

CHIPPEWA COUNTY
LAND CONSERVATION & FOREST MANAGEMENT COMMITTEE
SPECIAL MEETING

JULY 26, 2022

OFF SITE

8:00 AM

THE MEETING WILL COMMENCE AND END IN THE PARKING LOT OF THE CHIPPEWA COUNTY COURTHOUSE, 711 N. BRIDGE STREET, CHIPPEWA FALLS, WI 54729.

No business will be conducted or action taken. A quorum of the County Board may potentially be present.

1. CALL TO ORDER

Vice Chair Bomar called the meeting to order at 8:05 a.m.

2. ROLL CALL

Attendee Name	Organization	Title	Status	Arrived
Ken Schmitt	Chippewa County	District 3 (Chair)	Absent	
Charles Bomar	Chippewa County	District 12 (Vice-Chair)	Present	
James Flater	Chippewa County	District 1	Present	
David Bischel	Chippewa County	District 4	Present	
Jason Bergeron	Chippewa County	District 7	Present	
Matthew Peterson	Chippewa County	District 10	Present	
James Pingel	Chippewa County	Citizen Rep	Present	

Agency staff present at times throughout the tour were D. Hutchison (DNR), K. Clow, A. Gilles, J. Gregory, M. Hansen, K. Klingberg, J. Larson, L. Schweikert, T. Shutter, R. Yohnk, and J. Schemenauer - Recorder (LCFM).

Members of the public present at times throughout the tour were C. Laufenberg and K. and S. Culver.

3. CONSENT AGENDA

RESULT:	APPROVED [UNANIMOUS]
MOVER:	Jason Bergeron, District 7
SECONDER:	David Bischel, District 4
AYES:	Bomar, Flater, Bischel, Bergeron, Peterson, Pingel
ABSENT:	Schmitt

1. Approve the Agenda

4. REPORTS

1. 8:00-8:30 - Registration/Board Bus
The Committee departed from the Courthouse at approximately 8:30 a.m.
2. 8:30-12:00 - View Industrial Sand Mines and Manure Storage Facility

Land Conservation & Forest Management Committee

Minutes
Special Meeting

Off Site

July 26, 2022
8:00 AM

The Committee viewed the following sites:

1. EOG Resources - SS mine site.
2. Preferred Sands mine site.
3. S. Culver waste storage facility and transfer.
4. Superior Silica Sands mine site.
3. 12:00-1:00 - Lunch at David R. Obey Ice Age Interpretive Center
The Committee toured the David R. Obey Ice Age Interpretative Center and had lunch.
4. 1:00-3:15 - Tour Chippewa County Forest & View Planned Ice Age Trail Corridor
The Committee toured the Chippewa County Forest and viewed an active timber sale site, the Hickory Ridge Trailhead, and the proposed Ice Age Trail Corridor through Chippewa County.
5. 3:15-4:30 - View Agricultural Practices & Return to Courthouse
The Committee viewed various agricultural practices in the eastern part of Chippewa County (Steinke, Siverling).

5. BUSINESS ITEMS

6. AGENDA ITEMS FOR FUTURE CONSIDERATION

7. ADJOURN

Motion to adjourn: Bergeron/Peterson. Motion carried by voice vote at 4:07 p.m.

RESULT:	APPROVED [UNANIMOUS]
MOVER:	Jason Bergeron, District 7
SECONDER:	Matthew Peterson, District 10
AYES:	Bomar, Flater, Bischel, Bergeron, Peterson, Pingel
ABSENT:	Schmitt



STATEMENT OF EXPLANATION

4.2

8:30-12:00 - VIEW INDUSTRIAL SAND MINES AND MANURE STORAGE FACILITY

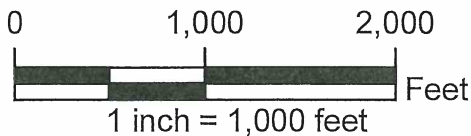
The Committee will view several industrial sand mines in the western part of the County and construction of a manure storage facility at the S. Culver Farm in the Town of Auburn.

Non-Metallic Mining Reclamation Permit Site Boundaries - 2021 Permit Year



Photobase: 2020

Note: This map is for depiction of location only and is not a Reclamation Plan.



Primary Parcel #: 22910-1123-00000000

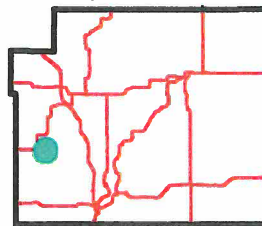
Operator: EOG RESOURCES
INC.

