

Dane County Conditional Use Permit Application

Application Date	C.U.P Number
10/27/2020	DCPCUP-2020-02509
Public Hearing Date	
01/26/2021	

OWNER INFORMATION	AGENT INFORMATION
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OWNER NAME NOTSTAD LIVING TR, JAMES O	Phone with Area Code	AGENT NAME JEFF FURSETH, FOREVER SANDFILL & LIMESTONE	Phone with Area Code (608) 884-9105
BILLING ADDRESS (Number, Street) 5217 TONYAWATHA TRL		ADDRESS (Number, Street) 353 HAUGEN ROAD	
(City, State, Zip) MADISON, WI 53716		(City, State, Zip) EDGERTON, WI 53534	
E-MAIL ADDRESS flywisconsin@hotmail.com		E-MAIL ADDRESS dispatch@halversoncompanies.com	

ADDRESS/LOCATION 1	ADDRESS/LOCATION 2	ADDRESS/LOCATION 3
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ADDRESS OR LOCATION OF CUP	ADDRESS OR LOCATION OF CUP	ADDRESS OR LOCATION OF CUP
east I 39/90 between COUNTY HIGHWAY B AND CHURCH ROAD		
TOWNSHIP CHRISTIANA	SECTION 29	TOWNSHIP
		SECTION
PARCEL NUMBERS INVOLVED	PARCEL NUMBERS INVOLVED	PARCEL NUMBERS INVOLVED
0612-291-9500-0	---	---

CUP DESCRIPTION

MINERAL EXTRACTION

DANE COUNTY CODE OF ORDINANCE SECTION	ACRES
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10.222(3)(c)	54
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DEED RESTRICTION REQUIRED? <input type="checkbox"/> Yes <input type="checkbox"/> No Applicant Initials _____	Inspectors Initials SSA1	SIGNATURE:(Owner or Agent) <hr/> PRINT NAME: <hr/> DATE: <hr/>
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SEE REVISED

Dane County Conditional Use Permit Application

Application Date	C.U.P Number
09/22/2020	DCPCUP-2020-02509
Public Hearing Date	
12/22/2020	

OWNER INFORMATION		AGENT INFORMATION	
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OWNER NAME NOTSTAD LIVING TR, JAMES O	Phone with Area Code	AGENT NAME JEFF FURSETH, FOREVER SANDFILL & LIMESTONE	Phone with Area Code (608) 884-9105
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PARCEL NUMBERS INVOLVED		PARCEL NUMBERS INVOLVED		PARCEL NUMBERS INVOLVED	
0612-291-9500-0		---		---	

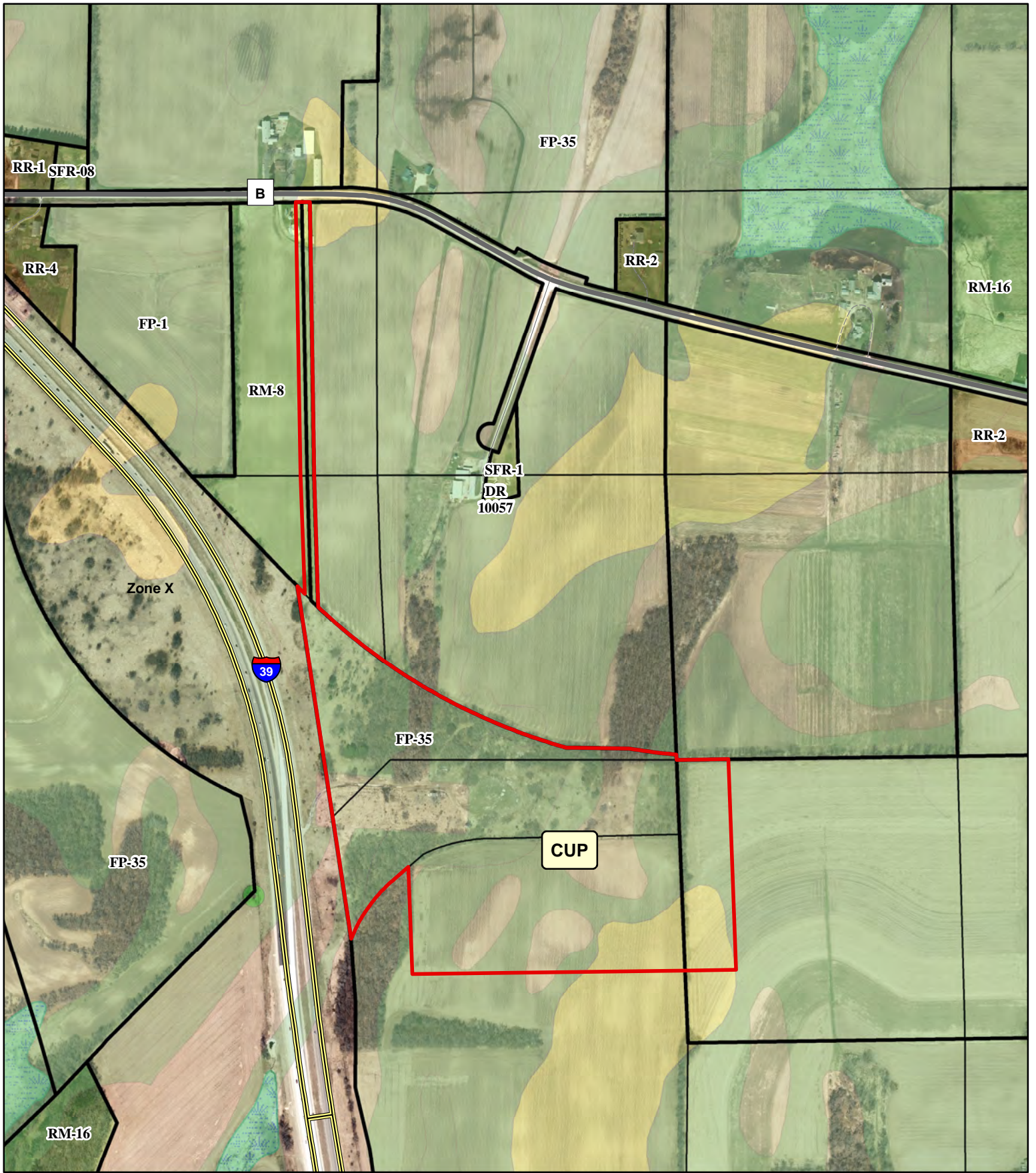
CUP DESCRIPTION

MINERAL EXTRACTION





DANE COUNTY CODE OF ORDINANCE SECTION	ACRES
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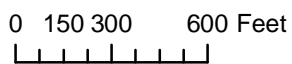
10.222(3)(c)	54
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DEED RESTRICTION REQUIRED? <input type="checkbox"/> Yes <input type="checkbox"/> No	Inspectors Initials SSA1	SIGNATURE:(Owner or Agent) 
Applicant Initials _____		PRINT NAME: Jeff Furseth
		DATE: 9-24-20



Legend

- | | |
|---|---|
|  Wetland | Significant Soils |
|  Floodplain |  Class 1 |
| |  Class 2 |



CUP 02509
NOTSTAD LIVING TR,
JAMES O

September 15, 2020

Roger Lane, Dane County Zoning Administrator
Dane County Planning Department
Room 116, City-County Building
Madison, WI 53703

Town Board, c/o Town Clerk
Town of Christiana
773 Koshkonong Road
Cambridge WI 53523

**Re: Forever Sandfill & Limestone Inc.
Conditional Use Permit Application for Nonmetallic Mineral Extraction**

Dear Representatives,

Forever Sandfill & Limestone, Inc. (FSF&L) has leased the Wrigley Field Quarry located east of US 39/90 between County Road B and East Church Road for the purpose of commercial sale.

The site was initially opened in 2017 to supply material for US 39/90 improvements, and is considered an important source of construction aggregates due to the material's quality, accessibility from the surface, and location along major transportation corridors (CTH B, STH 73 and US 39/90).

An application packet for a conditional use permit (CUP) to extract dolomite from the site is enclosed. The packet includes a description of the proposed operation and environmental controls, along with a summary of Dane County's standards for CUPs.

Thank you for your review time and expertise. Please contact me at (608) 884-9100 if you have any questions.

Sincerely,

Jeff Furseth
Forever Sandfill & Limestone

Enclosures:

- Dane County CUP Application Checklist
- Operation and Environmental Control Plan
- Standards of a CUP



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:	Agent Name:
Address (Number & Street):	Address (Number & Street):
Address (City, State, Zip):	Address (City, State, Zip):
Email Address:	Email Address:
Phone#:	Phone#:

SITE INFORMATION

Township:	Parcel Number(s):	
Section:	Property Address or Location:	
Existing Zoning:	Proposed Zoning:	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):	Is this application being submitted to correct a violation? Yes <input type="checkbox"/> No <input type="checkbox"/>
Provide a short but detailed description of the proposed conditional use:	

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.

<input type="checkbox"/> Complete attached information sheet for standards	<input type="checkbox"/> Site Plan drawn to scale	<input type="checkbox"/> Detailed operational plan	<input type="checkbox"/> Written legal description of boundaries	<input type="checkbox"/> Detailed written statement of intent	<input type="checkbox"/> 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: _____

Date: _____

STANDARDS FOR CONDITIONAL USE PERMITS

Applicants must provide adequate evidence demonstrating to the Town and Dane County Zoning & Land Regulation Committee that the proposed conditional use satisfies the following 8 standards for approval, along with any additional standards specific to the applicable zoning district or particular use found in sections [10.220\(1\)](#) and [10.103](#) of the code.

Please explain how the proposed land use will meet the following standards (attach additional pages, if necessary):

- | |
|---|
| 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. |
| 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. |
| 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. |
| 4. Adequate utilities, access roads, drainage and other necessary site improvements have been or are being made to accommodate the conditional use. |
| 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. |
| 6. That the conditional use shall conform to all applicable regulations of the district in which it is located. |
| 7. The conditional use is consistent with the adopted town and county comprehensive plans. |
| 8. 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). Attach additional pages, if necessary. <ul style="list-style-type: none">• Explain how the use and its location in the Farmland Preservation Zoning District are consistent with the purposes of the district:
• Explain how the use and its location in the Farmland Preservation Zoning district are reasonable and appropriate, considering alternative locations:
• Explain how the use is reasonably designed to minimize the conversion of land from agricultural use or open space use:
• Explain how the use does not substantially impair or limit the current or future agricultural use of surrounding parcels zoned for agricultural use:
• Explain how construction damage to land remaining in agricultural use is minimized and repaired, to the extent feasible: |

WRITTEN STATEMENT OF INTENT AND OPERATIONS PLAN

Applicants must provide a detailed written statement of intent describing the proposed conditional use along with an operational plan that explains how the conditional use will be operated. Please use the form below and provide responses, as applicable, to your proposed conditional use. Attach additional pages, if necessary.

Describe in detail the proposed conditional use. Provide the specific location of the use(s), type of equipment used, planned property improvements, including description / size of existing or proposed new buildings to be used, and any other relevant information. For existing or proposed commercial operations, provide the name of the business and describe the nature and type of business activity.
List the proposed days and hours of operation.
List the number of employees, including both full-time equivalents and maximum number of personnel to be on the premises at any time.
List any anticipated noise, odors, dust, soot, runoff or pollution associated with the conditional use, along with any proposed measures that will be taken to mitigate impacts to neighboring properties.
Describe any materials proposed to be stored outside and any activities, processing or other operations taking place outside an enclosed building.
For proposals involving construction of new facilities and/or infrastructure, describe, as applicable, any measures being taken to ensure compliance with county stormwater and erosion control standards under Chapter 11 of Chapter 14 , Dane County Code.
List and describe existing or proposed sanitary facilities, including adequate private onsite wastewater treatment systems, associated with the proposed conditional use. For uses involving domestic pets or livestock, list and describe measures taken to address manure storage or management.
List and describe any existing or proposed facilities for managing and removal of trash, solid waste and recyclable materials.
Describe anticipated daily traffic, types and weights of vehicles, and any provisions, intersection or road improvements or other measures proposed to accommodate increased traffic.
Provide a listing of any hazardous, toxic or explosive materials to be stored on site, and any spill containment, safety or pollution prevention measures.
Describe any existing or proposed outdoor lighting along with any measures that will be taken to mitigate light-pollution impacts to neighboring properties. The Zoning Administrator may require submittal of a photometric plan for outdoor lighting if deemed necessary to determine potential impacts to neighbors.
Describe any existing or proposed signage, including size, location, and materials, consistent with the county's sign ordinance found in s. 10.800 .
Briefly describe the current use(s) of the property on which the conditional use is proposed.
Briefly describe the current uses of surrounding properties in the neighborhood.

APPLICATION CHECKLIST FOR A CONDITIONAL USE PERMIT

A scaled site plan and detailed operations plan must be submitted with your Conditional Use Permit application. Please use the checklist below to ensure you are submitting all required information applicable to your request. Please attach to your application form the required maps and plans listed below, along with any additional pages.

SCALED SITE PLAN. Show sufficient detail on 11" x 17" paper. Include the following information, as applicable:

- Scale and north arrow.
- Date the site plan was created.
- Existing subject property lot lines and dimensions.
- Existing and proposed wastewater treatment systems and wells.
- All buildings and all outdoor use and/or storage areas, existing and proposed, including provisions for water and sewer.
- All dimension and required setbacks, side yards and rear yards.
- Location and width of all existing and proposed driveway entrances onto public and private roadways, and of all interior roads or driveways.
- Location and dimensions of any existing utilities, easements or rights-of-way.
- Parking lot layout in compliance with s. [10.102\(8\)](#).
- Proposed loading/unloading areas.
- Zoning district boundaries in the immediate area. All districts on the property and on all neighboring properties must be clearly labeled.
- All relevant natural features, including navigable and non-navigable waters, floodplain boundaries, delineated wetland areas, natural drainage patterns, archeological features, and slopes over 12% grade.
- Location and type of proposed screening, landscaping, berms or buffer areas if adjacent to a residential area.
- Any lighting, signs, refuse dumpsters, and possible future expansion areas.

NEIGHBORHOOD CHARACTERISTICS. Describe existing land uses on the subject and surrounding properties:

- Provide a brief written statement describing the current use(s) of the property on which the conditional use is proposed.
- Provide a brief written statement documenting the current uses of surrounding properties in the neighborhood.

OPERATIONS PLAN AND NARRATIVE. Describe in detail the following characteristics of the operation, as applicable:

- Hours of operation.
- Number of employees, including both full-time equivalents and maximum number of personnel to be on the premises at any time.
- Anticipated noise, odors, dust, soot, runoff or pollution and measures taken to mitigate impacts to neighboring properties.
- Descriptions of any materials stored outside and any activities, processing or other operations taking place outside an enclosed building.
- Compliance with county stormwater and erosion control standards under [Chapter 11](#) of [Chapter 14](#), Dane County Code.
- Sanitary facilities, including adequate private onsite wastewater treatment systems and any manure storage or management plans approved by the Madison and Dane County Public Health Agency and/or the Dane County Land and Water Resources Department.
- Facilities for managing and removal of trash, solid waste and recyclable materials.
- Anticipated daily traffic, types and weights of vehicles, and any provisions, intersection or road improvements or other measures proposed to accommodate increased traffic.
- A listing of hazardous, toxic or explosive materials stored on site, and any spill containment, safety or pollution prevention measures taken.
- Outdoor lighting and measures taken to mitigate light-pollution impacts to neighboring properties.
- Signage, consistent with section [10.800](#).

ADDITIONAL MATERIALS. Additional information is required for certain conditional uses listed in s. [10.103](#):

- Agricultural entertainment, special events, or outdoor assembly activities anticipating over 200 attendees must file an [event plan](#).
- [Domestic pet](#) or [large animal boarding](#) must provide additional information in site and operations plans.
- Communication towers must submit additional information as required in s. [10.103\(9\)](#).
- Farm residences proposed in the FP-35 district must submit additional information as required in s. [10.103\(11\)](#).
- Mineral extraction proposals must submit additional information as required in s. [10.103\(15\)](#).

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.

The quarry will continue to operate intermittently as it has in the past to fulfill local demand for construction aggregate products. 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 Christiana 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 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 set back more than 1,000 feet from existing homes and local roads. In addition, the quarry excavation is obstructed from view on all four sides: a berm to the west; trees to the north and east, and land area and topography hides the quarry to the south.

