Dane County Conditional Use Permit Application

Application Date	C.U.P Number
03/16/2022	DCPCUP-2022-02563
Public Hearing Date	
05/24/2022	

OWNER INFORMATION		AGENT INFORMATION	
OWNER NAME KEVIN HAHN	Phone with Area Code (608) 333-5607	AGENT NAME COURTER RESOURCE GROUP LLC	Phone with Area Code (715) 450-3669
BILLING ADDRESS (Number, Street) 3898 OLD STONE RD		ADDRESS (Number, Street) 17054 HWY 178	
(City, State, Zip) OREGON, WI 53575		(City, State, Zip) Jim Falls, WI 54748	
E-MAIL ADDRESS nelsonexcavatingandson@gmail.com		E-MAIL ADDRESS susan@courterresource.com	

ADDRESS/LOCATION 1		ADDRESS/LOCATION 2		ADDRESS/LOCATION 3	
ADDRESS OR LOCATION OF CUP		**ADDRESS OR LOCATION OF CUP**		**ADDRESS OR LOCATION OF CUP**	
1000 feet south of 439 Center Road					
TOWNSHIP RUTLAND	SECTION 28	TOWNSHIP	SECTION	TOWNSHIP	SECTION
PARCEL NUMBERS INVOLVED		**PARCEL NUMBERS INVOLVED**		**PARCEL NUMBERS INVOLVED**	
0510-284-8001-0		---		---	

CUP DESCRIPTION

Non-metallic mineral extraction operation

DANE COUNTY CODE OF ORDINANCE SECTION	ACRES
10.222(3) and 10.103(15)	22.96

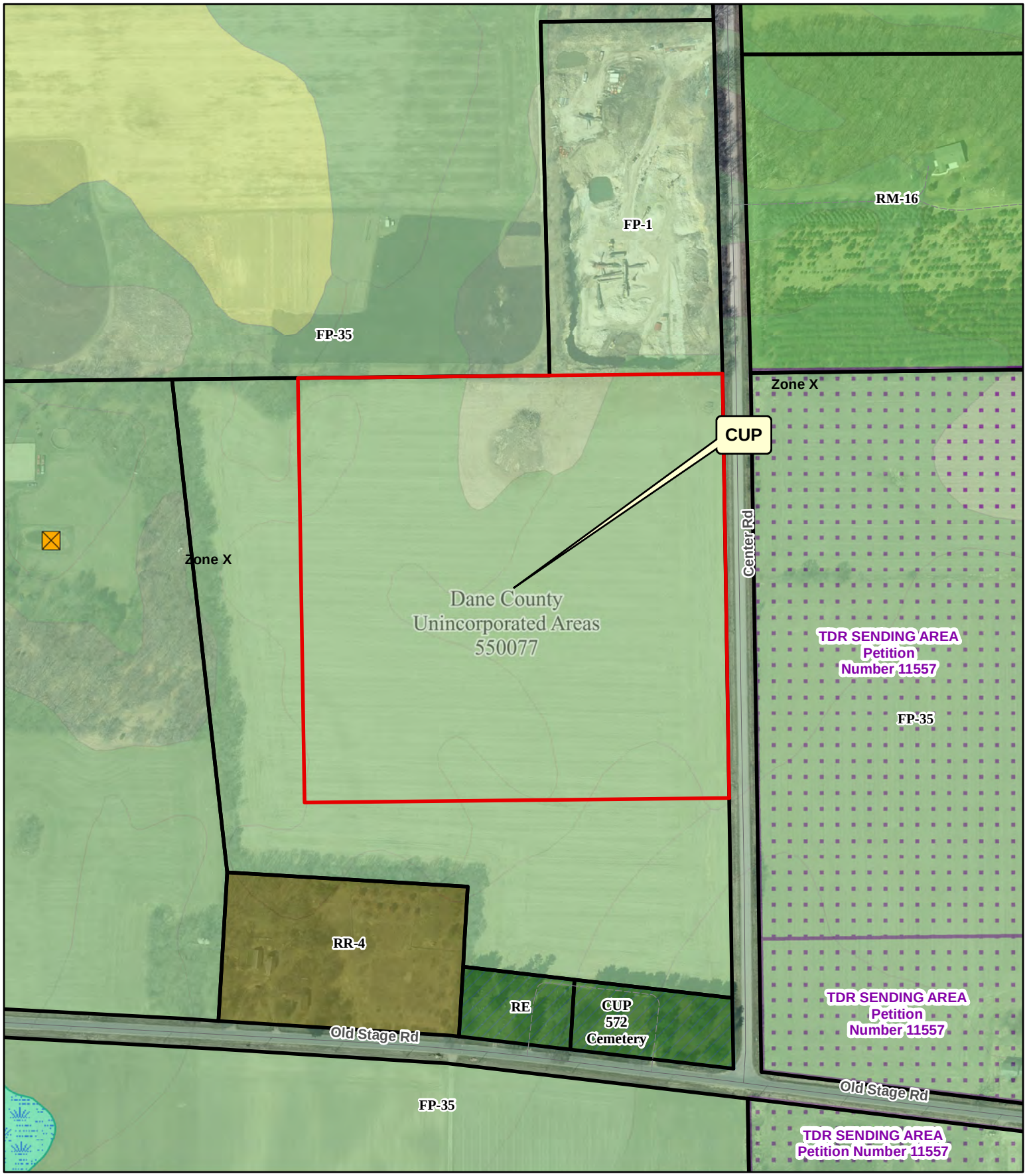
DEED RESTRICTION REQUIRED?	Inspectors Initials
☐ Yes ☐ No Applicant Initials_____	RWL1

SIGNATURE:(Owner or Agent)

PRINT NAME:

DATE:

Form Version 01.00.03



Legend

Wetland

Floodplain

Significant Soils

Class 1

Class 2

N

0 75 150 300 Feet

CUP 02563
KEVIN HAHN

Dane County
Department of Planning and Development
Zoning Division
Room 116, City-County Building
210 Martin Luther King Jr. Blvd.
Madison, Wisconsin 53703
(608) 266-4266

Application Fees	
General:	$495
Mineral Extraction:	$1145
Communication Tower:	$1145 (+$3000 RF eng review fee)
PERMIT FEES DOUBLE FOR VIOLATIONS OR WHEN WORK HAS STARTED PRIOR TO ISSUANCE OF PERMIT	

CONDITIONAL USE PERMIT APPLICATION

APPLICANT INFORMATION

Property Owner Name:	Kevin Hahn	**Agent Name:**	Courter Resource Group LLC
Address (Number & Street):	439 Center Road	**Address (Number & Street):**	Highway 178
Address (City, State, Zip):	Oregon, WI 53575	**Address (City, State, Zip):**	Jim Falls WI 54748
Email Address:	nelsonexcavatingandson@gmail.(	**Email Address:**	Susan@courterresoure.com
Phone#:	608-333-5607	**Phone#:**	715-450-3669

SITE INFORMATION

Township:	Rutland	**Parcel Number(s):**	051028480010
Section:	28	**Property Address or Location:**	West of 430 Center Road
Existing Zoning: FP-35	**Proposed Zoning:** CUP	**CUP Code Section(s):**	

DESCRIPTION OF PROPOSED CONDITIONAL USE

Type of conditional use permit (for example: limited family business, animal boarding, mineral extraction, or any other listed conditional use):

Mineral Extraction

RECEIVED

Is this application being submitted to correct a violation? Yes ☐ No ■

Provide a short but detailed description of the proposed conditional use:

Exsisting quarry expantion

MAR - 3 2022

RECEIVED
ZONING
3-10-22

DANE COUNTY PLANNING & DEVELOPMENT

GENERAL APPLICATION REQUIREMENTS

Applications will not be accepted until the applicant has met with department staff to review the application and determined that all necessary information has been provided. Only complete applications will be accepted. All information from the checklist below must be included. Note that additional application submittal requirements apply for particular uses or as may be required by the Zoning Administrator. Applicants for significant and/or potentially controversial conditional uses are strongly encouraged to meet with staff prior to submittal.

■ Complete attached information sheet for standards	■ Site Plan drawn to scale	■ Detailed operational plan	■ Written legal description of boundaries	■ Detailed written statement of intent	■ Application fee (**non-refundable**), payable to Dane County Treasurer

I certify by my signature that all information presented herein is true and correct to the best of my knowledge. I hereby give permission for staff of the Dane County Department of Planning and Development to enter my property for the purpose of collecting information to be used as part of the review of this application. I acknowledge that submittal of false or incorrect information may be grounds for denial of this application.

Owner/Agent Signature: Kevin W Hahn Date: 29 March 22

Courter
RESOURCE GROUP

March 1, 2022

Dane County Planning and Development
Room 116, City-County Building
210 Martin Luther King Jr. Blvd.
Madison, WI 53703-3342

Town of Rutland
Town Board and Planning Commission
4177 Old Stage Road
Brooklyn, WI 53521

Re: Kevin Hahn Property – Nonmetallic Mining Conditional Use Permit Application

Dear Town of Rutland and Dane County Representatives,

Nelson Excavating and Son, LLC (Nelson Excavating) is a local, family-owned, and operated construction company and aggregate supplier serving communities in south-central Wisconsin for more than ten years. To meet the needs of their customers, Nelson Excavating must continually secure mineral reserves. In 2019, Kevin Hahn, owner of Nelson Excavating, secured reserves on an approximate 36.7-acre parcel south of their existing quarry located on Center Road in the Town of Rutland, Dane County. The property contains glacial sand and gravel, and dolomite, an altered variety of limestone essential for the construction and maintenance of local homes, businesses and infrastructure, as well as water treatment and erosion control.

Attached is an operation and environmental control plan to supplement a Dane County Conditional Use Permit application and request to excavate the mineral reserves on the property; all information applies to the 36.7-acre parcel, not existing operations at the Nelson Quarry.

Thank you for your review time and consideration. If you have any questions, don't hesitate to contact myself or Kevin Hahn at (608) 333-5607.

Warm regards,

Susan Courter, P.G.

Enclosure: Center Road Quarry, Operation and Environmental Control Plan
cc: Nelson Excavating and Son, LLC

NELSON EXCAVATING AND SON, LLC

CENTER ROAD QUARRY

OPERATION AND

ENVIRONMENTAL CONTROL PLAN

PARCEL ID 052/0510-284-8001-0

SECTION 28

TOWN OF RUTLAND, DANE COUNTY

March 1, 2022

SITE AND CONTACT INFORMATION

Site Location:	NE ¼, SE ¼, Section 28, T5N, R10E Town of Rutland, Dane County, Wisconsin
Parcel ID:	052/0510-284-8001-0
Parcel Size:	36.7 Acres
Zoning District:	FP-35 General Preservation Farmland
Operator:	Nelson and Son Excavating, LLC 427 Center Road Oregon, Wisconsin 53575 Phone: (608) 333-5607 Kevin Hahn nelsonexcavatingandson@gmail.com
Property Owner:	Kevin Hahn 427 Center Road Oregon, Wisconsin 53575 Phone: (608) 333-5607 Kevin Hahn nelsonexcavatingandson@gmail.com
Consultant:	Courter Resource Group, LLC 17054 State Highway 178 Jim Falls, Wisconsin 54748 (715) 450-3669 Susan Courter, P.G. susan@courterresource.com

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APPENDICES

Introduction and Purpose

Kevin Hahn seeks to obtain a conditional use permit to extract stone reserves from an approximate 36.7-acre parcel adjacent to their existing quarry operation on Center Road, in the Town of Rutland, Dane County, Wisconsin. The existing quarry is referred to as the Center Road Quarry (formerly the Homburg Quarry). The reserves are needed to supply South Central Wisconsin communities with construction aggregates into the future.

The purpose of this report is to provide information for a conditional use permit (CUP) for nonmetallic mineral extraction on the 36.7-acre property and meet the requirements of Chapters 10 and 11 of the Dane County Code of Ordinances and other applicable local and state requirements.

Background

According to Dane County records, aggregate materials from the Homburg Quarry have serviced the needs of the Town of Rutland and other local communities since 1937. The property with the quarry was purchased by Kevin Hahn in 2016 and continues to operate intermittently to supply local demand. In 2019, Kevin Hahn purchased the 36.7-acre property south of the Homburg (now Nelson) Quarry. Besides dolomite, the newly purchased property proved to have commercial quality sand and gravel. During the 2021 construction season, the sand and gravel was excavated for use in constructing the US Highway14 roundabout, a local infrastructure improvement commissioned by the Wisconsin Department of Transportation (DOT).

Existing Site Conditions

This section contains a review of the site's physical location and includes information on topography, soils, geology, surface and groundwater, and existing biological resources.

Location, Zoning, and Land Use

The 36.7-acre property, Parcel ID 051/0284-800-10, is located in NE ¼, SE ¼, Section 28, Township 5 North, Range 10 East, Town of Rutland, Dane County, Wisconsin (see Figure 1 – USGS Topographic and Site Location, Appendix A).

The parcel is zoned FP-35 (General Farmland Preservation) Zoning District. Nonmetallic mining is permitted in areas zoned FP-35 through the issuance of a conditional use permit (see Figure 2 - Zoning and Parcel Boundaries, Appendix A).

Land surrounding the site is predominantly zoned Farmland Preservation District and utilized for agriculture, with minor amounts of rural residential development (see Figure 3 – 2018 Aerial Imagery, Appendix A). The residential structure closest to the site is located adjacent to and north of the existing quarry on Center Road. The applicant, Kevin Hahn, and his family purchased this home (formerly Kessnick) and have lived on the property since August, 2021. Additional property owners located within 600 feet of the proposed project are identified in Figure 7 – Property Owners Within 600 Feet. A site survey of the property is contained in Appendix B.

Topography

The site is located in an upland area in southeastern Dane County. The topography across the site slopes gently from northeast to the south and southwest between elevations of 990 to 950 feet mean sea level (see Figure 4 – Existing Conditions, Appendix A). Previous extraction at the Nelson Quarry has created high walls at the quarry face ranging from 35 to 50 feet.

Distribution, Thickness, and Type of Soils

The primary soil types at the site are: sandy loam present in the Boyer and Wyocena Series; silt loam present in the Dresden and Kert Series; and fine sandy loam to loamy fine sand in the Shiocton and Whalan Series (see Figure 5 - Soil Types, Appendix A). Found on glacial till plains, these soil types are gently sloping and well-drained. Whalan Series soils are underlain by dolomite bedrock between 12 to 32 inches. The A-horizon of these soils is generally thin, ranging from 0-9 inches.

Geology and Description of the Mineral Resource

The primary mineral resource on the property is Ordovician-Aged, Sinnipee Group dolomite, a form of limestone. Based upon the information contained on local well construction reports, the dolomite deposit varies in thickness from 0-93 feet. The dolomite exposed in the quarry currently ranges in thickness from 35 feet on the north side of the quarry to 50 feet on the

south side of the quarry and is underlain by sandstone (see Local Well Construction Reports, Appendix C).

Dolomite is one of the most versatile construction materials in the state. Its uses span from building and road aggregate to lakeshore erosion control. The material has been tested and meets State of Wisconsin specifications for quality. An abbreviated list of aggregate products is included in Appendix D.

Surface Water and Ground Water

Existing surface water features surrounding the property are shown in Figure 1 – USGS Topographic and Site Location, and Figure 4 – Existing Conditions (Appendix A). Because of the coarseness of the glacial deposits and near-surface fractured bedrock, the upland areas at the site are very well-drained. Surface water that is not captured by infiltration or plant uptake follows topography to the south towards an unnamed tributary to the south, southeast.

Groundwater across the site follows topography, moving from upland recharge areas to lowland discharge areas. According to UW- Extension and Wisconsin Geological and Natural History Survey Open File Report (WOFR)1999-04, *Hydrogeology of Dane County*, and *Water-table Elevation and Unlithified Aquifers in Dane County, Wisconsin* by K. Bradbury, S. Swanson, J. Krohelski, and A. Fritz, 1999, groundwater is encountered at an approximate elevation of 920 feet mean sea level. In general, water supply wells in the area are cased through the upper dolomite formation into water-bearing portions of the underlying sandstone or limestone/dolomite bedrock (see Figure 6 – Depth to Water Table, Appendix A).

Plant and Wildlife

The majority of the site is agricultural, with trees or shrubs located along the fence lines. The fields contain various crops such as corn, soybeans, or alfalfa (see Figure 3 – 2018 Aerial Imagery, Appendix A).

The property and neighboring areas provide support for transient species such as geese, ducks, and sandhill cranes due to the availability of food and nearby locations of water. Year-round wildlife species near the site include hawks, fox, skunk, white-tailed deer, rabbits, raccoons, and field mice.

Proposed Operations

The following plan of operation is developed to efficiently utilize the site's natural and agricultural resources, protect human health and the environment, and minimize long-term operational costs. Operation plan details are specified in Figure 8 – Operation Plan, Appendix A.

Access

The mineral resources at the site will be accessed from Center Road through the existing quarry entrance. The visibility at this location is good in both directions. The current access drive is approximately 50 feet in width. Improvements include 100 feet of recycled asphalt pavement, a stop sign leading up to Center Road, and a locking gate at the entrance posted with a "no trespassing" sign when the site is not in operation. An alternate location will be created on the south side of the property according to the driveway permit for the site. Transition areas between the access drive and agricultural fields will be seeded to prevent erosion and the growth of invasive species such as poison ivy and bull thistle.

Setbacks

All subsurface operations will be set back a minimum of 20' from any property line that does not abut a public right of way to comply with Section 10.103(15)(6)(b) of the Dane County Code of Ordinances. A setback of 30' will be applied from Center Road.

Site Development and Erosion Control

The site will be developed incrementally to minimize disturbed areas and preserve farmland. Mining activities will begin in the existing quarry and progress south as labeled in Figure 8 – Operational Plan, Appendix A. Areas not undergoing extraction will be utilized for agricultural production.

The general sequence of initial site development includes land clearing and stripping, followed by berm construction and seeding. Stripped material, including topsoil and overburden, will be excavated incrementally and separated and stored for future reclamation in berms. Besides providing topsoil and overburden storage, the berms offer an aesthetic, sound, and wind buffer to neighboring properties.

To optimize stabilization and minimize the growth of invasive species, the berm will be seeded. The selected seed cover will be based upon the soil type and temperature at the time of planting. A mulch cover will be spread on the sloped areas to reduce erosion and enhance plant growth. Seeding and mulching will be conducted in alignment with the Wisconsin Department of Transportation (WisDOT) standards #630 (Seeding on Slopes) and #627 (Mulching).

Erosion controls outlined in the Wisconsin Department of Natural Resources (WDNR) "*Construction Site Best Management Practices*" handbook will be utilized as needed to prevent sediment loss during the initial construction phase of the project. Such measures include seeding and mulching, the utilization of straw bales, rip rap with filter fabric, rock check dams, or the construction of settling or containment structures.

The quarry will be utilized for runoff containment support the remainder of the project. Stormwater will be collected in the quarry and discharged, as needed into the drainage swale located adjacent to Center Road according to the site's stormwater pollution prevention plan (SWPPP), before discharging to Badfish Creek. A copy of the SWPPP and Wisconsin Department of Natural Resources general permit for the site (No. WI-A046515-06) is included in Appendix E. A copy of the site's Erosion Control Plan will be submitted upon approval of the sites conditional use permit.