Owner: Robert Schindler
Jeff Sikora

Site Name: S&S Mine

Permit #: 2009-01

Active Acres: 150.6



Mine location within
Chippewa County

Legend

- 2022 Active Mine Boundary
- 2021 Active Mine Boundary
- Total Permit Area
- Certified Reclamation
- In-Progress Reclamation
- Roads
- ~~~~~ Perennial Stream
- - - - - Intermittent Stream
- ~~~~~ DNR Wetlands
- ~~~~~ Lakes





Attachment: SS Mine Info. (7176 : 8:30-12:00 - View Industrial Sand Mines and Manure Storage Facility)



Image Date:
11-12-2021

Author: EWL

Date: 12/16/2021

Data Sources:

0 750 Feet



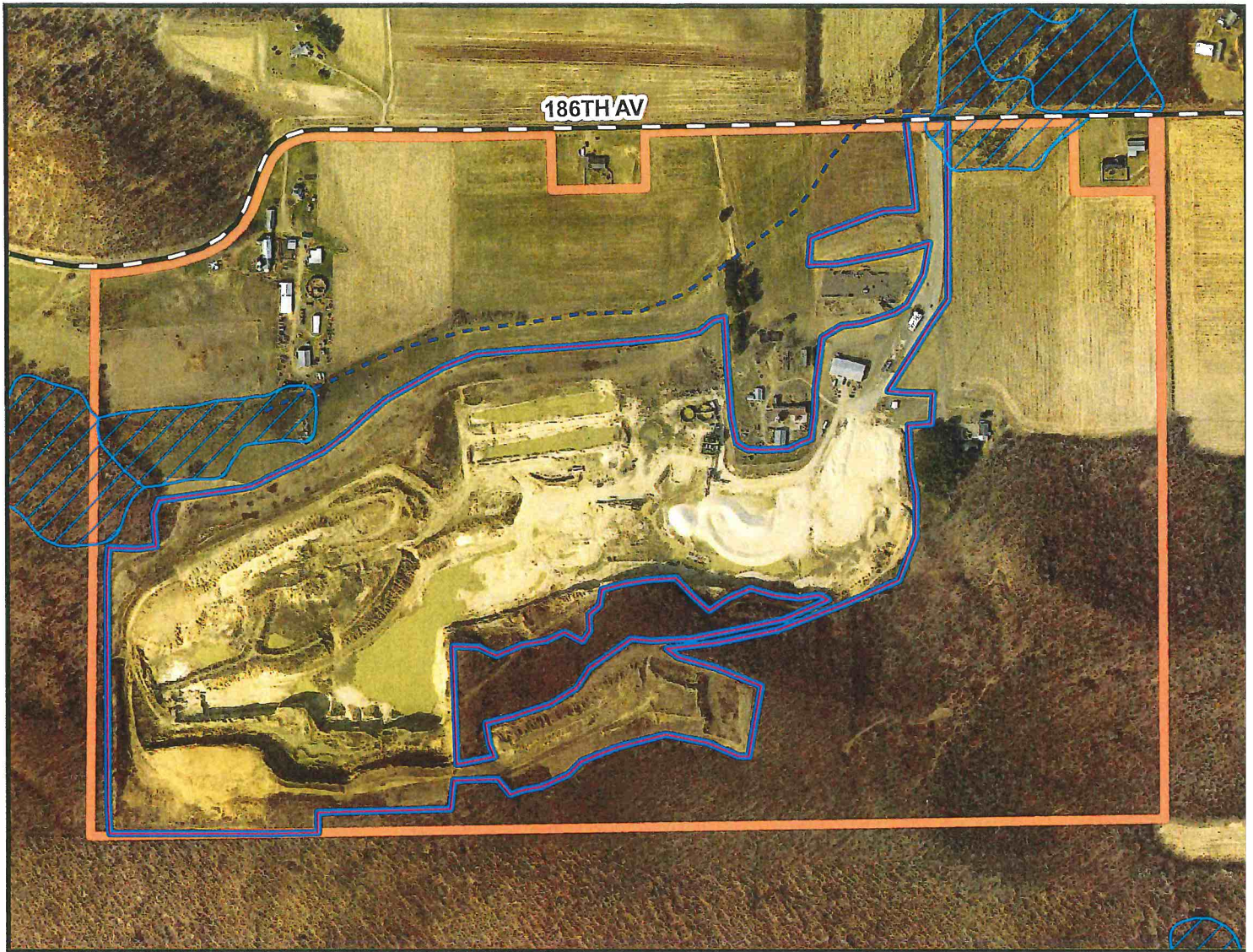
SS Mine
Matting Areas



EOG SS Mine

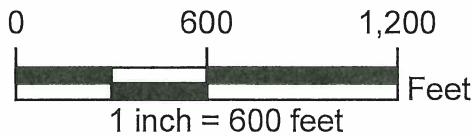
- Canadian Sand Proppants, Inc (Operator) obtained a Nonmetallic Mine (NMM) permit in April 2009. It was the first industrial sand permit in Chippewa County. This mine also had a nonmetallic mining operations license from the Town of Howard.
- This NMM Permit was transferred to EOG Resources, Inc in November 2010.
- Two agricultural landowners lease their property to mine operator.
- The total permitted mine boundary is 185 acres. 150.6 acres was actively mined from 2010-2017.
- This site is externally drained via two stormwater ponds.
- There are five groundwater monitoring wells on this site. The groundwater elevations are recorded quarterly. Water samples are collected on an annual basis and tested for various chemicals.
- The Post Mining Land Use for the site is perennial hay and shallow and deep pond. The first cut hay was completed in June 2022.
- Reclamation began with earthwork and grading in winter of 2020. Final grading (subsoil and topsoil placement, seeding) began in Spring/Summer 2021. Erosion was observed in Fall of 2021. This erosion was repaired in the Fall/Winter of 2021.
- The site is considered in progress reclamation. LCFM is monitoring the repairs, any additional erosion that occurs, and reclamation progress through periodic site inspections.
- The financial assurance amount was evaluated for this mine in April 2022. LCFM determined the amount could be reduced from \$1.3 Million to \$963,946 due to completed reclamation activities.

Non-Metallic Mining Reclamation Permit Site Boundaries - 2021 Permit Year



Photobase: 2020

Note: This map is for depiction of location only and is not a Reclamation Plan.



Primary Parcel #: 23010-0334-02000000

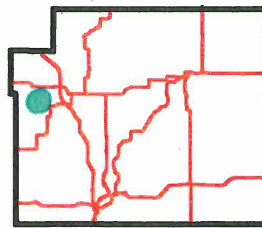
Operator: PREFERRED SANDS
LLC