The site will be accessed from the entrance drive on CTH B; no traffic will be routed onto Church Road. Portable equipment will be brought in as needed (approximately 2-to-3 times per year) 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

The site is located in a rural area along the I-39/90 corridor. 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 the 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 utilities, access roads, and drainage for the site. The site will be accessed from the existing driveway on CTH B. The driveway will be widened and paved 100 feet from the highway. The remainder of the driveway 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 driveway on CTH B where visibility in both directions is very good. Traffic on this section of CTH B is light and offers easy access to State HWY 73, CTH W and CTH N. 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 CTH B.

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

The Wrigley Field Quarry 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). Forever Sandfill and Limestone will operate the Wrigley Field Quarry in compliance with the CUP, as well as all Federal MSHA, State of Wisconsin, Dane County, and Town of Christiana requirements.

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

The Town of Christiana has established Agricultural Preservation Districts as a means of preserving agricultural lands and rural character. The operation of the Wrigley Field Quarry is consistent with the adopted Town of Christiana Future Land Use Plan (2010), and Dane County zoning, FP-35 (General Farmland Preservation) which seeks to limit the density of residential development. (see <https://plandev.countyofdane.com/documents/Christiana/Christiana-FLU2010.pdf>).

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):

- I. 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 Wrigley Field 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 Wrigley Field Quarry 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.

FOREVER SANDFILL & LIMESTONE, INC.

**OPERATION AND ENVIRONMENTAL
CONTROL PLAN**

FOR THE

WRIGLEY FIELD QUARRY

**SECTION 20, 28 & 29
TOWN OF CHRISTIANA, DANE COUNTY, WI**

September 15, 2020



SITE AND CONTACT INFORMATION

Site Location: Section 20 (driveway), Section 28 & Section 29
Township 16 North, Range 12 East
Town of Christiana, Dane County, Wisconsin
Parcel Numbers:
016/0612-291-9500-0
016/0612-291-8200-0
016/0612-294-8010-0
016/0612-282-9000-5
016/0612-204-9040-1
016/0612-291-8540-3
016/0612-204-9030-3
016/0612-291-8530-5

Operator: Jeff Furseth
Forever Sandfill & Limestone, Inc.
353 Haugen Road
Edgerton, WI 53534
(608) 884-9105
dispatch@halversoncompanies.com

Consultant: Susan Courter
Courter Resource Group, LLC
17054 State Highway 178
Jim Falls, WI 54748
(715) 450-3669
susan@courterresource.com

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Appendix F Aggregate Processing and Construction Equipment

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Introduction and Purpose

Forever Sandfill & Limestone, Inc. (FSF&L) LLC is a local, family-owned, and operated aggregate supplier serving communities in south-central Wisconsin for more than 25 years. To meet the needs of its customers, FSF&L must continually secure mineral reserves. FSF&L secured a quarry containing dolomite reserves on the James Notstad property located in the Town of Christiana, Dane County, Wisconsin. The quarry on the property provided aggregates for the I-39/90 reconstruction in 2017.

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

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 188-acre property consists of eight (8) adjacent parcels located in Sections 20, 28, and 29, Township 6 North, Range 12 East, Town of Christiana, Dane County, Wisconsin (see Figure 1 – USGS Topographic and Site Location, Appendix A). Owned by Jeff or James Notstad, the parcels are bounded by County Road B to the north, U.S. Interstate 90/39 to the west, and Church Road to the south.

Four of the parcels, including the parcel with the existing quarry, are 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. The remaining four parcels, smaller tracts that make up the access drive to the quarry, are zoned RM-8 (Rural Mixed Use, 8-16 acres) Zoning District (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). A site survey of the property is contained in Appendix B. A summary of parcel information is presented below.

Township 6 North Range 12 East, Town of Christiana, Dane County, Wisconsin					
Parcel ID	Acres*	Owner	Location	Description	Zoning
016/0612-291-9500-0	15.03	James Notstad	SE, NE, Sec 29	Existing quarry	FP-35
016/0612-291-8200-0	10.74	James Notstad	SE, NE, Sec 29	Wooded fenceline NW of quarry	FP-35
016/0612-294-8010-0	106.65	James Notstad	NE, SE, Sec 29	Farmland South of quarry	FP-35
016/0612-282-9000-5	40.6	Jeff Notstad	SW, NW, Sec 28	Farmland East of quarry	FP-35
016/0612-204-9040-1	10.0	James Notstad	SW, SE, Sec 20	Driveway a	RM-8
016/0612-291-8540-3	3.9	James Notstad	NW, NE, Sec 29	Driveway b	RM-8
016/0612-204-9030-3	0.80	James Notstad	SW, SE, Sec 20	Driveway c	RM-8
016/0612-291-8530-5	0.30	James Notstad	NW, NE, Sec 29	Driveway d	RM-8

*2020 Parcel information obtained from Dane County records: <https://giscountyofdane.opendata.arcgis.com/>

Topography

The site is located in an upland area in southeastern Dane County. The topography across the site slopes gently from the existing quarry to the south between elevations of 1010 to 950 feet mean sea level (see Figure 4 – Existing Conditions, Appendix A). Previous extraction at the site has created high walls at the quarry face ranging from 35 to 70 feet.

Distribution, Thickness, and Type of Soils

The primary soil type is silt loam present in the Rockton, Edmund, and Plano Series (see Figure 5 - Soil Types, Appendix A). Found on glacial till plains, these soil types are gently sloping and well-drained. Rockton and Edmund Series soils are underlain by dolomite bedrock between 12 to 32 inches. The A-horizon of these soils is generally thin, ranging from 0-8 inches (Edmund Series soils) to 0 to 14 inches (Rockton Series soils).

Plano Series soils are found on glacial uplands at the site. These soils formed in 40 to 60 inches of loess and sandy loam glacial till or sand and gravel outwash under prairie grasses. These soils are dark and have high fertility, with an A-horizon between 0 to 11 inches.

Minor amounts of Radford, Ringwood, and Dodge Series silt loam are identified in the west-central portion of the property. These soils are mainly disturbed by previous extraction and cut/fill operations associated with the I-90 reconstruction.

Sable Series silty clay is found in the southwest portion of the property. Sable series soils are poorly drained and lie on low benches in stream valleys. The A-horizon of these soils is between 0 to 19 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 west side of the quarry to 70 feet on the east 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 that leads to Saunder's Creek.

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 proposal is to utilize 54-acre acres of the property for nonmetallic mineral extraction. 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. Property owners within 1,000 feet of the proposed project are identified in Figure 7 – Property Owners Within 1,000 Feet. Operation plan details are specified in Figure 8 – Operation Plan, Appendix A.

Access

The mineral resources at the site will be accessed from County Highway B through the existing quarry entrance. The visibility at this location is good in both directions. The current access drive is vegetated and approximately 50 feet in width. This access will be improved to support the weight of various-sized haul trucks and to minimize tracking and runoff. Improvements include 100 feet of pavement and a stop sign leading up to County Highway B; recycled asphalt on the remainder of the access drive; and a locking gate at the entrance posted with a “no trespassing” sign when the site is not in operation. 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 surface and 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.

Site Development and Erosion Control

The site will be developed incrementally to minimize disturbed areas and preserve farmland. Operations will begin from the existing quarry and expand sequentially to the south and east based upon local demand. 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 into stone weepers according to the site's stormwater pollution prevention plan (SWPPP), before discharging to an unnamed tributary leading to Saunder's 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.

Stone Removal and Processing

Mining activities will begin in the existing quarry and progress south and east, as labeled in Figure 8 – Operational Plan, Appendix A. The dolomite bedrock will intermittently be “drilled and shot.” This process involves drilling holes into the dolomite rock and loading the holes with explosive material. Trained and licensed blasters detonate the explosives. The blasts displace the stone from the solid formation and produce fragmentation that permits efficient crushing and sizing of the rock. All blasting performed following the State of Wisconsin Administrative Code SPS 307.

Dolomite reserves will be extracted to an elevation of 910 feet (MSL). 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 house and scale will be positioned near the quarry entrance to weigh the material as it leaves the property.

Haul Routes

The primary haul route will be County Highway B to State Road 73; additional routes include County Highway W and County Highway N. 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 6 a.m. to 7 p.m., Monday through Friday, and 6 a.m. to 3 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. Blasting activities will be limited to weekday hours between 8 a.m. and 4 p.m. No operations will take place on Sundays or legal holidays.

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 Christiana 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.

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 areas 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 on I-39/90, 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

FSF&L 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 FSF&L's daily operation. A complete 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.

Blasting Vibration

Humans are very sensitive to vibration and can detect levels as low as 0.15 mm/second. How people notice and respond to vibration varies significantly from person to person. All blasting will be conducted to comply with the Wisconsin Administrative Code, Chapter SPS 307. This code provides safe thresholds for vibration from blasting. Any resident wishing to be notified before a blast can request to be placed on a call list. Residents may request one of two available seismographs to be placed on their property to confirm safe levels of vibration.

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 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 Courter



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, 1999

APPENDIX A

FIGURES 1-8

Figure 1	USGS Topographic and Site Location
Figure 2	Zoning & Parcel Boundaries
Figure 3	2018 Aerial Imagery Map
Figure 4	Existing Conditions
Figure 5	Soil Types
Figure 6	Depth to Water Table
Figure 7	Property Owners Within 1,000 Feet
Figure 8	Operation Plan

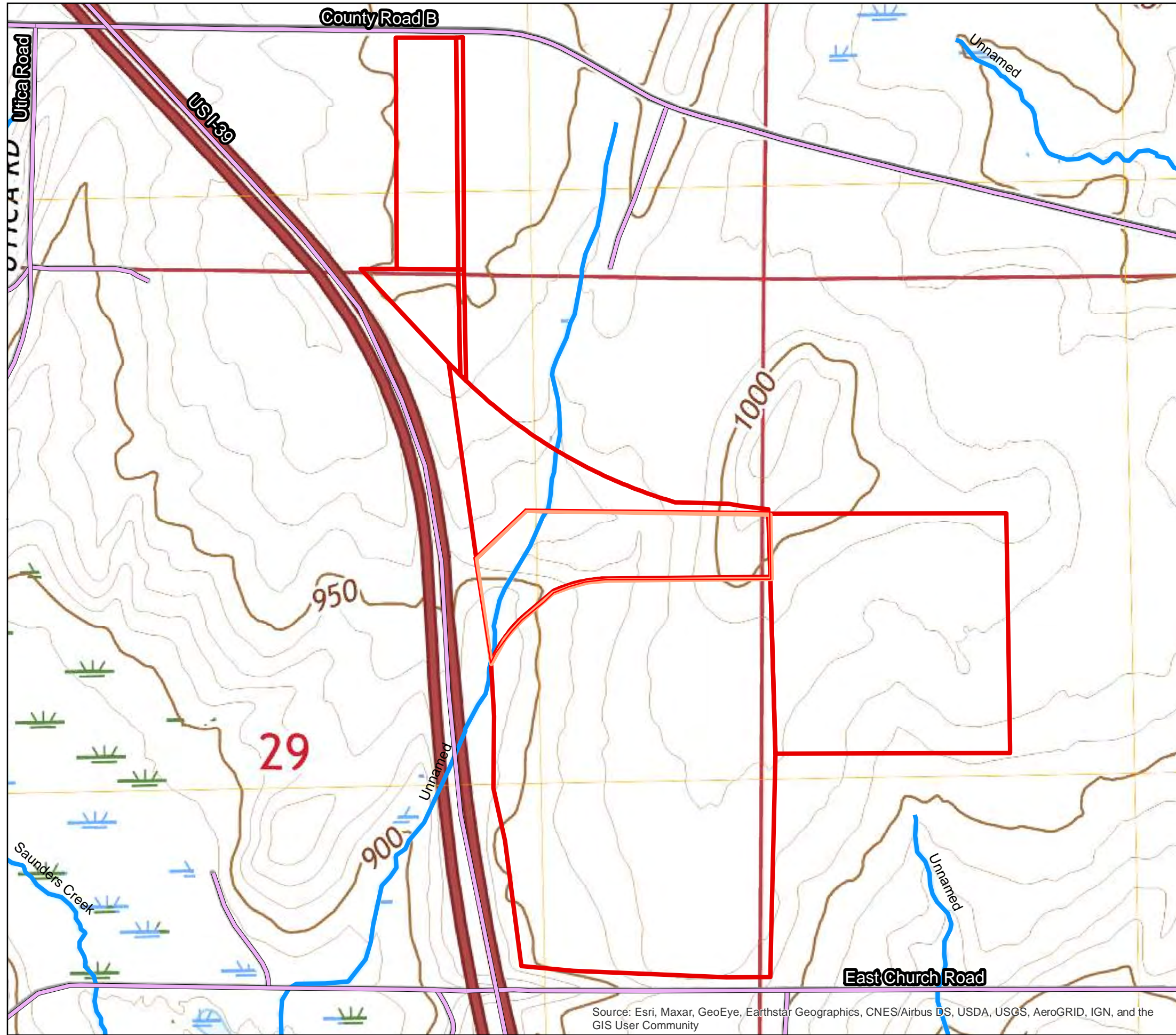
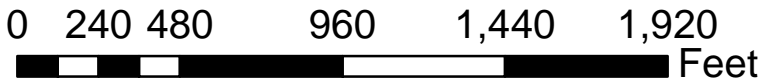


Figure 1
 USGS Topographic
 and Site Location

Legend

- Rivers and Streams
- Roads
- Existing Parcels
- New Parcels



Map Created: September 8, 2020

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>

FSF&L
 Wrigley Field Quarry
 Sections 20, 28, & 29, Town of Christiana
 Dane County, WI













Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

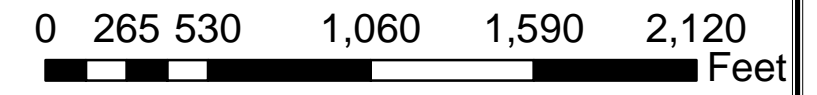


Figure 2

Zoning & Parcel Boundaries

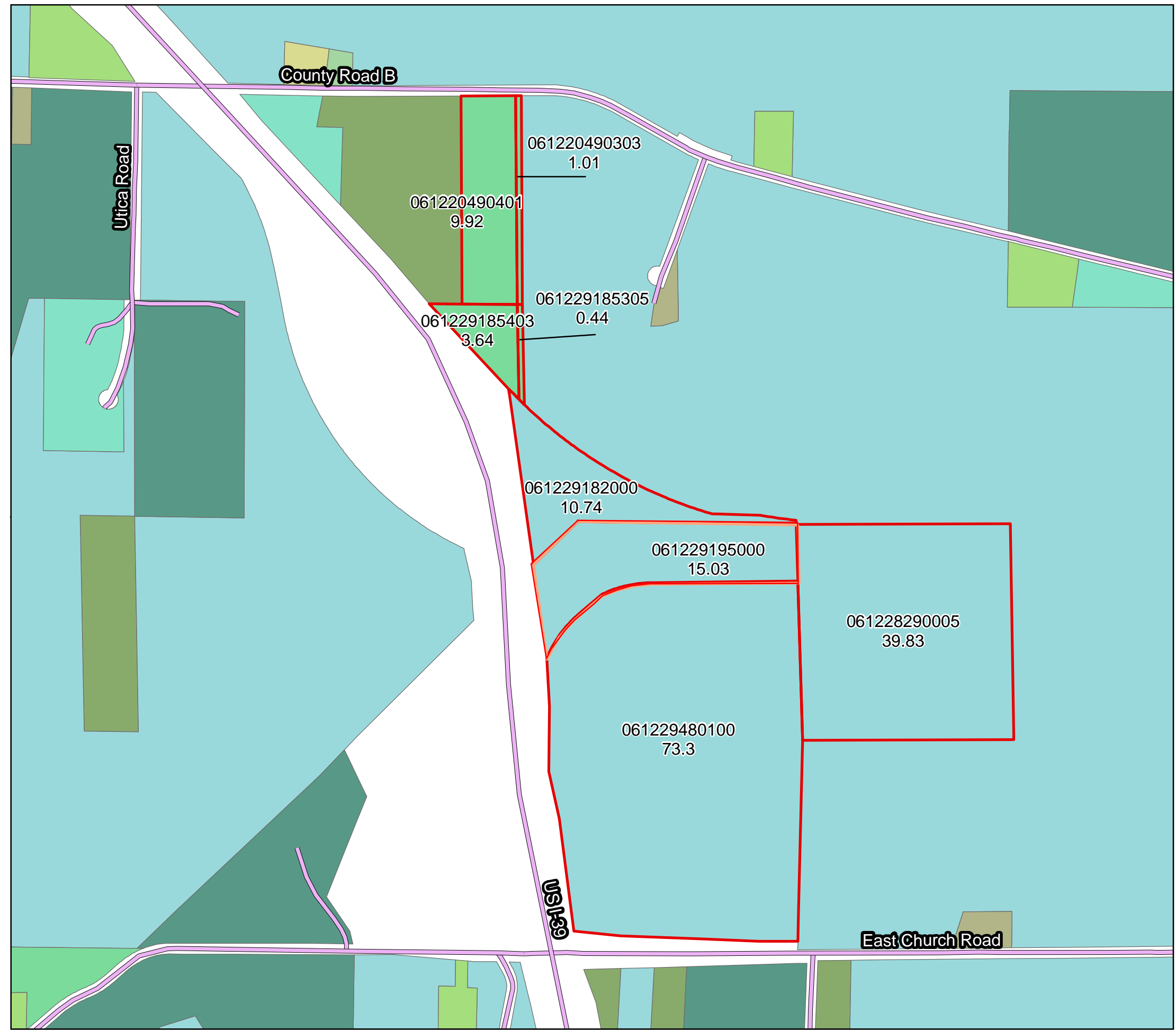
Legend

-  Roads
-  Existing Parcels
-  New Parcels
- Zoning Ordinance**
-  Small Lot Farmland Preservation
-  General Farmland Preservation
-  Rural Mixed-Use, 16-35 acres
-  Rural Mixed-Use, 8-16 acres
-  Rural Residential, 1-2 acres
-  Rural Residential, 2-4 acres
-  Rural Residential, 4-8 acres
-  Single-Family Residential, small lots
-  Single-Family Residential, 1-2 acres