Blasting and Mineral Processing

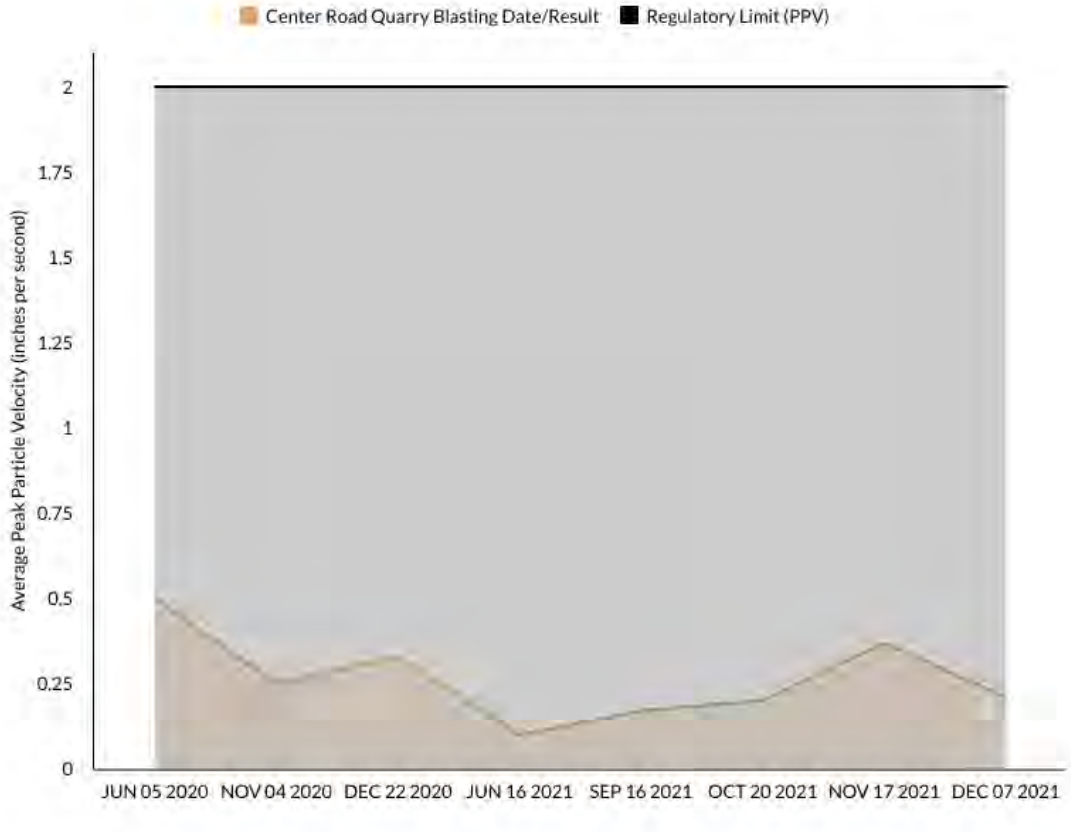
*Q*uarrying operations require the physical reduction of earth materials through the controlled used of explosives and/or blasting agents. The blasting is needed to displace the rock from the quarry face and to produce fragmentation that permits efficient crushing and sizing.

Blasting is regulated by the Wisconsin Department of Safety and Professional Services (SPS). Chapter SPS 307 Explosives and Fireworks of the Wisconsin Administrative Code contains standards for the use of blasting materials and incorporates by reference the National Fire Protection Agency's (NFPA) 495 Explosive Materials Code. Administrative rules are regularly reviewed to keep them consistent with current regional and national public safety and fire prevention practices and standards.

Blasting at the Center Road Quarry does not happen every day. The process involves drilling holes into the dolomite rock and loading the holes with explosive material. The actual duration of each blast is less than one second. The number of blasts each year is proportionate to local demand for stone products. What this means is that some years may have more, others less, based upon the need for stone products in the local community.

For example, blasting at the existing Center Road Quarry occurred on three (3) occasions in 2020, and four (4) occasions in 2021. A summary of blasting performance at the Center Road Quarry compared to safe limits for blasting vibration which is 2.0 peak particle velocity (PPV) according to Wisconsin and U.S. requirements is summarized below. Average PPV is recorded in inches per second based upon results obtained from calibrated seismographs placed at nearby structures including the following residential properties: Kessenick (now Hahn), Peligri, and Hanson (2020), and Hanson (2021). Seismograph readings obtained from the following, non-residential locations are included in the average for several dates: the Town of Rutland Cemetery (December 22, 2020) and the Spelter property (November 4, 2020 and December 22, 2020).

Figure 1 Center Road Quarry Summary of Blasting Results 2020-2021



Blasting is an essential best practice for producing construction aggregate and is currently the most efficient. Blasting is highly regulated. At a minimum each blast at the Center Road Quarry must: (a) meet SPS 307 requirements, (b) be conducted by a trained and licensed blaster, (c) be completed during the hours of 8:00 am and 4:00 pm, Monday – Friday, (c) be recorded by a seismograph/blasting log, and (d) be available for review at any time by residential property owners, township or county upon request.

Dolomite reserves at the site will be extracted to an elevation of 950 feet (MSL) per the site's reclamation plan. A portable crushing plant will be used on an as-needed basis to reduce and size the rock according to its use. Intermittent dewatering will keep the quarry floor dry during this time.

A list of portable equipment that could be utilized in stripping, berm construction, seeding, drilling and blasting, dewatering, and processing is included in Appendix F – Aggregate Processing and Construction Equipment.

Support Structures

Because quarry operations are dynamic, there will be no permanent buildings or structures within the area of extraction. Processing equipment and stockpiles will be positioned to accommodate the working face. A 4' high safety fence will be maintained around the extraction area at all times. A portable scale is positioned near the quarry entrance to weigh material as it leaves the property.

Haul Routes

The primary haul route will be Center Road to County A to US14 and US 138, with loads delivered to customers on town roads. All hauling from the site is based upon day-to-day demand. A typical truck can hold 22 tons of crushed stone. Scheduled loads can range from zero to 50 loads per average day; more or less may be needed for local or specialized projects.

Hours of Operation

The hours of operation at the site will align with other agricultural schedules to take advantage of optimum daylight during the construction season. In general, business hours for commercial sale will be from 7 a.m. to 7 p.m., Monday through Friday, and 7 a.m. to 5 p.m. on Saturdays.

Extended hours may occasionally be needed due to peak hour project restrictions. Material processing will coincide with these hours, but at times, an extended schedule may be utilized to facilitate a project, meet a deadline, or take advantage of fair-weather conditions.

Human Health and Environmental Protections

Several different features have been incorporated into this plan to protect human health and the environment. They are categorized below and outlined in more detail in Appendices E and G. The protections, used in conjunction with the operation plan, are designed to meet *Dane County Standards for Conditional Use Permits* and support the overall goals of the Town of Rutland comprehensive plan:

- preserve productive farmlands in the town for continued agricultural use
- protect farm operations from conflict with incompatible uses
- preserve natural resources and protect the environment
- encourage land uses that are consistent with and contribute to the town's rural character.

For a summary of how the proposed CUP application for nonmetallic mineral extraction meets Dane County Standards refer to Appendix H.

Safety

The safety aspects of nonmetallic mining are regulated by the Mine, Safety, and Health Administration. The primary safety feature is the installation of a 4-foot tall, woven-wire fence along the perimeter of the excavation. Posted notices or signs will additionally be used to increase awareness and improve safety. These include:

1. Notice of the required site-specific safety training for those entering the quarry
2. Signs posting a safe speed limit
3. Signs with 'No Trespassing' and 'Active Quarry' posted along fencing and/or bermed areas.

Aesthetics

Aesthetics at the site are, in large part, controlled by topography and existing vegetation. The surrounding landscape shields the quarry from view on all sides of the excavation. Existing wooded around the perimeter of the site will be preserved throughout the life of the project.

Noise

Various pieces of construction equipment can produce noise. This equipment is similar in sound and intensity to other noises routinely generated by traffic and nearby agricultural equipment during cultivation, planting, fertilizing, or harvesting. The topography and existing wooded areas on the property provide a natural sound barrier to quarry operations. The following noise abatement measures were additionally compiled to address potential noise concerns of surrounding property owners. They include:

1. Using sound control devices on equipment, such as mufflers.
2. Maintaining equipment on a regular basis.
3. Crushing below grade in the quarry.

Dust

Nelson Excavating has a comprehensive approach to emission control on their nonmetallic mining properties. The best management practices they employ to minimize dust are outlined in detail in their Emission Control Plan, contained in Appendix G.

Ground Water and Surface Water Protection

Groundwater and surface water protection are an integrated part of Nelson Excavating's daily operation. A copy of their pollution prevention and spill response plan is included in Appendix E. This plan identifies potential contaminants and provides best management practices for spill prevention.

Post-Mining Land Use and Proposed Reclamation Plan

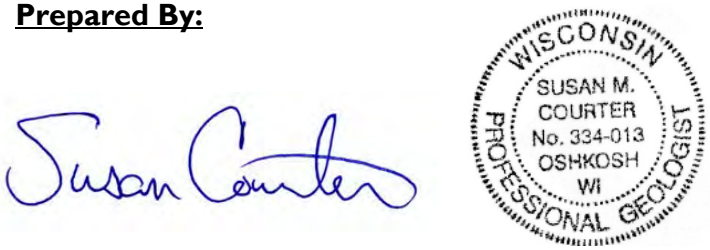
Based upon the amount of reserves on the property and commercial sales over time, it is expected that the resource will supply Dane County communities for over 50 years, assuming ½ acre per year.

When the resource is fully depleted, the site will be restored for agricultural and recreational purposes. A reclamation plan for the property will be submitted to Dane County upon approval of a conditional use permit for the site.

Standard of Care

This plan was prepared using generally accepted geologic and hydrogeologic practices and is based upon the information available at the time of preparation. The scope of this plan is limited to the specific locations described herein.

Prepared By:



Susan M. Courter
Registered Professional Geologist
#334-013

References

Bedrock Geology, by M.E. Ostrom; Wisconsin Geological and Natural History Survey, (revised 1995)

Soil Survey of Dane County, Wisconsin, United States Department of Agriculture, 1978 and Natural Resources Conservation Service Web Soil Survey, May 2020

Well Construction Reports provided by Wisconsin DNR and Wisconsin Geological and Natural History Survey

Hydrogeology of Dane County, UW- Extension and Wisconsin Geological and Natural History Survey Open File Report (WOFR)1999-04

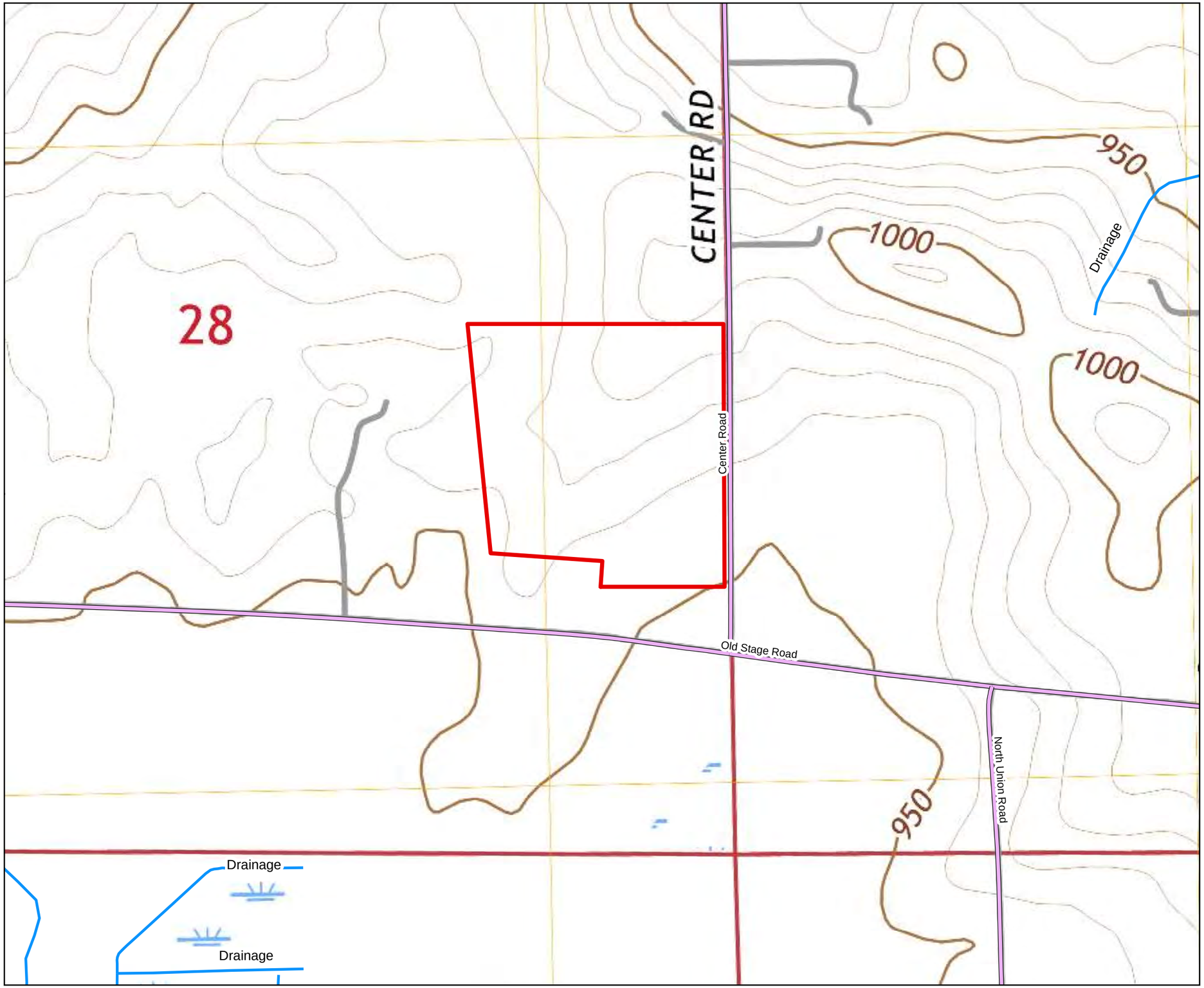
Water-table Elevation and Unlithified Aquifers in Dane County, Wisconsin by K. Bradbury, S. Swanson, J. Krohelski, and A. Fritz, WGNHS Open-File Report 1999-04, 1999

APPENDIX A

FIGURES 1-8

Figure 1

USGS Topographic
and Site Location



Legend

- Rivers and Streams
- Roads
- Project Area

N

0 170 340 680 1,020 1,360
Feet

Map Created: September 17, 2021

2018 USGS Topo Map obtained from US Geological Survey, 2018, The National Map. Date Accessed: July 29, 2020

2020 Parcel Boundary obtained from Dane Co. records: https://gis-countyofdane.opendata.arcgis.com/

2019 Roads data obtained from Wisconsin DNR OpenData website: https://data-wi-dnr.opendata.arcgis.com/datasets/county-and-local-roads

Kevin Hahn Property
Center Road Quarry
Section 28, Town of Rutland
Dane County, WI

Courter
RESOURCE GROUP

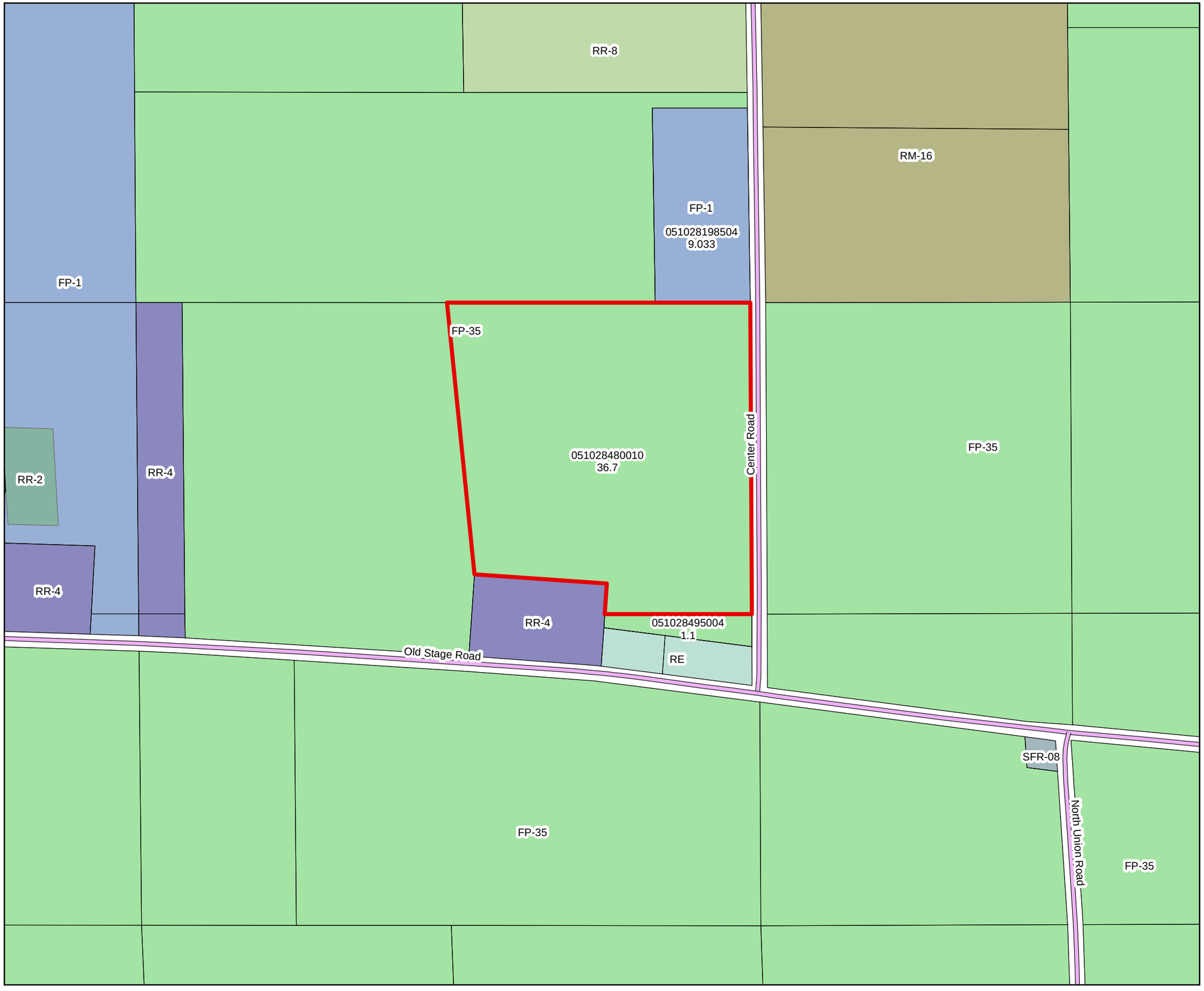


Figure 2

Zoning & Parcel Boundaries

Legend

- Roads
- Project Area
- Parcels outside of Project

Zoning District

- FP-1 - Small Lot Farmland Preservation
- FP-35 - General Preservation Farmland
- RE - Recreational
- RM-16 - Rural Mixed-Use, 16-35 acres
- RR-2 - Rural Residential, 2-4
- RR-4 - Rural Residential, 4-8 acres
- RR-8 - Rural Residential, 8-16
- SFR-08 - Single-Family Residential, Small Lots

Parcel Labels
Parcel ID - 051028198504
Acreage - 9.033

N

0 140 280 560 840 1,120 Feet

Map Created: September 17, 2021

2020 Parcel Boundary and Zoning data obtained from Dane Co. records: https://gis-countyofdane.opendata.arcgis.com/

2019 Roads data obtained from Wisconsin DNR OpenData website: https://data-wi-dnr.opendata.arcgis.com/datasets/county-and-local-roads

Kevin Hahn Property
Center Road Quarry
Section 28, Town of Rutland
Dane County, WI

