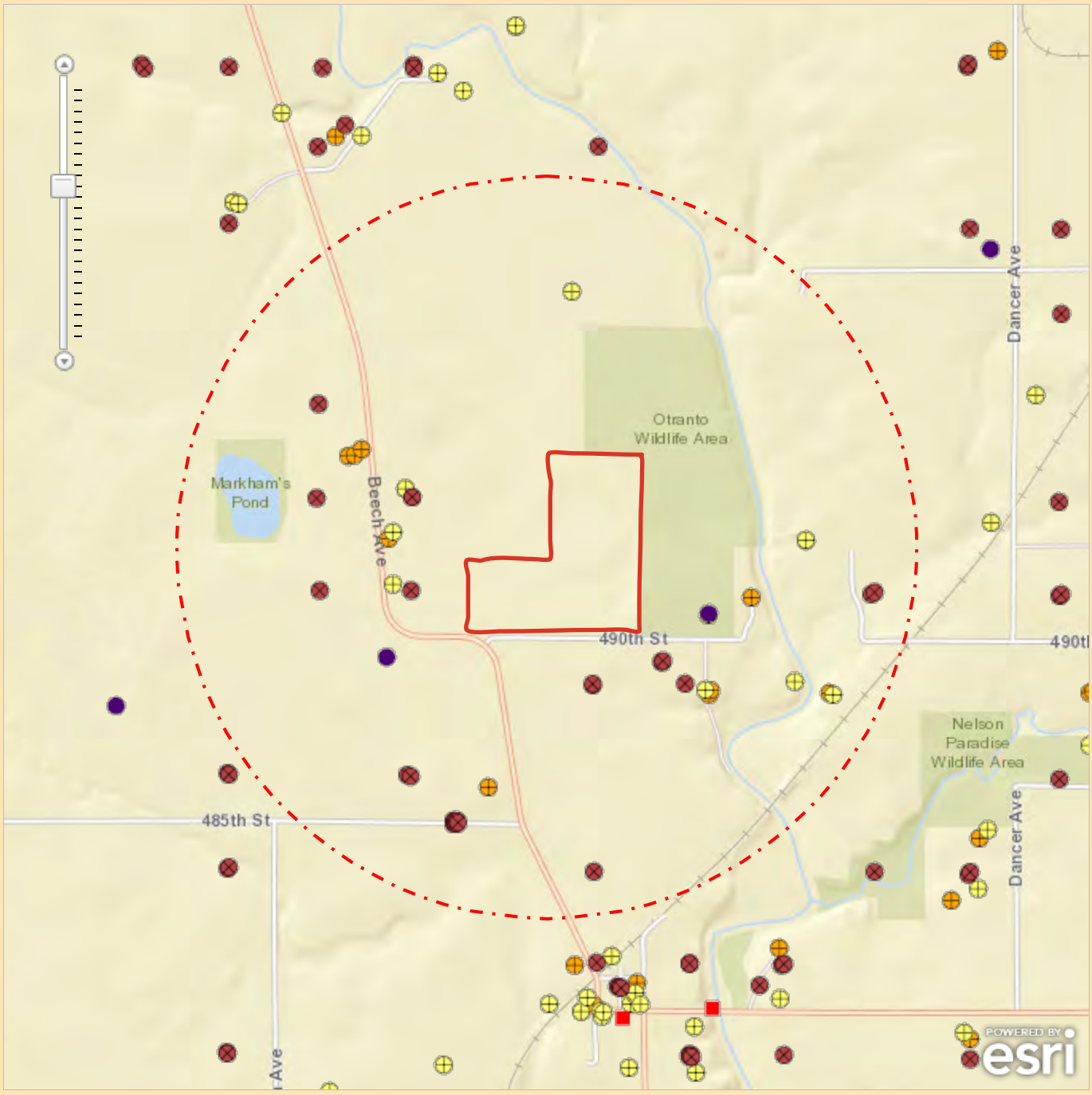
Map ID	Well No.	Location	Accuracy	Dist. From Point	Well Depth	Construction/ Permit Date	Owner/ Permittees	Other Information
No records found from this data source								

Ag Drainage Wells

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

Well Search Buffered Map

Subject: XY UTM Coordinates: 500732/4813712
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.