Map Created: September 8, 2020
2020 Parcel Boundary and Zoning Information 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>

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Dane County, WI



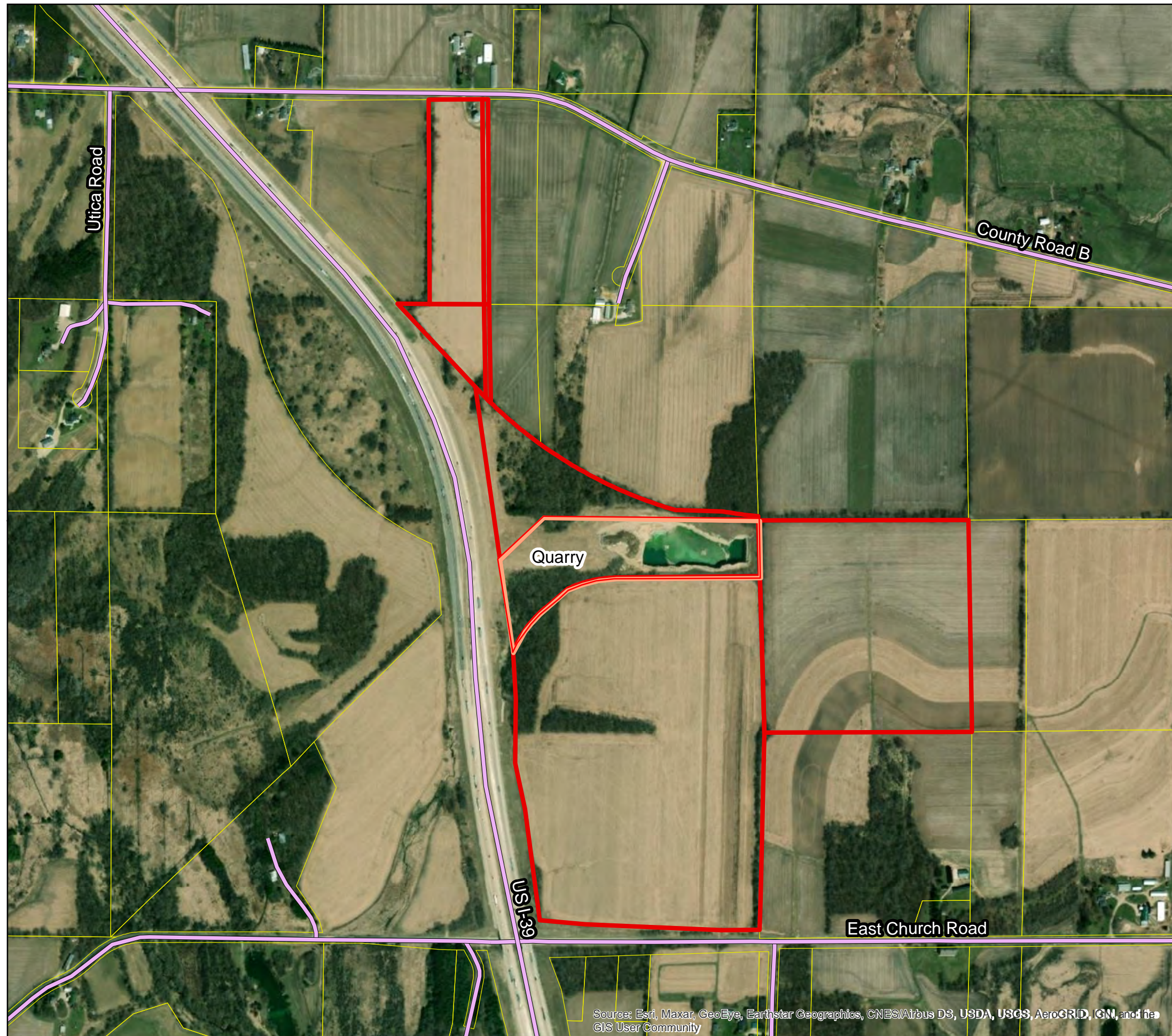
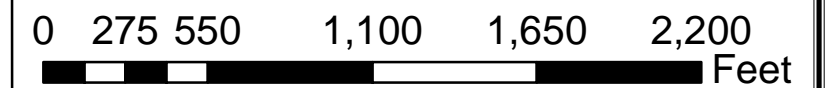


Figure 3
2018 Aerial Imagery Map

Legend

-  Roads
-  Existing Parcels
-  New Parcels



Map Created: September 8, 2020

Aerial Map Data Source: Esri, DigitalGlobe, GeoEye, EarthStar Geographics 2020

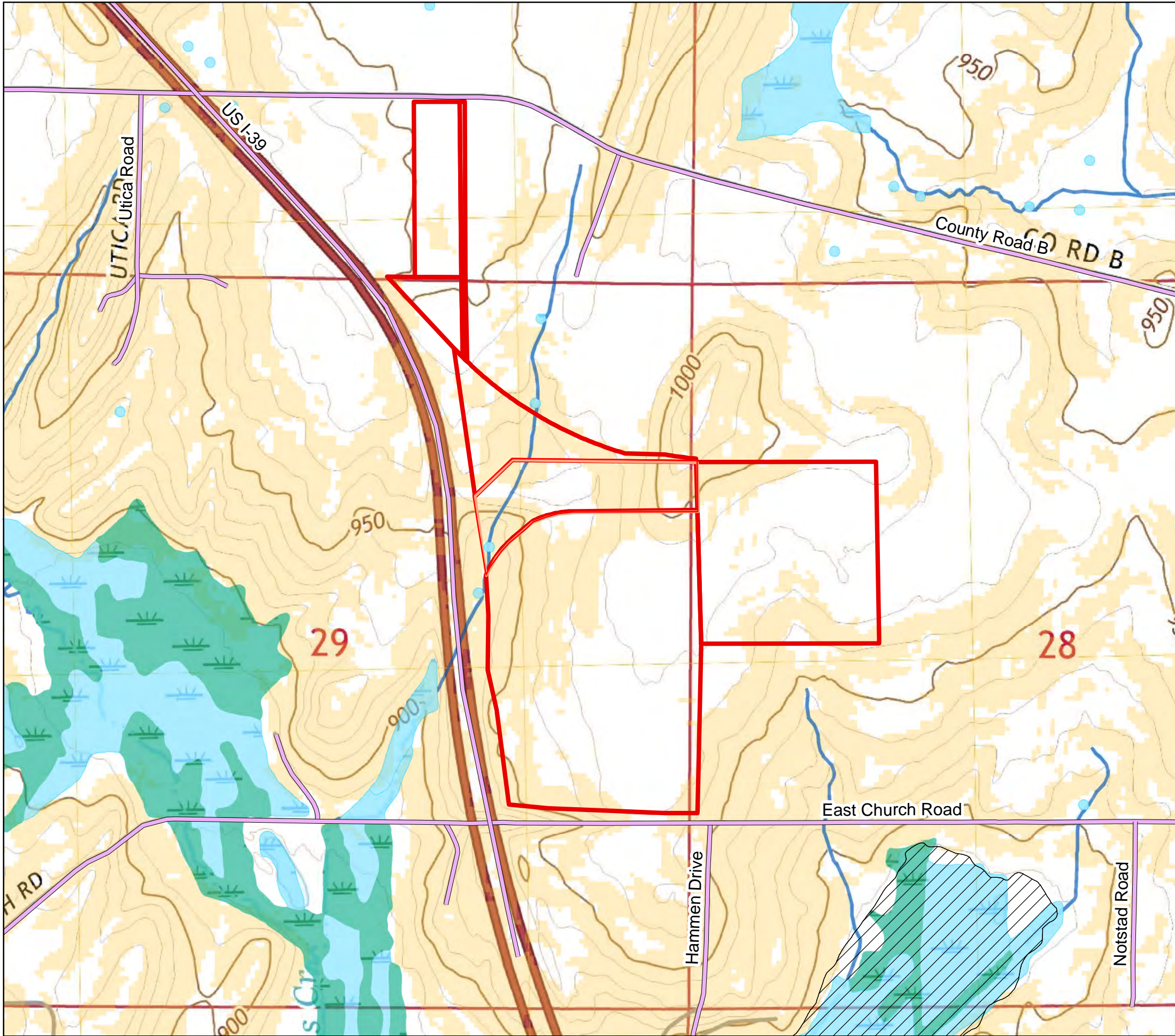
2020 Parcel Boundary obtained from Dane Co. records: <https://gis-countyofdane.opendata.arcgis.com/>

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

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Dane County, WI

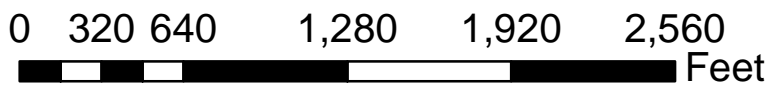


Figure 4
Existing Conditions



Legend

- Roads
- Existing Parcels
- New Parcels
- Floodplain Type**
- Unknown
- Area of Minimal Flood Hazard
- Wetland Type**
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Riverine
- Grade**
- Below 12%
- 12% or Greater



Map Created: September 9, 2020

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

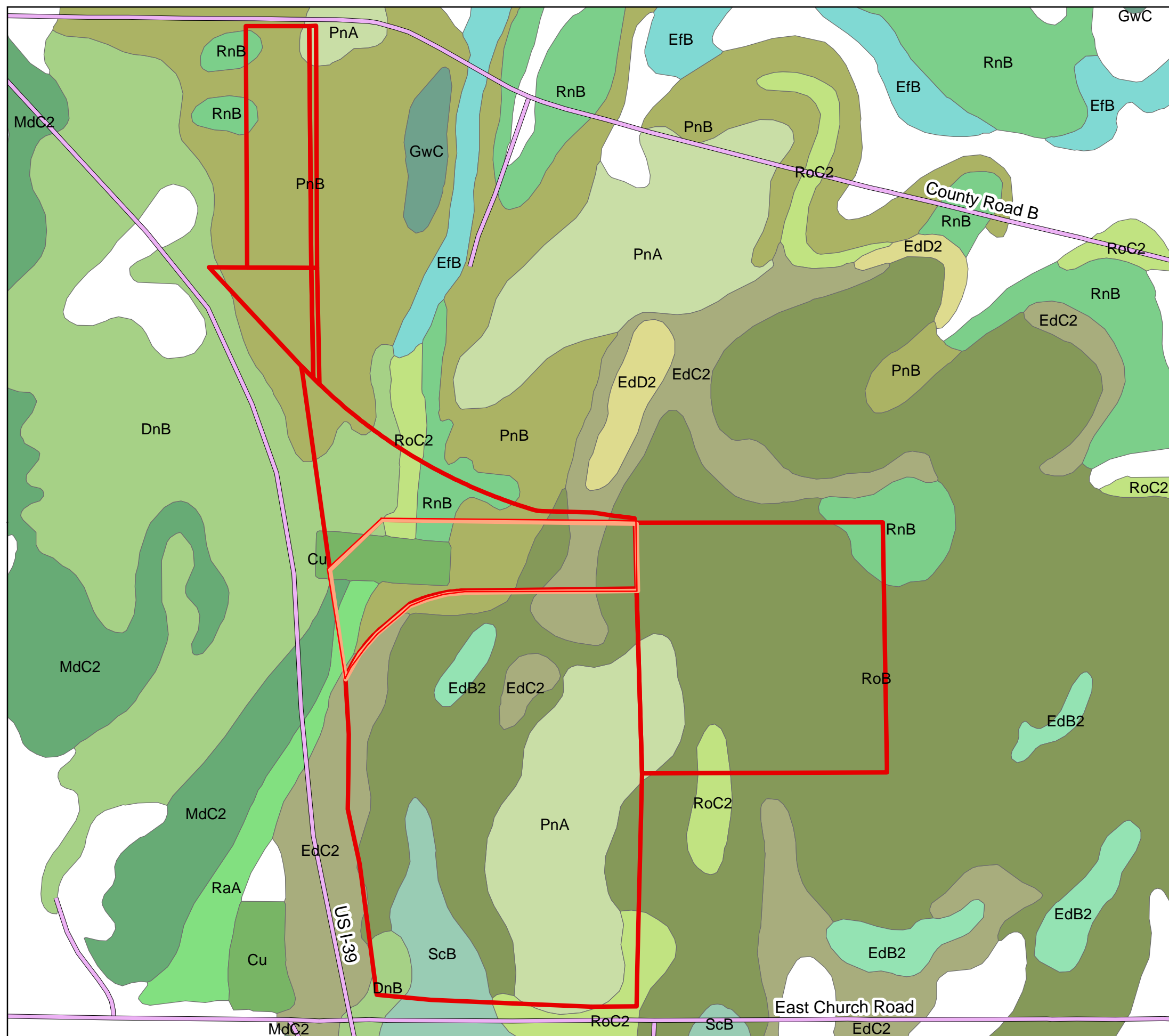
2020 Parcel Boundary obtained from Dane Co. records: <https://gis-countyofdane.opendata.arcgis.com/>

2019 Roads, Slope, and Waterbody data obtained from Wisconsin DNR OpenData website: <https://data-wi-dnr.opendata.arcgis.com>



















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Dane County, WI

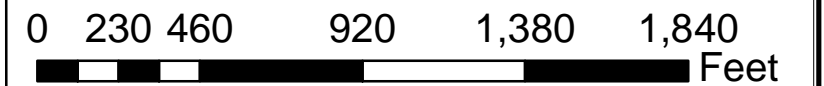


Figure 5
Soil Types



Legend

-  Roads
-  Existing Parcels
-  New Parcels
-  Cu - Cut and fill land
-  DnB - Dodge silt loam, 2-6% slopes
-  EdB2- Edmund silt loam, 2-6% slopes
-  EdC2 - Edmund silt loam, 6-12% slopes
-  EdD2 - Edmund silt loam, 6-12% slopes
-  EfB - Elburn silt loam, 0-3% slopes
-  GwC - Griswold loam, 6-12% slopes
-  MdC2-McHenry silt loam, 6-12% slopes
-  PnA- Plano silt loam, till substratum, 0-2% slopes
-  PnB- Plano silt loam, till substratum, 2-6% slopes
-  RaA - Radford silt loam, 0-3% slopes
-  RnB- Ringwood silt loam, 2-6% slopes
-  RoB- Rockton silt loam, 2-6% slopes
-  RoC2- Rockton silt loam, 6-12% slopes
-  ScB- St. Charles silt loam, 2-6% slopes