Courter RESOURCE GROUP

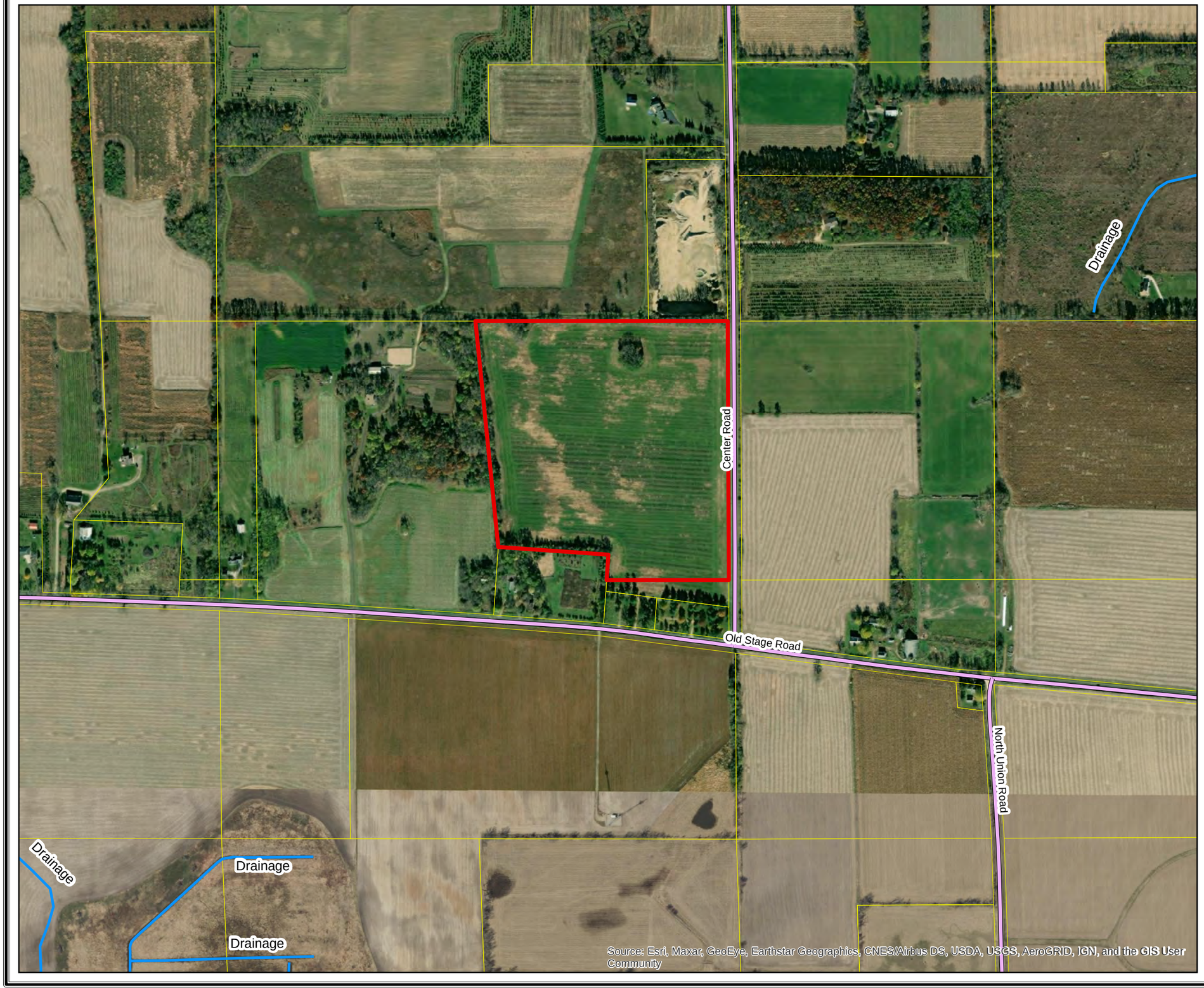


Figure 3

2018 Aerial Imagery Map

Legend

- Rivers and Streams
- Roads
- Project Area
- Parcels

N

0 170 340 680 1,020 1,360

Feet

Map Created: September 17, 2021

Aerial Map Data Source: Esri, DigitalGlobe, GeoEye, EarthStar Geographics 2021

2020 Parcel Boundary obtained from Dane Co. records: https://gis-countyofdane.opendata.arcgis.com/

2019 Roads data obtained from Wisconsin DNR OpenData website: https://data-wi-dnr.opendata.arcgis.com/datasets/county-and-local-roads

Kevin Hahn Property
Center Road Quarry
Section 28, Town of Rutland
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Courter RESOURCE GROUP

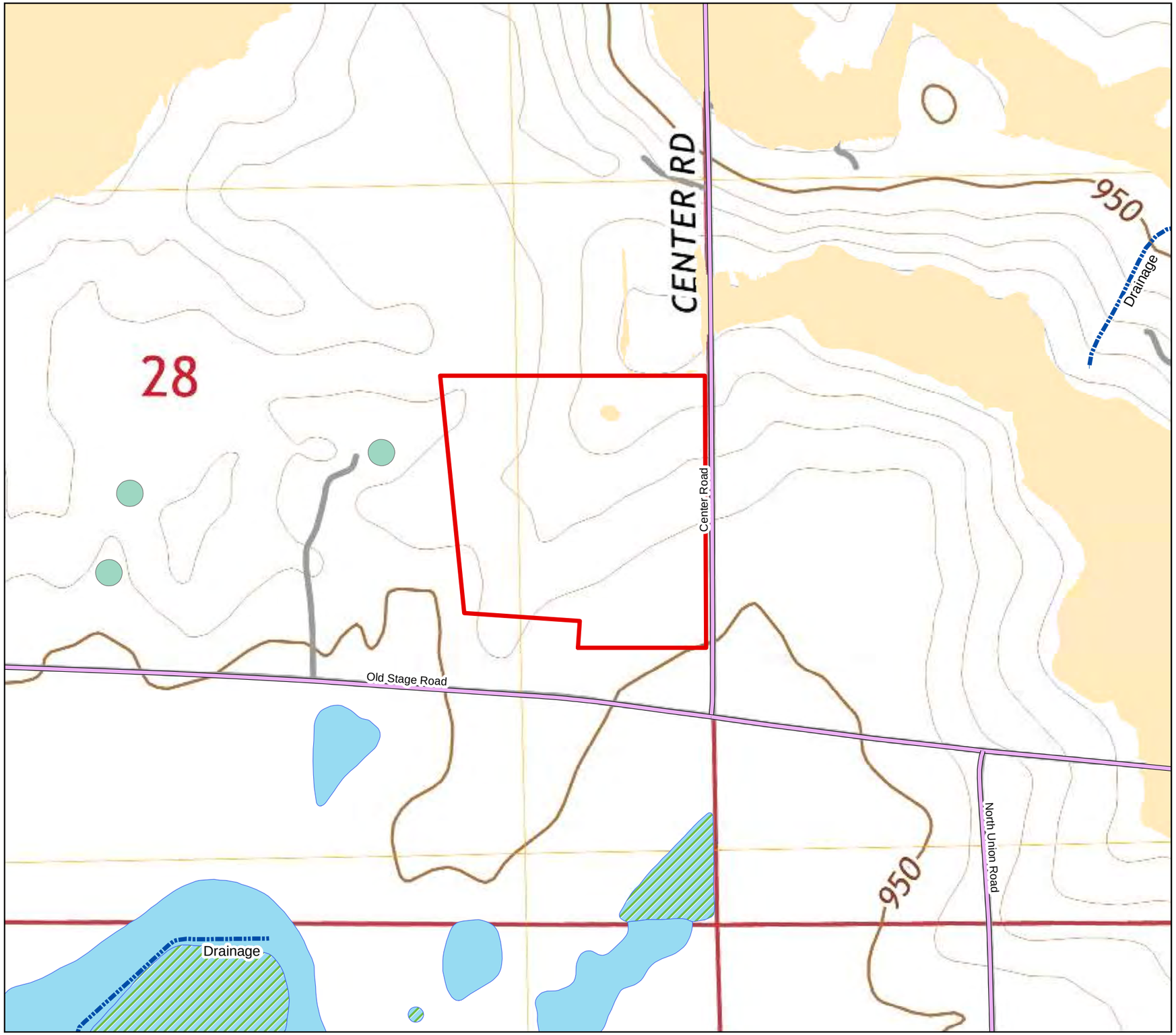


Figure 4

Existing Conditions

Legend

- Rivers and Streams
- Roads
- Project Area

Wetland Type

- Freshwater Emergent Wetland
- Freshwater Pond
- Other

Grade

- 12% or Greater
- Below 12%

N

0 215 430 860 1,290 1,720

Feet

Map Created: September 24, 2021

2018 USGS Topo Map obtained from US Geological Survey, 2018, The National Map. Date Accessed: July 29, 2020

2020 Parcel Boundary obtained from Dane Co. records: https://gis-countyofdane.opendata.arcgis.com/

2019 Roads, slope, and wetland data obtained from Wisconsin DNR OpenData website: https://data-wi-dnr.opendata.arcgis.com/datasets/

Kevin Hahn Property
Center Road Quarry
Section 28, Town of Rutland
Dane County, WI

Courter RESOURCE GROUP

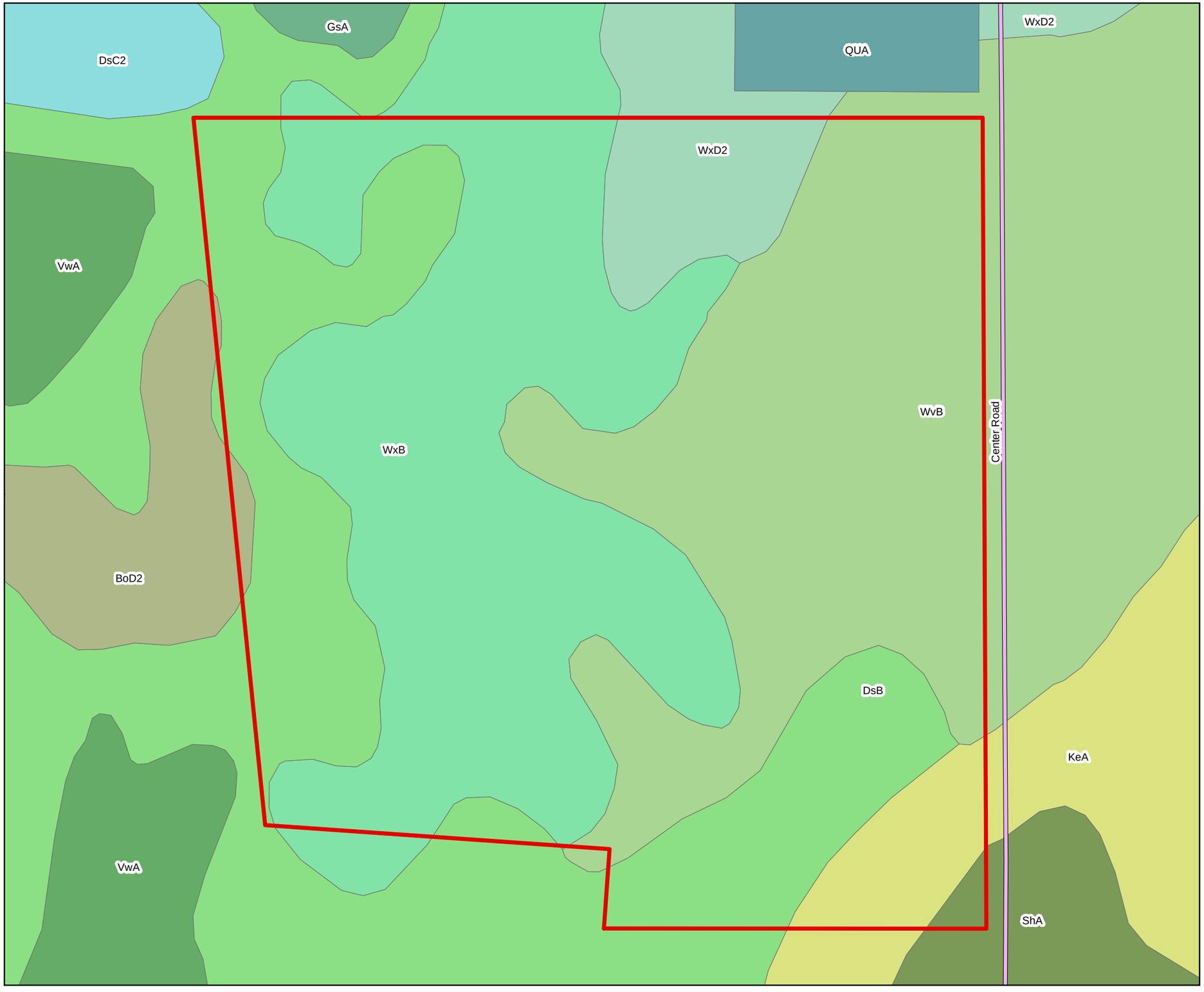


Figure 5

Soil Types

Legend

- Roads
- Project Area

Soil Type

- BoD2 - Boyer sandy loam, 12-20% slopes
- DsB - Dresden silt loam, 2-6% slopes
- DsC2 - Dresden silt loam, 6-12% slopes
- GsA - Grays silt loam, 0-2% slopes
- KeA - Kert silt loam, 0-3% slopes
- QUA - Quarry
- ShA - Shiocton fine sandy loam, 0-3% slopes
- VwA - Virgil silt loam, 0-3% slopes
- WvB - Whalan variant loamy fine sand, 2-6% slopes
- WxB - Wyocena sandy loam, 2-6% slopes
- WxD2 - Wyocena sandy loam, 12-20% slopes

N

0 55 110 220 330 440

Feet

Map Created: September 17, 2021

2021 Soils Data obtained from USGS Web Soil Survey. Date Accessed: September 17, 2021

2020 Parcel Boundary obtained from Dane Co. records: https://gis-countyofdane.opendata.arcgis.com/

2019 Roads data obtained from Wisconsin DNR OpenData website: https://data-wi-dnr.opendata.arcgis.com/datasets/county-and-local-roads

Kevin Hahn Property
Center Road Quarry
Section 28, Town of Rutland
Dane County, WI

Courter RESOURCE GROUP

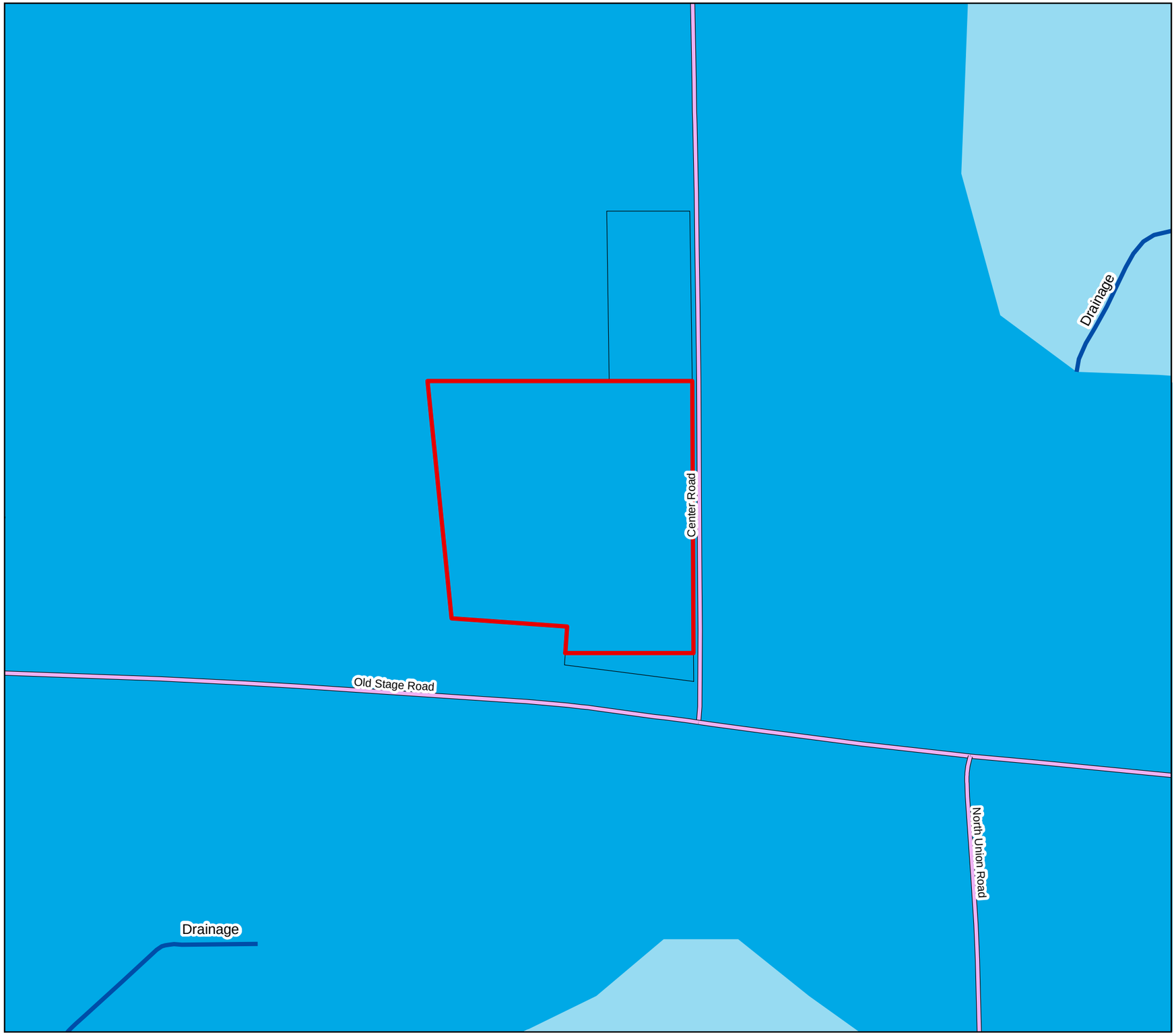


Figure 6

Depth to Water Table

Legend

- Rivers and Streams
- Roads
- Project Area
- Parcels outside Project

Depth to Water Table

- 0 to 20 feet
- 20 to 50 feet

N

0 215 430 860 1,290 1,720

Feet

Map Created: September 17, 2021

Water table & rivers data obtained from WiDNR: https://dnr.wi.gov/topic/landscapes/documents/StateMaps/Map_S15_WaterTable_Depth.pdf

2020 Parcel Boundary data obtained from Dane Co. records: https://gis-countyofdane.opendata.arcgis.com/

2019 Roads data obtained from Wisconsin DNR OpenData website: https://data-wi-dnr.opendata.arcgis.com/datasets/county-and-local-roads

Kevin Hahn Property
Center Road Quarry
Section 28, Town of Rutland
Dane County, WI

Courter RESOURCE GROUP

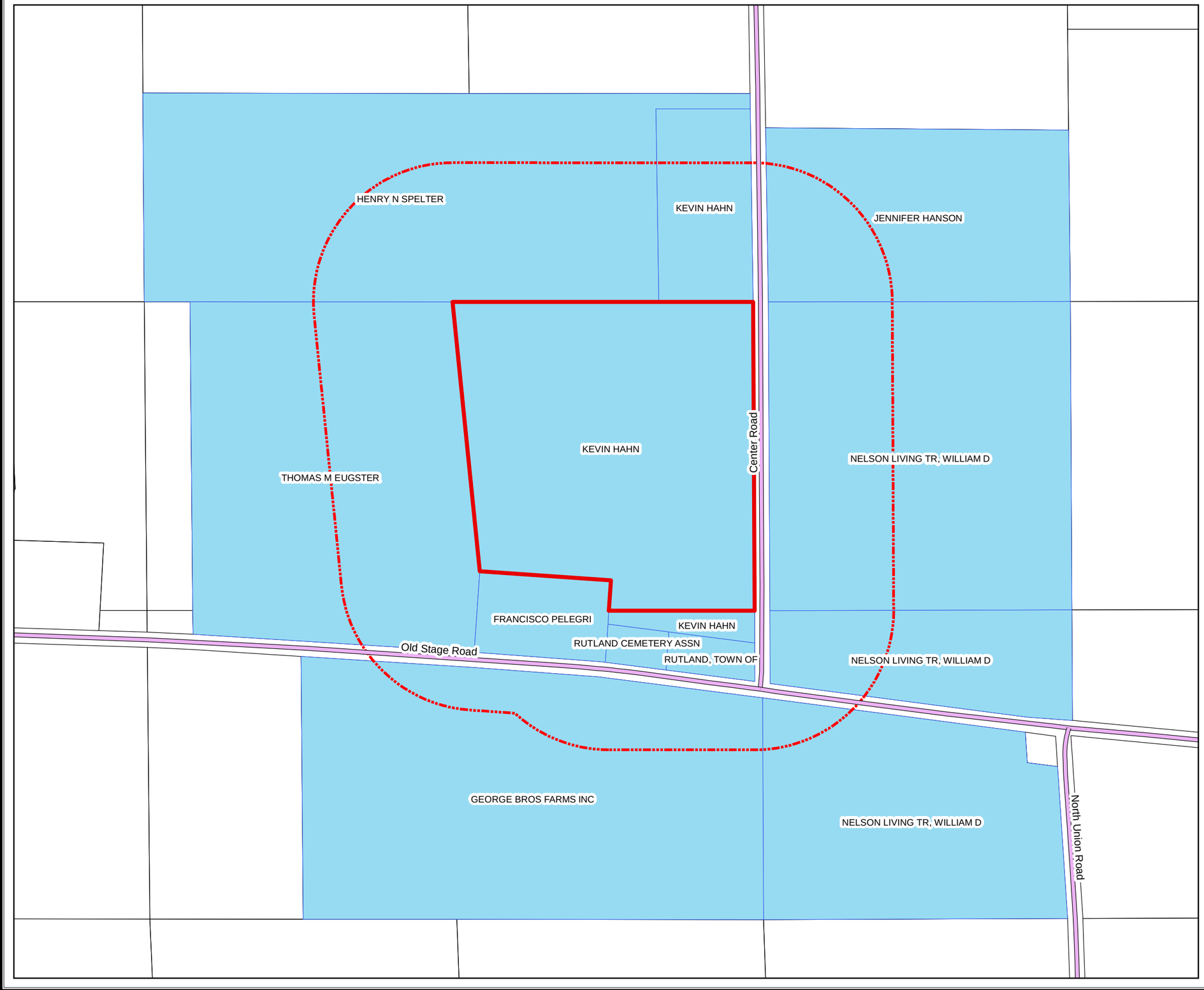


Figure 7

Property Owners
within 600 Feet

Legend

- Roads
- 600 ft Buffer
- Project Area
- Parcels within 600 ft
- Parcels outside of Buffer