ENVIRONMENTAL
LAND MANAGEMENT LLC
waste byproduct landspreading specialists

Site Name: Pederson Nelson 14

Unsuitable for Land Application

Jeff Pederson Phone: (507)440-2703 Spreadable Acres: 38 Deliverable Tons: 307

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

Signature_____ Date_____

Map Scale: 1:3,500 if printed on A landscape (11" x 8.5") sheet.

N

Meters: 0 50 100 200 300

Feet: 0 150 300 600 900

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 15N WGS84

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
84	Clyde silty clay loam, 0 to 3 percent slopes	2.2	5.7%
110B	Lamont fine sandy loam, 2 to 5 percent slopes	0.4	0.9%
175B	Dickinson fine sandy loam, 2 to 5 percent slopes	5.1	13.0%
407B	Schley silt loam, 1 to 4 percent slopes	18.9	48.2%
482	Racine silt loam, 0 to 2 percent slopes	0.1	0.3%
482B	Racine loam, 2 to 5 percent slopes	3.7	9.4%
626	Hayfield loam, 0 to 2 percent slopes, rarely flooded	6.0	15.3%
714B	Winneshiek loam, 20 to 30 inches to limestone, till plain, 2 to 5 percent slopes	1.4	3.6%
913B	Waucoma silt loam, till plain, 2 to 5 percent slopes	1.4	3.6%
C235	Coland-Turlin complex, channeled, 0 to 2 percent slopes	0.0	0.0%
Totals for Area of Interest		**39.1**	**100.0%**

T Factor

Map unit symbol	Map unit name	Rating (tons per acre per year)	Acres in AOI	Percent of AOI
84	Clyde silty clay loam, 0 to 3 percent slopes	5	2.2	5.7%
110B	Lamont fine sandy loam, 2 to 5 percent slopes	4	0.4	0.9%
175B	Dickinson fine sandy loam, 2 to 5 percent slopes	3	5.1	13.0%
407B	Schley silt loam, 1 to 4 percent slopes	5	18.9	48.2%
482	Racine silt loam, 0 to 2 percent slopes	5	0.1	0.3%
482B	Racine loam, 2 to 5 percent slopes	5	3.7	9.4%
626	Hayfield loam, 0 to 2 percent slopes, rarely flooded	3	6.0	15.3%
714B	Winneshiek loam, 20 to 30 inches to limestone, till plain, 2 to 5 percent slopes	2	1.4	3.6%
913B	Waucoma silt loam, till plain, 2 to 5 percent slopes	3	1.4	3.6%
C235	Coland-Turlin complex, channeled, 0 to 2 percent slopes	5	0.0	0.0%
Totals for Area of Interest			**39.1**	**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
84	Clyde silty clay loam, 0 to 3 percent slopes	0	2.2	5.7%
110B	Lamont fine sandy loam, 2 to 5 percent slopes	>200	0.4	0.9%
175B	Dickinson fine sandy loam, 2 to 5 percent slopes	>200	5.1	13.0%
407B	Schley silt loam, 1 to 4 percent slopes	30	18.9	48.2%
482	Racine silt loam, 0 to 2 percent slopes	>200	0.1	0.3%
482B	Racine loam, 2 to 5 percent slopes	>200	3.7	9.4%
626	Hayfield loam, 0 to 2 percent slopes, rarely flooded	30	6.0	15.3%
714B	Winneshiek loam, 20 to 30 inches to limestone, till plain, 2 to 5 percent slopes	>200	1.4	3.6%
913B	Waucoma silt loam, till plain, 2 to 5 percent slopes	>200	1.4	3.6%
C235	Coland-Turlin complex, channeled, 0 to 2 percent slopes	0	0.0	0.0%
Totals for Area of Interest			**39.1**	**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

