

APPLICATION FOR INTERIM USE PERMIT

CITY OF VERGAS
111 Main Street
Vergas, Minnesota 56587
218-342-2091

APPLICATION FOR INTERIM USE PERMIT

Application is hereby made for an Interim Use Permit for (description of Interim Use Permit)_____

Continued use of the existing gravel pit for extraction, stock piling and portable hot mix plant

Address of Property: 560 Pelican Ave S, Vergas, MN 56587

Owner: Mark Sand & Gravel Co.

Address: 525 Kennedy Park Rd, Fergus Falls, MN 56537

Phone: 218-736-7523

Applicant: Mark Sand & Gravel Co.

Address: 525 Kennedy Park Rd, Fergus Falls, MN 56537

Phone: 218-736-7523

The following information is submitted in support of this application.

- ☒ 1) Completed application for Interim Use Permit.
- ☒ 2) Cash fee \$400.00
- ☒ 3) Legal description of the property. See affirmation of sufficient interest form.
- ☒ 4) Acknowledgement of Responsibility form completed. See attachment
- ☒ 5) Affirmation of Sufficient Interest form completed. See attachment
- ☒ 6) A narrative explaining the purpose of the request, the exact nature of the Interim use, and the justification for the request. See attachment
- ☒ 7) Copies of all MPCA permits. See attachments
- ☒ 8) Other See attachments as required by the Sand & Gravel ordinance

APPLICATION FOR INTERIM USE PERMIT

AFFIRMATION OF SUFFICIENT INTEREST

I hereby affirm that I **am the fee title owner** of the below described property or that I have written authorization from the owner to pursue the described action.

Name of Applicant: Mark Sand & Gravel Co.

Phone: 218-736-7523

Street address/legal description of subject project: _____

560 Pelican Ave S, Vergas, MN 56587

N1/2 SE1/4 EX 5 AC TR IN NE COR & NELY 1/2 SE1/4 SW1/4 & NE1/4 SW1/4


Signature

04/14/2025
Date

If you are not the fee owner, attach another copy of this form which has been completed by the fee owner or a copy of your authorization to pursue this action.

If a corporation is fee title holder, attach copy of the resolution of the Board of Directors authorizing this action.

If a joint venture or partnership is the fee owner, attach a copy of agreement authorizing this action on behalf of the joint venture or partnership.

APPLICATION FOR INTERIM USE PERMIT

ACKNOWLEDGEMENT OF RESPONSIBILITY

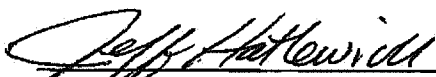
This is to certify that I am making application for the described action by the City and that **I am responsible for complying with all City requirements** with regard to this request. This application should be processed in my name and **I am the party whom the City should contact** regarding any matter pertaining to this application.

I have read and understand the instructions supplies for processing this application. The documents and/or information I have submitted are true and **correct** to the best of my knowledge. I will keep myself informed of the deadlines for submission of material and of the progress of this application.

If this is an application for **underground tank installation**, I understand that I must notify the Fire Marshall immediately in writing upon any change in required resident agent information.

I further understand that additional information, such as a traffic analysis or expert testimony, may be required for analysis of this request, and that upon my authorization the fees for such will be my responsibility.

I agree to allow access by City authorized persons in, on, or to the property for purposes of review of this application and any necessary inspections.


Applicant's Signature

04/14/2025

Date

Name of Applicant: Mark Sand & Gravel Co.

Address: 525 Kennedy Park Rd., Fergus Falls, MN 56537

Phone: 218-736-7523

Name and Address of Additional Contract(s): Jeff Hatlewick, Vice President of Administration

PO Box 458, Fergus Falls, MN 56538

Phone: 218-766-6977

APPLICATION FOR INTERIM USE PERMIT

I fully understand that all of the above required information must be submitted at least **28** days prior to a Planning Commission meeting to ensure review by that date.