N

0 140 280 560 840 1,120
Feet

Map Created: September 17, 2021

2020 Parcel Boundary obtained from Dane Co. records: https://gis-countyofdane.opendata.arcgis.com/

2019 Roads data obtained from Wisconsin DNR OpenData website: https://data-wi-dnr.opendata.arcgis.com/datasets/county-and-local-roads

Kevin Hahn Property
Center Road Quarry
Section 28, Town of Rutland
Dane County, WI

Courter
RESOURCE GROUP

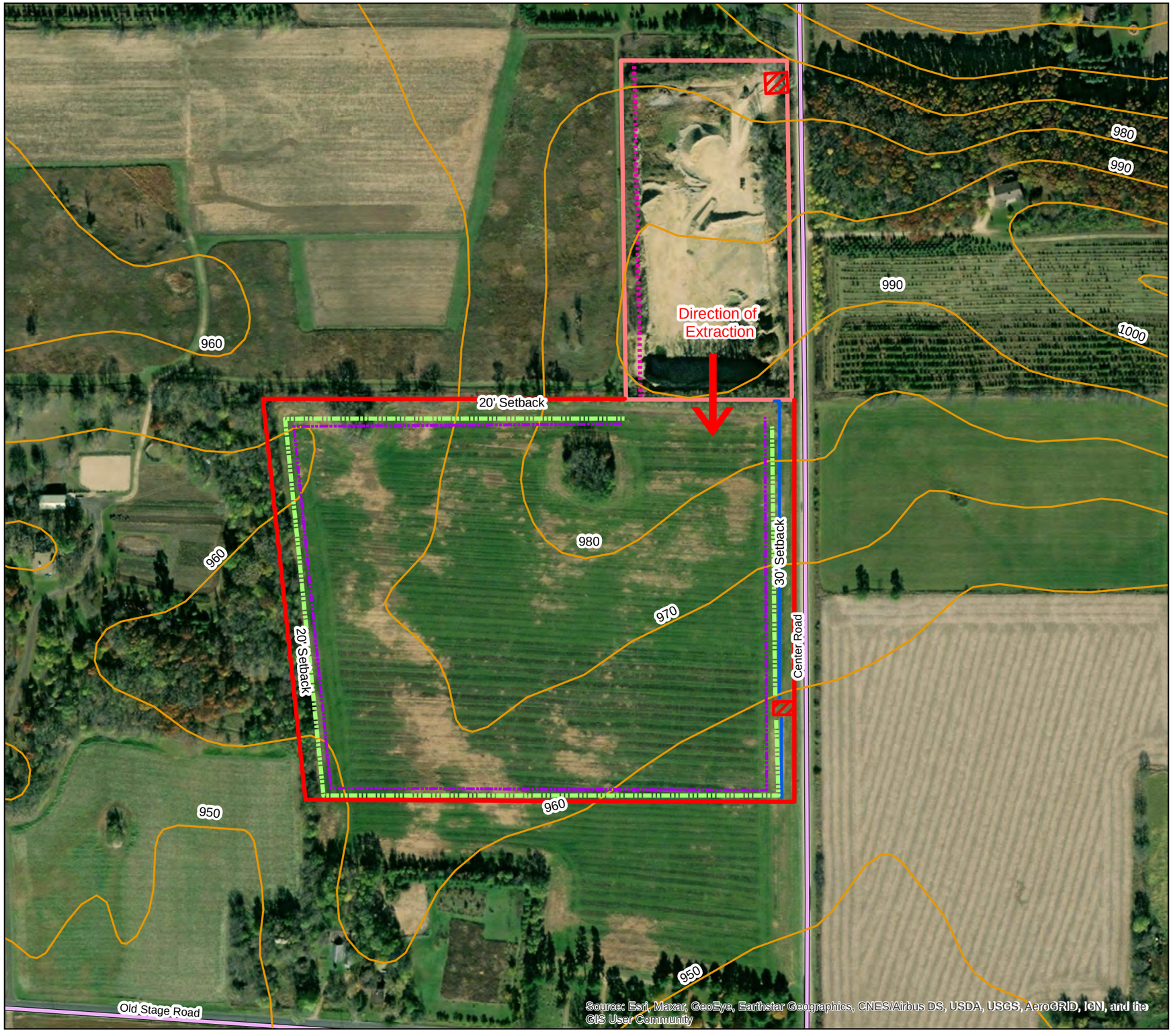


Figure 8

Operation Plan

- Roadway Setback (30 feet)
- Working Berm
- Extraction Area
- 10' Contours
- Roads
- 32.33' Buffer
- Proposed Fence
- Existing Quarry
- Entrance Drive with Locking Gate

N

0 105 210 420 630 840 Feet

Map Created: October 21, 2021

10' Contours obtained from US Geological Survey, 2018, The National Map. Date Accessed: July 29, 2020

2020 Parcel Boundary obtained from Dane Co. records: https://gis-countyofdane.opendata.arcgis.com/

2019 Roads data obtained from Wisconsin DNR OpenData website: https://data-wi-dnr.opendata.arcgis.com/datasets/

Aerial Map Data Source: Esri, DigitalGlobe, GeoEye, EarthStar Geographics 2021

Kevin Hahn Property
Center Road Quarry
Section 28, Town of Rutland
Dane County, WI

Courter RESOURCE GROUP

APPENDIX B

SITE SURVEY

Conditional Use Map

PART OF THE NE 1/4 OF THE SE 1/4, SECTION 28, T.05N., R.10E., TOWN OF RUTLAND, DANE COUNTY, WISCONSIN.

Wisconsin Mapping, LLC

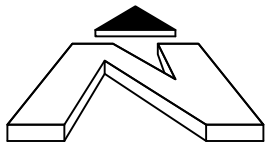
surveying and mapping services
306 West Quarry Street, Deerfield, Wisconsin 53531
(608) 764-5602

Prepared for:
Kevin Hahn
3572 Old Stone Rd.
Stoughton, WI. 53589

Scale 1" = 200'
0 100 200 400

Conditional Use Map

PART OF THE NE 1/4 OF THE SE 1/4, SECTION 28, T.05N., R.10E., TOWN OF RUTLAND, DANE COUNTY, WISCONSIN.



CSM # 2590

EAST 1/4 CORNER, SECTION 28

1/4 LINE

N89°22'48"E 1000.00'

Part of the NE 1/4 of the SE 1/4, Section 28, T.05N., R.10E., Town of Rutland, Dane County, Wisconsin.

Beginning at the East 1/4 corner of said Section 28; thence S00°53'15"E along the East line of the SE 1/4, 1000.00 feet; thence S89°22'48"W along a line parallel with the North line of the said SE 1/4, 1000.00 feet; thence N00°53'15"W along a line parallel with the East line of the said 1/4, 1000.00 feet to the North line of the SE 1/4; thence N89°22'48"E along said North line, 1000.00 feet to the point of beginning. The above described containing 22.957 acres.

N00°53'15"W 1000.00'

S00°53'15"E 1000.00'

NE 1/4 - SE 1/4

CENTER ROAD

S89°22'48"W 1000.00'

1/4 -1/4 LINE

1/4 -1/4 LINE

1/4 LINE

SE 1/4 - SE 1/4

S.W. GRAVES CEMETERY

S.W. GRAVES CEMETERY ADDITION # 2

OLD STAGE ROAD

Scale 1" = 200'

0 100 200 400

Wisconsin Mapping, LLC

surveying and mapping services

306 West Quarry Street, Deerfield, Wisconsin 53531

(608) 764-5602

Prepared for:

Kevin Hahn

3572 Old Stone Rd.

Stoughton, WI. 53589

APPENDIX C

LOCAL WELL CONSTRUCTION REPORTS

Well Construction Report
WISCONSIN UNIQUE WELL NUMBER FT956

Drinking Water and Groundwater - DG/5
Department of Natural Resources, Box 7921
Madison WI 53707
Form 3300-077A

Property Owner: SUHR, BONNIE	Phone #: (608)455-3911
Mailing Address: 483 CENTER RD	
City: OREGON	State: WI — Zip Code: 53575
County: Dane	Co. Permit #: W09560 — Notification # — Completed: 01-24-1994
Well Constructor (Business Name): SAMS ROTARY DRILLERS	Lic. #: 370 — Facility ID # (Public Wells)
Address: PO BOX 150 RANDOLPH WI 53956-0150	Well Plan Approval # — Approval Date (mm-dd-yyyy)
Hicap Permanent Well #	Common Well # — Specific Capacity: 0.8

1. Well Location
Town of RUTLAND
Fire # (if avail.)
Street Address or Road Name and Number: 483 CENTER RD
Subdivision Name — Lot # — Block #
Latitude / Longitude in Decimal Degree (DD): 42.8722 °N -89.3123 °W
Method Code: GCD013
NE NE or Govt Lot # — Section: 28 — Township: 5 N — Range: 10 E

2. Well Type Reconstruction
of previous unique well # — constructed in
Reason for replaced or reconstructed well ?
Construction Type: Drilled

3. Well serves 1 # of HOMES
Private,potable
Heat Exchange____# of drillholes
Hicap Well ? No
Hicap Property ? No
Hicap Potable ?

4. Potential Contamination Sources - ON REVERSE SIDE

5. Drillhole Dimensions and Construction Method

Upper Enlarged Drillhole	Lower Open Bedrock
Rotary - Mud Circulation	
Rotary - Air	
Rotary - Air & Foam	
Drill-Through Casing Hammer	
Reverse Rotary	
Cable-tool Bit ____in. dia...	
Dual Rotary	
Temp. Outer Casing ____in. dia	
Removed? ____depth ft. (If NO explain on back side)	

6. Casing, Liner, Screen

Dia. (in.)	Material, Weight, Specification Manufacturer & Method of Assembly	From (ft.)	To (ft.)
5	STD BLK PIPE, .258 WALL, WELD JTS, SAWHILL	Surface	71
Dia. (in.)	Screen type, material & slot size	From (ft.)	To (ft.)

7. Grout or Other Sealing Material
Method

9. Static Water Level
58 ft. below ground surface

10. Pump Test
Pumping level 84 ft. below surface
Pumping at 20 GP M for 1 Hrs.
Pumping Method ?

11. Well Is
18 in. above grade
Developed ? Yes
Disinfected ? Yes
Capped ? Yes

12. Notified Owner of need to fill & seal ?
Filled & Sealed Well(s) as needed?

13. Constructor / Supervisory Driller	Lic #	Date Signed
SVG		01-25-1994
Drill Rig Operator	Lic or Reg #	Date Signed
SCK		01-25-1994

WELL CONSTRUCTION REPORT

WISCONSIN STATE BOARD OF HEALTH

WELL CONSTRUCTION DIVISION

MAR 21 1944

Note: Section 31 of the Wisconsin Well Construction Code, having the force and effect of law, provides that within thirty days after completion of every well the driller shall submit a report covering all essential details of construction to the State Board of Health on a form provided by the Board.

Owner Stone School Dist #5 Driller Harold Burtness

Street or RFD ..... Post Office Oregonville Wisc

Post Office ..... Date Jan 11-1944 Permit No. 97

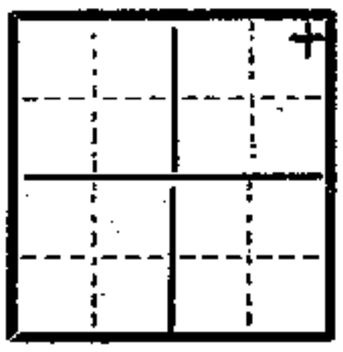
LOCATION OF PREMISES

Dane County — Rutland Town

Describe further by subdivision, plat, district, lake, lot.

block, nearest principal highway, etc., whichever apply.

The square below represents a section of land divided into 40 acre tracts. Mark the position of the premises in the section.



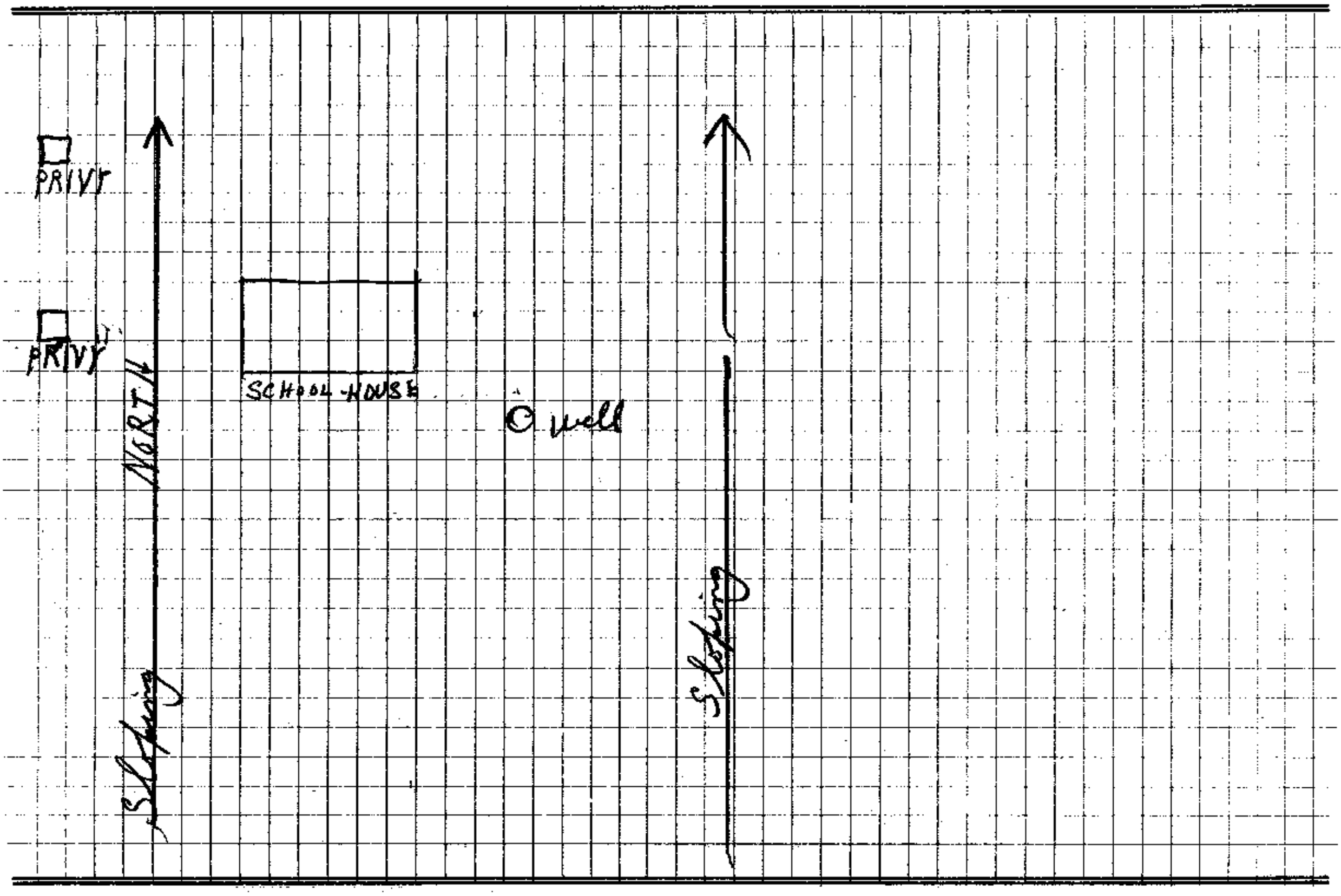
Sec. No. 28

Twp. North 5N

Range 10 { E W

DIAGRAM OF PREMISES

See Well Construction Report bulletin. In making the diagram in the space below consider 10 ft. as the distance between lines. Be sure to indicate NORTH.



Additional copies of this form may be obtained in lots of 12 for 25c. Send remittance with order to State Board of Health, Well Construction Division, Madison, Wis.

3578

WELL LOG *and* REPORT

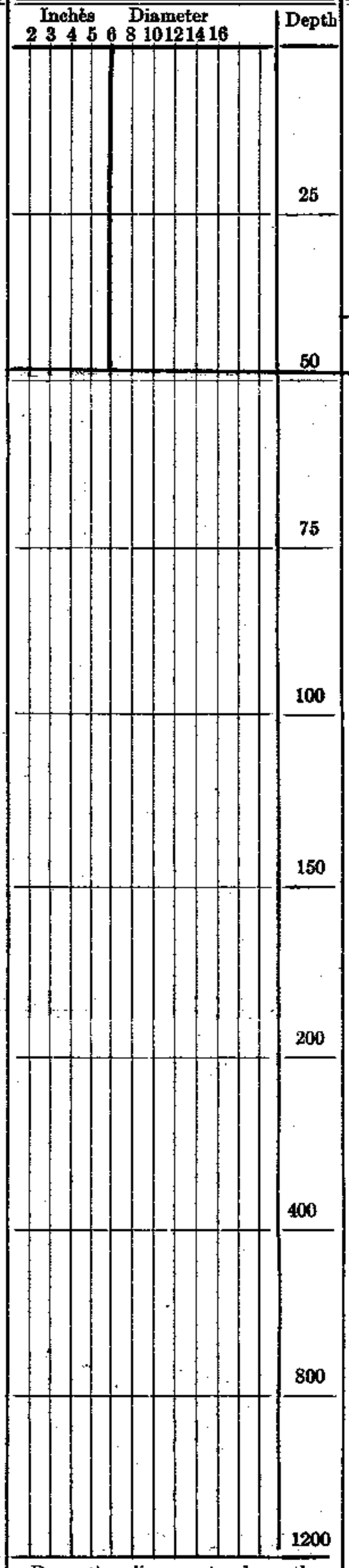
For method of making report, refer to bulletin entitled "Well Construction Report," 7-5-39. Accuracy is essential.

In this column indicate the kind of casing, liner, shoe and other accessories used.

Std. Wt. Water well pipe Forgedsteel shoe

| = casing pipe

WELL DIAGRAM
Use a red line to show casing or liner pipe. Use black for drill or borehole.



Draw the diagram to show the full diameter and right section of well only.

In this column state the kind of formations penetrated, their thickness in feet and if water bearing.

Clay 44'

Limestone

Record of FINAL Pumping test

Duration of test
Hours 5

Pumping rate
G.P.M. 6

Depth of pump in well. Ft. 28'

Standing water-level (from surface)
Ft. 15'

Water-level when pumping Ft. 20'

Water. End of test.
Clear X
Cloudy
Turbid

Was the well sterilized?
Yes X No

To which laboratory was sample sent?
Blair

Date 11-29-43

Was the well sealed on completion?
Yes X No

How high did you leave the casing-pipe above grade?
10"

Well was completed
Date 11-29-43

Well Constructor
Harold Burtness
Signature

DN 3578_2

State of Wisconsin
Department of Natural Resources
Private Water Supply
Box 7921
Madison, Wisconsin 53707

NOTE:
White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

WELL CONSTRUCTOR'S REPORT
Form 3300–15 Rev. 2-79

JAN 19 1983

1. COUNTY: Dane

CHECK (✓) ONE: ☐ Town ☐ Village ☐ City

Name: Rutland

2. LOCATION: ¼ Section or Gov't. Lot: NE | Section: 27 | Township: 5N | Range: 10E

OR – Grid or Street No. | Street or Road Name

AND – If available subdivision name, lot & block No.