Well Search

Print Help

Well Search Report

Site: Pederson Nelson 14

Included in search	No. of wells	Database
X	3	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 Muncipal 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	0	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	62	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	1	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	8	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: 504599/4813940
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
189860	19412	T100N, R18W, 14, NW NW SW NE	Unknown	753 (m)	63	4/4/1967	Brush, Ed	Bedrock Depth: 20 Well Type: Private
188813	18997	T100N, R18W, 14, NW NW NE NE	Calc. +/- 230 ft.	768 (m)	65	6/16/1966	Hagelund, Peter	Bedrock Depth: 45 Well Type: Private
197159	24433	T100N, R18W, 14, NE NE SE NW	Maps/Air Photos +/- 20 m.	1535 (m)	38	5/30/1975	Hinsman, Darell	Bedrock Depth: 10 Well Type: Private

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
No records found from this data source								

Wells Registered For Testing

Map ID	Well No.	Location	Accuracy	Dist. From Point	Well Depth	Construction/ Permit Date	Owner/ Permittees	Other Information

60679	76019	T100N, R18W, Sec. 22, NE, NW, SW	Calc. +/- 285m.	1174 (m)	unkn	unkn	Anderson, Melvin	Drilling method: Drilled; Well depth is uncertain
60485	10963	T100N, R18W, Sec. 15, SW, SE, NE	Calc. +/- 285m.	(m)	unkn	unkn	Anderson, Russell	Drilling method: Drilled; Well depth is uncertain
60487	16595	T100N, R18W, Sec. 15, SW, SE, SE	Calc. +/- 285m.	1293 (m)	unkn	unkn	Anderson, Russell	Well depth is uncertain
60469	13110	T100N, R18W, Sec. 15, SW, SE, SW	Calc. +/- 285m.	1306 (m)	unkn	unkn	Anderson, Russell	Well depth is uncertain
60471	13106	T100N, R18W, Sec. 15, SW, SE, NW	Calc. +/- 285m.	1300 (m)	unkn	unkn	Anderson, Russell	Well depth is uncertain
60472	13111	T100N, R18W, Sec. 15, SW, SE, NW	Calc. +/- 285m.	1300 (m)	unkn	unkn	Anderson, Russell	Well depth is uncertain
60466	19957	T100N, R18W, Sec. 15, SW, SE, SW	Calc. +/- 285m.	1307 (m)	unkn	unkn	Anderson, Russell	
60474	10964	T100N, R18W, Sec. 15, SW, SE, SW	Calc. +/- 285m.	1303 (m)	unkn	unkn	Anderson, Russell	Drilling method: Drilled; Well depth is uncertain
60478	13112	T100N, R18W, Sec. 15, SW, SE, NW	Calc. +/- 285m.	1297 (m)	unkn	unkn	Anderson, Russell	Well depth is uncertain
60480	16594	T100N, R18W, Sec. 15, SW, SE, NE	Calc. +/- 285m.	1297 (m)	unkn	unkn	Anderson, Russell	Well depth is uncertain
60482	13109	T100N, R18W, Sec. 15, SW, SE, NE	Calc. +/- 285m.	1297 (m)	unkn	unkn	Anderson, Russell	Well depth is uncertain
61003	76121	T100N, R18W, Sec. 14, NW, NW, SW	Calc. +/- 285m.	798 (m)	68	1967	Bensend, Dale	Drilling method: Drilled; Known well depth