Owner: Samuel, Donald, James
La Gesse, Prill, Springer

Site Name: La Gesse Mine

Permit #: 2011-01

Active Acres: 86.7



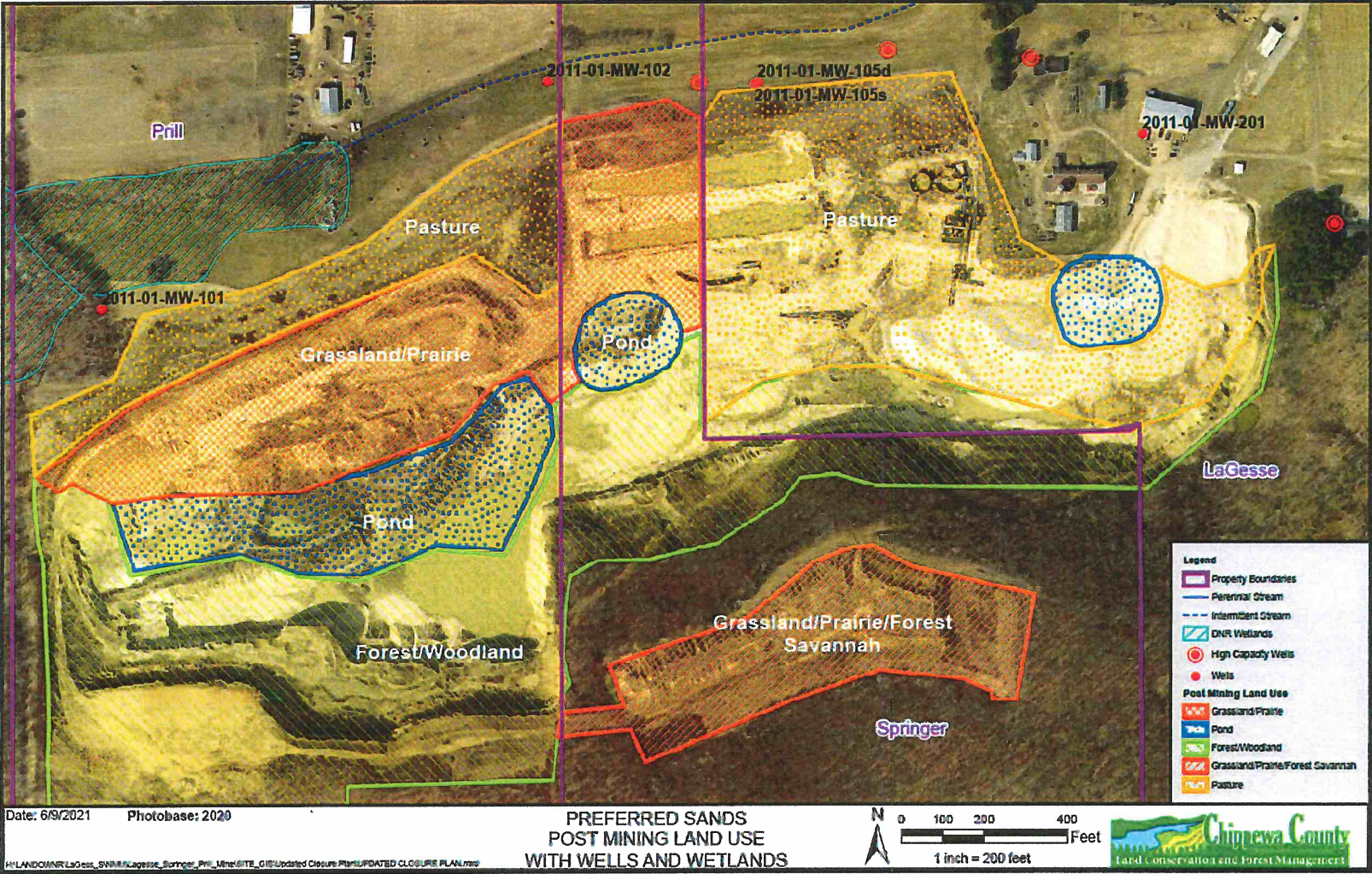
Mine location within
Chippewa County

Legend

- 2022 Active Mine Boundary
- 2021 Active Mine Boundary
- Total Permit Area
- Certified Reclamation
- In-Progress Reclamation
- Roads
- Perennial Stream
- Intermittent Stream
- DNR Wetlands
- Lakes



Appendix A(4) Wells and Wetlands within 660 feet of mine site



Preferred Sands, LCC Mine

- Preferred Sands, LCC obtained a Nonmetallic Mine (NMM) Permit in June 2011. This mine also has a nonmetallic mining operations license from the Town of Cooks Valley.
- Three landowners (dairy producer, recreational landowner, crop/beef producer) lease their property to mine operator.
- The total permitted mine boundary is 225 acres. 86.7 acres was actively mined from 2011-2019.
- This site is internally drained. Deposited sediment will be used to repair erosion. The site will become externally drained during reclamation via a stormwater pond.
- There are five groundwater monitoring wells on this site. The groundwater elevations are recorded quarterly. Water samples are collected every six months and tested for acrylamides.
- The Post Mining Land Use for the site is pasture, forest savannah, forest woodland, grassland/prairie, and shallow/deep ponds.
- Reclamation began in October 2021 with earthwork and grading. Final grading (subsoil and topsoil placement, seeding) is anticipated to begin in fall of 2022.
- The site is considered an active mine due to lack of vegetative cover.
- A cooperative agreement between Preferred Sands, LLC and Chippewa County outlines the staged reduction of the financial assurance amount for this mine. The financial assurance amount began at \$2.91M and is now at \$1.42 M due to reclamation benchmarks being achieved.

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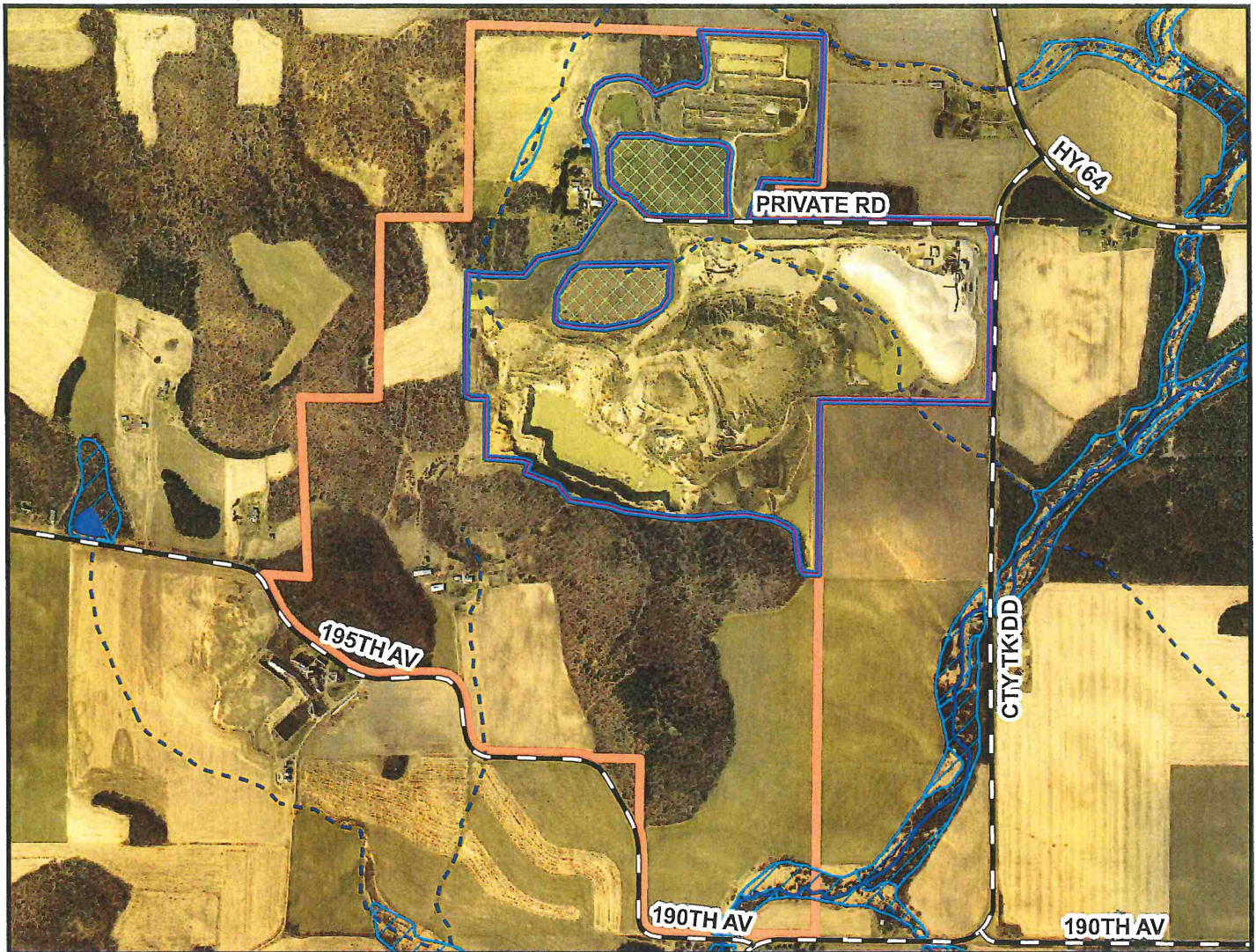
Culver Family Farms – Waste Storage Facility and Transfer System

- A surface water discharge complaint for this facility was received in September 2015.
- In October 2015, an onsite NR 151 eval performed and WI DNR Case Activity Report was filed documenting the field investigation. The investigation found that the facility was storing liquid manure in field depressions which overflowed to a tributary of Trout Creek (tributary to the Red Cedar River- federally impaired). DNR determined that there was a discharge to waters of the state.