3. NAME ☐ OWNER ☐ AGENT AT TIME OF DRILLING CHECK (✓) ONE: Quality Builders

ADDRESS: 454 Center Road

POST OFFICE: Oregon, WI. ZIP CODE: 53575

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain		Sanitary Bldg. Sewer		Floor Drain Connected To:		Storm Bldg. Drain		Storm Bldg. Sewer	
	C.I.	Other	C.I.	Other	C.I. Sewer	Other Sewer	C.I.	Other	C.I.	Other
16										

Street Sewer		Other Sewers		Foundation Drain Connected to:				Sewage Sump		Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit	Manure Hopper or Retention or Pnuematic Tank
San.	Storm	C.I.	Other	Sewer		Sewage Sump		C.I.	Other				Seepage Pit	
				Clearwater Dr.		Clearwater Sump							Seepage Bed 72	
											83		Seepage Trench	

Privy	Pet Waste Pit	Pit: Nonconforming Existing		Subsurface Pumproom Nonconforming Existing	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit	Earthen Manure Basin
		Well										
		Pump										
		Tank										

Temporary Manure Stack or Platform	Watertight Liquid Manure Tank or Basin	Manure Pressure Pipe	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Manure Storage Basin Concrete Floor Only Concrete Floor and Partial Concrete Walls	Other (Describe)

5. Well is intended to supply water for: Home

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
8	Surface	63			
6	63	128			

7. CASING, LINER, CURBING AND SCREEN
Material, Weight, Specification Mfg. & Method of Assembly

Dia. (in.)		From (ft.)	To (ft.)
6	Standard Black Pipe, .280 Wall Welded Joints, A-53.	Surface	63

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Mud & Cuttings	Surface	8
Cement	8	63

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Sand & Clay	Surface	21
Sandstone	21	60
Limestone	60	128

10. TYPE OF DRILLING MACHINE USED

☐ Cable Tool
☐ Rotary-air w/drilling mud
☐ Rotary-w/drilling mud
☒ Rotary-hammer w/drilling mud & air
☐ Rotary-hammer & air
☐ Reverse Rotary
☐ Jetting with: ☐ Air ☐ Water

Well construction completed on January 3 19 83

11. MISCELLANEOUS DATA

Yield Test: 4 Hrs. at 21 GPM

Depth from surface to normal water level 60 Ft.

Depth of water level when pumping 72 Ft. Stabilized ☒ Yes ☐ No

Well is terminated 12 inches ☒ above ☐ below final grade

Well disinfected upon completion ☒ Yes ☐ No

Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to Madison laboratory on December 31 19 82

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: Sam Wanderscheid Registered Well Driller

316

Business Name and Complete Mailing Address:
SAM'S ROTARY DRILLERS
ROUTE 2
RANDOLPH, WISCONSIN 53956

MAR 2 9 1978

State of Wisconsin
Department of Natural Resources
Box 7921
Madison, Wisconsin 53707

NOTE:
White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

WELL CONSTRUCTOR'S REPORT
Form 3300–15 Rev. 12-76

1. COUNTY: Dane
CHECK (✓) ONE: ☒ Town ☐ Village ☐ City
Name: Rutland

2. LOCATION: ¼ Section: SE-NE; Section: 28; Township: 5N; Range: 10E
OR – Grid or Street No.; Street Name: Center rd
AND – If available subdivision name, lot & block No.

3. NAME ☒ OWNER ☐ AGENT AT TIME OF DRILLING CHECK (✓) ONE: Propst Bros. Builders
ADDRESS: 10 E. Main
POST OFFICE: Evansville Wis.

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain		Sanitary Bldg. Sewer		Floor Drain Connected To:		Storm Bldg. Drain		Storm Bldg. Sewer	
	C.I.	Other	C.I.	Other	C.I. Sewer	Other Sewer	C.I.	Other	C.I.	Other
19'										

Street Sewer		Other Sewers		Foundation Drain Connected to:			Sewage Sump		Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit	
San.	Storm	C.I.	Other	Sewer		Sewage Sump	C.I.	Other		70		Seepage Pit	
				Clearwater Dr.		Clearwater Sump						Seepage Bed	80
												Seepage Trench	

Privy	Pet Waste Pit	Pit: Nonconforming Existing		Subsurface Pumproom Nonconforming Existing	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit
		Well									
		Pump									
		Tank									

Temporary Manure Stack	Watertight Liquid Manure Tank	Solid Manure Storage Structure	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Other (Give Description)

5. Well is intended to supply water for: Home

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
9	Surface	60'			
6	60	125			

7. CASING, LINER, CURBING AND SCREEN

Dia. (in.)	Material, Weight, Specification & Method of Assembly	From (ft.)	To (ft.)
6	New P.E. Blk. Seamless	Surface	60
	Steel ASTM A53		
	U.S. Wt. 18.97		

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Drilling mud	Surface	60'

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Top Soil	Surface	2
clay + Gravel	2	24
clay	24	60
lime Ston	60	110
Sand Stone	110	125

10. TYPE OF DRILLING MACHINE USED

☐ Cable Tool
☐ Rotary-air w/drilling mud
☐ Rotary-w/drilling mud
☒ Rotary-hammer w/drilling mud & air
☐ Rotary-hammer & air
☐ Reverse Rotary
☐ Jetting with: ☐ Air ☐ Water

Well construction completed on 2-23-78 19

11. MISCELLANEOUS DATA

Yield Test: 1 Hrs. at 20 GPM
Depth from surface to normal water level 80 Ft.
Depth of water level when pumping 95 Ft. Stabilized ☒ Yes ☐ No

Well is terminated 8 inches ☒ above ☐ below final grade
Well disinfected upon completion ☒ Yes ☐ No
Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to Madison laboratory on 3-28-78 19

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: Leon Govert Registered Well Driller

Complete Mail Address: GOVERT BROS. WELL CO.
RT. # 2 HY. 81
BELOIT, WI 53511

3577

AUG 31 1979

State of Wisconsin
Department of Natural Resources
Box 7921
Madison, Wisconsin 53707

NOTE:
White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

WELL CONSTRUCTOR'S REPORT
Form 3300–15 Rev. 12-76

1. COUNTY: Dane — CHECK (✓) ONE: ☑ Town ☐ Village ☐ City — Name: Cottland

2. LOCATION: ¼ Section: NW | Section: 27 | Township: 5N | Range: 10E

3. NAME ☑ OWNER ☐ AGENT AT TIME OF DRILLING CHECK (✓) ONE: Sam Vanderhoven

OR – Grid or Street No. | Street Name: Center Rd | ADDRESS

AND – If available subdivision name, lot & block No. | POST OFFICE: Stoughton, Wis

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain		Sanitary Bldg. Sewer		Floor Drain Connected To:		Storm Bldg. Drain		Storm Bldg. Sewer	
	C.I.	Other	C.I.	Other	C.I. Sewer	Other Sewer	C.I.	Other	C.I.	Other
24										

Street Sewer		Other Sewers		Foundation Drain Connected to:				Sewage Sump		Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit	
San.	Storm	C.I.	Other	Sewer		Sewage Sump		C.I.	Other				Seepage Pit	
				Clearwater Dr.		Clearwater Sump					55		Seepage Bed	65
													Seepage Trench	

Privy	Pet Waste Pit	Pit: Nonconforming Existing		Subsurface Pumproom Nonconforming Existing	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit
		Well									
		Pump									
		Tank									

Temporary Manure Stack	Watertight Liquid Manure Tank	Solid Manure Storage Structure	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Other (Give Description)

5. Well is intended to supply water for: Home

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
8	Surface	43			
6	43	127			

7. CASING, LINER, CURBING AND SCREEN

Dia. (in.)	Material, Weight, Specification & Method of Assembly	From (ft.)	To (ft.)
6	STD BIK pipe	Surface	43
	.280 wall		
	Weld FTS.		
	A-53		

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Mud	Surface	8
Cement	8	43

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Clay loam	Surface	4
Clay	4	9
Sand & gravel	9	15
Lime Rock	15	127

10. TYPE OF DRILLING MACHINE USED

☐ Cable Tool
☐ Rotary-air w/drilling mud
☐ Rotary-w/drilling mud
☑ Rotary-hammer w/drilling mud & air
☐ Rotary-hammer & air
☐ Reverse Rotary
☐ Jetting with: ☐ Air ☐ Water

Well construction completed on 5-8 19 79

11. MISCELLANEOUS DATA

Yield Test: 2 Hrs. at 20 GPM

Depth from surface to normal water level 45 Ft.

Depth of water level when pumping 86 Ft. Stabilized ☑ Yes ☐ No

Well is terminated 12 inches ☑ above ☐ below final grade

Well disinfected upon completion ☑ Yes ☐ No

Well sealed watertight upon completion ☑ Yes ☐ No

Water sample sent to Madison laboratory on 5-11 19 79

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: Sam Vanderhoven Registered Well Driller

Complete Mail Address: R.T. 2 Randolph, Wis.

DN 3572

Well Construction Report
WISCONSIN UNIQUE WELL NUMBER WJ023

Drinking Water and Groundwater - DG/5
Department of Natural Resources, Box 7921
Madison WI 53707

Form 3300-077A

Property Owner: LAUNDRIE, ANDY	Phone #: (608)332-5153
Mailing Address: 4082 OLD STAGE RD	
City: BROOKLYN	State: WI / Zip Code: 53521

County	Co. Permit #	Notification #	Completed
Dane	27482	25232498	02-20-2007

Well Constructor (Business Name)	Lic. #	Facility ID # (Public Wells)
SAM'S WELL DRILLING INC	370	

Address: PO BOX 150
RANDOLPH WI 53956-0150

Well Plan Approval #:

Approval Date (mm-dd-yyyy):

Hicap Permanent Well #	Common Well #	Specific Capacity
		0.9

3. Well serves 1 # of
Private,potable
Heat Exchange____# of drillholes

Hicap Well ? No
Hicap Property ? No
Hicap Potable ?

1. Well Location

Town of RUTLAND

Fire # (if avail.): 4082

Street Address or Road Name and Number: OLD STAGE RD

Subdivision Name	Lot #	Block #

Latitude / Longitude in Decimal Degree (DD)				Method Code
42.8638	°N	-89.3196	°W	GCD013

SW	SE	Section	Township		Range	
or Govt Lot #		28	5	N	10	E

2. Well Type Replacement
of previous unique well # constructed in

Reason for replaced or reconstructed well ?
OLD WELL OUT OF WATER

Construction Type: Drilled

4. Potential Contamination Sources - ON REVERSE SIDE

5. Drillhole Dimensions and Construction Method

Dia. (in.)	From (ft.)	To (ft.)
6	Surface	97

Upper Enlarged Drillhole		Lower Open Bedrock
No	Rotary - Mud Circulation	No
Yes	Rotary - Air	Yes
No	Rotary - Air & Foam	No
No	Drill-Through Casing Hammer	
No	Reverse Rotary	
No	Cable-tool Bit ____in. dia...	No
	Dual Rotary	
No	Temp. Outer Casing ____in. dia	
No	Removed? ____depth ft. (If NO explain on back side)	

Geology Codes				8. Geology Type, Caving/Noncaving, Color, Hardness, etc...	From (ft.)	To (ft.)
-	-	X	-	Sand & Clay	Surface	5
-	-	X	G	Sand & Clay, w/Gravel/Cobbles/Boulders/Stones	5	59
-	B	L	-	Broken, Limestone/Dolomite	59	64
-	-	L	-	Limestone/Dolomite	64	97

6. Casing, Liner, Screen

Dia. (in.)	Material, Weight, Specification Manufacturer & Method of Assembly	From (ft.)	To (ft.)
6	STD BLK, PIPE, .280 WALL, P.E., A53B WHEATLAND	Surface	68
Dia. (in.)	Screen type, material & slot size	From (ft.)	To (ft.)

7. Grout or Other Sealing Material

Method

Kind of Sealing Material	From (ft.)	To (ft.)	# Sacks Cement
Granular bentonite	Surface		

9. Static Water Level
25 ft. below ground surface

10. Pump Test
Pumping level 48 ft. below surface
Pumping at 20 GP M for 1 Hrs.
Pumping Method ?

11. Well Is
18 in. above grade
Developed ? Yes
Disinfected ? Yes
Capped ? Yes

12. Notified Owner of need to fill & seal ?

Filled & Sealed Well(s) as needed? Yes

13. Constructor / Supervisory Driller	Lic #	Date Signed
JVG		02-20-2007
Drill Rig Operator	**Lic or Reg #**	**Date Signed**
SIVG		02-20-2007

Well Construction Report
WISCONSIN UNIQUE WELL NUMBER DC135

Drinking Water and Groundwater - DG/5
Department of Natural Resources, Box 7921
Madison WI 53707

Form 3300-077A

Property Owner: FLORENCE KRAUSE			Phone #: (608)455-6546
Mailing Address: 4116 OLD STAGE RD			
City: BROOKLYN	State: WI	Zip Code: 53521	
County: Dane	Co. Permit #: W04953	Notification #	Completed: 06-05-1991

1. Well Location

Town of RUTLAND

Fire # (if avail.)

Street Address or Road Name and Number: 4116 OLD STAGE

Subdivision Name | Lot # | Block #

Well Constructor (Business Name): SAMS ROTARY DRILLERS	Lic. #: 370	Facility ID # (Public Wells)	Latitude / Longitude in Decimal Degree (DD): 42.8643 °N -89.3218 °W
		Well Plan Approval #	Method Code: GCD013
Address: PO BOX 150 RANDOLPH WI 53956-0150		Approval Date (mm-dd-yyyy)	NE SW or Govt Lot #; Section: 28; Township: 5 N; Range: 10 E

2. Well Type Replacement

of previous unique well # | constructed in

Reason for replaced or reconstructed well ?: WATER

Hicap Permanent Well #	Common Well #	Specific Capacity: 0.7

3. Well serves 1 # of

Private,potable

Heat Exchange____# of drillholes

Hicap Well ? No

Hicap Property ? No

Hicap Potable ?

Construction Type: Drilled

4. Potential Contamination Sources - ON REVERSE SIDE

5. Drillhole Dimensions and Construction Method

Dia. (in.)	From (ft.)	To (ft.)
8	Surface	42
6	42	102

Upper Enlarged Drillhole / Lower Open Bedrock

Yes Rotary - Mud Circulation .....

Yes Rotary - Air .....

Rotary - Air & Foam .....

Drill-Through Casing Hammer

Reverse Rotary

Cable-tool Bit ____in. dia...

Dual Rotary .....

Temp. Outer Casing ____in. dia

Removed? ____depth ft. (If NO explain on back side)

Geology Codes	8. Geology Type, Caving/Noncaving, Color, Hardness, etc...	From (ft.)	To (ft.)
C	CLAY	Surface	4
Y	SAND AND GRAVEL	4	33
C	CLAY	33	36
L	LIMESTONE	36	102

6. Casing, Liner, Screen

Dia. (in.)	Material, Weight, Specification Manufacturer & Method of Assembly	From (ft.)	To (ft.)
6	STD BLACK PIPE .280 WALL, WELD JTS, A-53 KHC	Surface	42
Dia. (in.)	Screen type, material & slot size	From (ft.)	To (ft.)

9. Static Water Level

21 ft. below ground surface

10. Pump Test

Pumping level 51 ft. below surface

Pumping at 20 GP for 1 Hrs.

Pumping Method ?

11. Well Is

0 in. above grade

Developed ? Yes

Disinfected ? Yes

Capped ? Yes

7. Grout or Other Sealing Material

Method TREMIE

Kind of Sealing Material	From (ft.)	To (ft.)	# Sacks Cement
MUD AND CUTTINGS	Surface	8	
CEMENT	8	42	7

12. Notified Owner of need to fill & seal ?

Filled & Sealed Well(s) as needed?

13. Constructor / Supervisory Driller	Lic #	Date Signed
SV		06-24-1991
Drill Rig Operator	**Lic or Reg #**	**Date Signed**
SK		06-25-1991

Well Construction Report
WISCONSIN UNIQUE WELL NUMBER TT086

Drinking Water and Groundwater - DG/5
Department of Natural Resources, Box 7921
Madison WI 53707
Form 3300-077A

Property Owner: KNUTSON, KENT		Phone #: (608)873-8456
Mailing Address: PO BOX 188		
City: STOUGTON	State: WI	Zip Code: 53589

County	Co. Permit #	Notification #	Completed
Dane	23880		09-30-2004

Well Constructor (Business Name)	Lic. #	Facility ID # (Public Wells)
SAM'S WELL DRILLING INC	370	

Address: PO BOX 150
RANDOLPH WI 53956-0150

Well Plan Approval #

Approval Date (mm-dd-yyyy)

Hicap Permanent Well #	Common Well #	Specific Capacity
		0.5

3. Well serves 1 # of
Private,potable
Heat Exchange____# of drillholes

Hicap Well ? No
Hicap Property ? No
Hicap Potable ?

1. Well Location
Town of RUTLAND

Fire # (if avail.)

Street Address or Road Name and Number
OLD STONE ROAD

Subdivision Name	Lot #	Block #

Latitude / Longitude in Decimal Degree (DD)		Method Code
°N	°W	GPS008

NW NE or Govt Lot #	Section	Township	Range
	28	5 N	10 E

2. Well Type New Well
of previous unique well # constructed in

Reason for replaced or reconstructed well ?

Construction Type: Drilled

4. Potential Contamination Sources - ON REVERSE SIDE

5. Drillhole Dimensions and Construction Method

Dia. (in.)	From (ft.)	To (ft.)
8.75	Surface	63
6	63	183

Upper Enlarged Drillhole		Lower Open Bedrock
No	Rotary - Mud Circulation	No
Yes	Rotary - Air	Yes
No	Rotary - Air & Foam	No
No	Drill-Through Casing Hammer	
No	Reverse Rotary	
No	Cable-tool Bit ____in. dia...	No
	Dual Rotary	
Yes	Temp. Outer Casing 10in. dia	
Yes	Removed? 3depth ft. (If NO explain on back side)	

Geology Codes				8. Geology Type, Caving/Noncaving, Color, Hardness, etc...	From (ft.)	To (ft.)
-	B	L	F	Broken, Limestone/Dolomite, w/Fill	Surface	4
-	B	L	-	Broken, Limestone/Dolomite	4	29
-	-	L	-	Limestone/Dolomite	29	183

6. Casing, Liner, Screen

Dia. (in.)	Material, Weight, Specification Manufacturer & Method of Assembly	From (ft.)	To (ft.)
6	STD BLK, PIPE, .280 WALL, P.E., A53B WHEATLAND	Surface	63
Dia. (in.)	Screen type, material & slot size	From (ft.)	To (ft.)

7. Grout or Other Sealing Material
Method Tremie Pipe - Pumped

Kind of Sealing Material	From (ft.)	To (ft.)	# Sacks Cement
Neat cement grout	Surface	63	19 S

9. Static Water Level
102 ft. below ground surface

10. Pump Test
Pumping level 130 ft. below surface
Pumping at 15 GP M for 1 Hrs.
Pumping Method ?

11. Well Is
18 in. above grade
Developed ? Yes
Disinfected ? Yes
Capped ? Yes

12. Notified Owner of need to fill & seal ?

Filled & Sealed Well(s) as needed?