61161	80692	T100N, R18W, Sec. 14, SW, NE, SW	Calc. +/- 285m.	(m)	40	unkn	Bruggeman, Henry	Drilling method: Unknown; Known well depth
61304	80838	T100N, R18W, Sec. 14, SE, SW, SE	Calc. +/- 285m.	919 (m)	39	1957	Duenow, Dene	Drilling method: Driven; Known well depth
61020	19953	T100N, R18W, Sec. 14, SW, SW, SW	Calc. +/- 285m.	419 (m)	unkn	1955	Hanson, Wayne	Drilling method: Drilled; Well depth is uncertain
61015	51398	T100N, R18W, Sec. 14, SW, SW, NW	Calc. +/- 285m.	415 (m)	unkn	unkn	Hanson, Wayne A.	Drilling method: Drilled; Well depth is uncertain
61274	12987	T100N, R18W, Sec. 11, SE, SW, SW	Calc. +/- 285m.	(m)	unkn	unkn	Knudsen, Anders	Well depth is uncertain
61275	12986	T100N, R18W, Sec. 11, SE, SW, SW	Calc. +/- 285m.	1441 (m)	unkn	unkn	Knudsen, Anders	Well depth is uncertain
61156	80733	T100N, R18W, Sec. 11, SW, SE, NE	Calc. +/- 285m.	1260 (m)	unkn	1930	Knudsen, Anders	Drilling method: Drilled; Well depth is uncertain
61282	10941	T100N, R18W, Sec. 11, SE, SW, NE	Calc. +/- 285m.	1450 (m)	unkn	1995	Knudsen, Anders	
61287	12989	T100N, R18W, Sec. 11, SE, SW, SE	Calc. +/- 285m.	1450 (m)	unkn	unkn	Knudsen, Anders	Well depth is uncertain
61288	12988	T100N, R18W, Sec. 11, SE, SW, SE	Calc. +/- 285m.	1451 (m)	unkn	unkn	Knudsen, Anders	Well depth is uncertain
61290	10938	T100N, R18W, Sec. 11, SE, SW, NE	Calc. +/- 285m.	1455 (m)	unkn	1995	Knudsen, Anders	
61291	12990	T100N, R18W, Sec. 11, SE, SW, SE	Calc. +/- 285m.	1446 (m)	unkn	1995	Knudsen, Anders	Well depth is uncertain

60685	19932	T100N, R18W, Sec. 22, NE, NW, NE	Calc. +/- 285m.	(m)	65	unkn	Meyer, Loren	Drilling method: Drilled;
60854	76074	T100N, R18W, Sec. 22, NE, NE, SW	Calc. +/- 285m.	932 (m)	35	1988	Nitardy, Steve	Drilling method: Drilled; Known well depth
60488	16633	T100N, R18W, Sec. 15, SW, SE, SE	Calc. +/- 285m.	1294 (m)	100	unkn	Roberts, Laverne	Estimated well depth
60483	16634	T100N, R18W, Sec. 15, SW, SE, SE	Calc. +/- 285m.	1300 (m)	100	unkn	Roberts, Laverne	Estimated well depth
60477	12918	T100N, R18W, Sec. 15, SW, NE, NE	Calc. +/- 285m.	1213 (m)	100	unkn	Roberts, Laverne	Estimated well depth
60473	12920	T100N, R18W, Sec. 15, SW, NE, SE	Calc. +/- 285m.	1216 (m)	100	unkn	Roberts, Laverne	Estimated well depth
60458	12919	T100N, R18W, Sec. 15, SW, NE, NE	Calc. +/- 285m.	1222 (m)	100	unkn	Roberts, Laverne	Estimated well depth
60459	12917	T100N, R18W, Sec. 15, SW, NE, NE	Calc. +/- 285m.	1222 (m)	100	unkn	Roberts, Laverne	Estimated well depth
60460	10887	T100N, R18W, Sec. 15, SW, NE, NE	Calc. +/- 285m.	1221 (m)	100	unkn	Roberts, Laverne	
60464	10890	T100N, R18W, Sec. 15, SW, NE, NE	Calc. +/- 285m.	1218 (m)	100	unkn	Roberts, Laverne	
60465	12911	T100N, R18W, Sec. 15, SW, NE, SE	Calc. +/- 285m.	1218 (m)	100	unkn	Roberts, Laverne	Estimated well depth
61025	19930	T100N, R18W, Sec. 23, NW, NW, NW	Calc. +/- 285m.	816 (m)	100	1984	Rohde, Karen	Drilling method: Drilled;