Applicant's Signature

04/14/2025

Date

Comments/Revisions. _____

Received by:

City Clerk's Signature

Date

MINUTES OF MEETING OF DIRECTORS

The meeting of the Board of Directors of MARK SAND & GRAVEL CO. was held at the offices of Mark Sand & Gravel Co., Fergus Falls, MN on February 20, 2025, at 11:30 am.

Present were Mark Thorson, the sole director, Justin Rodeman Vice President, Jeffrey Hatlewick, Vice President/Secretary and Brianne Balcer, Vice President.

The director and officers discussed the business of the corporation as it relates to the Bunkowski Pit Conditional Use Permit thereafter, upon motion duly made, seconded and carried, adopted the following resolutions:

RESOLVED, That Mark Thorson as sole director directed the following:

Mark Sand & Gravel Co. continues to have interest in mining and material production for aggregate supply and bituminous asphalt production. The company shall again apply for a conditional use permit as required on an annual basis to continue this production.

There being no further business to come before the meeting, the meeting adjourned.

A handwritten signature in blue ink, reading "Jeff Hatlewick", is written over a horizontal line.

Secretary, Mark Sand & Gravel Co.

Application for Interim Use Permit

Date: April 14, 2025

Application Fee: \$400.00

1. Applicant's Name: Mark Sand & Gravel Co. Phone: 218-736-7523
525 Kennedy Park Road
Fergus Falls, MN 56537 Fax: 218-736-2647
2. Owner of premises on which Mining and Reclamation is to take place:
Mark Sand & Gravel Co. Phone: 218-736-7523
525 Kennedy Park Rd
Fergus Falls, MN 56537 Fax: 218-736-2647
3. Legal description or other description of land:
 - Bunkowski Pit
 - - **N1/2 SE1/4 Ex 5 AC TR in NE corner & NELY1/2 SE1/4 SW1/4 & NE1/4 SW1/4**

Appendix I

Plan of Operation

Purpose

To continue the extraction of non-metallic minerals from this existing non-conforming use mine that was established in the late 1960's during the installation of the sewer system in the City of Vergas. Mark Sand & Gravel Co., under current ownership, has actively leased, mined aggregate materials and operated portable hot mix plants at this location since 1998. The aggregates from this mine are used for various road construction projects throughout the region. This particular mine has an extremely large aggregate deposit with hundreds of thousands of tons of aggregate materials still remaining to be mined. The rate of mining will depend on the local road construction projects offered for bid letting and the number of those projects awarded to Mark Sand & Gravel Co. At the current rate of mining there may be up to 20 years or more of aggregate materials remaining in this deposit.

Plan of Operation

Mining will continue an existing pit face to the north and away from Otter Tail County Highway 35 in the existing pit until resources are exhausted. Approximate depth of material to be mined is 25 to 40 feet. All entrances and exits will occur off of Otter Tail County Highway 35 from the existing approach. All materials will be transported by trucks on Otter Tail County Highway 35, Otter Tail County Highway 4 and/or Otter Tail County Highway 17. Any material that is hauled by Mark Sand & Gravel Co. authorized trucks and is spilled on these roadways will be removed as soon as reasonably possible.

The open portion of this aggregate resource (currently 30 acres) has had the topsoil stripped and piled in berms at the edge of the excavation. This top soil will be spread over the areas that have been completely mined as they are reclaimed. If there is not sufficient top soil to cover the entire mined area to the desired depth it may be feasible to borrow topsoil from the eastern most lowland pasture area or import topsoil during the final reclamation process.

We will move in portable crushing/screening machines with several conveyors to stockpile the materials. These machines will be located in the area necessary to complete the mining of each phase. Stockpiles of aggregate materials will be located in each area of the mine. These stockpiles will be hauled to the end user as needed or used in the reclamation process. Our primary source of power will be a self-contained generator. Water during heavy rainfalls may be pooled in an approximate 1 acre area located at the lowest elevation. We will utilize front-end loaders, track excavators, skid steers, and dozers on this site to mine the land. Dump trucks and semi-trucks will be used to haul the equipment in as well as truck the finished product to the end-users. Dust control will be applied to ensure minimal disturbance for the neighbors near the pit.