- In April 2016, LCFM applied for a WI DNR Targeted Runoff Management grant in the amount of \$150,000 on behalf of Culver Farms. The grant awarded in November of 2016.
- In August 2017, the Owner indicated he could not afford to construct a manure storage structure as the \$150,000 state grant award was insufficient (<50% of the total estimated costs).
- In Oct 2017- WI DNR issued Notice of Discharge (NOD) with compliance schedule. The Owner retained legal counsel.
- In February 2018, the owner failed to meet NOD deadlines regarding the completion of a Nutrient Management Plan.
- In March/April 2018, a Notice of Violation (NOV) was issued and an Enforcement Conference was held.
- In April 2019, a NOD grant application submitted by LCFM on behalf of Culver Farms to construct a compost system. The application denied due to cost containment concerns.
- In August 2019, a revised NOD grant application was resubmitted to address concerns. Grant was approved.
- From Dec 2019-Aug 2021, a private consultant/vendor developed a compost design. The vendor was not able to obtain the compost equipment, and the consultant not able to prove feasibility so the compost project was abandoned.
- In January 2022, LCFM requested a grant extension and was approved.
- From January 2022-May 2022, LCFM designed a traditional storage facility (10' vertical wall concrete structure with push off ramp).
- In May/June 2022, the project was publicly bid and a grant amendment was requested and approved. The bid was awarded and construction began.

		Estimated Eligible Cost			
		Total Costs	Share (90% of Total Costs)	State Share Amounts	Local Share
NOD09000Y20 Culver Family Farms LLC Trout Creek/Red Cedar NOD					
<u>Current Budget</u>		<u>Amended Budget</u>			
BMP Cost Share (90%)		BMP Cost Share (90%)			
Structural	\$435,616.20	807,890	727,101	727,101	80,789
Cropping	\$0.00	-	-	-	-
Force Account (70%)	\$21,780.80	807,890	727,101	727,101	80,789
Total	\$457,397.00	40,395	36,355	36,355	80,789
		Total	848,285	763,456	763,456
					161,578

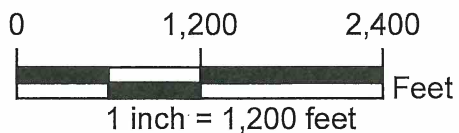
- The project is anticipated to be complete by September 30, 2022.

Non-Metallic Mining Reclamation Permit Site Boundaries - 2021 Permit Year



Photobase: 2020

Note: This map is for depiction of location only and is not a Reclamation Plan.



Primary Parcel #: 23110-3312-00000000

Operator: SUPERIOR SILICA SANDS
LLC

Owner: Anthony
Glaser et al.