61004	76109	T100N, R18W, Sec. 14, NW, NW, SW	Calc. +/- 285m.	800 (m)	20	unkn	Rohde, Raymond	Drilling method: Unknown; Known well depth
61155	20021	T100N, R18W, Sec. 11, SW, NE, NE	Calc. +/- 285m.	1590 (m)	unkn	unkn	Sievert, Doug	Well depth is uncertain
60856	52364	T100N, R18W, Sec. 22, NE, NE, NW	Calc. +/- 285m.	923 (m)	40	1968	Slinder, Juliene	Drilling method: Drilled; Known well depth
60853	19926	T100N, R18W, Sec. 22, NE, NE, SW	Calc. +/- 285m.	928 (m)	unkn	unkn	Slinder, June	Drilling method: Unknown; Well depth is uncertain
60660	76002	T100N, R18W, Sec. 15, NE, NW, NE	Calc. +/- 285m.	1131 (m)	unkn	1957	Straif, Fay	Drilling method: Drilled; Well depth is uncertain
60831	16583	T100N, R18W, Sec. 15, NE, SE, SW	Calc. +/- 285m.	564 (m)	80	unkn	Thoma, Roger	
60833	16586	T100N, R18W, Sec. 15, NE, SE, SW	Calc. +/- 285m.	562 (m)	80	unkn	Thoma, Roger	
60835	16585	T100N, R18W, Sec. 15, NE, SE, NE	Calc. +/- 285m.	563 (m)	80	unkn	Thoma, Roger	
60847	16584	T100N, R18W, Sec. 15, NE, SE, SE	Calc. +/- 285m.	554 (m)	80	unkn	Thoma, Roger	
60839	16587	T100N, R18W, Sec. 15, NE, SE, NE	Calc. +/- 285m.	564 (m)	80	unkn	Thoma, Roger	
60857	19955	T100N, R18W, Sec. 15, SE, SE, SE	Calc. +/- 285m.	583 (m)	unkn	unkn	Thome, Dan	Drilling method: Drilled; Well depth is uncertain
60840	12912	T100N, R18W, Sec. 15, NE, SE, NE	Calc. +/- 285m.	561 (m)	80	unkn	Thome, Roger	Estimated well depth

60842	12924	T100N, R18W, Sec. 15, NE, SE, NE	Calc. +/- 285m.	560 (m)	80	unkn	Thome, Roger	Estimated well depth
60845	10892	T100N, R18W, Sec. 15, NE, SE, NE	Calc. +/- 285m.	559 (m)	80	unkn	Thome, Roger	Estimated well depth
60830	76106	T100N, R18W, Sec. 15, NE, SE, NW	Calc. +/- 285m.	574 (m)	unkn	1978	Thome, Roger	Drilling method: Drilled; Well depth is uncertain
60836	10891	T100N, R18W, Sec. 15, NE, SE, NE	Calc. +/- 285m.	562 (m)	80	unkn	Thome, Roger	Estimated well depth
60837	12922	T100N, R18W, Sec. 15, NE, SE, NE	Calc. +/- 285m.	563 (m)	80	unkn	Thome, Roger	Estimated well depth
60838	76105	T100N, R18W, Sec. 15, NE, SE, SE	Calc. +/- 285m.	557 (m)	unkn	1978	Thome, Roger	Drilling method: Drilled; Well depth is uncertain
60834	12921	T100N, R18W, Sec. 15, NE, SE, NE	Calc. +/- 285m.	568 (m)	80	unkn	Thome, Roger	Estimated well depth
60832	12923	T100N, R18W, Sec. 15, NE, SE, NW	Calc. +/- 285m.	569 (m)	80	unkn	Thome, Roger	Estimated well depth
61400	20027	T100N, R18W, Sec. 14, NE, NE, SW	Calc. +/- 285m.	1478 (m)	unkn	unkn	Thurnau, Deb	Well depth is uncertain
61007	76091	T100N, R18W, Sec. 14, NW, NW, SW	Calc. +/- 285m.	804 (m)	unkn	1920	Warrington, Loraine	Drilling method: Drilled; Well depth is uncertain
60822	76089	T100N, R18W, Sec. 10, SE, SE, SW	Calc. +/- 285m.	1234 (m)	120	1996	Williams, Mrs. Calvin	Drilling method: Drilled; Known well depth
61413	80732	T100N, R18W, Sec. 14, SE, SE, SW	Calc. +/- 285m.	1294 (m)	unkn	unkn	Wright, Tony	Well depth is uncertain