Map Created: September 9, 2020

2020 Parcel Boundary and soils 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>








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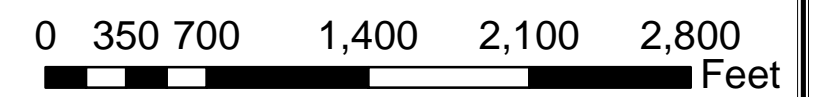


Figure 6

Depth to Water Table & Aquifer Location

Legend

-  20' Contours
-  Roads
-  Rivers and Streams
-  Existing Parcels
-  New Parcels
- Aquifer Type**
-  Not an un lithified surface aquifer
-  Unconfined. Poorly sorted sand, gravel, and silt deposited as diamicton or well sorted offshore glacial lake sediment



Map Created: September 10, 2020

Water table and aquifer data obtained from University of Wisconsin-Madison Wisconsin Geological and Natural History Survey:
<https://wgnhs.wisc.edu/pubs/wofr199904plate01/>

2020 Parcel Boundary and Zoning Information 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/>

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Sections 20, 28 & 29, Town of Christiana
Dane County, WI

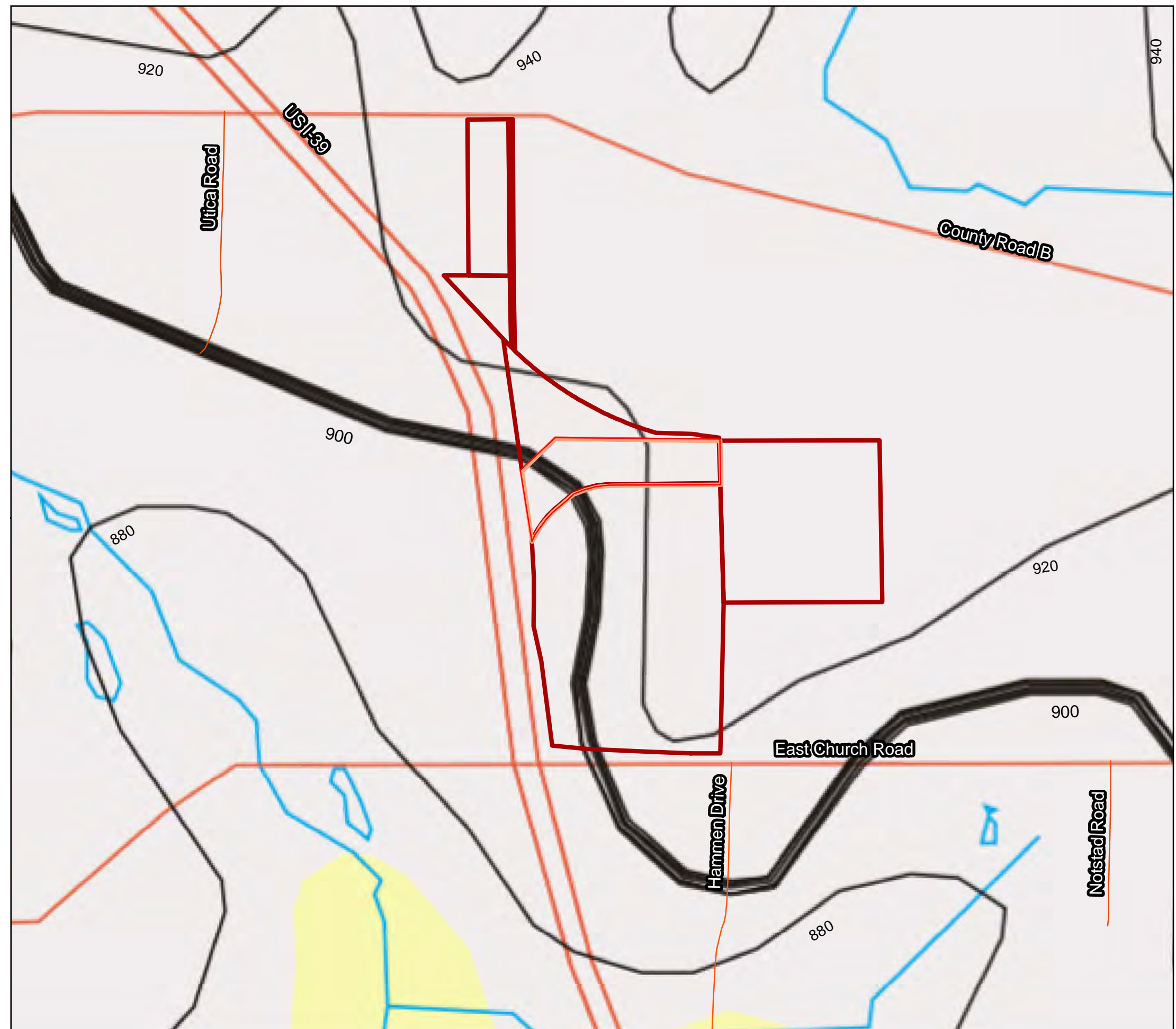
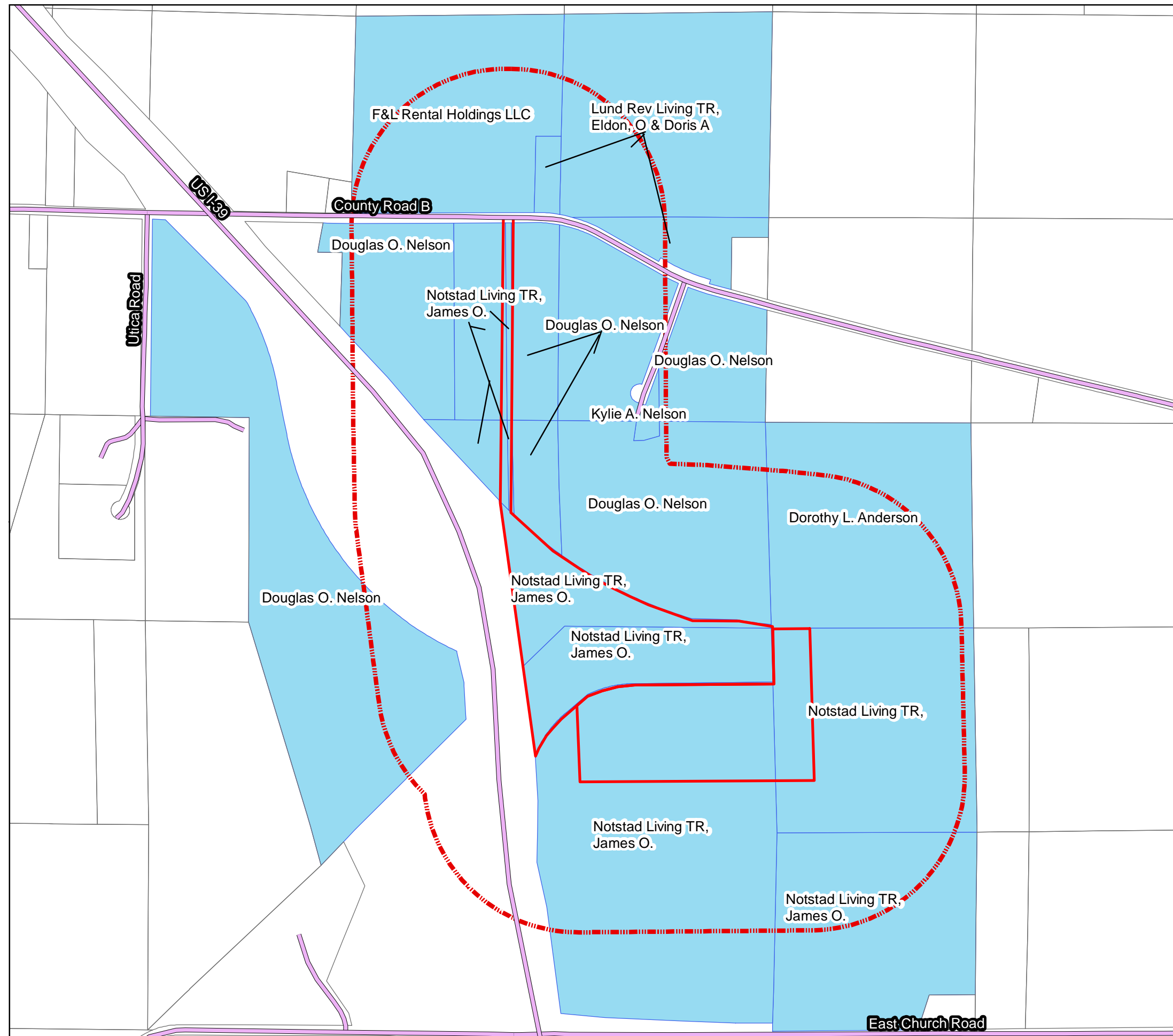


Figure 7

Property Owners Within 1000 Feet



Legend

- Roads
- Parcels Outside Buffer
- ▭ Project Boundaries
- - - 1000 ft Buffer
- Parcels within 1000 ft



0 280 560 1,120 1,680 2,240 Feet

Map Created: September 8, 2020

2020 Parcel Boundary and Zoning Information 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>

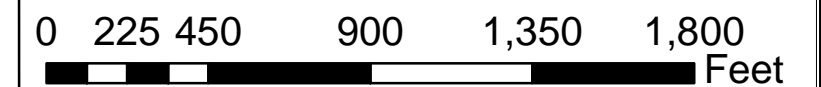
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Dane County, WI



Figure 8
Operation Plan

Legend

-  Roads
-  10' Contours
-  Water outfall
-  20' Buffer
-  Black dirt berm/fence
-  Overburden stockpile
-  Scale
-  Sediment pond
-  Project Boundaries
-  Property Boundaries



Map Created: September 8, 2020

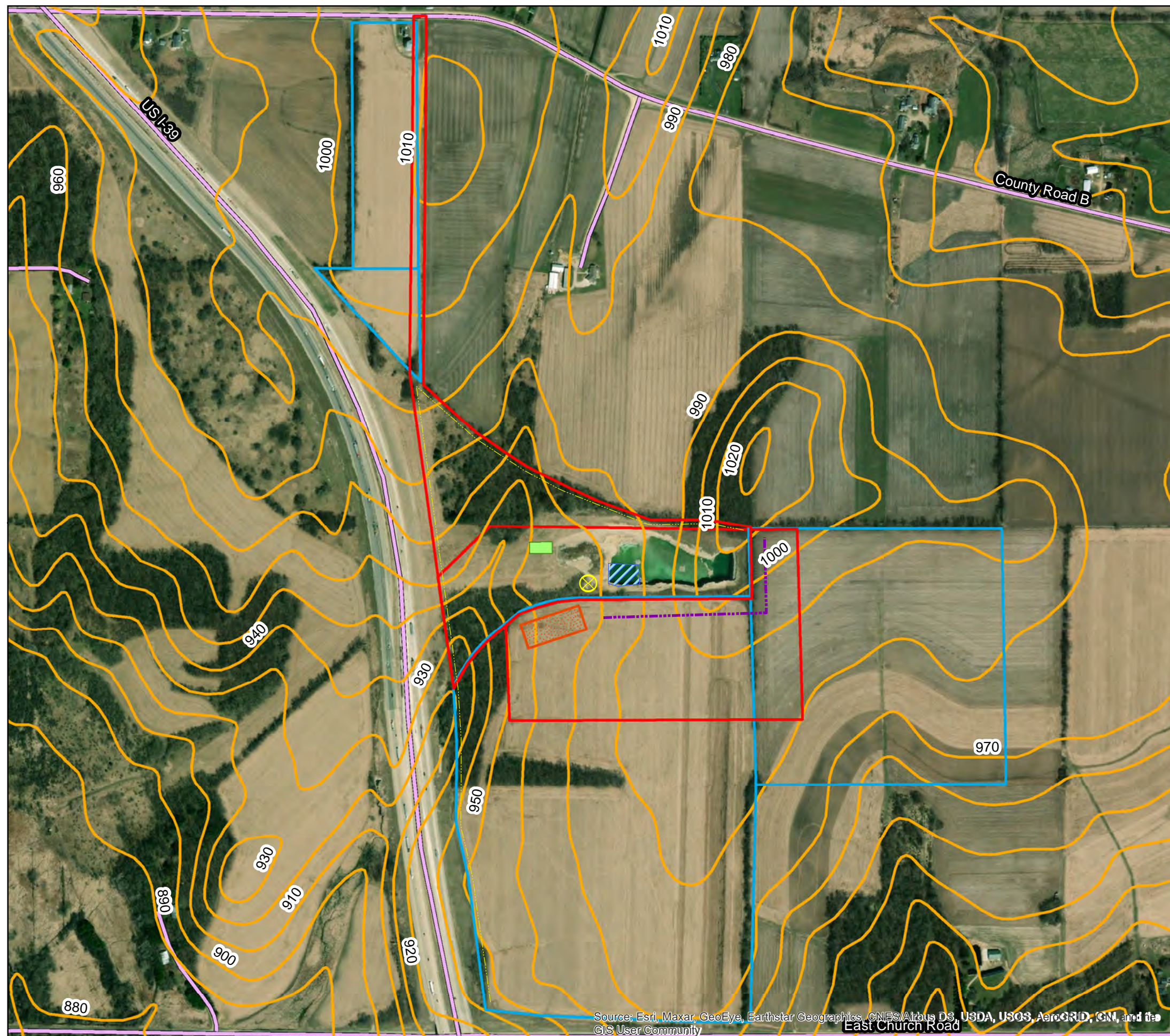
Aerial Map Data Source: Esri, DigitalGlobe, GeoEye, EarthStar Geographics 2020

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

2010 10' Elevation Contours obtained from USGS OpenData: <ftp://rockyftp.cr.usgs.gov/vdelivery/Datasets/StagedElev/>

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

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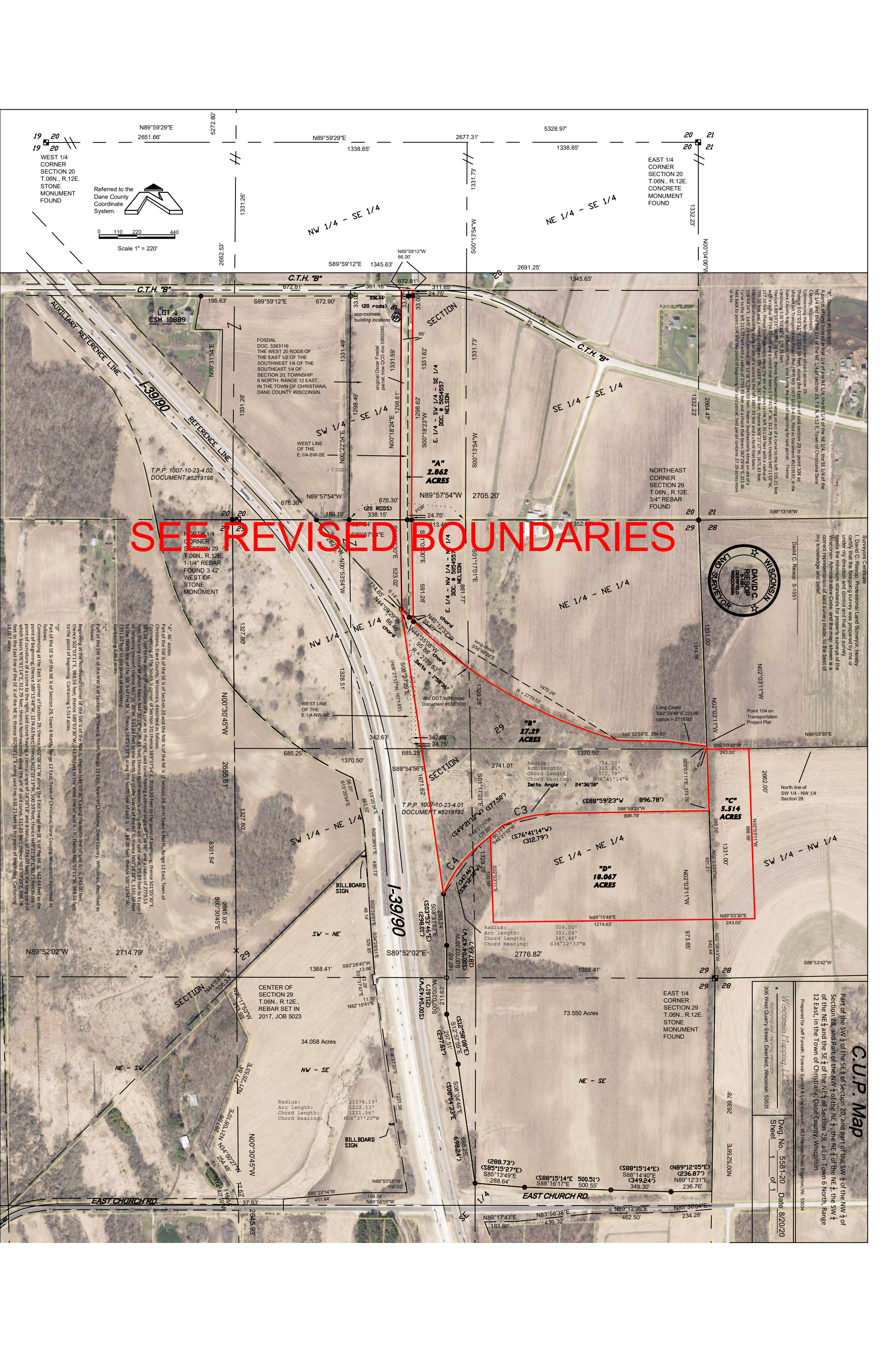


Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

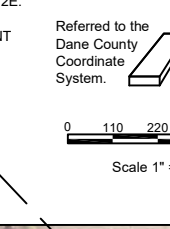
East Church Road

APPENDIX B

SITE SURVEY



SEE REVISED BOUNDARIES



WEST 1/4 CORNER SECTION 20 T.06N., R.12E. STONE MONUMENT FOUND

EAST 1/4 CORNER SECTION 20 T.06N., R.12E. CONCRETE MONUMENT FOUND

LOT 1 CSM 10889

FOSDAL DOC. 5363116 THE WEST 20 RODS OF THE EAST 1/2 OF THE SOUTHWEST 1/4 OF SECTION 20, TOWNSHIP 6 NORTH, RANGE 12 EAST, IN THE TOWN OF CHRISTIANA, DANE COUNTY WISCONSIN.