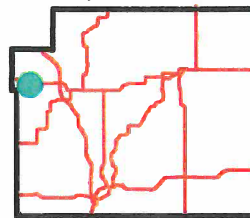
Site Name: Glaser Mine

Permit #: 2011-02

Active Acres: 181.0

In- Progress Reclamation Acres: 18.5

Total Billed Acres: 185.6



Mine location within
Chippewa County

Legend

- 2022 Active Mine Boundary
- 2021 Active Mine Boundary
- Total Permit Area
- Certified Reclamation
- In-Progress Reclamation
- Roads
- Perennial Stream
- Intermittent Stream
- DNR Wetlands
- Lakes



Superior Silica Sands Mine

- Superior Silica Sands (Operator) obtained a Nonmetallic Mine (NMM) Permit in May 2011. There have been multiple modifications to permit including expansion of mine boundary, stormwater management, and installation settling ponds. This mine also has a nonmetallic mining operations license from Town of Auburn.
- Six landowners (ag producer/beef operations/crops/woods) lease their property to the mine operator.
- The Operator filed for bankruptcy in Fall 2019-Spring 2020. The NMM permit was suspended July 2019-March 2020 due to inadequate financial assurance and the need to install additional monitoring wells.
- The total permitted mine boundary is 473 acres. 199.5 acres was actively mined from 2011-2018
- This site is externally drained via multiple stormwater ponds, but the operator has pumped from the settling and stormwater ponds to mine floor to prevent uncontrolled discharges from the site.
- There are ten groundwater monitoring wells on this site. The groundwater elevations are recorded quarterly. The mine voluntarily tests for other chemicals including acrylamides and nitrates.
- Dr. Holly Dolliver (UW River Falls) studied the Prairie Research Plot from 2014-2018.
- Goals of the research plot included:
 - Record existing physical and biological characteristics of unmined soils to assess the biodiversity, soil health, and land use capabilities before mining begins.
 - Document best management practices used by mine operators to re-establish post-mine contours and soil materials.
 - Use soil test plots to evaluate the benefits of soil amendments and biological conditioning.
 - Use soil test plots to monitor the changes in test plot vegetation and soil properties as a measure of reclamation
- The Post Mining Land Use for the site is agricultural purposes such as row crops. Any area that cannot sustain conventional agricultural crop production will be used for other agricultural purposes or will be restored to wildlife habitat.