61418	80690	T100N, R18W, Sec. 14, SE, SE, NE	Calc. +/- 285m.	1298 (m)	unkn	unkn	Wright, Tony	Drilling method: Unknown;
60468	51391	T100N, R18W, Sec. 15, SW, SE, SW	Calc. +/- 285m.	1306 (m)	unkn	unkn	Yost, Dale	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
60664	15248	T100N, R18W, Sec. 15, SE, NW, NE	Calc. +/- 285m.	814 (m)	200	1/10/1989	Unknown	Primary use: Irrigation

Abandoned Wells (plugged)

Map ID	Well No.	Location	Accuracy	Dist. From Point	Well Depth	Construction/ Permit Date	Owner/ Permittees	Other Information
61119	9376	T100N, R18W, Sec. 14, NW, NE, NW	Calc. +/- 140m.	963 (m)	unkn	n.a.	Duenow, Dene	Well plugged: 7/30/1992; Well type: < 18" dia.
60958	18949	T100N, R18W, Sec. 14, NW, NW, NW	Calc. +/- 140m.	907 (m)	10	n.a.	Faas, George	Well plugged: 7/31/1995; Well type: < 18" dia.
60959	18950	T100N, R18W, Sec. 14, NW, NW, NW	Calc. +/- 140m.	905 (m)	26	n.a.	Faas, George	Well plugged: 7/31/1995; Well type: < 18" dia.
61322	16907	T100N, R18W, Sec. 14, NE, SW, NE	Calc. +/- 140m.	1060 (m)	11	n.a.	Hanson, Wayne	Well plugged: 5/27/1994; Well type: > 18" dia.
61281	7353	T100N, R18W, Sec. 11, SE, SW, SE	Calc. +/- 285m.	1444 (m)	27	n.a.	Knudsen, Anders	Well plugged: 6/25/1992; Well type: > 18" dia.
61088	19001	T100N, R18W, Sec. 11, SW, SE, NW	Calc. +/- 570m.	1369 (m)	30	n.a.	Knudson, Anders	Well plugged: 7/30/1995; Well type: Sandpoint

61242	10674	T100N, R18W, Sec. 14, NE, NW, NW	Calc. +/- 140m.	1171 (m)	32	n.a.	Mona Luthern Church, Mona Luthern Church	Well plugged: 5/11/1993; Well type: < 18" dia.
60623	28575	T100N, R18W, Sec. 15, NE, SW, SW	Calc. +/- 140m.	953 (m)	44	n.a.	Thome, W. Roger & Linda C.	Well plugged: 5/1/1997; 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