13. Constructor / Supervisory Driller	Lic #	Date Signed
JVG		09-30-2004
Drill Rig Operator	**Lic or Reg #**	**Date Signed**
DB		09-30-2004

Well Construction Report
WISCONSIN UNIQUE WELL NUMBER QJ033

Drinking Water and Groundwater - DG/5
Department of Natural Resources, Box 7921
Madison WI 53707
Form 3300-077A

Property Owner: HILLESTAD, SHAWN			Phone #: (608)575-8899
Mailing Address: 137 E RICHARD APT #6			
City: OREGON	State: WI	Zip Code: 53575	
County: Dane	Co. Permit #: 19891	Notification #	Completed: 07-23-2002

1. Well Location
Town of RUTLAND
Fire # (if avail.)
Street Address or Road Name and Number
Subdivision Name | Lot # | Block #

Well Constructor (Business Name): RICHARD E BERKHOLTZ	Lic. #: 3	Facility ID # (Public Wells)	Latitude / Longitude in Decimal Degree (DD): °N °W
		Well Plan Approval #	Method Code: GPS008
Address: 6400 LAKE RD WINDSOR WI 53598-9717		Approval Date (mm-dd-yyyy)	NE SW / or Govt Lot #; Section: 28; Township: 5 N; Range: 10 E
Hicap Permanent Well #	Common Well #:	Specific Capacity: 0.3	

2. Well Type New Well
of previous unique well # constructed in
Reason for replaced or reconstructed well ?
NEW HOME

3. Well serves 1 # of
Private,potable
Heat Exchange____# of drillholes
Hicap Well ? No
Hicap Property ? No
Hicap Potable ?
Construction Type: Drilled

4. Potential Contamination Sources - ON REVERSE SIDE

5. Drillhole Dimensions and Construction Method

Dia. (in.)	From (ft.)	To (ft.)
9.25	Surface	62
6	62	144

Upper Enlarged Drillhole: Yes
Lower Open Bedrock: No
Rotary - Mud Circulation .....
Rotary - Air .....
Rotary - Air & Foam .....
Drill-Through Casing Hammer
Reverse Rotary
Cable-tool Bit ____in. dia...
Dual Rotary .....
Temp. Outer Casing ____in. dia
Removed? ____depth ft. (If NO explain on back side)

Geology Codes				8. Geology Type, Caving/Noncaving, Color, Hardness, etc...	From (ft.)	To (ft.)
-	-	C	S	SANDY CLAY	Surface	6
-	M	S	-	MEDIUM SAND	6	52
-	-	Y	C	SAND GRAVEL & CLAY	52	56
-	-	L	-	LIMESTONE	56	71
-	B	L	-	BROKEN LIMESTONE	71	79
-	-	L	-	LIMESTONE	79	144

6. Casing, Liner, Screen

Dia. (in.)	Material, Weight, Specification Manufacturer & Method of Assembly	From (ft.)	To (ft.)
6	STD STEEK PE 18.97# ASTMA-53 SAW-HILL	Surface	62
Dia. (in.)	Screen type, material & slot size	From (ft.)	To (ft.)

9. Static Water Level
36 ft. below ground surface

10. Pump Test
Pumping level 100 ft. below surface
Pumping at 20 GP M for 0.5 Hrs.
Pumping Method ?

11. Well Is
12 in. above grade
Developed ? Yes
Disinfected ? Yes
Capped ? Yes

7. Grout or Other Sealing Material
Method BRAIDEN HEAD-BENTONITE CIRCULA

Kind of Sealing Material	From (ft.)	To (ft.)	# Sacks Cement
NEAT CEMENT	Surface	62	16 S

12. Notified Owner of need to fill & seal ?
Filled & Sealed Well(s) as needed? No
NONE

13. Constructor / Supervisory Driller	Lic #	Date Signed
RB		
Drill Rig Operator	**Lic or Reg #**	**Date Signed**
MAB		07-24-2002

Well Construction Report
WISCONSIN UNIQUE WELL NUMBER QJ042

Drinking Water and Groundwater - DG/5
Department of Natural Resources, Box 7921
Madison WI 53707

Form 3300-077A

Property Owner: HILLESTAD, SHAWN	Phone #: (608)575-8899
Mailing Address: 137 E RICHARD APT 6	
City: OREGON	State: WI — Zip Code: 53575
County: Dane	Co. Permit #: 19891 — Notification # — Completed: 08-01-2002
Well Constructor (Business Name): RICHARD E BERKHOLTZ	Lic. #: 3 — Facility ID # (Public Wells)
Address: 6400 LAKE RD, WINDSOR WI 53598-9717	Well Plan Approval # — Approval Date (mm-dd-yyyy)
Hicap Permanent Well #	Common Well # — Specific Capacity: 0.4

1. Well Location

Fire # (if avail.)

Town of RUTLAND

Street Address or Road Name and Number: 4120 OLD STAGE RD

Subdivision Name — Lot # — Block #

Latitude / Longitude in Decimal Degree (DD): 42.8705 °N -89.3232 °W — Method Code: GCD013

NE SW or Govt Lot # — Section: 28 — Township: 5 N — Range: 10 E

2. Well Type Reconstruction

of previous unique well #: QJ033 constructed in: 2002

Reason for replaced or reconstructed well ?: NEW WELL HAD 12.6 NITRATE

Construction Type: Drilled

3. Well serves 1 # of

Private,potable

Heat Exchange____# of drillholes

Hicap Well ? No

Hicap Property ? No

Hicap Potable ?

4. Potential Contamination Sources - ON REVERSE SIDE

5. Drillhole Dimensions and Construction Method

Dia. (in.)	From (ft.)	To (ft.)
6	Surface	200
3.75	200	251

Upper Enlarged Drillhole — Lower Open Bedrock

- Rotary - Mud Circulation .....
- Rotary - Air .....
- Rotary - Air & Foam .....
- Drill-Through Casing Hammer
- Reverse Rotary
- Cable-tool Bit ____in. dia...
- Dual Rotary .....
- Temp. Outer Casing ____in. dia
  - Removed? ____depth ft. (If NO explain on back side)

Geology Codes				8. Geology Type, Caving/Noncaving, Color, Hardness, etc...	From (ft.)	To (ft.)
				EXISTING	Surface	144
		L		LIMESTONE	144	168
T	-	N	-	TAN SANDSTONE	168	220
T	H	N	-	TAN SANDSTONE WITH HARD RED LAYER	220	225
T	-	N	-	TAN SANDSTONE	225	251

6. Casing, Liner, Screen

Dia. (in.)	Material, Weight, Specification Manufacturer & Method of Assembly	From (ft.)	To (ft.)
4	STD STEEL PE 10.79 LBS SAWHILL	Surface	200
Dia. (in.)	Screen type, material & slot size	From (ft.)	To (ft.)

7. Grout or Other Sealing Material

Method: BRAIDEN HEAD BENTONITE

Kind of Sealing Material	From (ft.)	To (ft.)	# Sacks Cement
	Surface		
NEAT CEMENT	9	200	22 S

9. Static Water Level

75 ft. below ground surface

10. Pump Test

Pumping level 120 ft. below surface

Pumping at 20 GP M for 0.5 Hrs.

Pumping Method ?

11. Well Is

12 in. above grade

Developed ? Yes

Disinfected ? Yes

Capped ? Yes

12. Notified Owner of need to fill & seal ?

Filled & Sealed Well(s) as needed? No

NONE

13. Constructor / Supervisory Driller	Lic #	Date Signed
RB		08-05-2002
Drill Rig Operator	**Lic or Reg #**	**Date Signed**
MAB		08-05-2002

Well Construction Report
WISCONSIN UNIQUE WELL NUMBER NE031

Drinking Water and Groundwater - DG/5
Department of Natural Resources, Box 7921
Madison WI 53707

Form 3300-077A

Property Owner	HILL, ROBERT
Phone #	
Mailing Address	487 CENTER RD
City	STOUGHTON
State	WI
Zip Code	53589
County	Dane
Co. Permit #	16093
Notification #	
Completed	06-09-1999
Well Constructor (Business Name)	NIFFENEGGER WELL & PUMP INC
Lic. #	6295
Facility ID # (Public Wells)	
Address	902 2ND ST MONROE WI 53566
Well Plan Approval #	
Approval Date (mm-dd-yyyy)	
Hicap Permanent Well #	
Common Well #	
Specific Capacity	2.5

1. Well Location

Town of RUTLAND

Fire # (if avail.)

Street Address or Road Name and Number: 487 CENTER RD

Subdivision Name		Lot #	Block #
		2	

Latitude / Longitude in Decimal Degree (DD)				Method Code
42.8735 °N	-89.3112 °W			GCD013
NE	NE	Section	Township	Range
or Govt Lot #		28	5 N	10 E

2. Well Type New Well

of previous unique well # constructed in

Reason for replaced or reconstructed well ?

Construction Type: Drilled

3. Well serves 1 # of

Private,potable

Heat Exchange____# of drillholes

Hicap Well ? No

Hicap Property ? No

Hicap Potable ?

4. Potential Contamination Sources - ON REVERSE SIDE

5. Drillhole Dimensions and Construction Method

Dia. (in.)	From (ft.)	To (ft.)
8.75	Surface	41
6	41	120

Upper Enlarged Drillhole / Lower Open Bedrock

Yes — Rotary - Air .....

Rotary - Mud Circulation .....

Rotary - Air & Foam .....

Drill-Through Casing Hammer

Reverse Rotary

Cable-tool Bit ____in. dia...

Dual Rotary .....

Temp. Outer Casing ____in. dia

Removed? ____depth ft. (If NO explain on back side)

Geology Codes				8. Geology Type, Caving/Noncaving, Color, Hardness, etc...	From (ft.)	To (ft.)
T		C		BROWN CLAY	Surface	8
		Y	C	SAND, GRAVEL & CLAY	8	28
		L	S	SANDY LIMESTONE	28	120

6. Casing, Liner, Screen

Dia. (in.)	Material, Weight, Specification Manufacturer & Method of Assembly	From (ft.)	To (ft.)
6	STD. WT. ST. .280 WALL 18.97# PER FT PL END WELDED JTS. SAWHILL A53B ASTM	Surface	41
Dia. (in.)	Screen type, material & slot size	From (ft.)	To (ft.)

7. Grout or Other Sealing Material

Method TREMIE PIPE PUMPED

Kind of Sealing Material	From (ft.)	To (ft.)	# Sacks Cement
NEAT CEMENT GROUT	Surface	41	15 S

9. Static Water Level

21 ft. below ground surface

10. Pump Test

Pumping level 29 ft. below surface

Pumping at 20 GP M for 2 Hrs.

Pumping Method ?

11. Well Is

18 in. above grade

Developed ? Yes

Disinfected ? Yes

Capped ? Yes

12. Notified Owner of need to fill & seal ?

Filled & Sealed Well(s) as needed?

13. Constructor / Supervisory Driller	Lic #	Date Signed
RN		06-18-1999
Drill Rig Operator	Lic or Reg #	Date Signed

State of Wisconsin
Department of Natural Resources
Private Water Supply
Box 7921
Madison, Wisconsin 53707

NOTE:
White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

WELL CONSTRUCTOR'S REPORT
Form 3300–15 Rev. 2-79

0(

1. COUNTY: Dane

CHECK (✓) ONE: ☑ Town ☐ Village ☐ City

Name: Rutland

2. LOCATION: (SE, SW) ¼ Section or Gov't. Lot: NE, S.W. | Section: 28 | Township: 5N | Range: 10E

OR – Grid or Street No.: per kmf 4126 | Street or Road Name: Old Stage Rd

AND – If available subdivision name, lot & block No.:

3. NAME ☐ OWNER ☐ AGENT AT TIME OF DRILLING CHECK (✓) ONE: ~~Fred Hellberson~~ Frederick A. Halverson

ADDRESS: 3703 Nathan Hale Ct

POST OFFICE: Madison ZIP CODE: Wisc

4. **Distance in feet from well to nearest:** (Record answer in appropriate block)

Building	Sanitary Bldg. Drain		Sanitary Bldg. Sewer		Floor Drain Connected To:		Storm Bldg. Drain		Storm Bldg. Sewer	
	C.I.	Other	C.I.	Other	C.I. Sewer	Other Sewer	C.I.	Other	C.I.	Other
23										

Street Sewer		Other Sewers		Foundation Drain Connected to:			Sewage Sump		Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit	Manure Hopper or Retention or Pnuematic Tank
San.	Storm	C.I.	Other	Sewer		Sewage Sump	C.I.	Other				Seepage Pit	
				Clearwater Dr.		Clearwater Sump				None		Seepage Bed	
												Seepage Trench	

Privy	Pet Waste Pit	Pit: Nonconforming Existing		Subsurface Pumproom	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit	Earthen Manure Basin
		Well		Nonconforming Existing								
		Pump										
		Tank										

Temporary Manure Stack or Platform	Watertight Liquid Manure Tank or Basin	Manure Pressure Pipe	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Manure Storage Basin / Concrete Floor Only / Concrete Floor and Partial Concrete Walls	Other (Describe)

5. **Well is intended to supply water for:** House

6. **DRILLHOLE**

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
8	Surface	63			
6	63	162			

7. **CASING, LINER, CURBING AND SCREEN**

Dia. (in.)	Material, Weight, Specification Mfg. & Method of Assembly	From (ft.)	To (ft.)
6	Std Black Pipe, .280 Wall, Weld JTS, A-53	Surface	63

8. **GROUT OR OTHER SEALING MATERIAL**

Kind	From (ft.)	To (ft.)
mud	Surface	63

9. **FORMATIONS**

Kind	From (ft.)	To (ft.)
Sand gravel	Surface	5
clay	5	10
sand clay	10	22
sand	22	51
clay	51	62
limi rock	62	105
sand rock	105	162

10. **TYPE OF DRILLING MACHINE USED**

☐ Cable Tool
☐ Rotary-air w/drilling mud
☐ Rotary-w/drilling mud
☑ Rotary-hammer w/drilling mud & air
☐ Rotary-hammer & air
☐ Reverse Rotary
☐ Jetting with: ☐ Air ☐ Water

Well construction completed on Sept 28 19 81

11. **MISCELLANEOUS DATA**

Yield Test: 2 Hrs. at 20 GPM

Depth from surface to normal water level 38 Ft.

Depth of water level when pumping 80 Ft. Stabilized ☑ Yes ☐ No

Well is terminated 12 inches ☑ above ☐ below final grade

Well disinfected upon completion ☑ Yes ☐ No

Well sealed watertight upon completion ☑ Yes ☐ No

Water sample sent to Madison laboratory on Sept 29 19 81

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: 325 Sam Vanden Heuvel Jr Registered Well Driller

Business Name and Complete Mailing Address:
SAM'S ROTARY DRILLERS
ROUTE 2
RANDOLPH, WISCONSIN 53956

Well Construction Report
WISCONSIN UNIQUE WELL NUMBER XP379

Drinking Water and Groundwater - DG/5
Department of Natural Resources, Box 7921
Madison WI 53707

Form 3300-077A

Property Owner: PELEGRI, FRANCISCO		Phone #
Mailing Address: 4006 OLD STAGE RD		
City: BROOKLYN	State: WI	Zip Code: 53521

County	Co. Permit #	Notification #	Completed
Dane			07-21-2015

Well Constructor (Business Name)	Lic. #	Facility ID # (Public Wells)
NIFFENEGGER WELL & PUMP INC	6295	

Address: 902 2ND ST, MONROE WI 53566

Well Plan Approval #

Approval Date (mm-dd-yyyy)

Hicap Permanent Well # | Common Well # | Specific Capacity

3. Well serves 1 # of GEOTHERMAL HOLE
Loop(heat pump drillhole)
Heat Exchange____# of drillholes

Hicap Well ? No
Hicap Property ? No
Hicap Potable ?

1. Well Location

Town of RUTLAND

Fire # (if avail.)

Street Address or Road Name and Number: 4006 OLD STAGE RD

Subdivision Name | Lot # | Block #

Latitude / Longitude in Decimal Degree (DD): 42.8638 °N -89.3137 °W

Method Code: GPS008

SE SE or Govt Lot #	Section	Township	Range
	28	5 N	10 E

2. Well Type New Well
of previous unique well # constructed in

Reason for replaced or reconstructed well ?

Construction Type: Drilled

4. Potential Contamination Sources - ON REVERSE SIDE

5. Drillhole Dimensions and Construction Method

Dia. (in.)	From (ft.)	To (ft.)
6	Surface	170

Upper Enlarged Drillhole / Lower Open Bedrock

- Rotary - Mud Circulation .....
- Yes Rotary - Air ..... No
- Rotary - Air & Foam .....
- Drill-Through Casing Hammer
- Reverse Rotary
- Cable-tool Bit ____in. dia...
- Dual Rotary .....
- Yes Temp. Outer Casing 6in. dia
- Yes Removed? 32depth ft. (If NO explain on back side)

Geology Codes				8. Geology Type, Caving/Noncaving, Color, Hardness, etc...	From (ft.)	To (ft.)
-	-	Y	I	TOPSOIL, SAND, GRAVEL	Surface	30
-	-	L	N	LIMESTONE W/SANDSTONE SEAMS	30	170

6. Casing, Liner, Screen

Dia. (in.)	Screen type, material & slot size	From (ft.)	To (ft.)

7. Grout or Other Sealing Material

Method TREMIE PIPE PUMPED

Kind of Sealing Material	From (ft.)	To (ft.)	# Sacks Cement
BH20	Surface	170	13 S

9. Static Water Level

_____ ft. _____ground surface

11. Well Is

_____ in. _____Grade

10. Pump Test

Pumping level _____ ft. below surface

Pumping at _____ GP for _____ Hrs.

Pumping Method ?

Developed ?

Disinfected ?

Capped ?

12. Notified Owner of need to fill & seal ?

Filled & Sealed Well(s) as needed?

13. Constructor / Supervisory Driller	Lic #	Date Signed
JF		07-21-2015
Drill Rig Operator	Lic or Reg #	Date Signed
RN		07-21-2015

4a. Potential Contamination Sources Is the well located in floodplain ?

Type	Qualifier	Distance	Type	Qualifier	Distance
POWTS dispersal component (soil absorption unit or mound)	>	60	Building Overhang	>	50
			Septic or Holding, or POWTS Tank	>	50

Comment: 1 GEOTHERMAL HOLE; 13 SACKS CEMENT. LOOP SYSTEM THAT HORIZONTALLY DRILLED BY ANOTHER FIRM. GEOTHERMO CONNECT-MEQUON. THEY HIT ROCK ON LAST HOLE. NIFFENEGGER CAME IN & CONSTRUCTED HOLE. PERMISSION FROM R. CLARK TO CONSTRUCT. NO NOTIFICATION.

Water Quality Text:

Water Quantity Text:

Difficulty Text:

Created On: 09-08-2015 Created by: WELL CONST LOAD Updated On: 12-11-2019 Updated by: PARCEL_MATCH_LL_OK

Well Construction Report
WISCONSIN UNIQUE WELL NUMBER FY148

Drinking Water and Groundwater - DG/5
Department of Natural Resources, Box 7921
Madison WI 53707
Form 3300-077A

Property Owner: EUGSTEN, TOM	Phone #: (608)873-3822
Mailing Address: 4738 SCHUSTER	
City: OREGON	State: WI — Zip Code: 53575
County: Dane	Co. Permit #: W07930 — Notification # — Completed: 07-13-1993
Well Constructor (Business Name): SAMS ROTARY DRILLERS	Lic. #: 370 — Facility ID # (Public Wells)
Address: PO BOX 150 RANDOLPH WI 53956-0150	Well Plan Approval # — Approval Date (mm-dd-yyyy)
Hicap Permanent Well #	Common Well # — Specific Capacity: 0.7

1. Well Location
Town of RUTLAND
Fire # (if avail.)
Street Address or Road Name and Number: OLD STAGE
Subdivision Name — Lot # — Block #
Latitude / Longitude in Decimal Degree (DD): °N °W
Method Code: GPS008
NE SE or Govt Lot # — Section: 28 — Township: 5 N — Range: 10 E

2. Well Type New Well
of previous unique well # — constructed in
Reason for replaced or reconstructed well ?: HOME @ HOUSE BARN
Construction Type: Drilled

3. Well serves 1 # of
Private,potable
Heat Exchange____# of drillholes
Hicap Well ? No
Hicap Property ? No
Hicap Potable ?