"A" 2.862 ACRES

"B" 27.29 ACRES

"C" 5.514 ACRES

"D" 18.067 ACRES

Part of the SW 1/4 of the SE 1/4 of Section 20 and the NW 1/4 of the NE 1/4 of Section 29, all in Town 6 North, Range 12 East, Town of Christiana, Dane County, Wisconsin, described as follows: Commencing at the South 1/4 corner of Section 20; thence S89°57'54" E, 1033.20 feet to the point of beginning; thence S01°05'30" E, 531.28 feet to the point of curvature of a curve to the right, said curve having a central angle of 1°55'36" and a radius of 2779.53 feet; the long chord of which bears N42°35'08" W, 95.48 feet; thence Northwesterly along the arc of said curve, 935.89 feet to its point of tangency; thence N02°50'30" W, 523.82 feet to the North line of the NW 1/4 of the NE 1/4 of Section 29; thence N89°52'02" E, 1331.62 feet to the point of beginning. Containing 2.862 acres.

Part of the SW 1/4 of the NW 1/4 of Section 29, Town 6 North, Range 12 East, Town of Christiana, Dane County, Wisconsin, described as follows: Beginning at the Northwest corner of the SW 1/4 of the NW 1/4 of Section 29; thence N89°03'30" E along the North line of said 1/4, 243.00 feet; thence S02°03'11" E, 988.56 feet; thence S89°03'30" W, 243.00 feet to the West line of said 1/4; thence N02°03'11" W, 988.56 feet to the point of beginning. Containing 5.514 acres.

Part of the SE 1/4 of the NE 1/4 of Section 29, Town 6 North, Range 12 East, Town of Christiana, Dane County, Wisconsin, described as follows: Commencing at the East 1/4 corner of Section 29; thence N02°08'43" W along the East line of the SE 1/4 of the NE 1/4, 342.44 feet to the point of beginning; thence S89°15'48" W, 1274.63 feet; thence N02°03'11" W, 500.51 feet; thence N49°21'07" E, 907.71 feet to the point of curvature of a curve to the right, said curve having a central angle of 2°36'31" and a radius of 734.00 feet; the long chord of which bears N42°41'14" W, 312.79 feet; the long chord of which bears N42°41'14" W, 312.79 feet; the long chord of which bears N42°41'14" W, 312.79 feet; thence N89°03'30" E, 243.00 feet to the point of beginning. Containing 18.067 acres.

Part of the NE 1/4 of the NE 1/4 of Section 29, Town 6 North, Range 12 East, Town of Christiana, Dane County, Wisconsin, described as follows: Commencing at the East 1/4 corner of Section 29; thence N02°08'43" W along the East line of the NE 1/4 of the NE 1/4, 342.44 feet to the point of beginning; thence S89°15'48" W, 1274.63 feet; thence N02°03'11" W, 500.51 feet; thence N49°21'07" E, 907.71 feet to the point of curvature of a curve to the right, said curve having a central angle of 2°36'31" and a radius of 734.00 feet; the long chord of which bears N42°41'14" W, 312.79 feet; the long chord of which bears N42°41'14" W, 312.79 feet; the long chord of which bears N42°41'14" W, 312.79 feet; thence N89°03'30" E, 243.00 feet to the point of beginning. Containing 27.29 acres.



Surveyors Certificate
I, David C. Riesop, Professional Land Surveyor, hereby certify that the foregoing survey was prepared by me or under my direction and control and that said survey meets the minimum standards for property surveys of the Wisconsin Administrative Code and the map shown is a correct representation of said survey made to the best of my knowledge and belief.
David C. Riesop, S-1551

C.U.P. Map
Part of the SW 1/4 of the SE 1/4 of Section 20, and part of the SW 1/4 of the NW 1/4 of Section 28 and part of the NW 1/4 of the NE 1/4 of the NE 1/4 of the NE 1/4 of the NE 1/4 of the NE 1/4 of Section 29, all in Town 6 North, Range 12 East, in the Town of Christiana, Dane County, Wisconsin.
Prepared for: Jeff Fursath, Fawcett Sandpiper & Landscape, Inc., 363 Harper Road, Edgerton, WI, 53534
Wisconsin Mapping, LLC
surveying and mapping services
306 West Quarry Street, Deerfield, Wisconsin 53531
Dwg. No. 5581-20 Date 8/20/20
Sheet 1 of 1

APPENDIX C

LOCAL WELL CONSTRUCTION REPORTS

Well Construction Report WISCONSIN UNIQUE WELL NUMBER				ZR972		Drinking Water and Groundwater - DG/5 Department of Natural Resources, Box 7921 Madison WI 53707				Form 3300-077A				
Property Owner WI DOT- INTERSTATE 39 & 90				Phone # (608)516-6473		1. Well Location				Fire # (if avail.)				
Mailing Address 111 INTERSTATE AVENUE						Town of CHRISTIANA								
City EDGERTON				State WI		Street Address or Road Name and Number INTERSTATE 39/90								
County Dane		Co. Permit #		Notification #		Completed 06-12-2018		Subdivision Name		Lot # Block #				
Well Constructor (Business Name) SAM'S WELL DRILLING INC				Lic. # 370		Facility ID # (Public Wells) 1303014427		Latitude / Longitude in Decimal Degree (DD) 42.9593 °N -89.0972 °W		Method Code GPS008				
Address PO BOX 150 N9935 PLEASANT RD RANDOLPH WI 53956				Well Plan Approval # 1303014427		Approval Date (mm-dd-yyyy) 05-05-2018		NW NE Section Township Range or Govt Lot # 29 6 N 12 E		2. Well Type New Well				
Hicap Permanent Well # 92419		Common Well #		Specific Capacity 2		Reason for replaced or reconstructed well ?								
3. Well serves 1 # of WASH PLANT				Hicap Well ? Yes		Private,potable		Hicap Property ? No		Heat Exchange ___ # of drillholes				
				Hicap Potable ? No		Construction Type Drilled								
4. Potential Contamination Sources - ON REVERSE SIDE														
5. Drillhole Dimensions and Construction Method						Geology Codes			8. Geology Type, Caving/Noncaving, Color, Hardness, etc...			From (ft.) To (ft.)		
Dia. (in.)		From (ft.)		To (ft.)		Upper Enlarged Drillhole			Lower Open Bedrock					
12		Surface		23		No Rotary - Mud Circulation			No					
11.78		23		60		Yes Rotary - Air			Yes					
8		60		359		No Rotary - Air & Foam			No					
						No Drill-Through Casing Hammer								
						No Reverse Rotary								
						No Cable-tool Bit ___in. dia...			No					
						Yes Dual Rotary			No					
						Yes Temp. Outer Casing 12in. dia								
						No Removed? 23depth ft. (If NO explain on back side)								
6. Casing, Liner, Screen						9. Static Water Level			11. Well Is					
Dia. (in.)		Material, Weight, Specification Manufacturer & Method of Assembly		From (ft.) To (ft.)		87 ft. below ground surface			24 in. above grade					
8		STD BLK, PIPE, .322 WALL, A53B, CHS		Surface 92		10. Pump Test			Developed ? Yes					
Dia. (in.)		Screen type, material & slot size		From (ft.) To (ft.)		Pumping level 240 ft. below surface			Disinfected ? Yes					
						Pumping at 300 GP M for 1 Hrs.			Capped ? Yes					
						Pumping Method ? Test Pump								
7. Grout or Other Sealing Material						12. Notified Owner of need to fill & seal ?						No		
Method TREMIE PIPE - PUMPED						Filled & Sealed Well(s) as needed?						No		
Kind of Sealing Material		From (ft.)		To (ft.)		# Sacks Cement		13. Constructor / Supervisory Driller			Lic #		Date Signed	
NEAT CEMENT GROUT		Surface		60		22 S		JVG			6026		06-12-2018	
								Drill Rig Operator			Lic or Reg #		Date Signed	
								DB			7369		06-12-2018	

Well Construction Report WISCONSIN UNIQUE WELL NUMBER				VK170		Drinking Water and Groundwater - DG/5 Department of Natural Resources, Box 7921 Madison WI 53707				Form 3300-077A		
Property Owner SANDMIRE, PAMELA				Phone # (608)225-5935		1. Well Location				Fire # (if avail.)		
Mailing Address 1290 E CHURCH RD						Town of CHRISTIANA				1290		
City CAMBRIDGE				State WI	Zip Code 53523	Street Address or Road Name and Number						
County Dane				Co. Permit # 25459	Notification # 20504844	Completed 08-18-2005	Subdivision Name CSM 11352			Lot # 2	Block #	
Well Constructor (Business Name) SAM'S WELL DRILLING INC				Lic. # 370	Facility ID # (Public Wells)		Latitude / Longitude in Decimal Degree (DD)			Method Code		
Address PO BOX 150 RANDOLPH WI 53956-0150				Well Plan Approval #		42.9511 °N -89.1099 °W			GCD013			
				Approval Date (mm-dd-yyyy)		SW	SW	Section 29	Township 6 N	Range 12 E		
Hicap Permanent Well #		Common Well #		Specific Capacity 0.60		2. Well Type New Well				of previous unique well # constructed in		
3. Well serves 1 # of Private, potable				Hicap Well ? No		Reason for replaced or reconstructed well ?						
Heat Exchange ___ # of drillholes				Hicap Property ? No		Construction Type Drilled						
Hicap Potable ?												
4. Potential Contamination Sources - ON REVERSE SIDE												
5. Drillhole Dimensions and Construction Method						8. Geology Type, Caving/Noncaving, Color, Hardness, etc...			From (ft.)	To (ft.)		
Dia. (in.)	From (ft.)	To (ft.)	Upper Enlarged Drillhole		Lower Open Bedrock	Geology Codes						
8.75	Surface	105	<u>Yes</u> Rotary - Mud Circulation		<u>No</u>	-	-	Y	-	Sand & Gravel	Surface	10
6	105	128	<u>No</u> Rotary - Air		<u>Yes</u>	-	S	N	-	Soft/Loose, Sandstone	10	43
			<u>No</u> Rotary - Air & Foam		<u>No</u>	-	-	N	-	Sandstone	43	71
			<u>No</u> Drill-Through Casing Hammer			-	-	L	-	Limestone/Dolomite	71	128
			<u>No</u> Reverse Rotary									
			<u>No</u> Cable-tool Bit ___in. dia...		<u>No</u>							
			<u>No</u> Dual Rotary									
			<u>No</u> Temp. Outer Casing ___in. dia									
			<u>No</u> Removed? ___depth ft. (If NO explain on back side)									
6. Casing, Liner, Screen						9. Static Water Level			11. Well Is			
Dia. (in.)	Material, Weight, Specification Manufacturer & Method of Assembly			From (ft.)	To (ft.)	46 ft. below ground surface			18 in. above grade			
6	STD BLK, PIPE, .280 WALL, P.E., A53B WHEATLAND			Surface	105	10. Pump Test			Developed ? Yes			
Dia. (in.)	Screen type, material & slot size			From (ft.)	To (ft.)	Pumping level 80 ft. below surface			Disinfected ? Yes			
						Pumping at 20 GP M for 1 Hrs.			Capped ? Yes			
						Pumping Method ?						
7. Grout or Other Sealing Material						12. Notified Owner of need to fill & seal ?						
Method Tremie Pipe - Pumped						Filled & Sealed Well(s) as needed?						
Kind of Sealing Material		From (ft.)	To (ft.)	# Sacks Cement								
Neat cement grout		Surface	105	22 S								
						13. Constructor / Supervisory Driller		Lic #	Date Signed			
						JVG			08-18-2005			
						Drill Rig Operator		Lic or Reg #	Date Signed			
						TDV			08-18-2005			

Well Construction Report				RX274		Drinking Water and Groundwater - DG/5				Form 3300-077A					
WISCONSIN UNIQUE WELL NUMBER						Department of Natural Resources, Box 7921				Madison WI 53707					
Property Owner PAXSON, TODD & KAREN						Phone # (815)885-3201									
Mailing Address 44 OAKLAND ROAD						1. Well Location						Fire # (if avail.)			
City CAMBRIDGE						State WI		Zip Code 53523				Town of CHRISTIANA		1064	
Street Address or Road Name and Number						CTY HWY B									
County Dane		Co. Permit # 18551		Notification #		Completed 10-19-2001		Subdivision Name CSM #10074				Lot # 1		Block #	
Well Constructor (Business Name) SAMS ROTARY DRILLERS INC				Lic. # 370		Facility ID # (Public Wells)				Latitude / Longitude in Decimal Degree (DD)				Method Code GCD013	
Address PO BOX 150 N9935 PLEASANT RD RANDOLPH WI 53956-0150				Well Plan Approval #		SE SE		Section 20		Township 6 N		Range 12 E			
Approval Date (mm-dd-yyyy)				Hicap Permanent Well #		Common Well #		Specific Capacity 0.30				2. Well Type New Well			
Hicap Property ? No				Hicap Well ? No		Reason for replaced or reconstructed well ?				of previous unique well #				constructed in	
Heat Exchange ___ # of drillholes				Hicap Potable ?		Construction Type Drilled									
3. Well serves 1 # of HOME															
Private, potable															
4. Potential Contamination Sources - ON REVERSE SIDE															
5. Drillhole Dimensions and Construction Method															
Dia. (in.)		From (ft.)		To (ft.)		Upper Enlarged Drillhole				Lower Open Bedrock					
8.75		Surface		44		<u>No</u> Rotary - Mud Circulation				<u>No</u>					
6		44		120		<u>Yes</u> Rotary - Air				<u>Yes</u>					
						<u>No</u> Rotary - Air & Foam				<u>No</u>					
						<u>No</u> Drill-Through Casing Hammer									
						<u>No</u> Reverse Rotary									
						<u>No</u> Cable-tool Bit ___in. dia...				<u>No</u>					
						<u>Yes</u> Temp. Outer Casing 10in. dia									
						<u>Yes</u> Removed? 16depth ft. (If NO explain on back side)									
6. Casing, Liner, Screen						9. Static Water Level				11. Well Is					
Dia. (in.)		Material, Weight, Specification Manufacturer & Method of Assembly				From (ft.)		To (ft.)		45 ft. below ground surface				18 in. above grade	
6		STD. BLK. PIPE, .280 WALL, WLD., JNTS. A 53 SAWHILL				Surface		44		10. Pump Test				Developed ? Yes	
Dia. (in.)		Screen type, material & slot size				From (ft.)		To (ft.)		Pumping level 90 ft. below surface				Disinfected ? Yes	
										Pumping at 15 GP M for 1 Hrs.				Capped ? Yes	
										Pumping Method ?					
7. Grout or Other Sealing Material						12. Notified Owner of need to fill & seal ?									
Method Tremie Pipe - Pumped						Filled & Sealed Well(s) as needed?									
Kind of Sealing Material		From (ft.)		To (ft.)		# Sacks Cement									
Neat cement grout		Surface		44		10 S									
13. Constructor / Supervisory Driller						Lic #		Date Signed							
JVJG								10-22-2001							
Drill Rig Operator						Lic or Reg #		Date Signed							
SUK								10-22-2001							