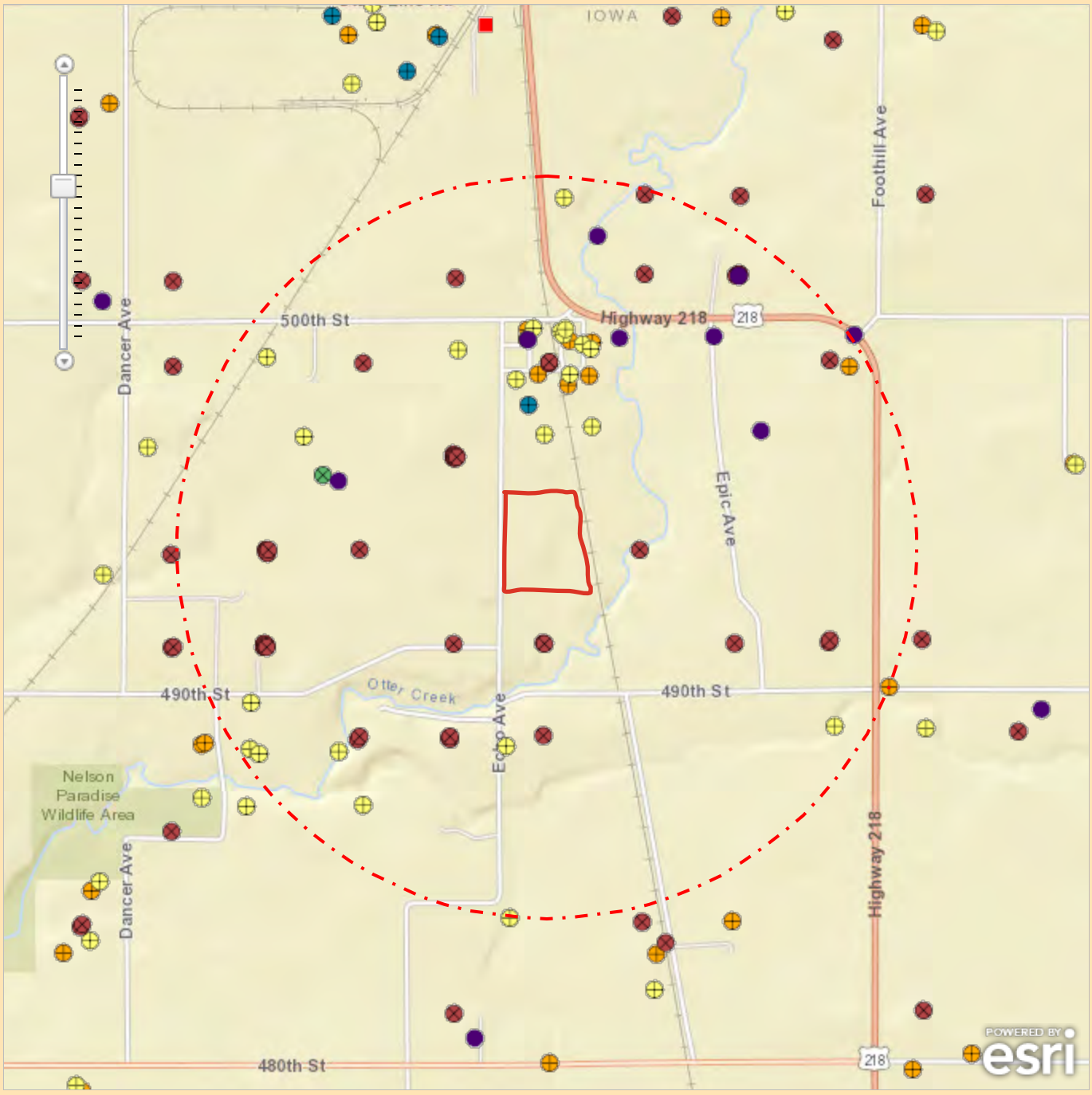
Map ID	Well No.	Location	Accuracy	Dist. From Point	Well Depth	Construction/ Permit Date	Owner/ Permittees	Other Information
No records found from this data source								

Ag Drainage Wells

Map ID	Well No.	Location	Accuracy	Dist. From Point	Well Depth	Construction/ Permit Date	Owner/ Permittees	Other Information
60592	10018W15AC01	no data18W., Sec. 15, NE, SW, SW	+/- 100 m.	1022 (m)	0	no data	Thome, W. Roger	Status: Closed or reclassified

Well Search Buffered Map

Subject: XY UTM Coordinates: 504599/4813940
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.