Water resources are used for dust control as needed. In the past the water has been acquired through purchasing from the City of Vergas or by an approved Department of Natural Resources water appropriation permit for the pumping of water from nearby lakes. All of the water that is used for the mining operation, including dust control is allowed to pool and absorb into the soil at the lowest elevation of the pit. Dust control at the crusher is mainly attained by spraying water at the point of rock crushing. Dust

control for the gravel roads within the pit area is attained by spraying a mixture of calcium chloride and water onto the roadway. The pit entrance driveway has been paved to reduce the amount of fugitive dust created by vehicles entering and exiting.

The trees on this property are considered a valuable resource. It is our intention to avoid removing any trees if possible and especially those that are located near the property boundaries. Please see included maps for additional information on tree locations. The proposed direction of mining map impacts an extremely limited number of trees.

The on-site buildings will remain intact and are currently used for storage of personal belongings as related to the farming operation of Tom Bunkowski. Terry Bunkowski continues to rent the farmhouse. The hobby farm has great potential value and will remain as it is now and into the future as a rental property. Adjacent properties consist of seasonal storage garages, residential homes, vacant lots and agricultural land.

Mining Plan – Currently there are just under 30 acres that have been mined or have been stripped to prepare for mining or stockpiling. Once the areas are completely mined the sloping and backfilling will begin to a rough grade as the mining continues near that area. It is important that this sloped area be brought to finish grade before spreading the topsoil. The sloped area will need to be leveled again to fix any possible area of erosion before the land is seeded into grassland.

Hot Mix Asphalt Plant – This existing site includes approximately 7 acres of level ground at the pit bottom. Included in this 7-acre area will be at least two stockpiles of aggregate materials. The hot mix plant is portable and temporary. It will be placed only as long is needed to complete the local road construction projects and removed promptly when completed. The existing paved approach will be the entrance and exit to the hot mix asphalt production area. Semi-trucks will be utilized to haul the equipment into the pit area and to truck the finished product to the construction sites.

Reclamation

Reclamation and sloping of the boundaries of the mined area will continue to occur at a ratio of at least four to one as the mining progresses. Sloped areas that have been rough graded after the completion of mining in that area are considered to be partially reclaimed. At the completion of a mining in each area the topsoil will be spread at the depth of the surrounding area or a minimum of 3 inches and it will be seeded with a MNDOT approved natural grass mixture. This mix is a general dry prairie mix for native roadsides, ecological restoration, or conservation program plantings. Our goal will be to leave the land mostly level with gently rolling hills and sloped borders near the mine boundaries. Any on-site water will be minimized into a temporary pond. 250 trees will be maintained and/or replaced as needed along the County Highway 35 property border for privacy and security until future development occurs.

Hot Mix Asphalt Plant – A seven-acre level stockpile area may be utilized throughout the permit period. The Hot Mix Asphalt Plant will be set in the pit bottom as the mining continues to the north. The plant site will follow the mining to the north to allow for future sloping along the south border of the pit.

Appendix II

151.72 PERMIT APPLICATION REQUIREMENTS.

An application for a permit required by this article shall contain the following:

- A. The legal description of the lands from which it is proposed to excavate, remove, process, store or handle minerals. **See affirmation of sufficient interest form.**
- B. The name and address of the applicant and the name and address of the owner of the land. **See application for interim use permit**
- C. Names and addresses of all adjacent landowners within one-half mile radius.
See attached list of property owners.
- D. Copies of any agreements pertaining to the operation including the duration of any lease, if applicable. **Not applicable**
- E. The purpose of the removal. **See attachment Appendix I**
- F. The estimated time required to complete removal. **See attachment Appendix I**
- G. The highways, streets or other public ways within the city upon and along which the material removed shall be transported. **See attachment Appendix I**
- H. The plan of operation, including, but not limited to:
 - 1. Soil processing (any operation other than direct mining and removal),
 - 2. Nature of the processing and equipment, **See attachment Appendix I**
 - 3. The area to be included in the operation, **See attached maps**
 - 4. Depth of topsoil and soil type, **See attached Soils Map and legend**
 - 5. The depth and grade of excavation, **See attachment Appendix I**
 - 6. The estimated quantity of material to be added to or removed from the premises, **See attachment Appendix I**
 - 7. Location of the plant, **all plants are portable, See attached map**
 - 8. Location of stock piles, **See attached maps**
 - 9. Source of water, disposal of water and reuse of water. In the event that water is used in the operation of a pit, approval from the state department of natural resources and other appropriate state or federal agencies shall be obtained as to the type, location and depth of such well and contained with such application. **See attachment Appendix I**
 - 10. The number and location of trees prior to excavation, **See attachment Appendix I and several maps**
 - 11. Adjacent and on-site buildings and land uses **See attachment Appendix I**

12. Map or plat of the proposed pit or excavation showing the confines or limits thereof, together with the proposed finished elevations based on sea level readings. See attached maps
13. Elevations and percent slope within 100 feet beyond the perimeter of the excavation and other such information necessary to analyze the site shall be provided by the applicant. United States Geological Survey datum shall be used for all topographic mapping where feasible. See attached maps
- I. The operation plan must also identify actions to be taken during operation to mitigate adverse environmental impacts, particularly erosion and rising dust out of any sand or gravel pit. **See attachment Appendix I**
- J. A reclamation plan including, but not limited to:
 1. Final grade of the property; **See attachment Appendix I**
 2. Depth of topsoil reclaimed; **See attachment Appendix I**
 3. Type of vegetation replanted; **See attachment Appendix I**
 4. Number of trees to be replanted, replacing the trees removed during excavation. **See attachment Appendix I and attached maps**

151.73 Bond

A. A cost bond of \$10,000.00 as determined by the city council will be placed in escrow once this permit application is approved.

B. A performance bond of \$100,000.00 will be provided for upon approval of this permit. This property is owned by Mark Sand & Gravel Co. and will be maintained at a high level during the future of this operation. We want this property to maintain the high value that it has for future sales and development once the area has been completely mined.

151.74 Agreement to hold city harmless

Mark Sand & Gravel Co. will provide the city with a certificate of current insurance upon approval of this permit which will name the city as an additional insured. We will hold the city harmless as required.

151.75.002 Inspection and Review Permit Fee

Upon approval of this permit application Mark Sand & Gravel Co. agrees to provide the City of Vergas with the established inspection and review permit fee. This fee is to be held in an escrow account and used strictly for the engineering fees that are required due to the ordinance.

151.76 Inspections

Mark Sand & Gravel Co. wishes to be notified of each inspection by the city engineer so that we may accompany him on site during the inspection.

151.77.03 Screening

Mark Sand & Gravel Co. will continue to maintain and or upgrade the trees as necessary during the 2025 season.

Property Overview

Legal

Taxpayer

Alternate Addresses

Property Values

Credits and Exclusions

Multi Parcel Groups

Property Divisions

Property Transfer History

Maps

Land Information

Additional Structures

Property Tax Information

Pay Taxes Online

Property Tax Payments

Property Taxes Due

Special Assessments

Drainage Assessments

PARID: 82000500022000
MARK SAND & GRAVEL COMPANY

ROLL: REAL PROPERTY
560 PELICAN AVE S

Record Navigator

1 of 1

Asmt Year 2025 ▼

Actions

Printable Summary

Printable Version

Reports

Tax Statement

Go

Parcel

Assessment Year: 2025
Pay Year: 2026
Property Address: 560 PELICAN AVE S
City: VERGAS
State: MN
Zip: 56587
Market NBHD: 0000 - NA
Class: 111 - 2B/1B RURAL VACANT LAND
Land Use Code:
Deeded Acres 132.34
Plat: -
Lot
Block
Section-Twp-Range 25-137-041
Tax District: 8201 - VERGAS/SD023/COHRA
Town/City 012300 - VERGAS CITY
School District: 020023 - FRAZEE/VERGAS ISD 23 (BECKER)
TIF Project # -