Well Construction Report WISCONSIN UNIQUE WELL NUMBER				TP265		Drinking Water and Groundwater - DG/5 Department of Natural Resources, Box 7921 Madison WI 53707				Form 3300-077A	
Property Owner ARTHUR, BETTY				Phone # (608)423-3679		1. Well Location				Fire # (if avail.)	
Mailing Address 1024 HWY B						Town of CHRISTIANA					
City CAMBRIDGE				State WI	Zip Code 53523	Street Address or Road Name and Number					
County Dane				Co. Permit # 21238	Notification #	Completed 08-28-2003	Subdivision Name		Lot #	Block #	
Well Constructor (Business Name) SAMS ROTARY DRILLERS INC				Lic. # 370	Facility ID # (Public Wells)		Latitude / Longitude in Decimal Degree (DD)		Method Code		
Address PO BOX 150 RANDOLPH WI 53956-0150				Well Plan Approval #		42.9651 °N -89.0894 °W		GCD013			
				Approval Date (mm-dd-yyyy)		NE SE Section Township Range		or Govt Lot # 20 6 N 12 E			
Hicap Permanent Well #		Common Well #		Specific Capacity 0.30		2. Well Type Replacement				of previous unique well # constructed in	
Hicap Well ? No		Hicap Property ? No		Hicap Potable ?		Reason for replaced or reconstructed well ?				WELL GONE DRY	
3. Well serves 1 # of Private, potable				Heat Exchange ___ # of drillholes		Construction Type Drilled					
4. Potential Contamination Sources - ON REVERSE SIDE											
5. Drillhole Dimensions and Construction Method						8. Geology Type, Caving/Noncaving, Color, Hardness, etc...		From (ft.)		To (ft.)	
Dia. (in.)	From (ft.)	To (ft.)	Upper Enlarged Drillhole		Lower Open Bedrock	Geology Codes					
8.75	Surface	84	<u>Yes</u> Rotary - Mud Circulation		<u>No</u>	- - C - Clay		Surface		5	
6	84	152	<u>No</u> Rotary - Air		<u>Yes</u>	- - L - Limestone/Dolomite		5		98	
			<u>No</u> Rotary - Air & Foam		<u>No</u>	- - N - Sandstone		98		130	
			<u>No</u> Drill-Through Casing Hammer			- - L - Limestone/Dolomite		130		150	
			<u>No</u> Reverse Rotary			- B L - Broken, Limestone/Dolomite		150		152	
			<u>No</u> Cable-tool Bit ___in. dia...		<u>No</u>						
			<u>No</u> Dual Rotary								
			<u>No</u> Temp. Outer Casing ___in. dia								
			<u>No</u> Removed? ___depth ft. (If NO explain on back side)								
6. Casing, Liner, Screen						9. Static Water Level			11. Well Is		
Dia. (in.)	Material, Weight, Specification Manufacturer & Method of Assembly			From (ft.)	To (ft.)	47 ft. below ground surface			18 in. above grade		
6	STD. BLK. PIPE,.280 WALL, WLD., JNTS. A 53 SAWHILL			Surface	84	10. Pump Test			Developed ? Yes		
Dia. (in.)	Screen type, material & slot size			From (ft.)	To (ft.)	Pumping level 105 ft. below surface			Disinfected ? Yes		
						Pumping at 20 GP M for 1 Hrs.			Capped ? Yes		
						Pumping Method ?					
7. Grout or Other Sealing Material						12. Notified Owner of need to fill & seal ?					
Method Tremie Pipe - Pumped						Filled & Sealed Well(s) as needed? Yes					
Kind of Sealing Material		From (ft.)	To (ft.)	# Sacks Cement		13. Constructor / Supervisory Driller			Lic #	Date Signed	
Neat cement grout		Surface	84	16 S		JVG				08-29-2003	
						Drill Rig Operator			Lic or Reg #	Date Signed	
						SIVG				08-29-2003	

Well Construction Report WISCONSIN UNIQUE WELL NUMBER				Y1070		Drinking Water and Groundwater - DG/5 Department of Natural Resources, Box 7921 Madison WI 53707				Form 3300-077A						
Property Owner WAAG, GEORGE						Phone # (608)576-1005										
Mailing Address 840 CTY B						Town of CHRISTIANA						Fire # (if avail.) 840				
City CAMBRIDGE				State WI		Zip Code 53523										
County Dane		Co. Permit # 00057		Notification # 45421997		Completed 09-06-2012		Subdivision Name				Lot #		Block #		
Well Constructor (Business Name) SAM'S WELL DRILLING INC				Lic. # 370		Facility ID # (Public Wells)				Latitude / Longitude in Decimal Degree (DD) 42.9614 °N -89.0745 °W				Method Code GCD013		
Address PO BOX 150 RANDOLPH WI 53956-0150				Well Plan Approval #		NW		NE		Section 28		Township 6 N		Range 12 E		
				Approval Date (mm-dd-yyyy)		or Govt Lot #										
Hicap Permanent Well #			Common Well #			Specific Capacity 0.50						Reason for replaced or reconstructed well ? OUT OF WATER				
3. Well serves 1 # of HOME						Hicap Well ? No						Construction Type Drilled				
Private, potable						Hicap Property ? No										
Heat Exchange ___ # of drillholes						Hicap Potable ?										
4. Potential Contamination Sources - ON REVERSE SIDE																
5. Drillhole Dimensions and Construction Method																
Dia. (in.)		From (ft.)		To (ft.)		Upper Enlarged Drillhole				Lower Open Bedrock						
8.75		Surface		63		<u>Yes</u> Rotary - Mud Circulation				<u>No</u>						
6		63		118		<u>No</u> Rotary - Air				<u>Yes</u>						
						<u>No</u> Rotary - Air & Foam				<u>No</u>						
						<u>No</u> Drill-Through Casing Hammer										
						<u>No</u> Reverse Rotary										
						<u>No</u> Cable-tool Bit ___in. dia...				<u>No</u>						
						<u>No</u> Dual Rotary				<u>No</u>						
						<u>Yes</u> Temp. Outer Casing 10in. dia										
						<u>Yes</u> Removed? 2depth ft. (If NO explain on back side)										
6. Casing, Liner, Screen						9. Static Water Level				11. Well Is						
Dia. (in.)		Material, Weight, Specification Manufacturer & Method of Assembly				From (ft.)		To (ft.)		42 ft. below ground surface				15 in. above grade		
6		STD BLK, PIPE, .280 WALL, P.E., A53B EXLTUBE				Surface		63		10. Pump Test				Developed ? Yes		
Dia. (in.)		Screen type, material & slot size				From (ft.)		To (ft.)		Pumping level 80 ft. below surface				Disinfected ? Yes		
										Pumping at 20 GP M for 1 Hrs.				Capped ? Yes		
										Pumping Method ?						
7. Grout or Other Sealing Material						12. Notified Owner of need to fill & seal ?										
Method Tremie Pipe - Pumped						Filled & Sealed Well(s) as needed? No										
Kind of Sealing Material			From (ft.)		To (ft.)		# Sacks Cement		13. Constructor / Supervisory Driller				Lic #		Date Signed	
Neat cement grout			Surface		63		10 S		JVG						09-06-2012	
						Drill Rig Operator				Lic or Reg #		Date Signed				
						SVG						09-06-2012				

Well Construction Report WISCONSIN UNIQUE WELL NUMBER				KU197		Drinking Water and Groundwater - DG/5 Department of Natural Resources, Box 7921 Madison WI 53707				Form 3300-077A
Property Owner NELSON, DOUG				Phone # (608)873-0472		1. Well Location				Fire # (if avail.)
Mailing Address 2107 UTICA RD						Town of CHRISTIANA				
City CAMBRIDGE				State WI	Zip Code 53523	Street Address or Road Name and Number				
County Dane	Co. Permit # W12892	Notification #	Completed 07-01-1996	Subdivision Name			Lot #	Block #		
Well Constructor (Business Name) SAMS ROTARY DRILLERS INC			Lic. # 370	Facility ID # (Public Wells)		Latitude / Longitude in Decimal Degree (DD)			Method Code	
Address PO BOX 150 RANDOLPH WI 53956-0150			Well Plan Approval #		°N °W		GPS008			
Hicap Permanent Well #			Common Well #	Specific Capacity 0.70		NW	NW	Section 29	Township 6 N	Range 12 E
3. Well serves 1 # of Private, potable			Hicap Well ? No		2. Well Type New Well		of previous unique well # constructed in			
Heat Exchange ___ # of drillholes			Hicap Property ? No		Reason for replaced or reconstructed well ?		HOME			
			Hicap Potable ?		Construction Type Drilled					
4. Potential Contamination Sources - ON REVERSE SIDE										
5. Drillhole Dimensions and Construction Method						8. Geology Type, Caving/Noncaving, Color, Hardness, etc...		From (ft.)	To (ft.)	
Dia. (in.)	From (ft.)	To (ft.)	Upper Enlarged Drillhole		Lower Open Bedrock	Geology Codes				
8.75	Surface	91	Yes Rotary - Mud Circulation			X	CLAY @ SAND	Surface	3	
6	91	153	Rotary - Air			Y	SAND @ GRAVEL	3	65	
			Rotary - Air & Foam			C	CLAY	65	67	
			Drill-Through Casing Hammer			N	SANDROCK	67	135	
			Reverse Rotary			L	LIMEROCK	135	153	
			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				9. Static Water Level				11. Well Is		
Dia. (in.)	Material, Weight, Specification Manufacturer & Method of Assembly			From (ft.)	To (ft.)	56 ft. below ground surface			18 in. above grade	
6	STD BLK PIPE 280 WALL WELD JTS A 53 SAWHILL			Surface	91	10. Pump Test			Developed ? Yes	
Dia. (in.)	Screen type, material & slot size			From (ft.)	To (ft.)	Pumping level 85 ft. below surface			Disinfected ? Yes	
						Pumping at 20 GP M for 1 Hrs.			Capped ? Yes	
						Pumping Method ?				
7. Grout or Other Sealing Material						12. Notified Owner of need to fill & seal ?				
Method TREMIE PUMPED						Filled & Sealed Well(s) as needed?				
Kind of Sealing Material		From (ft.)	To (ft.)	# Sacks Cement		13. Constructor / Supervisory Driller			Lic #	Date Signed
CEMENT		Surface	91	15 S		SV				07-18-1996
						Drill Rig Operator			Lic or Reg #	Date Signed
						STUK				07-18-1996

Well Construction Report WISCONSIN UNIQUE WELL NUMBER				LL835		Drinking Water and Groundwater - DG/5 Department of Natural Resources, Box 7921 Madison WI 53707				Form 3300-077A			
Property Owner MAC, DAVID				Phone # (608)873-8037		1. Well Location				Fire # (if avail.)			
Mailing Address 1324 VERNON ST						Town of CHRISTIANA							
City STOUGHTON				State WI	Zip Code 53589	Street Address or Road Name and Number							
County Dane				Co. Permit # W14112	Notification #	Completed 07-08-1997	Subdivision Name CSM 8022		Lot # 2	Block #			
Well Constructor (Business Name) SAMS ROTARY DRILLERS INC				Lic. # 370	Facility ID # (Public Wells)		Latitude / Longitude in Decimal Degree (DD)		Method Code GCD013				
Address PO BOX 150 RANDOLPH WI 53956-0150				Well Plan Approval #		or Govt Lot #		NW	NW	Section 29	Township 6 N	Range 12 E	
				Approval Date (mm-dd-yyyy)		Reason for replaced or reconstructed well ?		HOME					
Hicap Permanent Well #		Common Well #		Specific Capacity 0.60		3. Well serves 1 # of HOME		Hicap Well ? No		Private, potable		Hicap Property ? No	
						Heat Exchange ___ # of drillholes		Hicap Potable ?		Construction Type Drilled			
4. Potential Contamination Sources - ON REVERSE SIDE													
5. Drillhole Dimensions and Construction Method						8. Geology Type, Caving/Noncaving, Color, Hardness, etc...		From (ft.)		To (ft.)			
Dia. (in.)	From (ft.)	To (ft.)	Upper Enlarged Drillhole			Lower Open Bedrock							
6	Surface	157	Rotary - Mud Circulation						Surface		4		
			Rotary - Air						4		37		
			Rotary - Air & Foam						37		74		
			Drill-Through Casing Hammer						74		157		
			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						9. Static Water Level			11. Well Is				
Dia. (in.)	Material, Weight, Specification Manufacturer & Method of Assembly			From (ft.)	To (ft.)	55 ft. below ground surface			18 in. above grade				
6	STD BLK PIPE 280 WALL WLD JTS A 53 SAWHILL			Surface	74	10. Pump Test			Developed ? Yes				
Dia. (in.)	Screen type, material & slot size			From (ft.)	To (ft.)	Pumping level 90 ft. below surface			Disinfected ? Yes				
						Pumping at 20 GP M for 1 Hrs.			Capped ? Yes				
						Pumping Method ?							
7. Grout or Other Sealing Material						12. Notified Owner of need to fill & seal ?							
Method						Filled & Sealed Well(s) as needed?							
Kind of Sealing Material		From (ft.)	To (ft.)	# Sacks Cement		13. Constructor / Supervisory Driller			Lic #	Date Signed			
GRANULAR BENTONITE		Surface	0	2 S		SVJ				07-15-1997			
						Drill Rig Operator			Lic or Reg #	Date Signed			
						SUK				07-15-1997			

APPENDIX D

AGGREGATE PRODUCTS LIST

AGGREGATE PRODUCTS LIST

Rip-rap- various sizes

Clear stone- various sizes

Crushed stone- various sizes

Screenings- various sizes

Breaker run

Granular fill

Crushed granular fill

APPENDIX E

WDNR PERMIT AND STORM WATER POLLUTION PREVENTION PLAN



July 30, 2020

Jeff Furseth
Forever Sandfill and Limestone
353 Haugen Rd
Edgerton WI 53534
Via email: dispatch@halversoncompanies.com

Subject: Nonmetallic Mining Operations General Permit No. WI-A046515-06 Coverage for

Facility: Forever Sandfill and Limestone
Site: Forever Sandfill and Limestone Wrigley Field Quarry
Location: CTH B, Cambridge, WI (Town of CHRISTIANA)
FIN: 72794

Dear Jeff Furseth:

Pollutants discharged from industrial sites threaten or degrade water quality in many areas of the state. Because of this problem, state and federal laws require that certain industrial dischargers have a water pollution discharge permit. The purpose of the permit is to identify conditions under which industrial facilities can discharge so that the quality of surface waters, wetlands and groundwater will be protected.

The Department of Natural Resources (Department) has evaluated the Notice of Intent you submitted for the facility named above and has determined that discharges from this facility will be regulated in accordance with the WPDES Nonmetallic Mining Operations General Permit No. WI-A046515-06 (“general permit”). Industrial discharges at your facility must comply with the terms and conditions of the general permit unless such discharges are covered by another WPDES permit or equivalent Department approval. The general permit is available from the Department’s Internet website at: <http://dnr.wi.gov/topic/wastewater/GeneralPermits.html>. If, for any reason, you are unable to access the general permit over the Internet, please telephone the Department at the number at the end of this letter for assistance. It is important that you read and understand the terms and conditions of the general permit because it is enforceable under both state and federal law.