4. Potential Contamination Sources - ON REVERSE SIDE

5. Drillhole Dimensions and Construction Method

Dia. (in.)	From (ft.)	To (ft.)
8	Surface	63
6	63	152

Upper Enlarged Drillhole — Lower Open Bedrock

- Yes — Rotary - Mud Circulation .....
- Yes — Rotary - Air .....
- Rotary - Air & Foam .....
- Drill-Through Casing Hammer
- Reverse Rotary
- Cable-tool Bit ____in. dia...
- Dual Rotary .....
- Temp. Outer Casing ____in. dia
  Removed? ____depth ft. (If NO explain on back side)

Geology Codes	8. Geology Type, Caving/Noncaving, Color, Hardness, etc...	From (ft.)	To (ft.)
C	CLAY	Surface	5
Y	SAND @ GRAVEL	5	45
Z	CLAY @ GRAVEL	45	60
L	LIMEROCK	60	152

6. Casing, Liner, Screen

Dia. (in.)	Material, Weight, Specification Manufacturer & Method of Assembly	From (ft.)	To (ft.)
6	STD BLACK PIPE .280 WALL, WELD JTS, A-53, SAWHILL	Surface	63
Dia. (in.)	Screen type, material & slot size	From (ft.)	To (ft.)

7. Grout or Other Sealing Material
Method

Kind of Sealing Material	From (ft.)	To (ft.)	# Sacks Cement
MUD @ CUTTINGS	Surface	63	

9. Static Water Level
35 ft. below ground surface

10. Pump Test
Pumping level 65 ft. below surface
Pumping at 20 GP M for 1 Hrs.
Pumping Method ?

11. Well Is
18 in. above grade
Developed ? Yes
Disinfected ? Yes
Capped ? Yes

12. Notified Owner of need to fill & seal ?
Filled & Sealed Well(s) as needed?

13. Constructor / Supervisory Driller	Lic #	Date Signed
SVG		07-21-1993
Drill Rig Operator	**Lic or Reg #**	**Date Signed**
STEK		07-21-1993

WELL CONSTRUCTOR'S REPORT

Wel–6

AUG 18 1971

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES
Box 450
Madison, Wisconsin 53701

WHITE COPY – DIVISION'S COPY
GREEN COPY – DRILLER'S COPY
YELLOW COPY – OWNER'S COPY

1. COUNTY: Dane

CHECK ONE: ☒ Town ☐ Village ☐ City

NAME: Rutland

2. LOCATION (Number and Street or ¼ section, section, township and range. Also give subdivision name, lot and block numbers when available.)

NE¼-NE¼-SW¼-SEC 28-R10E-T5N

3. OWNER AT TIME OF DRILLING

Dean George

4. OWNER'S COMPLETE MAIL ADDRESS

Rt. 1 Evansville, Wis.

5. Distance in feet from well to nearest: (Record answer in appropriate block)

x means none

BUILDING	SANITARY SEWER C. I.	SANITARY SEWER TILE	FLOOR DRAIN C. I.	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C. I.	WASTE WATER DRAIN TILE
10	50	X	X	X	X	X	X	X

CLEAR WATER DRAIN C. I.	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE
X	X	60	X	70	X	115	133	X	X

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)

X

6. Well is intended to supply water for:

Residence

7. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	20	6	20	130

8. CASING, LINER, CURBING, AND SCREEN

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
6	T&C New Black Stell 19.45 #'	Surface	62'2"

9. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Drill cuttings	Surface	20

10. FORMATIONS

Kind	From (ft.)	To (ft.)
Drift	Surface	2
Sand	2	10
Hardpan	10	40
Sand	40	60
Sandstone	60	96
Limerock	96	130

Well construction completed on May 20 1971

11. MISCELLANEOUS DATA

Yield test: 4 Hrs. at 50 GPM

Depth from surface to normal water level 22 ft.

Depth to water level when pumping 30 ft.

Well is terminated 10 inches ☒ above ☐ below final grade

Well disinfected upon completion ☒ Yes ☐ No

Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to Madison # 60696 laboratory on: May 24 1971

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, subsurface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE: Marvin A. Woldenberg Registered Well Driller

COMPLETE MAIL ADDRESS:
Jefferson Well Drilling
1207 South Main St.
Jefferson, Wis.

Please do not write in space below

COLIFORM TEST RESULT	GAS – 24 HRS.	GAS – 48 HRS.	CONFIRMED	REMARKS
3576				130 plot 574003

REV. 11–68

Well Construction Report
WISCONSIN UNIQUE WELL NUMBER YV926

Drinking Water and Groundwater - DG/5
Department of Natural Resources, Box 7921
Madison WI 53707
Form 3300-077A

Property Owner: COOK LIVING TRUST			Phone #
Mailing Address: W6193 RON HILL LN			
City: MONTICELLO	State: WI	Zip Code: 53570	
County: Dane	Co. Permit #: 00158	Notification #: 6873125904	Completed: 05-16-2018

1. Well Location
Town of RUTLAND
Fire # (if avail.)
Street Address or Road Name and Number: OLD STAGE RD
Subdivision Name: CSM 13824 | Lot #: 1 | Block #:

Well Constructor (Business Name): SAM'S WELL DRILLING INC	Lic. #: 370	Facility ID # (Public Wells):
Address: PO BOX 150 N9935 PLEASANT RD RANDOLPH WI 53956		Well Plan Approval #:
		Approval Date (mm-dd-yyyy):
Hicap Permanent Well #:	Common Well #:	Specific Capacity: 0.4

Latitude / Longitude in Decimal Degree (DD): 43.0097 °N -89.4517 °W | Method Code: GPS008

NE	SW	Section	Township	Range
or Govt Lot #		28	5 N	10 E

2. Well Type New Well
of previous unique well # constructed in
Reason for replaced or reconstructed well ?

3. Well serves 1 # of HOME
Private,potable
Heat Exchange____# of drillholes

Hicap Well ? No
Hicap Property ? No
Hicap Potable ? Yes

Construction Type: Drilled

4. Potential Contamination Sources - ON REVERSE SIDE

5. Drillhole Dimensions and Construction Method

Dia. (in.)	From (ft.)	To (ft.)
8.75	Surface	102
6	102	183

Upper Enlarged Drillhole		Lower Open Bedrock
Yes	Rotary - Mud Circulation	No
No	Rotary - Air	Yes
No	Rotary - Air & Foam	No
No	Drill-Through Casing Hammer	
No	Reverse Rotary	
No	Cable-tool Bit ____in. dia...	No
No	Dual Rotary	No
Yes	Temp. Outer Casing 10in. dia	
Yes	Removed? 3depth ft. (If NO explain on back side)	

Geology Codes				**8. Geology** Type, Caving/Noncaving, Color, Hardness, etc...	From (ft.)	To (ft.)
		X		X-SAND & CLAY	Surface	22
		Y		Y-SAND & GRAVEL	22	31
		L		L-LIMESTONE/DOLOMITE	31	42
	B	L	H	B-BROKEN L-LIMESTONE/DOLOMITE H-SHALEY	42	57
		L		L-LIMESTONE/DOLOMITE	57	183

6. Casing, Liner, Screen

Dia. (in.)	Material, Weight, Specification Manufacturer & Method of Assembly	From (ft.)	To (ft.)
6	STD BLK, PIPE, .280 WALL, A53B, TECHNOTUBI	Surface	102
Dia. (in.)	Screen type, material & slot size	From (ft.)	To (ft.)

7. Grout or Other Sealing Material
Method TREMIE PIPE - PUMPED

Kind of Sealing Material	From (ft.)	To (ft.)	# Sacks Cement
NEAT CEMENT GROUT	Surface	102	23 S

9. Static Water Level
33 ft. below ground surface

10. Pump Test
Pumping level 90 ft. below surface
Pumping at 20 GP M for 1 Hrs.
Pumping Method ? Test Pump

11. Well Is
24 in. above grade
Developed ? Yes
Disinfected ? Yes
Capped ? Yes

12. Notified Owner of need to fill & seal ? No
Filled & Sealed Well(s) as needed? No

13. Constructor / Supervisory Driller	Lic #	Date Signed
JVG	6026	05-16-2018
Drill Rig Operator	Lic or Reg #	Date Signed
JS	7377	05-16-2018

APPENDIX D

AGGREGATE PRODUCTS

AGGREGATE PRODUCTS LIST

Crushed Stone:

- 3/4" Clear Crushed Limestone
- 1 ¼" Clear Crushed Limestone
- 3" Clear Crushed Limestone
- 5" Clear Crushed Limestone
- ¾" Base Crushed Limestone
- 1 ¼" Base Crushed Limestone
- 3" Breaker Run
- Screenings
- Rip-Rap – Various Sizes

Recycled Products:

- 1 ¼" Crushed Asphalt
- 1 ¼" Crushed Concrete

Other Products:

- Bank Run Sand
- Screened Sand
- Topsoil
- Screened Topsoil
- Landscape Boulders
- Cobblestone – Various Sizes

APPENDIX E

WDNR PERMIT AND STORM WATER POLLUTION PREVENTION PLAN

B. GENERAL FACILITY INFORMATION

Name of Facility:

Nelson Pit

Facility Address:

437 Center Rd. Oregon WI. 53575

Facility Contact:

Name:

Kevin W Hahn

Title:

Managing Member

Telephone:

608-333-5607

Mailing Address:

3898 Old Stone Rd. Oregon, WI. 53575

Owner:

Kevin W Hahn

Operator: (if different from Owner)

Standard Industrial Classification (SIC) Code: 144 1420

Permit Information:

Permit Number: WI-00465150-4

Initial Date of Coverage: (Start Date on Cover Letter) 2 March 18

Number of Storm Water Outfalls: ONE

Receiving Water

Emergency Contact (preferably on-site):

Name:

Kevin W. Hahn

Telephone:

608-333-5607

C. OBJECTIVES

This storm water pollution prevention plan (SWPPP) covers the operations at

Nelson Pit 437 Center Rd. Oregon WI 53575

insert facility name

It has been developed as required under Section 3.3 of Wisconsin's Pollutant Discharge Elimination System (WPDES) general permit WI-0046515-4 for Nonmetallic Mining Operations in accordance with good engineering practices. This SWPPP describes this facility and its operations, identifies potential sources of storm water pollution at the facility, recommends appropriate best management practices (BMPs) or pollution control measures to reduce the discharge of pollutants in storm water runoff, and provides for periodic review of this SWPPP.

The primary goal of the storm water permit program is to improve the quality of surface waters and groundwaters by reducing the amount of pollutants potentially contained in the storm water runoff. Nonmetallic mining operations required by part 3.3 of industrial wastewwater WPDES permit WI-0046515-4 must prepare and implement a SWPPP for their facility.

The BMPs that are used on a site are dictated by the site conditions. However the following principles of erosion and sediment control are defined in the Wisconsin Construction Site Best Management Practices Handbook, and apply on NMM sites as well:

- Minimize disturbed areas
- Stabilize inactive disturbed areas
- Keep runoff velocities low
- Protect disturbed areas from stormwater runoff
- Retain sediment within the site boundaries
- Maintain the BMP practices selected

This SWPPP will:

- identify sources of storm water and non-storm water contamination to the storm water drainage system;
- identify and prescribe appropriate best management practices designed to prevent storm water contamination from occurring;
- identify and prescribe best management practices to reduce pollutants in contaminated storm water prior to discharge;
- prescribe actions needed either to bring non-storm water discharges under the WPDES permit or to remove these discharges from the storm drainage system;
- prescribe a schedule to ensure that the storm water management actions prescribed in the Storm Water Pollution Prevention Plan are carried out and evaluated on a regular basis.

D. STORM WATER POLLUTION PREVENTION TEAM

The storm water pollution prevention team is responsible for developing, implementing, maintaining, and revising this SWPPP. The members of the team are familiar with the management and operations of

Nelson Pit 437 Center Rd. Oregon WI. 53575

insert facility name

Identify by job title the person in charge of all aspects of SWPPP development and implementation. The member(s) of the team and their responsibilities (i.e. implementing, maintaining, record keeping, submitting reports, conducting inspections, employee training, conducting the annual compliance evaluation, testing for non-storm water discharges, signing the required certifications) are as follows:

Name	Title	Responsibility
Kevin W. Hahn	Owner	All Responsibilities
N/A		
N/A		

Employee Training

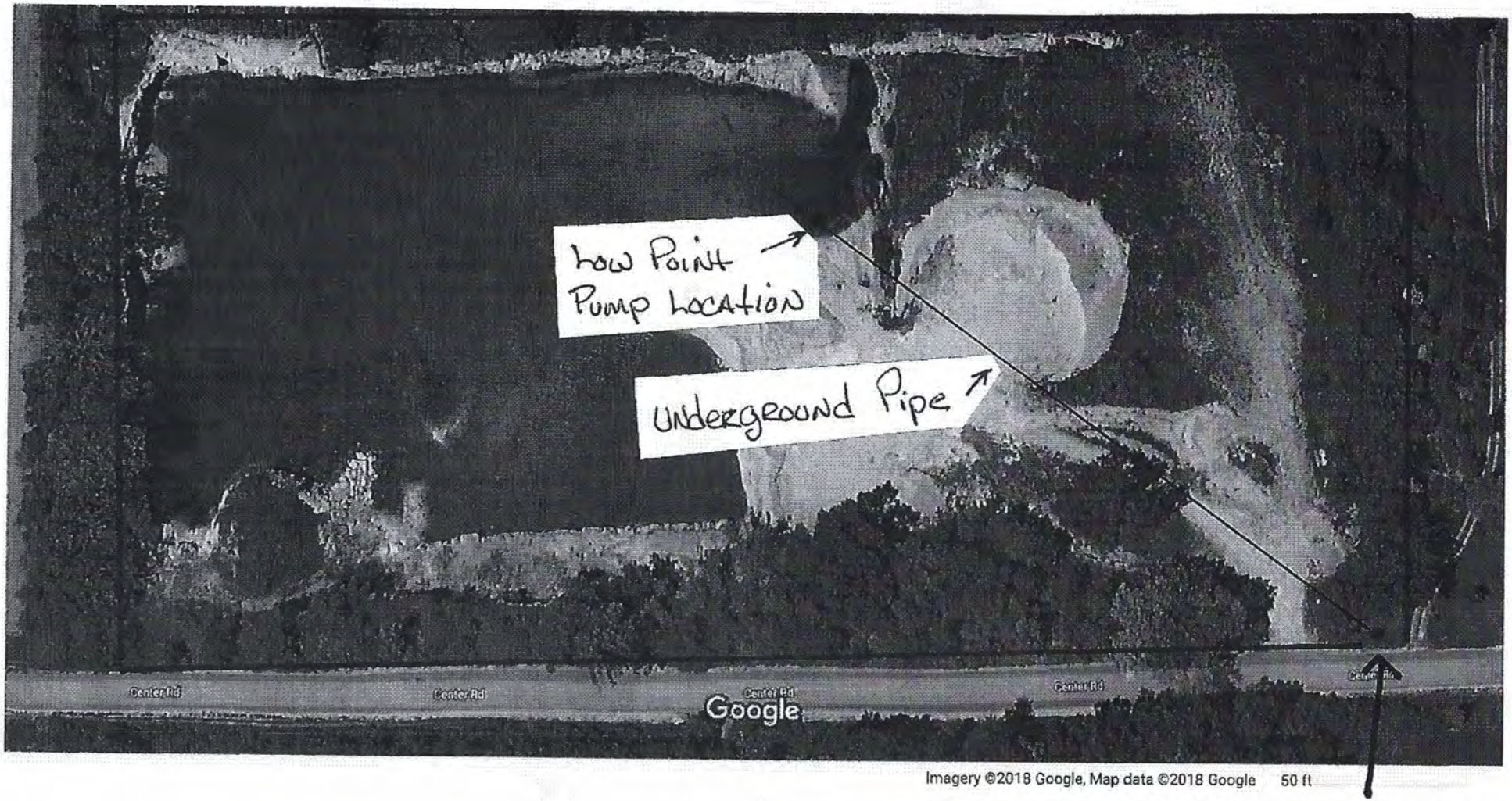
Employee training is a major component in ensuring the success of the facility SWPPP. The more knowledgeable all employees are about the facility's SWPPP and what is expected of them, the greater the chance that the plan will be successful.

The following is a description of the employee training programs to be implemented to inform appropriate personnel at all levels of responsibility of the components and goals of the SWPPP. (Examples: good housekeeping practices, spill prevention and response procedures, waste minimization practices, informing customers of facility policies, etc.)

Topic	Employees Included	Frequency
N/A		

Google Maps Oregon

Nelson Pit 437 Center Rd. Oregon, WI.



Discharge Point
into Ditch

- Annual Facility Site Compliance Inspection Report
- Stormwater Pollution Prevention Plan Summary

I. CERTIFICATION OF THE SWPPP

"I certify under penalty of law that the Storm Water Pollution Prevention Plan (SWPPP) required by WPDES General Permit No. WI-0046515-4 has been completed and retained on site at the facility, at the company headquarters, or any other location approved by the Department. The SWPPP and attachments were completed under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information contained in the plan. Based on my inquiry of the person, or persons, who manage the system, or those persons directly responsible for gathering the information; the information contained in the SWPPP is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for providing false information, including the possibility of fine and imprisonment. In addition, I certify under penalty of law that, based upon inquiry of persons directly under my supervision, to the best of my knowledge and belief, the SWPPP adheres to the storm water control provisions of WPDES General Permit No. WI-0046515-4 for the development and implementation of a Storm Water Pollution Prevention Plan and that the plan will be complied with."

Signature of Plan Preparer	*Date* 15 April 18
Kevin W. Hahn	Owner/Managing Member
Printed Name	
N/A	
Signature of Authorized Representative	*Date*
N/A	
Printed Name	*Title*

Name of Business Nelson Excavating and Son

Address 439 Center Road Oregon WI 53575

Facility Phone (608) 333 - 5607

Types of Work or Hazardous Substances Used Fuel and Oils

This spill plan is designed to handle the requirements for this system and associated hazardous substances. Update the spill plan if the hazardous substance inventory changes.

Spill Prevention

The following are general requirements for any hazardous substances stored or used at this facility.

General Requirements

- Ensure all hazardous substances are properly labeled.
- Store, dispense, and/or use hazardous substances in a way that prevents releases.
- Provide secondary containment when storing hazardous substances in bulk quantities (~55 g).
- Maintain good housekeeping practices for all chemical materials at the facility.
- Routine/Daily checks in the hazardous substance storage area to be performed by
- Monthly inspections of the hazardous substance storage area, secondary containment, and annular space (interior cavity of double wall tank) on any Above-ground Storage Tanks (AST) or Underground Storage Tanks (UST) need to be logged in this plan. See Appendix A - Inspection Log.

Facility Specific Requirements

- check fuel tanks and hoses for any leaks
- check machinery for any leaks

Spill Containment

The general spill response procedure at this facility is to stop the source of the spill, contain any spilled material and clean up the spill in a timely manner to prevent accidental injury or other damage. Small spills will be contained by site personnel if they are able to do so without risking injury. Spill kits are located at the following location(s). See attached site map:

Located in gen set semi trailer and scale house

Personnel will properly characterize spill cleanup materials before disposal.

- Immediately call **911** in the event of injury, fire or potential fire, or spill of a hazardous substance that gives rise to an emergency situation.
- If a spill has occurred, contact the following persons immediately:

Kevin Hahn	(Primary)	(___) 333-5607
Devin Hahn	(Secondary)	(___) 333-2387
911	(After Hours Emergency Contact)	(___) ___-911

- **In the event of a large spill, a properly trained employee should:**
  - Assess the area for any immediate dangers to health or safety (i.e. a wrecked car on fire). If any dangers are present, move away from the area, **call 911**.
  - Notify the primary and/or secondary contact from the list above and then continue your spill response. The primary contact should assess additional notification requirements (i.e. notify City of Tacoma, Ecology, etc. see Spill Reporting below).
  - Retrieve the spill kit from the closest location.
  - Assess the size of the leak and any immediate threat of the spill reaching the floor/storm drains or permeable surfaces in the area. If there is an immediate threat and there are no safety concerns, attempt to block the spill from coming in contact with the floor/storm drain or permeable surface. If no drain covers are available, try to use absorbent (cat litter) or sock booms or rags to stop the spill from getting into the drains or to any permeable surfaces.
  - If the spill can be contained with absorbent booms, deploy them around the spill. Use the booms to direct the spill away from any immediate hazards (i.e. a wrecked car).
  - If there is no immediate threat to the floor/storm drains or permeable surfaces, or after controlling the spill, try to plug or stop the leak, if possible. If applicable, put on protective gear (gloves, goggles, protective clothing, etc.) and plug the leak.
  - Once the spill has been contained and any immediate threat to storm drains or permeable surfaces has been minimized, contact the spill cleanup contractor and dispatch them to clean up the spill or commence spill cleanup procedures.