- The site is considered an active mine, except for the research plot/hay field which is considered in progress reclamation.
- LCFM is discussing further reclamation activities with operator with reclamation possibly resuming in 2023.
- The current financial assurance amount for this mine is \$4.65M.



STATEMENT OF EXPLANATION

4.3

12:00-1:00 - LUNCH AT DAVID R. OBEY ICE AGE INTERPRETIVE CENTER

The David R. Obey Ice Age Interpretive Center houses glacial, cultural and natural history displays, and is used extensively for public and youth education.

The Committee will tour the interpretative center and have lunch.



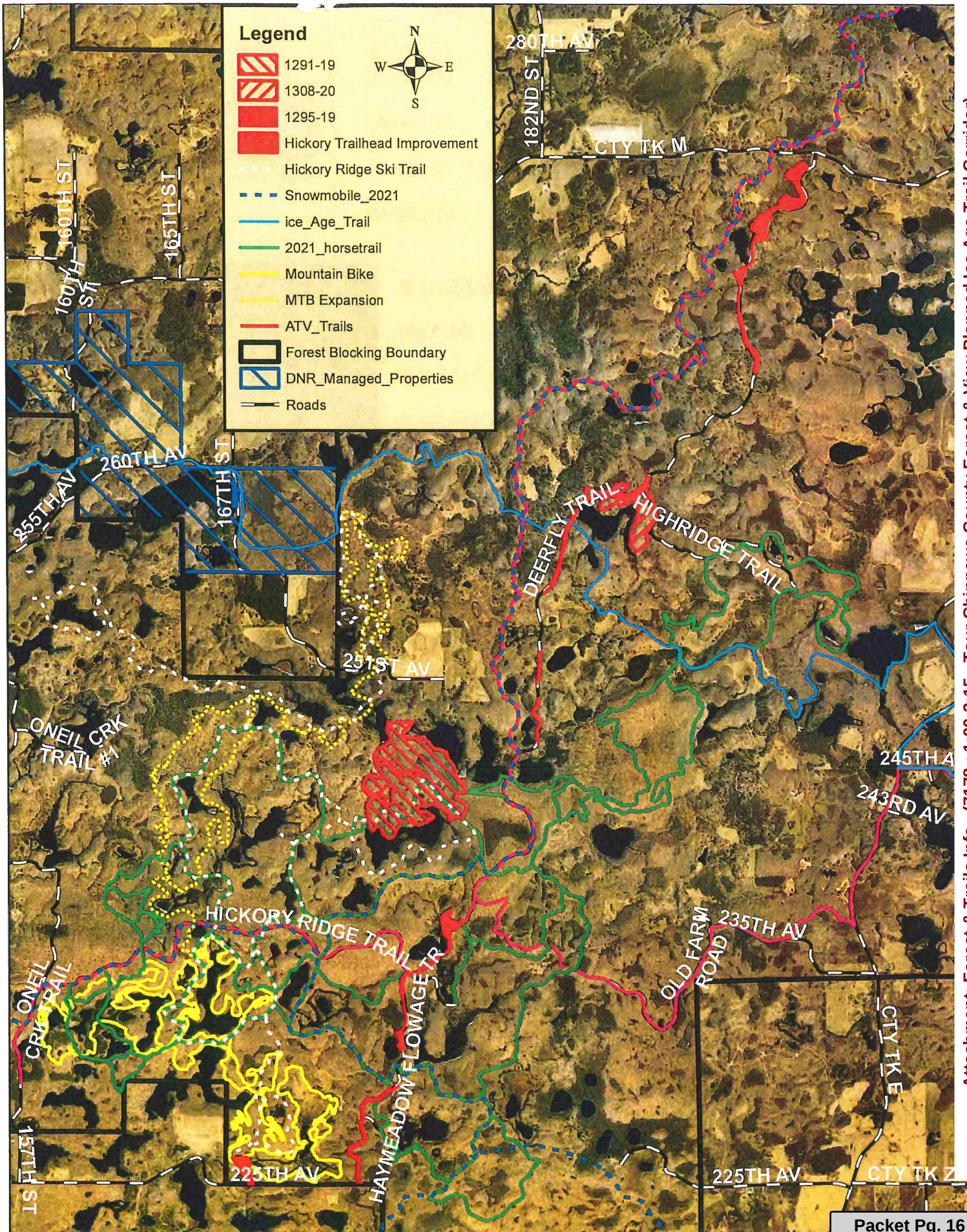
STATEMENT OF EXPLANATION

4.4

1:00-3:15 - TOUR CHIPPEWA COUNTY FOREST & VIEW PLANNED ICE AGE TRAIL CORRIDOR

The Committee will tour the Chippewa County Forest and view an active timber sale site, the Hickory Ridge Trailhead, and the proposed Ice Age Trail Corridor through Chippewa County.

Deer Fly and Silent Sports Trails



Attachment: Forest & Trails Info. (7178 : 1:00-3:15 - Tour Chippewa County Forest & View Planned Ice Age Trail Corridor)

1295-19 Deer Fly ROW 23 Ac Select Cut & 16 Ac Clearcut

Species	Volume	\$/Unit	Est. Value
Aspen	950 tons	\$17.50/ton	\$16,625.00
Mixed HW	600 tons	\$10.50/ton	\$6,300.00
Red Oak	27 MBF	\$200.00/MBF	\$5,400.00
Total			\$28,325.00

Actual Cut Volumes for 1295

Aspen 925 tons = \$16,189.46

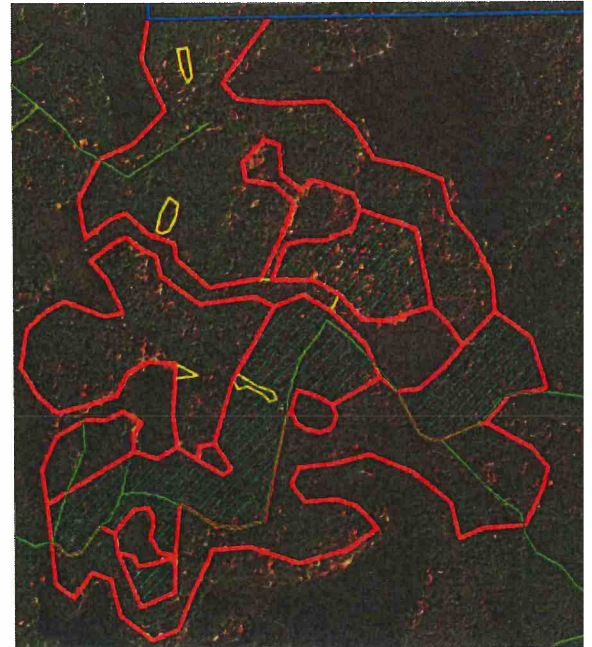
Mx Hw 635 tons = \$6,665.60

Red Oak 26.86 MBF = \$5,372.00

Total Value = \$28,227.06

1291-19 Tram Lake Oak 61 Ac Shelterwood & 24 Ac Clearcut

Species/Product	Volume	\$/Unit	Est. Value
Aspen	2200 tons	\$22.00/ton	\$48,400.00
Mixed HW	1750 tons	\$17.00/ton	\$29,750.00
Oak	1200 tons	\$15.00/ton	\$18,000.00
Red Oak Logs	77 MBF	\$375/MBF	\$28,875.00
Mixed HW Logs	28 MBF	\$300/MBF	\$8,400.00
Total			\$133,425.00



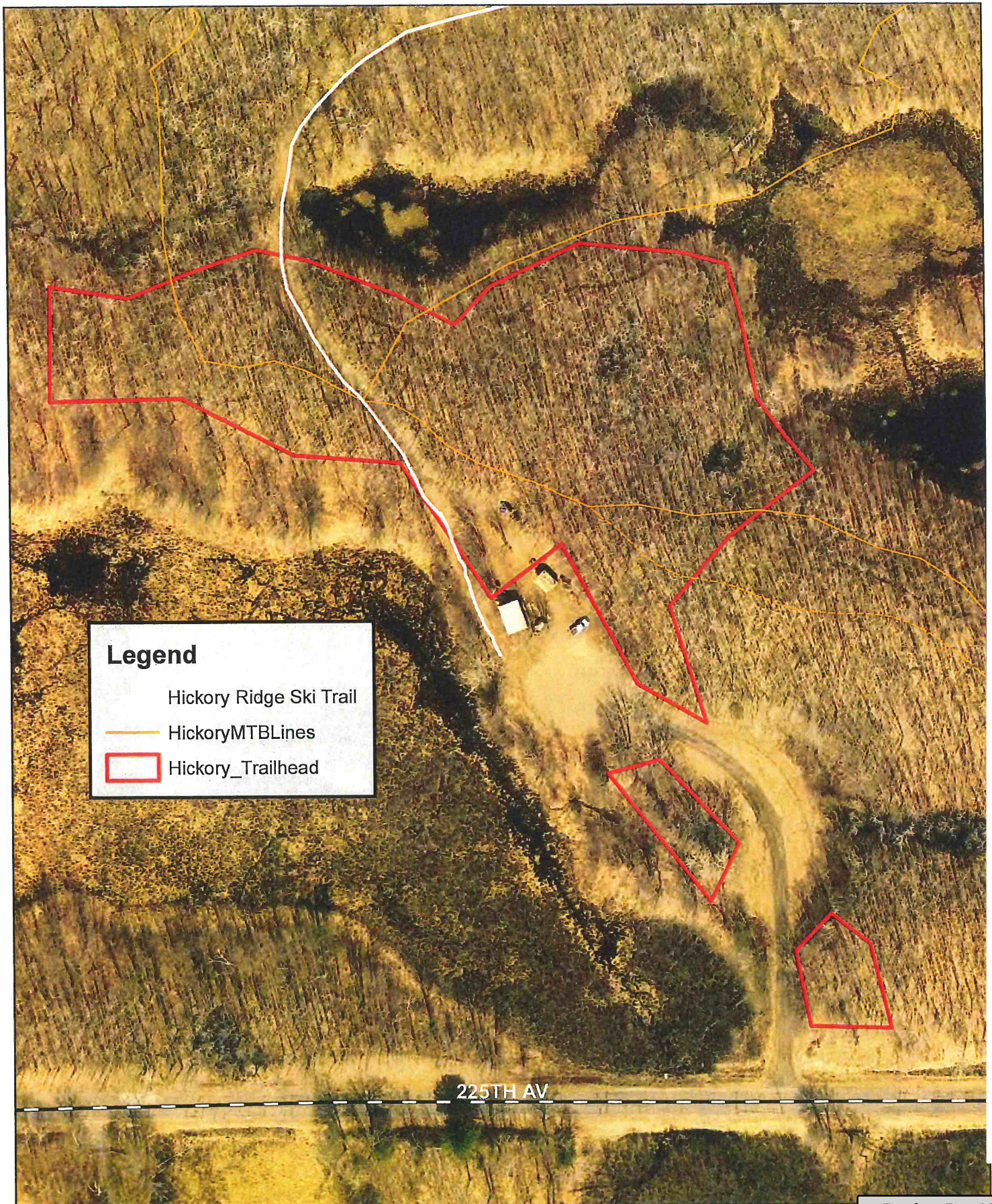
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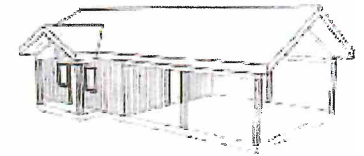
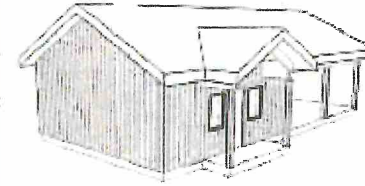
1308-20 Vista Aspen 19 Ac Clearcut

Species	Volume	\$/Unit	Est. Value
Aspen	1155 tons	\$29.76/ton	\$34,372.80
Mixed HW	152 tons	\$13.00/ton	\$1,976.00
Total			\$36,348.80

Tract 10-22 Hickory Ridge Trailhead Expansion

+/- 3 acres





Indicate - (C) Contract, (F) Force Acct., (D) Donated				
DEVELOPMENT PROJECT ITEMS List by individual item or break down by Use Areas (See Item List On Back Of This Form)				
	Quantity	Unit of Measure	Component Costs	Estimated Total Item Cost