The **Effective Date (Start Date)** for coverage of your facility under the general permit is **July 30, 2020**. Your schedule for meeting many of the requirements under the general permit is based on this **Effective Date (Start Date)**.

Please note that the general permit covers both storm water discharges and wastewater discharges. All facilities covered by the general permit must follow and comply with section 3 of the general permit, *Storm Water Control Requirements*. Facilities with wastewater discharges as specified in section 1.1 have additional requirements in sections 4 and 5 of the general permit, *Requirements for Wastewater Discharges to Groundwater Via Infiltration* and *Requirements for Wastewater Discharges to Surface Waters*, respectively. The permittee is responsible for knowing the provisions in the general permit and complying with all applicable requirements.

You may petition the Department to withdraw coverage under this general permit and to replace it with a more detailed site-specific individual permit. The Department is required by s. 283.35(2), Wis. Stats., to honor such a petition. Under these circumstances, you would be required to submit a detailed application for an individual WPDES permit. Please be advised that if the Department issues a site-specific individual permit for your facility, the annual fee shall be \$500.00.

If you believe that you have a right to challenge this decision, you should know that the Wisconsin statutes and administrative rules establish time periods within which requests to review Department decisions must be filed. For judicial review of a decision pursuant to ss. 227.52 and 227.53, Wis. Stats., you have 30 days after the decision is mailed, or otherwise served by the Department, to file your petition with the appropriate circuit court and serve the petition on the Department. Such a petition for judicial review must name the Department of Natural Resources as the respondent.

To request a contested case hearing pursuant to s. 227.42, Wis. Stats., you have 30 days after the decision is mailed, or otherwise served by the Department, to serve a petition for hearing on the Secretary of the Department of Natural Resources. All requests for contested case hearings must be made in accordance with s. NR 2.05(5), Wis. Adm. Code, and served on the Secretary in accordance with s. NR 2.03, Wis. Adm. Code. The filing of a request for a contested case hearing is not a prerequisite for judicial review and does not extend the 30 day period for filing a petition for judicial review.

Unless otherwise notified, all information that you submit to the Department in fulfillment of your general permit requirements should be mailed to the following address:

Wisconsin Department of Natural Resources
Attn: James Martin
3911 Fish Hatchery Road
Fitchburg, WI 53711

Additional information, including applicable forms, is available from the Department's Internet website at: <http://dnr.wi.gov/topic/wastewater/GeneralPermits.html>. If you do not understand any portion of the general permit or have questions about its requirements, please do not hesitate to contact James Martin at (608) 669-2439.

Sincerely,



James Martin
Storm Water Management Specialist
South Central Region



72794 Wrigley Field Quarry



Legend

- Wetland Identifications and Confirmations
- Wetland Class Points**
 - Dammed pond
 - Excavated pond
 - Filled excavated pond
 - Filled/draind wetland
 - Wetland too small to delineate
- Filled Points
- Wetland Class Areas**
 - Wetland
 - Upland
- Filled Areas
- Wetland Class Points**
 - Dammed pond
 - Excavated pond
 - Filled excavated pond
 - Filled/draind wetland
 - Wetland too small to delineate
- Filled Points
- Wetland Class Areas**
 - Wetland
 - Upland
- Filled Areas
- NRCS Wetspots
- Maximum Extent Wetland Indicators
- County Boundary
- Cities, Towns & Villages**
 - City
 - Village
 - Civil Town
- Municipality
- State Boundaries
- County Boundaries



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DISCLAIMER: The information shown on these maps has been obtained from various sources, and are of varying age, reliability and resolution. These maps are not intended to be used for navigation, nor are these maps an authoritative source of information about legal land ownership or public access. No warranty, expressed or implied, is made regarding accuracy, applicability for a particular use, completeness, or legality of the information depicted on this map. For more information, see the DNR Legal Notices web page: <http://dnr.wi.gov/legal/>

Notes



**STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES**

**GENERAL PERMIT TO DISCHARGE UNDER THE
WISCONSIN POLLUTANT DISCHARGE ELIMINATION SYSTEM
WPDES PERMIT NO. WI-A046515-6**

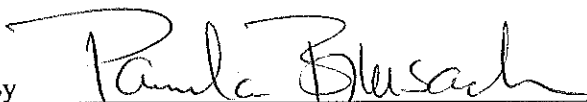
In compliance with the provisions of Chapter 283, Wis. Stats., and ch. NR 216, Wis. Adm. Code, any facility located in the State of Wisconsin, excluding initial coverage within Indian Country after September 30, 2001, engaging in

NONMETALLIC MINING OPERATIONS (NON-INDUSTRIAL SAND AND OTHER AGGREGATES)

and meeting the applicability criteria in section 1 of this permit and that receives a letter from the Wisconsin Department of Natural Resources (Department) granting coverage under this permit, is authorized to discharge storm water and wastewater to waters of the state provided that the discharge is in accordance with the conditions set forth in this permit.

This permit is issued by the Department and covers discharges from the facility as of the **Start Date** of permit coverage to the permittee. For initial permit coverage, the Department will transmit a cover letter to the permittee stating that the facility is covered under this permit. Initial coverage under this permit will become effective at a new facility beginning upon the **Start Date** specified by the Department in the cover letter. For an existing facility with permit coverage under a previously issued version of a nonmetallic mining operations general permit, coverage under this permit will become effective at the facility beginning upon the **Effective Date** below. For these facilities, the **Effective Date** is the **Start Date**.

State of Wisconsin Department of Natural Resources, For the Secretary

By 
Pamela A. Biersach, Director
Bureau of Watershed Management

July 29, 2016
Date Permit Signed

PERMIT EFFECTIVE DATE: August 1, 2016

EXPIRATION DATE: July 31, 2021

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1. APPLICABILITY CRITERIA

1.1 Activities Covered

Unless otherwise excluded from coverage under section 1.3, this permit applies to the discharge of pollutants associated with storm water and wastewater from any active and inactive nonmetallic mining operation as defined by Standard Industrial Classification (SIC) Code 1400 to 1499, except SIC Code 1446, to waters of the state either directly or indirectly via a storm sewer or other conveyance. For the purposes of this permit, storm water co-mingled with a wastewater described in sections 1.1.2 through 1.1.7 below is considered wastewater. Additionally, storm water collected and used for washing, cleaning, separating, or processing nonmetallic minerals is considered process wastewater when discharged.

Note: Nonmetallic mining operations as defined under SIC Code 1446 (Industrial Sand) are covered under WPDES Permit No. WI-B046515-6.

Ready-mixed concrete operations defined by SIC Code 3273 that are contiguous to or located within the nonmetallic mining operation may also be covered under this permit when the permitted nonmetallic mining operator accepts or has legal responsibility for the concrete operation's wastewater and/or storm water discharges. Ready-mixed concrete product process wastewater, such as contact cooling water, condensate, material washwater, and equipment washwater, may be discharged along with nonmetallic mining wastewater under this permit.

Nonmetallic mining operations covered by this permit include sites and equipment engaged in excavation, dredging, or processing of sand, gravel, dimension stone, crushed stone, rotten granite, clay, concrete rubble/aggregate recycle piles or other similar activities, that result in a discharge to waters of the state of one or more of the following:

1.1.1 Contaminated storm water.

1.1.2 Process wastewater associated with washing, cleaning, drying, separating, or processing nonmetallic minerals.

1.1.3 Dewatering activities.

1.1.4 Contact and noncontact cooling water, condensate or boiler water.

1.1.5 Dust suppression water.

1.1.6 Water from the outside washing of vehicles, equipment, or other objects except as provided in section 1.3.8.

1.1.7 Other similar wastewaters.

1.2 Individual Permit Coverage

In accordance with s. 283.35(3), Wis. Stats. or s. NR 216.25(3) Wis. Adm. Code, if the Department determines that discharges from a nonmetallic mining operation are more appropriately covered under an individual WPDES permit, the Department may deny coverage or revoke coverage under this permit and issue an individual WPDES Permit to that nonmetallic mining operation. The determination to cover discharges

associated with a nonmetallic mining operation under an individual WPDES permit may apply to either storm water discharges or wastewater discharges, or to both.

1.3 Discharges Not Covered

The following are not authorized under this permit:

- 1.3.1** Storm water and wastewater discharges from nonmetallic mining operations that include industrial sand mining as defined under SIC Code 1446 (Industrial Sand).
- 1.3.2** Storm water discharges within Indian Country for which initial coverage under this permit is sought after September 30, 2001. Industrial storm water discharges within Indian Country from non-tribal lands that have state coverage under a general storm water permit prior to September 30, 2001, continue to be covered under this permit for purposes of state law.

Note: Indian County is defined under 18 USC §1151. Contact the Department at (608) 267-7694 for non-tribal storm water discharges within Indian Country to determine if state permit coverage from the Department is required.
- 1.3.3** Storm water and wastewater discharges of hazardous substances that are required to be reported under ch. NR 706, Wis. Adm. Code.
- 1.3.4** Wastewater discharges from the following nonmetallic mining processes: Crushed stone chemical flotation, construction sand and gravel heavy liquid chemical separation, industrial sand chemical flotation, and industrial sand acid leaching extraction.
- 1.3.5** Wastewater discharges from the manufacturing of cement by the kiln dust process.
- 1.3.6** Discharges of wastewater from the washing of a precast concrete surface treated with retarder to expose aggregate after the unset surface cement is cleaned off.
- 1.3.7** Wastewater discharges from the regeneration of ion exchange water treatment units.
- 1.3.8** Wastewater discharges from the use of petroleum or halogenated hydrocarbon degreasing agents during the washing of vehicles, equipment or other objects, and wastewater discharges containing petroleum products or volatile organic solvents such as from engine degreasing, or washing off diesel or gasoline.
- 1.3.9** Wastewater discharges from areas subject to the remediation of environmental contamination regulations under the NR 700 Wis. Adm. Code series.
- 1.3.10** Wastewater discharges of noncontact cooling water treated with biocides, except that uncontaminated water from a municipal water supply may be discharged.
- 1.3.11** Storm water and wastewater discharges that affect wetlands, unless the Department determines that the discharges comply with the wetland water quality standards provisions in ch. NR 103, Wis. Adm. Code.

1.3.12 Storm water and wastewater discharges that affect endangered and threatened resources, unless the Department determines that the discharges comply with the endangered and threatened resource protection requirements of s. 29.604, Wis. Stats., and ch. NR 27, Wis. Adm. Code.

1.3.13 Storm water and wastewater discharges that affect any historic property that is listed property, or on the inventory or on the list of locally designated historic places under s. 44.45, Wis. Stats., unless the Department determines that the discharges will not have an adverse effect on any historic property pursuant to s. 44.40 (3), Wis. Stats.

1.3.14 A discharge of a pollutant to surface water via wastewater directly to an outstanding resource water (ORW) as defined in s. NR 102.10, Wis. Adm. Code, or discharges of wastewater that would lower the water quality of a downstream ORW.

1.3.15 A discharge of a pollutant to surface water via wastewater directly to an exceptional resource water (ERW) as defined in s. NR 102.11, Wis. Adm. Code, or discharges of wastewater that would lower the water quality of a downstream ERW.

1.3.16 Storm water discharges to an ORW or an ERW, except as provided in section 1.4 of this permit.

1.3.17 Storm water and wastewater discharges containing pollutants in quantities that must be limited to prevent harm to animals, aquatic life, or human health, to prevent violation of the surface water quality standards in chs. NR 102, NR 105, NR 106, and NR 207, Wis. Adm. Code, or to prevent violation of the groundwater standards in ch. NR 140, Wis. Adm. Code.

1.3.18 Storm water and wastewater discharges from sanitary waste systems or remediation activities.

1.3.19 Discharges directly to surface water of dewatering water associated with sediment removed for maintenance of storm water best management practices or sludge removed for maintenance of wastewater treatment facilities.

1.3.20 Discharges directly to surface water of storm water coming into contact with sediment removed for maintenance of storm water best management practices or sludge removed for maintenance of wastewater treatment facilities.

1.3.21 Storm water and wastewater discharges in violation of the regulation of injection wells under ch. NR 815, Wis. Adm. Code.

Note: Information about the Department's injection well program may be found at:
<http://dnr.wi.gov/topic/wells/uiw.html>

1.4 Storm Water Discharges to Outstanding and Exceptional Resource Waters

Note: Under sections 1.3.14 and 1.3.15, a discharge of a pollutant to surface water via wastewater to an ORW or ERW is not authorized under this permit. This section 1.4 applies only to storm water discharges.

1.4.1 Within 12 months after the **Effective Date** of this permit, the permittee shall comply with sections 1.4.2 through 1.4.5 of this permit. Storm water discharges from nonmetallic mining operations covered under this permit 12 or more months after the **Effective Date** of this permit shall comply with sections 1.4.2 through 1.4.5 of this permit as of the **Start Date** of coverage under this permit.

1.4.2 The permittee shall determine whether any part of its facility discharges storm water to an ORW or ERW. ORWs and ERWs are listed in ss. NR 102.10 and 102.11, Wis. Adm. Code, respectively.

Note: A list of ORWs and ERWs may be found on the Department's Internet site at:
<http://dnr.wi.gov/topic/surfacewater/orwerw.html>

1.4.3. The permittee may not establish a new storm water discharge of pollutants directly to an ORW or an ERW unless the discharge of pollutants is equal to or less than existing levels of pollutants immediately upstream of the discharge site. The storm water pollution prevention plan required under section 3 of this permit shall include practices designed to meet this requirement for new discharges.

1.4.3.1. "New storm water discharge" or "new discharge" means a storm water discharge that would first occur after the permittee's **Start Date** of coverage under this permit to a surface water to which the facility did not previously discharge storm water, and does not include an increase in a storm water discharge to a surface water to which the facility discharged on or before coverage under this permit.

Note: Off-site and up-gradient storm water that is diverted from a nonmetallic mining operation is not a new storm water discharge under this section provided the diversion pathway is stabilized to prevent erosion and there is no contact with activities associated with the non-metallic mining operation.

1.4.4 The permittee may increase an existing storm water discharge directly to an ERW only if the increased discharge will not cause a significant lowering of water quality and the discharge is related to important economic or social development.

1.4.5 The permittee may increase an existing storm water discharge directly to an ORW only if the increased discharge of pollutants is equal to or less than the background levels of the pollutant upstream of the discharge and the discharge is related to important economic or social development.

2. REQUIREMENTS FOR ALL SITES

2.1 Dikes and Berms

There shall be no discharge off-site due to above ground leakage through or flow over the top of dikes or berms utilized for holding or diverting wastewater or storm water except through outfall structures, spillways, or channels designed to withstand the force of flowing water. Dikes and berms shall be structurally sound and designed and constructed utilizing sound engineering principles and practices to contain the expected volume of wastewater, storm water, and direct precipitation.

Note: Section 2.1 does not apply to berms installed and maintained solely for the purpose of safety in conformance with the U.S. Mine Safety and Health Administration regulations.

2.2 Wastewater Treatment Facilities

A wastewater treatment facility shall be managed so the treatment facility has sufficient capacity to contain without discharge to waters of the state, all wastewater and direct precipitation resulting from a 10-year, 24-hour design storm event that falls within the treatment facility.

2.3 Dewatering of Water from Sediment and Sludge

Dewatering water from sediment removed for maintenance of storm water best management practices and sludge removed for maintenance of wastewater treatment facilities shall not discharge directly to a surface water and shall meet the requirements of this permit prior to discharge. The residual water shall be recycled for process water or makeup water whenever possible.

Note: Dewatered sediment or sludge disposed of off-site may be subject to other Department regulatory requirements as specified in s. NR 205.07(3)(a), Wis. Adm. Code. Dewatered sediment or sludge stored and used on-site for nonmetallic mining reclamation may be subject to other Department regulatory requirements as specified in chs. NR 135, NR 340, and/or NR 500 to 538, Wis. Adm. Code.

2.4 Storm Water Diversion

To reduce the volume or incidence of discharges from wastewater treatment facilities to a surface water, to the maximum extent practicable the permittee shall divert storm water not used for process water or makeup water from wastewater treatment facilities. Diversion includes activities and/or structural practices to direct the flow of storm water away from wastewater treatment facilities.