Plan Management

The primary contact or designee shall administer this plan and will be responsible for updating and including any required documentation.

Training

All personnel who may respond to any spill, need to be trained on the contents and procedures in this plan. Trained personnel will add their names and dates of training to the Training Log (see Appendix D). Only persons trained on this plan shall respond to a spill. If you are not trained and witness a spill, call or notify the primary and secondary contacts listed on Page 2 of this plan.

Spill Tracking

Any spills must be entered into the Spill Log (see Appendix C). If a large catastrophic spill occurs, attach additional pages to describe the event. Include known or possible causes, areas affected, and effectiveness of the cleanup. Include a review of the cleanup contractor and their procedures. For small spills, it is sufficient to fill out the Spill Log, and to take measures to prevent a repeat occurrence.

Facility Inspections

Routine inspections will be conducted daily during regular business hours. Daily inspections will include, at a minimum, a visual inspection of the hazardous substances containers and the area immediately adjacent to it for signs of a spill or leak. These inspections do not need to be logged unless a spill or leak is detected. Ideally, these inspections will be conducted by a manager or by regular employees.

Full site inspections will be conducted monthly by the primary contact or designee and, at a minimum, will include those items on the inspection form in Appendix B. If any item on the inspection form is found unacceptable, the inspection form will be attached to this plan. If all items are deemed acceptable; it is

Hazardous Substance Inventory

Major Groups Only

Hazardous Substance	Manufacturer	Quantity/Unit of Issue
Diesel Fuel	Insight FS	750 gallons on normal delivery
Oil and grease	Insight FS	various amounts on site

Appendix B Inspection Form

Acceptable	Unacceptable	
☐	☐	**Lids and Labels?** Have all lids and caps been returned to their proper place? Do all the containers still have labels?
☐	☐	**Evidence of Spills?** Is there any indication that a spill might have occurred? If so, was the spill properly cleaned up? Was there any spill kit materials used? Was the Spill Log filled out for that incident? Any housekeeping issues?
☐	☐	***For Tanks with alarm systems only*** **Any Alarms or Sensor issues?** Have there been any alarm conditions in the past month? If alarms have occurred, has the monitoring system been serviced by the manufacturer or an authorized service company? Is the system up and working at this time? Is the sensor working? Did you conduct a test of the alarm and the sensor? When was the last time the sensor was serviced?
☐	☐	**New Hazardous Substances?** Have any new chemical products been purchased? Do you have the MSDS for new products? Have you assessed how to store and handle this new product safely? Have you added the new hazardous substance to the inventory sheet in this plan? Is the container properly labeled?
☐	☐	**Spill Kit Complete?** Have any items been used from the spill kit? If items are missing, is there an associated entry in the Spill Log? Are there any items missing that are currently on order? Is the spill kit stored where it is supposed to be stored? Is there a sufficient supply of daily cleanup materials?
☐	☐	**Storm Drains?** Is there a buildup of sediment in the drain traps? Is there any evidence of drain clogging? Are the drain filters still intact? Any need replacing? Have they been replaced?
☐	☐	**Items Fixed?** Have all deficiencies previously noted been fixed or made acceptable?

List any issues, deficiencies, or failures in detail:

_____

_____

_____

Appendix C – Spill Log

Date of Spill	Location of Spill	Size of Spill (~ gal)	Prevention Measures Taken?	Spill Kit Materials Reordered?	Was the Spill Kit Adequate? (List any deficiencies, i.e. missing equipment, etc.)

Appendix D – Training Log

Employee's Printed Name	Signature	Date Completed

APPENDIX F

AGGREGATE PROCESSING AND CONSTRUCTION EQUIPMENT

Aggregate Processing and Construction Equipment

Example aggregate processing and construction equipment includes:

Site Development Equipment

Excavator
Bulldozer
Scraper
Backhoe
Haul truck

Processing and Material Transport Equipment

Crushing units (primary, secondary, tertiary)
Screening units
Conveyors/stackers
Front end loader
Skidsteer
Service truck(s)
Multi-axle dump truck
Scale
Generator
Water Pump

Environmental Control Equipment

Tractor & Seed Spreader
Roller

APPENDIX G

EMISSION CONTROL PLAN

Emission Control Plan
For
Nonmetallic Mineral Processing

INTRODUCTION

Nelson Excavating and Son LLC realizes the need for a comprehensive and consistent company policy that outlines control measures, activities, and management options that contribute to a reduction in fugitive emissions from crushing, processing, and transporting of aggregates at nonmetallic mineral locations. This plan specifies potential fugitive emissions sources, appropriate control options, and operator responsibilities for maintaining compliance.

1. POTENTIAL FUGITIVE EMISSION SOURCES

a. Transport of Material from Working Face to the Crusher
b. Crushing Operations
c. Screening Operations
d. Conveying of Aggregate Products
e. Stockpiling and Stockpile Maintenance
f. Truck Transport of Final Products
g. Total Facility

2. FUGITIVE EMISSIONS CONTROL OPTIONS

a. Water Spray Applications
b. Shrouding
c. Chemical Dust Suppressants Applications
d. Drop Height Management
e. Site Traffic Speed Control
f. Timing Management
g. Climatic Influence
h. Paving / Sweeping

3. RESPONSIBILITIES

a. Maintain Control Equipment in Operable Condition
b. Evaluate Fugitive Emission and Need for Control Application
c. Maintain Access to Water sources and Needed
d. Enforce Speed Limits on Process Vehicular Traffic
e. Utilize Management Options

4. POTENTIAL FUGITIVE EMISSIONS SOURCES AND MANAGEMENT CONTROLS

a. Transport of Material from the Working Face to the Primary Crusher - Loader traffic from the primary crusher to the working face may create excess fines in the tire lanes when surface moisture conditions are dry. Loader operators should scrape and replace traffic lane aggregates when necessary to reduce surface fines. Water captured in the loader bucket may additionally be used to maintain control of fugitive emissions.

b. Crushing Operations – Each reduction phase of the crushing process has the potential to generate fugitive emissions. Primary crushing typically generates the least emissions, while each successive reduction has a greater potential for release. Each facility or crushing spread has spray equipment on site, including pumps, hose, spray nozzles, and spare parts. Spray nozzle location and water application rate is determined by the operator to provide maximum control under situational circumstances. The nozzle or nozzles may be located in one crusher or all crushers at the facility, depending on the level of needed control.

c. Screening Operations – Screening operations may generate fugitive emissions and are particularly susceptible to wind and low moisture conditions. The initial screen may have adequate material moisture for good emissions control in most circumstances, but as with the reduction phase, each successive screening operation has an increased potential for emissions, with decreased material moisture content and increased fines. Water addition during crushing typically exhibits the best control for screening operations. When water applications are ineffective, shrouding may be added to the screen units to minimize wind influence on the screen face.

d. Conveying of Aggregate Materials – Conveying during the processing of aggregates exhibits the least potential for fugitive emissions of all the processes at a facility. The drop distance or transfer points between processes and conveyors provide the most opportunity for emissions, but are typically the easiest to control. Wind and /or low moisture conditions may be abated by water application, shrouding of the transfer point, enclosure hoods, and boots, and minimizing the drop height between transfer points. For

normal operations, applications of a single management tool may be very effective in controlling emissions. Extreme conditions of wind and low aggregate moisture may necessitate the use of two or more of the available control options to provide adequate emissions control.

e. Stockpiling and Stockpile Maintenance – Stockpiling operations at crushing facilities consist of placing aggregates in storage piles with stackers. Stackers are typically adjustable, so drop height to the pile can be controlled as with other conveyors. Product transfer exhibits the greatest amount of fugitive emissions. To minimize emissions, travel roads may be sprayed with water or a chemical dust suppressant for longer lasting control. Scraping and application of new aggregate can also be effective in controlling fugitive emissions from this area of the operation.

   Fugitive emissions from stockpiles are highly dependent on aggregate gradation, weather, location, stockpile age, and amount of loading face activity. Aged stockpiles generally exhibit lower fugitive emissions than fresh crush aggregate materials. In areas where one or more of the listed influences are responsible for emissions above acceptable levels, water applications to the stockpile exterior can provide adequate control. Intermittent applications may be necessary when emission conditions are persistent. Orienting the working face to avoid crosswinds can also be an effective management tool for lowering emissions.

f. Truck Transport of Final Materials – Truck traffic in the area of crushing operations has the potential to generate excessive surface fines on haul roads. While climatic and situational circumstances can contribute to effective controls on a short-term basis, other more intensive and continuous practices are usually required to maintain control of fugitives from this source. Paving, sweeping, watering, chemical application, and speed controls are the most effective options for controlling fugitive emissions from truck traffic. Any one or more of these management options may be incorporated into routine operations to provide continuous benefit.

g. Total Facility - Minimizing the emissions from fugitive sources at a crushing and processing facility requires a commitment of resources from top-level management, knowledge of potential contributing factors on the part of operations level personnel, and a common-sense application of available management options to provide significant control of fugitive emissions from crushing operations. The crushing operations foreman is trained to recognize state and federal opacity limits for various processes, continually evaluate operating conditions and resulting opacities, and apply appropriate controls to provide compliant operation.

5. FUGITIVE EMISSIONS CONTROL OPTIONS

a. Water Spray Applications – Water may be added directly to aggregate product with spray nozzles at any phase of the production cycle. Each facility is equipped with adequate equipment to make multiple-point applications of water if needed. The person responsible for plant operations decides where application affords the best control efficiency for current conditions. In addition to material control, the plant foreman is responsible for water application to site roads and stockpiles as necessary to maintain acceptable limits.

b. Shrouding – Shrouds may be constructed and maintained on any process equipment to minimize emissions. Shrouds used for this purpose must meet MSHA safety standards.

c. Chemical Dust Suppressant Applications – For climatic conditions where natural moisture is deficient and traffic volume is a contributing emissions source, the application of persistent controls such as calcium chloride or forest product resins may be necessary to provide longer lasting effective control. Applications may be supplemented with truck-applied water as needed.

d. Drop Height Management – The facility foreman is responsible for minimizing drop height at all material transfer points, including stacker and loading operations.

e. Site Traffic Speed Control - Facility foreman or company responsible official enforces appropriate speed limit in the production area. Speed limit determination is influenced by site-specific conditions and may be lowered at the foremen's discretion, to provide greater control influence.

f. Timing Management – Company officials may schedule processing or blasting in a particular location to take advantage of optimum precipitation cycles, such as in the spring. While this option is variable, it can provide significant benefit in problematic geologic formations or urban locations.

g. Paving /Sweeping – Haul and access roads at some locations receive heavy traffic volume and may generate road surface fines in unmanageable quantity. For these extreme conditions, paving with hot-mix asphalt, recycled asphalt pavement and/or sweeping may be helpful in reducing emissions on an ongoing basis. More intensive management practices such as these are normally supplemented with water spray or chemical suppressants to provide maximum emissions reduction.

APPENDIX H

DANE COUNTY STANDARDS AND SIMPLIFIED RESPONSES

Dane County Standards for Conditional Use Permits

1. The establishment maintenance or operation of the conditional use will not be detrimental to or endanger the public health, safety, comfort or general welfare.

Extraction will continue to operate intermittently as it has in the past to fulfill local demand for construction aggregate products as it has in the past. Safety precautions, including a 4' high fence and locking gate around the perimeter of the quarry, will be maintained. In addition, operational and engineering controls have been developed as part of the conditional use permit application process. These include detailed plans for safety, aesthetics, noise abatement, emission control, blasting, storm water pollution prevention, reclamation, and the control of noxious weeds. In addition, the site will be operated in compliance with all Federal MSHA, State of Wisconsin, Dane County, and Town Rutland requirements.

2. The uses, values, and enjoyment of other property in the neighborhood for purposes already permitted shall be in no foreseeable manner substantially impaired or diminished by establishment, maintenance or operation of the conditional use.

The existing quarry has been in operation since1950 to supply local demand for stone products; continued operation of the quarry will not devalue or interfere with the enjoyment of the surrounding properties. The existing quarry is surrounded by agricultural land, and obstructed from view on all four sides. The site will continue to be accessed from the entrance drive on Center Road. Unless there is a local delivery, no traffic will be routed onto Old Stage Road.

Portable equipment will be used as needed to drill, blast, crush and stockpile material. Best management practices outlined in the operation plan for the site will be used to reduce noise and control dust.

3. The establishment of the conditional use will not impede the normal and orderly development and improvement of the surrounding property for uses permitted in the district

According to the Town of Rutland Comprehensive Plan (March 6, 2007), preserving the rural character of the area is a priority. The site is located in a rural area. Operations will occur incrementally to preserve farmland. When the mineral resources at the site have been depleted, the site will be reclaimed to a freshwater lake surrounded by farm fields as outlined in an approved reclamation plan for the site.

4. Adequate utilities, access roads, drainage and other necessary site improvements have been or are being made to accommodate the conditional use.

The operation plan for the site identifies access roads and drainage for the site. The site will be accessed from the existing (north) quarry entrance on Center Road. An additional entrance will be created to access the expansion property to the south. The driveways will be will be protected with recycled asphalt, with seeding and erosion control along the side slopes. Operations will comply with permits issued by Wisconsin DNR and Dane County for erosion control and storm water pollution prevention.

5. Adequate measures have been or will be taken to provide ingress and egress so designed as to minimize traffic congestion in the public streets.

The quarry will be serviced by the existing north driveway on Center Road. Traffic on this section is light and offers easy access to US 14. The existing driveway has adequate room to facilitate turning into and out of the property. A stop sign will be erected to signal exiting trucks to stop prior to turning onto Center Road.

6. That the conditional use shall conform to all applicable regulations of the district in which it is located.

The exisiting quarry and proposed expansion is located in FP-35 (General Farmland Preservation) Zoning District. Nonmetallic mineral extraction is permitted in areas designated FP-35 through the issuance of a Dane County conditional use permit (CUP). Kevin Hahn will operate the quarry in compliance with the CUP, as well as all Federal MSHA, State of Wisconsin, Dane County, and Town of Rutland requirements.

7. The conditional use is consistent with the adopted town and county comprehensive plans.

The Town of Rutland has established Agricultural Preservation Districts as a means of preserving agricultural lands and rural character. The operation of the quarry is consistent with the adopted Town of Rutland Comprehensive (2007), and Dane County Zoning, FP-35 (General Farmland Preservation) which seeks to limit the density of residential development.

If the conditional use is located in a Farmland Preservation (FP) Zoning district, the conditional use is subject to the following additional standards found in section 10.220(1):

1. Explain how the use and its location in the Farmland Preservation Zoning District are consistent with the purposes of the district:

   Farmland Preservation Districts helps local government preserve farmland and minimize land use conflicts. The operation of the existing quarry is compatible with these purposes. Areas not used directly for quarrying activities will be maintained for agricultural production.

2. Explain how the use and its location in the Farmland Preservation Zoning district are reasonable and appropriate, considering alternative locations:

Aggregates can only be extracted where they occur in nature close to the surface, and the raw materials for aggregate production are not located in all areas. The aggregates at the site are accessible, and tested to meet State specifications for quality. Quarry operation is compatible with agricultural operations for many reasons; both:

- are reliant upon the geology and quality of native earth materials,
- are seasonal in nature,
- involve harvesting of resources using heavy equipment,
- are better suited to areas of low population, and
- require safe and efficient transportation access to ensure products make it to their market.

Given these reasons, extraction is both reasonable and appropriate for this location.

3. Explain how the use is reasonably designed to minimize the conversion of land from agricultural use or open space use:

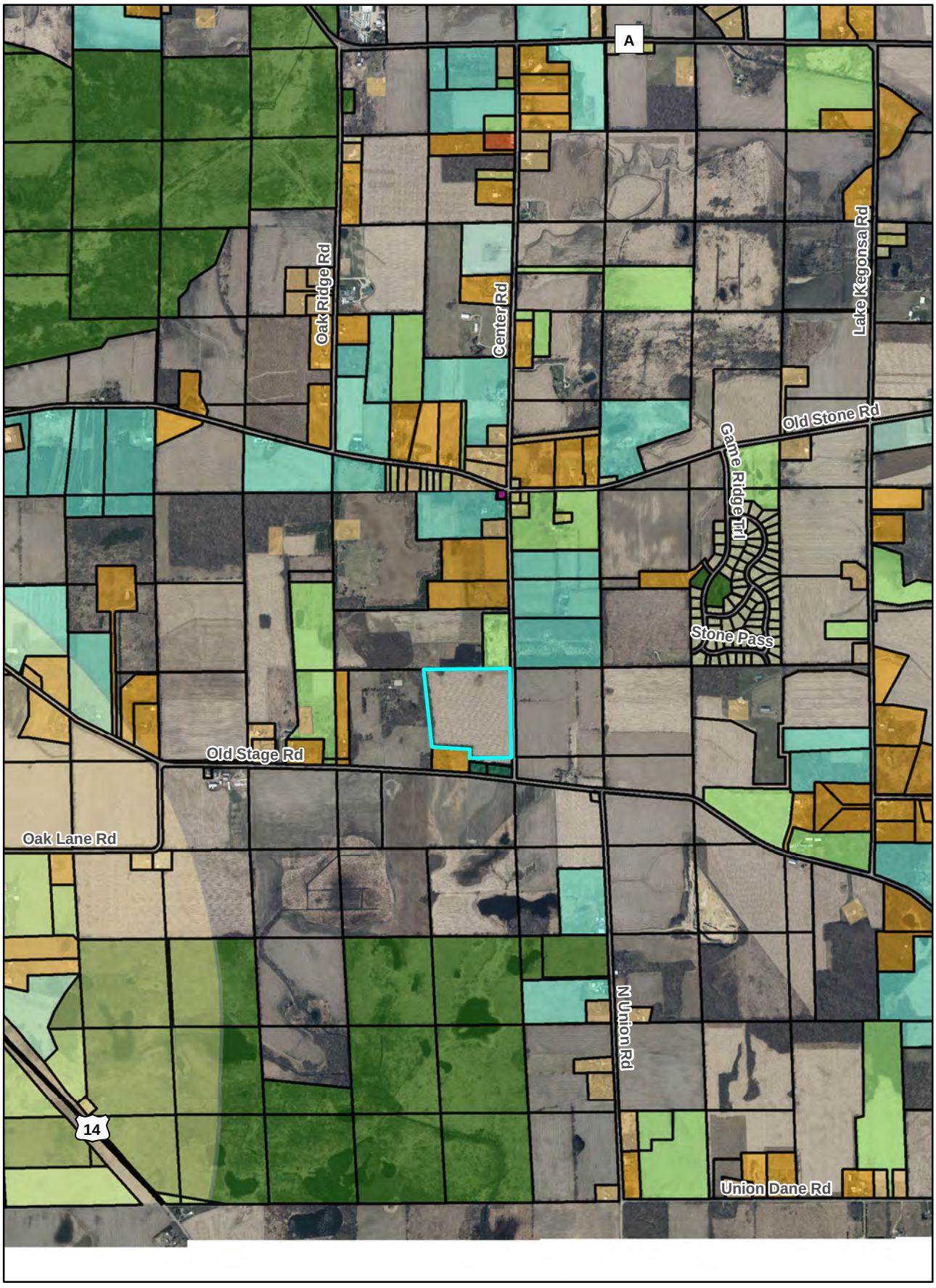
The site will be developed incrementally to preserve farmland as described in the operation plan for the site.

4. Explain how the use does not substantially impair or limit the current or future agricultural use of surrounding parcels zoned for agricultural use:

The site will continue to be utilized for agricultural production. After the resource is depleted, areas along the perimeter of the excavation will be returned to farmland.

5. Explain how construction damage to land remaining in agricultural use is minimized and repaired, to the extent feasible.

Construction damage to land remaining in agricultural production will be minimized by the utilization of dedicated haul routes onto and through the property. Trucks and excavation equipment will not be allowed onto agricultural fields outside the CUP boundary.



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Neighborhood Plan