EXTended Ag Services, Inc.
202 South Highway 86
Lakefield, MN 56150
507.662.5005 phone
507.662.5105 fax
info@extendedag.com

January 21, 2026

Environmental Land Management

1602 11th Drive NE

Austin, MN 55912

RE: Review of Potential Land Application Sites – Mitchell County

Michael,

We have completed our review of the proposed land application site for the Hormel facility in Austin, Minnesota. 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
Pederson Howard 17	114.55
Pederson Howard 7	185.72
Pederson Howard 9	170.77
Pederson Nelson 14	38.39
Grand Total	**509.43**

Imagery provided by the National Ag Imagery Program (2021) was utilized to determine whether the land application sites were in crop production, pasture/hay or non-farmed land. Overall, the land application sites have few limitations regarding slope steepness and length and general erosion potential.

There are approximately 509.4 acres available for land application of the industrial by-product. The land application site is dominated by silt loams and loams. Approximately 35.2 acres are classified as a fine sandy loam. This soil has the *potential* to exceed the allowable sand content for biosolid application. Site investigation of the soil type may be warranted to determine the percent sand and silt content. All other soils have an acceptable soil texture for land application.

According to the NRCS, 100% of the sites have acceptable slopes for the land application of the Cargill byproducts (0-9%). Regarding erosion concerns, 96.6% of the identified soils are classified as having 'slight' concerns. Approximately 0.1% of the soils are classified as highly erodible soil, 9.4% as potentially highly erodible and the remainder are classified as non-highly erodible soils.

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 be limited to areas with the lowest slope first and then be directed to areas the furthest from sensitive features such as water. 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
N/A	4.01
0-2%	134.04
0-3%	39.27
1-3%	0.04
1-4%	247.66
2-5%	84.22
5-9%	0.19
Grand Total	**509.43**

Approximately 1.3% of the soils identified as potential land application sites are listed by the NRCS soil survey as ponded, commonly or frequently flooded. 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
.	4.01
NONE	498.13
OCCASSIONAL	0.50
PONDED	6.77
FREQUENT	0.02
Grand Total	**509.43**

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 15 Wet Tons per acre are appropriate for the field 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

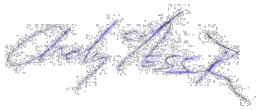
proposed land application site are naturally acidic in nature. Agricultural lime should be applied to ensure the soil pH is above 6.0 prior to land application of any byproducts.

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 suitable for land application of solid wastes if 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

Landowner, Lessee and/or Landoperator: Jeff Pederson
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 cleaning water and animal residue is generated from Hormel Foods' pork processing plant. The facility has a pre-treatment plant and a de-watering process, in which solids are recovered. The byproduct is treated with hydrated lime to stabilize the material. The paunch material is undigested and/or partially digested feed removed from the hogs' intestines and stomachs (3% or less of the total will be paunch).
Pretreat and paunch is generated from: Hormel Foods Corporation - Austin, MN

Analysis of pretreat byproduct on a "dry" basis:
****Analysis is not guaranteed for agronomic value. Byproduct output will be variable.*

Total Solids	35.0 %	Arsenic	none detected
pH	12.5	Barium	19.5 mg/kg
Tot.Kjeldahl Nitrogen	2.76 %	Cadmium	none detected
Ammonia Nitrogen	0.12 %	Chromium	21.7 mg/kg
Phosphorus	1.01 %	Copper	33.8 mg/kg
P2O5	2.31 %	Manganese	73.1 mg/kg
Potassium	0.04 %	Mercury	none detected
K2O	0.04 %	Molybdenum	none detected
Chloride	0.20 %	Nickel	6.2 mg/kg
Sodium	0.14 %	Selenium	none detected
Calcium	17.0 %	Silver	none detected
Magnesium	0.40 %	Zinc	64.5 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 pretreat and paunch 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: 02/28/2022

CROP	ADDITIONAL NITROGEN
SWEET CORN ON SOYBEANS	60 LBS
CORN ON SOYBEANS	80 LBS
CORN ON SWEET CORN	100 LBS