Parcel Status

In Forfeiture: No
COJ: No
In Bankruptcy
Mortgage Company
ACH No
Delinquent No
Homestead N ? Non-Homestead
Relative Homestead N

Legal

SECT-25 TWP-137 RANGE-041 132.34 AC N1/2 SE1/4 EX 5 AC TR IN NE COR & NELY 1/2
SE1/4 SW1/4 & NE1/4 SW1/4 EX TRS



Government Services Center
500 W Fir Ave
Fergus Falls, Minnesota 56537

Contact/Directory

Facebook

Minnesota Pollution Control Agency

520 Lafayette Road North | St. Paul, MN 55155-4194 | 651-296-6300 | 800-657-3864 | 651-282-5332 TTY | www.pca.state.mn.us

June 9, 2009

Mr. Jeff Hatlewick
Director of Safety and Compliance
525 Kennedy Park Road
Fergus Falls, MN 56537

RE: Air Emission Permit No. 11100082-001 and Voiding Air Emission Registration Permit
Nos. 99000305-001, 99000234-002, 99000264-001, 99000263-001, and 99000306-001

Dear Mr. Hatlewick:

The enclosed permit, Air Emission Permit No. 11100082-001, authorizes operation of your nonmetallic mineral processing facilities.

Please read through the permit and review its conditions and requirements. Distribute the permit to staff members responsible for ensuring compliance with the conditions and limitations in the permit.

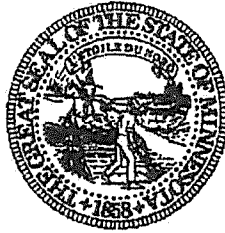
Minn. R. 7007.1110, subp. 2b requires facilities that hold a registration permit and are eligible for a nonmetallic mineral processing general permit to apply for the general permit. This letter also serves as your notice that the MPCA has voided, effective the date of this letter, the following Air Emission Permits in accordance with Minn. R. 7007.1110, subp. 17 (see below):

<u>Permit No.</u>	<u>Name of Facility</u>	<u>Date Permit Issued</u>
99000305-001	Mark Sand & Gravel Acquisition – Plant 2	April 25, 2002
99000234-002	Mark Sand & Gravel Acquisition – Plant 3	January 17, 2003
99000264-001	Mark Sand & Gravel Acquisition – Plant 4	August 8, 1997
99000263-001	Mark Sand & Gravel Acquisition – Plant 5	August 8, 1997
99000306-001	Mark Sand & Gravel Acquisition – Plant 6	April 25, 2002

Minn. R. 7007.1110

Subp. 17. Voiding an existing permit. The commissioner shall void a part 70, capped, or state permit for a stationary source which is issued a registration permit. A stationary source which is covered under the terms of a general permit is no longer covered by the general permit when it is issued a registration permit. The commissioner shall void a registration permit issued under one registration permit option for a stationary source that is issued a registration permit for a different registration permit option. The commissioner shall void a registration permit for a stationary source that is issued a part 70, state, capped, or general permit.

The reason to void the registration permits is the issuance of Air Emission Permit No. 11100082-001.