(F) Skills Area - Volunteer Labor	160	hour	\$7.25	\$1,160
(C) Parking Lot - Dozer grading and Gravel Base	1		\$48,175.00	\$48,175
(C) Underground Electric - Trenching & Conduit	2,474	feet	\$3.89	\$9,623
(C) Underground Electric - Drilling Z Pipe	590	feet	\$14.00	\$8,260
(C) Underground Electric - New service fee	1		\$550.00	\$550
(C) Warming Shelter - General Construction Materials	1		\$62,169.55	\$62,169
(C) Warming Shelter - General Construction Labor	1		\$39,701.00	\$39,701
(C) Warming Shelter - HVAC boiler & in floor heat	1		\$15,000.00	\$15,000
(C) Warming Shelter - 24'X48' Concrete slab	1		\$10,740.00	\$10,740
(C) Warming Shelter & Storage shed- Electrical installation	1		\$49,500.00	\$49,500
(C) Storage Shed - General Construction Materials & Labor	1		\$199,573.00	\$199,573
(C) Storage Shed - HVAC boiler, tank & in-floor heat	1		\$19,285.00	\$19,285
(C) Storage Shed - Holding tank & trench drain	1		\$22,735.00	\$22,735
(C) Storage Shed - 30'x50' Concrete slab w/drain	1		\$11,700.00	\$11,700
(C) Trail Locator Signs	15	sign	\$40.00	\$600

Application Total \$498,772.41

Hickory Ridge Trailhead - Option 2

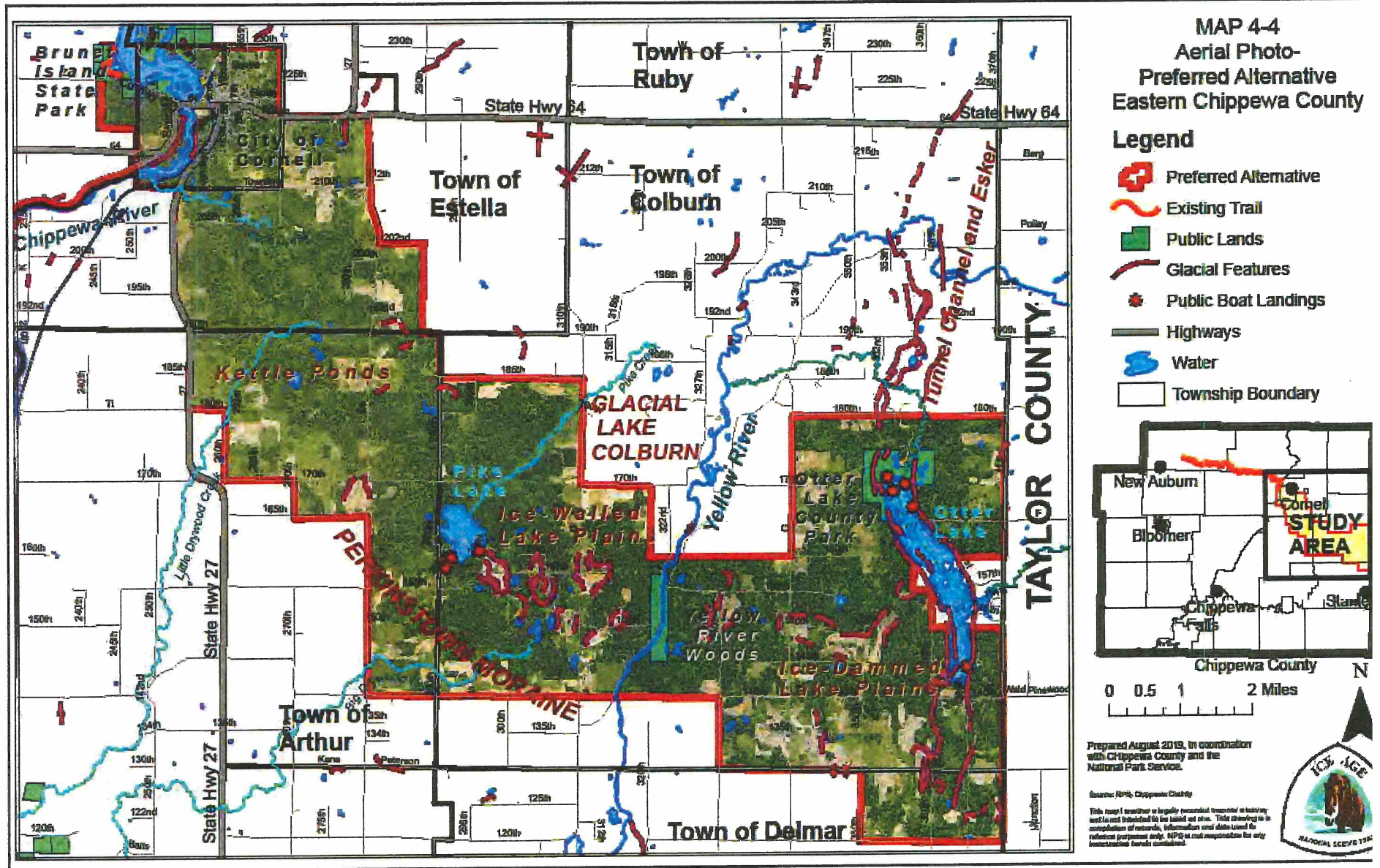
LF Driveway: 730 LF
Parking Stalls: 93



0 20 40



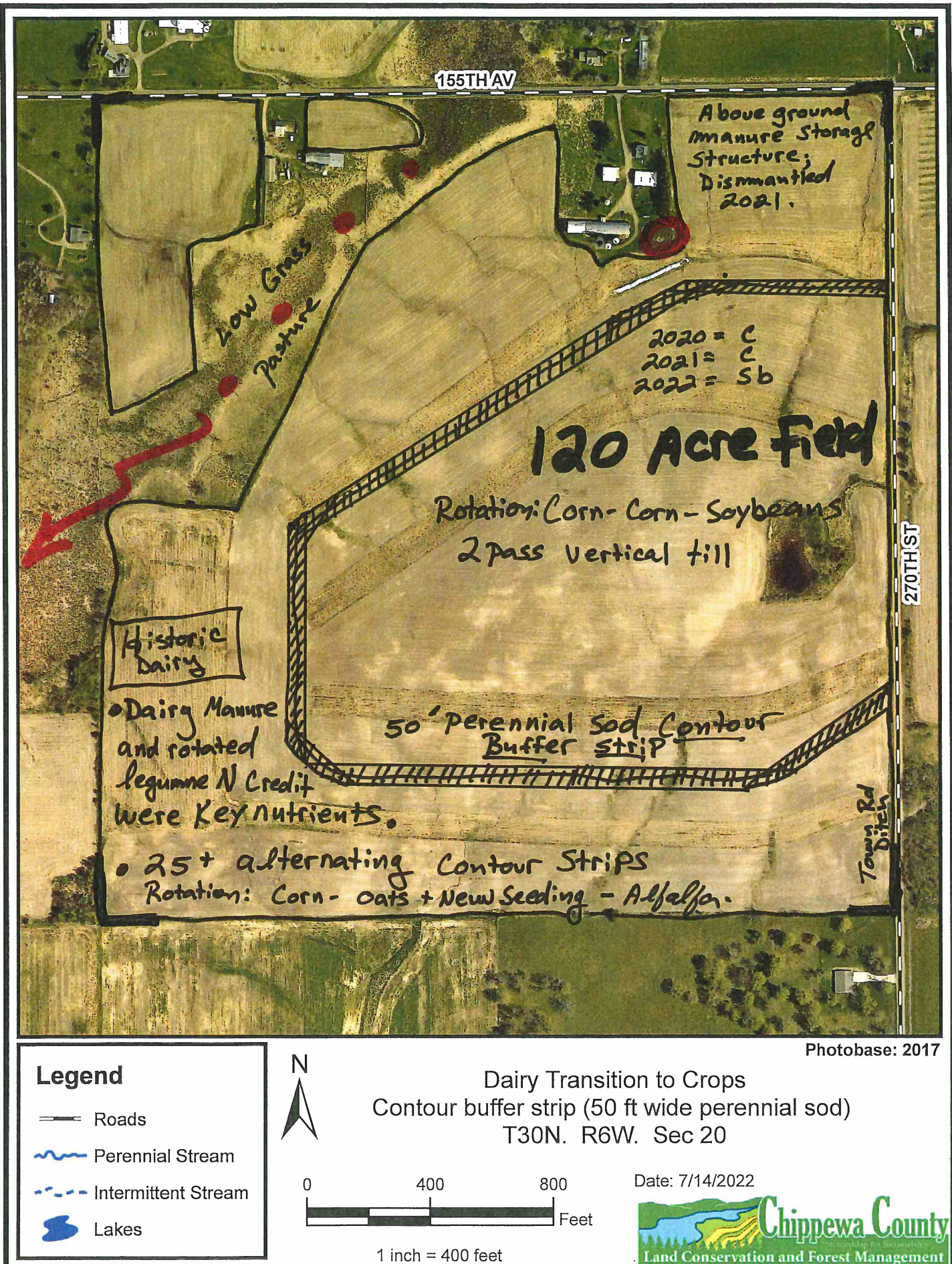
Feet





STATEMENT OF EXPLANATION
3:15-4:30 - VIEW AGRICULTURAL PRACTICES & RETURN TO
COURTHOUSE

The Committee will view various agricultural practices in the eastern part of Chippewa County and return to the Courthouse by 4:30 p.m.



Attachment: Contour Info. (7179 : 3:15-4:30 - View Agricultural Practices & Return to Courthouse)

Best Management Practices to Improve Surface Water Quality, Groundwater Quality, Groundwater Recharge, and Soil Quality



Feb 2022

Practice *	Description	Environmental Benefit **
Contour Farming & Field Layout	Cropland field directional travel and formal layout across landscape slope; can include contour buffer strips to shorten slope length as needed. WI NRCS 330, 332.	Slows surface water runoff moving across cropland; enhances water infiltration; reduces ephemeral gully formation; minimizes soil sediment loss.
Cover Crops	Practice of planting a ground covering crop immediately after primary crop is harvested; provides soil cover for erosion protection & living roots to utilize and cycle left over nutrients. WI NRCS 340.	Ground cover provides soil erosion protection, cycles left over nutrients from primary crop, captures carbon into soil, enhance soil health, increase plant species and root zone biodiversity.