AIR EMISSION PERMIT NO. 99000150 - 002
'OPTION D' REGISTRATION PERMIT
FOR A
HOT MIX ASPHALT FACILITY

According to Minnesota Statutes Chapter 115 and 116, Minnesota Rules Chapters 7001 and 7007, and 40 CFR part 52, subp. Y:

Mark Sand & Gravel Acquisition Co
PO Box 458
Fergus Falls, MN 565380458

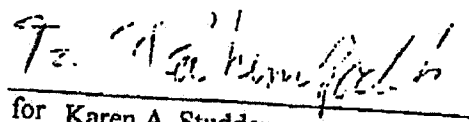
(hereinafter Permittee) is issued an Air Emission Registration Permit by the Minnesota Pollution Control Agency for its Mark Sand & Gravel Acquisition - Plant 9 facility located at various locations throughout the state of Minnesota.

The permit authorizes modification, construction, reconstruction, and operation of the stationary source under the conditions set forth below.

Issue Date: 09/26/2002

Expiration: Pursuant to Minn. Rules pt. 7007.1050, subp. 3a, the permit shall be considered not to expire until a new permit is issued.

Compliance Requirements: The Permittee shall comply with Minn. Rules pts. 7007.1110 (Registration Permit General Requirements) and 7007.1130 (Option D Requirements) and all applicable requirements.



for Karen A. Studders
Commissioner
Minnesota Pollution Control Agency



National Pollutant Discharge Elimination System/State Disposal System

MNG490000

Permittee: Multiple
Facility name: Nonmetallic Mining/Associated Activities General Permit
Issuance date: June 10, 2022
Expiration date: May 31, 2027

The Permittee is an owner or operator of facilities within the boundary of the state of Minnesota that:

- a. Discharge stormwater to waters of the state, including groundwater, from the construction sand and gravel, industrial sand, dimension stone, crushed and broken limestone, crushed and broken granite, crushed and broken stone (not elsewhere classified) mining and quarrying areas, asphalt production areas, (including portable asphalt plants), concrete block and brick, concrete products (other than block and brick), and ready-mix concrete, as well as aggregate dredging operations and uncontaminated asphalt and concrete rubble recycling at sites already listed.
- b. Discharge mine site dewatering to waters of the state, including groundwater, from construction sand and gravel, industrial sand, dimension stone, crushed and broken limestone, crushed and broken granite, and crushed and broken stone (not elsewhere classified) mining and quarrying areas.
- c. Non-stormwater discharges that meet the requirements of this permit and occur at the above-mentioned facilities.

The state of Minnesota, on behalf of its citizens through the Minnesota Pollution Control Agency (MPCA), authorizes the Permittee to construct, install and operate a disposal system at the facilities named above and to discharge to a receiving water of the state of Minnesota in accordance with the requirements of this permit.

The goal of this permit is to reduce pollutant levels in point source discharges and protect water quality in accordance with the U.S. Clean Water Act, Minnesota statutes and rules, and federal laws and regulations.

This permit is effective on the issuance date identified above. This permit expires at midnight on the expiration date identified above.

Signature: *Elise M. Doucette*

This document has been electronically signed.

Elise M. Doucette, Supervisor
Water Section
Industrial Division

for the Minnesota Pollution Control Agency

Submit eDMRs

Submit via the MPCA e-Services at
https://rsp.pca.state.mn.us/TEMPO_RSP/Orchestrate.do?initiate=true

Submit WQ reports to:

Electronically: wq.submittals.mPCA@state.mn.us

Include *Water quality submittals form*:

<https://www.pca.state.mn.us/sites/default/files/wq-wwprm7-71.docx>

Questions on this permit?

For eDMR and other permit reporting issues, use the directory listed at the bottom of the DMR page:

<https://www.pca.state.mn.us/water/discharge-monitoring-reports>

For specific permit requirements, contact your compliance staff:

<https://www.pca.state.mn.us/water/wastewater-compliance->

LICENSE AND PERMIT BOND

KNOW ALL MEN BY THESE PRESENTS:

THAT WE, Mark Sand & Gravel Co., PO Box 458, Fergus Falls, MN 56538 as Principal, and Liberty Mutual Insurance Company, a Massachusetts Corporation, as Surety, are held and firmly bound unto City of Vergas, PO Box 32, 111 Main St., Vergas, MN 56587 in the sum of One Hundred Thousand and 00/100 DOLLARS (\$100,000.00) for the payment of which sum, well and truly to be made, we bind ourselves, our personal representatives, successors and assigns, jointly and severally, firmly by these presents.

THE CONDITION of this bond is such that the Principal has applied for an Interim Use Permit for Reclamation of Aggregate Mining at 560 Pelican Ave S, Vergas, MN 56587, Vergas, Minnesota; Plat or Addition 82000500022000 in accordance with the requirements of ordinances of said Obligee, and has agreed to hold said Obligee harmless from suffering and loss or damage occasioned by said Principal's failing to comply with any provisions of any ordinances applicable to the work performed by said Principal.

NOW, THEREFORE, if the Principal shall, during the period commencing on the aforesaid date, faithfully perform all the duties according to the requirement of the Ordinances regulating said license, and protect said Obligee from and damage as hereinbefore stated, then this obligation shall become void and of no effect, otherwise to be and remain in full force and virtue.

This bond may be terminated as to future acts of the Principal upon thirty (30) days written notice by the Surety. Otherwise, this bond expires at midnight May 19, 2025. All claims must be made before the expiration date.

Dated this 19th day of March, 2024.

Mark Sand & Gravel Co.