Vegetative Filter Strip & Field Border	35+ ft wide vegetative grass strip at bottom border of cropland or top filter edge of riparian. WI NRCS 368, 393.	Receives and slows surface water runoff, provides for settling of soil sediment and utilization of crop nutrients that have left cropland edge; can be placed in uplands; can also be riparian at surface water or wetland edge.
Wetland Restoration	Interrupting sub-surface and surface drains and / or enhancing depressional scrapes to revive wetland ecological and water quality function; often involves converting drained cropland back to wetland. WI NRCS 644, 657, 658, 659.	Receives and slows surface water runoff, provides for settling of soil sediment and utilization of crop nutrients that have left cropland edge; reestablishes high water table, increases surface water storage & flood prevention, increases biodiversity & biohabitat.
High Residue Cropping System	Field preparation and crop establishment while maintaining > 50% surface residue after planting pass; limited soil disturbance, minimum tillage and no-tillage. WI NRCS 329, 345.	Minimize soil sediment loss, increases soil surface and root zone stability & quality; increase water infiltration and root zone water storage.
Nutrient Management Planning and Implementation	Field specific method to determine and apply crop nutrients (fertilizer, manure, etc) for productivity and water quality (surface and groundwater). This is a WI NR 151 Performance Standard. WI NRCS 590.	Proper nutrient type, rate, timing, placement, and technology to grow productive crops and limit phosphorus entry into surface water and nitrogen entry into groundwater
Grassed Waterway	Vegetative grass maintained in concentrated flow paths within cropland fields; conveys water to a stable outlet at a non-erosive velocity. WI NRCS 412.	Conveys surface water runoff to a stable outlet at a non-erosive velocity. Protects against ephemeral gully soil erosion. Provides for settling of soil sediment and utilization of crop nutrients that have left surrounding cropland.

* Practice cost share may be available.

** All of these BMPs help limit phosphorus delivery to streams and lakes; and also help limit nitrate N delivery to groundwater.

<https://www.co.chippewa.wi.us/government/land-conservation-forest-management>
(715) 726-7920

Chippewa County Land Conservation and Forest Management Dept