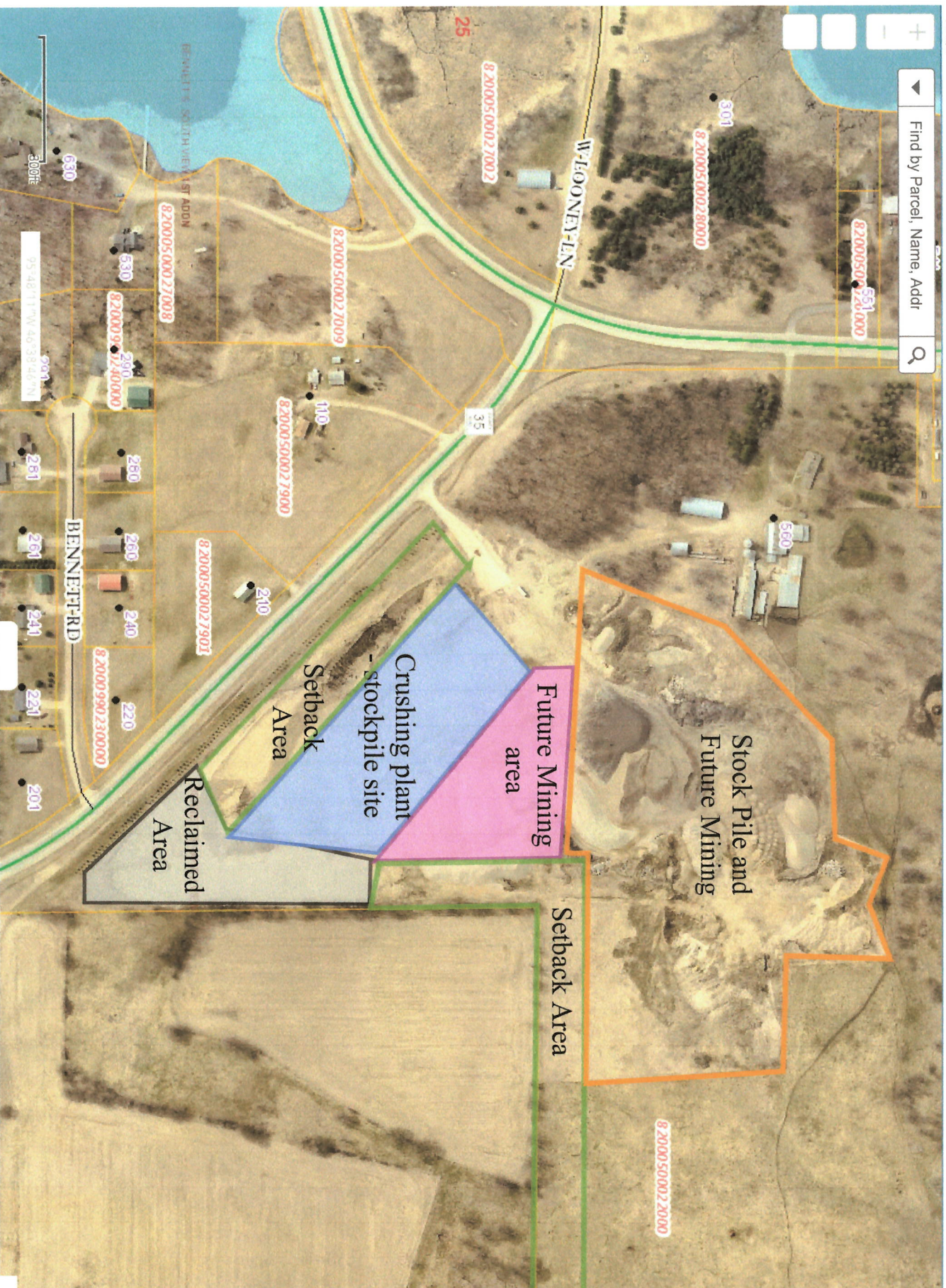
Principal

Liberty Mutual Insurance Company

Surety

Joshua R. Loftis, Attorney-in-Fact

Bunkowski Pit 2025 Mining Plan



Bunkowski Wetlands map 2025



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Soil Map—Otter Tail County, Minnesota
(Bunkowski Pit Vergas MN)



Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey

2/19/2021
Page 1 of 3

MAP LEGEND

	Area of Interest (AOI)		Area of Interest (AOI)
	Soil Map Unit Polygons		Soil Map Unit Polygons
	Soil Map Unit Lines		Soil Map Unit Lines
	Soil Map Unit Points		Soil Map Unit Points
	Special Point Features		Special Point Features
	Blowout		Blowout
	Borrow Pit		Borrow Pit
	Clay Spot		Clay Spot
	Closed Depression		Closed Depression
	Gravel Pit		Gravel Pit
	Gravelly Spot		Gravelly Spot
	Landfill		Landfill
	Lava Flow		Lava Flow
	Marsh or swamp		Marsh or swamp
	Mine or Quarry		Mine or Quarry
	Miscellaneous Water		Miscellaneous Water
	Perennial Water		Perennial Water
	Rock Outcrop		Rock Outcrop
	Saline Spot		Saline Spot
	Sandy Spot		Sandy Spot
	Severely Eroded Spot		Severely Eroded Spot
	Sinkhole		Sinkhole
	Slide or Slip		Slide or Slip
	Sodic Spot		Sodic Spot
	Background		Background
	Aerial Photography		Aerial Photography
	Streams and Canals		Streams and Canals
	Transportation		Transportation
	Railroads		Railroads
	Interstate Highways		Interstate Highways
	US Routes		US Routes
	Major Roads		Major Roads
	Local Roads		Local Roads

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

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: Otter Tail County, Minnesota
Survey Area Data: Version 16, Jun 10, 2020

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

Date(s) aerial images were photographed: Jul 26, 2014—Oct 23, 2016

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
441B	Almora loam, 2 to 6 percent slopes	4.9	13.8%
1196B	Lida-Two Inlets complex, 1 to 8 percent slopes	26.8	76.2%
1196C	Lida-Two Inlets complex, 8 to 15 percent slopes	3.5	10.0%
Totals for Area of Interest		35.2	100.0%

Bunkowski Topographical Map 2025



Otter Tail County

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