2.5 Dust Suppression Control for Roads

Collected storm water and wastewater may be used for road dust suppression. The permittee shall not use excess water in roadway dust suppression practices that will result in a discharge of the dust suppression water to a surface water or result in dust suppression water running off the nonmetallic mining site. Wastewater and storm water containing pollutants other than suspended solids may not be used for dust suppression activities. Road dust suppression water used in accordance with this section 2.5 does not require monitoring under sections 4 or 5 of this permit.

Note: Further guidance is available from the *Wisconsin Transportation Bulletin No. 13, Dust Control on Unpaved Roads*, at: http://epdfiles.engr.wisc.edu/pdf_web_files/tic/bulletins/Bltn_013_DustControl.pdf

2.6 Outside Washing Activities

Wastewater from the outside washing of vehicles, equipment, or other objects shall not discharge directly to surface water and shall meet the requirements of this permit prior to discharge. Biodegradable soaps shall be used, and the washing of road deicing chemicals to infiltration areas shall be minimized.

2.7 Polyacrylamide and Other Water Treatment Additives

If a polyacrylamide product is used as a water treatment additive, the amount of acrylamide monomer in the additive shall be no more than 0.05% by weight. Within 30 days of the effective date of this permit or prior to use of a polyacrylamide product, the permittee shall provide to the Department in writing the additive name and manufacturer, and shall certify to the Department in writing that the acrylamide monomer content does not exceed 0.05% by weight. The permittee may use a third-party or manufacturer's certification to verify the percent of acrylamide content. The maximum dose of polyacrylamide product used shall be no more than necessary to achieve effective sedimentation in the treatment process.

Note: The 0.05% acrylamide monomer content by weight in a polyacrylamide water treatment additive is consistent with the USEPA's requirement for drinking water treatment. See <http://water.epa.gov/drink/contaminants/basicinformation/acrylamide.cfm>

A water treatment additive discharged directly to a surface water has the potential to cause toxicity to fish and aquatic organisms. Discharges of wastewater to a surface water containing a water treatment additive added to a wastewater treatment facility is prohibited under this general permit unless use of the entire product (all active ingredients including carriers, buffering agents, binding agents, and additional materials) of the water treatment additive receives an allowable usage rate from the Department prior to use. The permittee shall maintain records of the monthly water treatment additive usage in accordance with section 5.2.5. Records of monthly water treatment additive usage shall be provided to the Department upon request.

Note: The Department uses the guidance document, *Water Quality Review Procedures for Additives* (3400-2015-03), to determine the allowable additive usage rate. Appendix C of the guidance provides more detailed information that the Department requires under sections 2.7.1 to establish an allowable usage rate. The guidance document is available from the Department's website at: <http://dnr.wi.gov/topic/wastewater/Guidance.html>

2.7.1 A permittee proposing to use a water treatment additive that will discharge to surface water for which an allowable usage rate has not already been established by the Department shall provide the following information:

2.7.1.1 Product information.

2.7.1.2 Dosage and application information.

2.7.1.3 Aquatic toxicity test parameters.

2.7.1.4 Aquatic toxicity test results.

2.7.2 A specific water treatment additive for a product which the Department has already established an allowable usage rate may be used without repeating the procedures in section 2.7.1 provided the additive is used in accordance with the established allowable usage rate. The maintenance of monthly records in section 5.2.5 shall apply.

2.8 Impaired Water Bodies and Total Maximum Daily Load Requirements

2.8.1 "Pollutant(s) of concern" means a pollutant that is contributing to the impairment of a water body.

2.8.2 By February 15th of each calendar year, the permittee shall perform an annual check to determine whether its facility discharges a pollutant of concern to an impaired water body listed in accordance with Section 303(d)(1) of the Federal Clean Water Act, 33 USC §1313(d)(1)(C), and the implementing regulation of the U.S. Environmental Protection Agency, 40 CFR §130.7(c)(1). The results of the annual check shall be documented with the Annual Facility Site Compliance Inspection required under section 3.2 of this permit.

Note: The list of Wisconsin impaired surface water bodies may be obtained by contacting the Department or by searching for keyword “impaired waters” on the Department’s Internet site. The Department updates the list approximately every two years. The updated list is effective upon approval by EPA. The current list may be found on the Department’s Internet site at: <http://dnr.wi.gov/topic/impairedwaters/>

2.8.3 A permittee that discharges a pollutant of concern via storm water to an impaired water body shall, within 180 days of the annual check that determines the facility discharges to an impaired water body, include a written section in a storm water pollution prevention plan that specifically identifies source area pollution prevention controls and storm water best management practices that will collectively be used to reduce, with the goal of eliminating, the storm water discharge of pollutant(s) of concern that contribute to the impairment of the water body and explain why these controls and practices were chosen as opposed to other alternatives. If the pollutant of concern is discharged via wastewater, the permittee shall determine whether additional wastewater pollution prevention controls or wastewater treatment facilities will be used to reduce, with the goal of eliminating, the wastewater discharge of pollutant(s) of concern that contribute to the impairment of the water body. Changes identified in the storm water pollution prevention plan or additional wastewater pollution prevention controls or wastewater treatment facilities needed to treat wastewater shall be implemented with the 180-day timeframe.

Note: For a permittee that discharges a pollutant of concern via storm water to an impaired water body, amending the storm water pollution prevention plan will be required after the initial annual check and if subsequent annual checks indicate additional pollutants of concern have been added, additional water bodies have been designated as impaired, or other relevant changes to the designation have occurred.

2.8.4 The permittee may not establish a new storm water discharge or new discharge of wastewater of a pollutant of concern to an impaired water body or significantly increase an existing discharge of a pollutant of concern to an impaired water body unless the new or increased discharge does not contribute to the receiving water impairment, or the discharge is consistent with a State and Federal approved total maximum daily load (TMDL) allocation for the impaired water body.

2.8.4.1. “New storm water discharge” or “new discharge” means a discharge that would first occur after the permittee’s **Start Date** of coverage under this permit to a surface water to which the facility did not previously discharge, and does not include an increase in a discharge to a surface water to which the facility discharged on or before coverage under this permit.

2.8.5 By February 15th each calendar year, the permittee shall perform an annual check to determine whether its facility discharges a storm water or wastewater pollutant of concern to a water body included in a State and Federal approved TMDL. If so, the permittee shall assess whether the TMDL wasteload allocation for the facility’s discharge is being met through the existing source area pollution prevention controls, storm water best management practices, wastewater pollution prevention controls, or wastewater treatment facilities, or whether additional controls or treatment are necessary and feasible. The assessment of the feasibility of additional controls or treatment shall focus on the ability to improve the pollution

prevention and treatment system effectiveness and the adequacy of implementation and maintenance of the additional controls or treatment. The results of the annual check shall be documented with the Annual Facility Site Compliance Inspection required under section 3.2 of this permit.

Note: State and Federal approved TMDLs can be identified by contacting the Department, or by searching for keyword “TMDL” on the Department Internet site. The current State and Federal approved Final TMDLs may be found on the Department’s Internet site at: <http://dnr.wi.gov/topic/tmdls/>

2.8.6 Within 180 days of the annual check that determines the facility discharges to a TMDL allocated water body, a permittee that is included in a State and Federal approved TMDL shall submit to the Department a proposed implementation plan for the storm water and wastewater discharges that meets the requirements of the State and Federal approved TMDL wasteload allocation for the facility. The proposed TMDL implementation plan shall specify any feasible pollution prevention and treatment improvements that could be made and specify any revisions or redesigns that could be implemented to increase the effectiveness of the permittee’s storm water and wastewater pollution prevention controls and treatment practices. The TMDL implementation plan shall also specify a time schedule for implementation of the improvements, revisions, or redesigns necessary to meet the wasteload allocation for the facility. If a specific wasteload allocation has not been assigned to the facility under a TMDL, compliance with this permit shall be deemed to be in compliance with the TMDL.

2.9 Fish and Aquatic Life Waters

2.9.1 The permittee shall determine whether it will have a storm water or wastewater discharge to a fish and aquatic life water as defined in s. NR 102.13, Wis. Adm. Code.

Note: Most receiving waters of the state are classified as a fish and aquatic life waters and this classification includes all surface waters of the state except ORWs, ERWs, Great Lakes system waters and variance waters identified within ss. NR 104.05 through 104.10, Wis. Adm. Code. The Department may be consulted if the permittee is not certain of the classification.

2.9.2 The permittee may not establish a new discharge of pollutants to a fish and aquatic life water if the discharge will result in the significant lowering of water quality of the fish and aquatic life water. Significant lowering of water quality is defined within ch. NR 207, Wis. Adm. Code.

2.9.2.1 “New discharge” means a discharge that would first occur after the permittee’s **Start Date** of coverage under this permit to a surface water to which the facility did not previously discharge, and does not include an increased discharge to a surface water to which the facility discharged on or before coverage under this permit.

2.9.3 If the permittee’s facility has an existing discharge to a fish and aquatic life water, it may not increase the discharge of pollutants if the increased discharge would result in a significant lowering of water quality.

2.9.4 Any increased or new discharge of storm water or wastewater authorized under this permit shall be related to important economic or social development.

Note: New or increased discharges of wastewater directly to ERW or ORW waters are not authorized under this general permit. See sections 1.3.14 and 1.3.15.

2.10 Toxic Pollutants

In accordance with s. NR 102.12 Wis. Adm. Code, a new discharge and increased discharge as defined in ch. NR 207, Wis. Adm. Code, of persistent, bioaccumulating toxic substances to the Great Lakes waters or their tributaries shall be avoided or limited to the maximum extent practicable. Any new or increased discharge of these substances is prohibited unless the permittee certifies that the new or increased discharge is necessary after utilization of best technology in process or control using waste minimization, pollution prevention, municipal pretreatment programs, material substitution or other means of commercially available technologies which have demonstrated capability for similar applications.

2.11 Compliance with Water Quality Standards

All discharges of storm water shall comply with water quality standards. All discharges of wastewater to waters of the state shall comply with state water quality standards and groundwater standards.

2.12 Application for Permit Coverage

2.12.1 Initial Permit Coverage

The owner or operator of a nonmetallic mining operation meeting the applicability criteria in section 1.1 and not previously covered under a general permit for nonmetallic mining operations shall submit a complete Notice of Intent (NOI) to the Department to apply for permit coverage in accordance with the timeframes in s. NR 216.22(2), Wis. Adm. Code. Unless the nonmetallic mining operation is internally drained in accordance with section 3, the storm water pollution prevention plan (SWPPP) required under section 3.3 shall be completed prior to submitting the NOI. The NOI submittal shall include the SWPPP summary required under section 3.3.1 of this permit. The SWPPP shall be submitted to the Department upon request. Within 30 calendar days of receipt of the NOI, the Department will evaluate the information submitted in the NOI to determine whether the NOI is complete, whether additional information is needed for review, whether the facility will be covered under this permit or an individual permit, or whether coverage under a permit will be denied. Based upon this evaluation, unless notified to the contrary by the Department, within 30 calendar days of receipt of the NOI the Department will transmit a cover letter to the owner or operator indicating the **Start Date** upon which permit coverage becomes effective at the facility with instructions on where to download the permit from the Department's Internet website. In the alternative, a hard copy of the permit will be mailed to the owner or operator of the facility upon request.

Note: The NOI form for nonmetallic mining operations (Form 3400-179) and general permit are available for download from the Department's Internet website at: <http://dnr.wi.gov/topic/stormwater/industrial/forms.html>. If, for any reason, you are unable to access the permit over the Internet, please telephone the Department at (608) 267-7694 for assistance.

2.12.2 Existing Permit Coverage

Unless the Department makes a determination for an individual WPDES permit under section 1.2, a nonmetallic mining operation meeting the applicability criteria of section 1.1 with existing WPDES general permit coverage prior to the **Effective Date** of this permit for a discharge described in sections 1.1.1 through 1.1.7 is automatically covered under this permit as of the **Effective Date**. For these permittees, the **Effective Date** is the permittee's **Start Date**. The Department will notify the owner or operator of the nonmetallic mining operation of continued coverage under this permit with instructions on where to download the permit from the Department's Internet website. In the alternative, a hard copy of the permit will be mailed to the owner or operator of the facility upon request.

Note: The general permit is available for download from the Department's Internet website at:

<http://dnr.wi.gov/topic/stormwater/industrial/forms.html>

If, for any reason, you are unable to access the permit over the Internet, please telephone the Department at (608) 267-7694 for assistance.

2.12.3 Permit Coverage Transfers

In accordance with s. NR 216.31, Wis. Adm. Code, a permittee who will no longer control the permitted nonmetallic mining operation may request that permit coverage be transferred to the person who will control the operation.

2.12.4 Permit Coverage Terminations

If the permittee no longer claims coverage under this permit, the permittee shall submit a signed Notice of Termination to the Department in accordance with s. NR 216.32, Wis. Adm. Code.

Note: The NOT form (Form 3400-170) is available on the Department website at:

<http://dnr.wi.gov/topic/stormwater/industrial/forms.html>

3. STORM WATER CONTROL REQUIREMENTS

Note: This section 3 does not apply to wastewater discharges.

Nonmetallic mining operations meeting the applicability criteria in section 1.1 that have storm water contact with overburden, raw materials, intermediate products, final products, waste materials, by-products, material handling equipment or other nonmetallic mining machinery shall implement storm water best management practices and meet the requirements in this section as specified below.

Internally drained nonmetallic mining operations: Under s. NR 216.30(2), Wis. Adm. Code, a nonmetallic mining operation is internally drained if all storm water that contacts disturbed areas or excavated material is directed to onsite infiltration areas that are entirely confined and retained within the property boundaries of the site. For the purposes of this permit, a nonmetallic mining operation is internally drained if all storm water up to the 25-year, 24-hour frequency storm that falls directly on disturbed areas or comes into contact with excavated material and containing only sediment is entirely captured and contained or infiltrated within the nonmetallic mining operation. To verify internal drainage, the Department may request the technical information used by an applicant or permittee to claim internal drainage and/or inspect the nonmetallic mining operation. For an internally drained nonmetallic mining operation, the permittee shall comply with sections 3.1 and 3.2 but is exempt from sections 3.3 to 3.7.

Note: Haul roads are considered part of the nonmetallic mine facility. If haul roads are stable and associated ditches are well vegetated and in a stable condition, the Department may exclude them from consideration of the internally drained determination.

Externally drained nonmetallic mining operations: For an externally drained nonmetallic mining operation, the permittee shall comply with sections 3.1 to 3.7.

3.1 Physical Controls

Nonmetallic mining operations covered under this permit shall implement the following physical controls to prevent the discharge of storm water contaminants.

3.1.1 Minimum Source Area Pollution Prevention

All permittees shall comply with the following minimum source area pollution prevention requirements. Source areas that have the potential to contaminate storm water are described in s. NR 216.27(3)(e), Wis. Adm. Code. The permittee shall install, to the maximum extent practicable, source area pollution prevention controls that are designed to prevent contaminated storm water at the site prior to discharge. Source area pollution prevention controls include:

3.1.1.1 Practices that prevent and control soil erosion and sediment movement including, but not limited to, practices to stabilize soil, structural practices to divert overland storm flow away from exposed soil and material stockpiles, and minimization of tracking on access roads. Sound engineering principles and practices shall be utilized to minimize erosion and movement of sediment by storm water. Best management practices for the control of soil erosion and sedimentation shall be designed, installed, and maintained in accordance with the construction site performance standards in s. NR 151.11(6m), Wis. Adm. Code, and in accordance with the Department's Construction Site Erosion and Sediment Control Technical Standards.

Note: The Construction Site Erosion and Sediment Control Technical Standards are available at the following Department website:

http://dnr.wi.gov/topic/stormwater/standards/const_standards.html

3.1.1.2 Practices that manage and control residual contaminants from the outside washing of vehicles, equipment, or other objects.

3.1.1.3 Practices that prevent contaminated storm water as a result of contact with maintenance fluids, fuels, and lubricants associated with vehicles and machinery, including good house-keeping measures, appropriate storage, diversion of off-site storm water, preventative maintenance measures, proper management of waste materials and dumpsters/compactors, visual inspections, spill/leak prevention and response measures, and spill reporting described in section 6.5 of this permit.

3.1.1.4 Structures or materials that cover or otherwise enclose salt handling areas or storage piles so that neither direct precipitation nor storm water comes into contact with the salt. Any salt spillage, resulting from activities such as loading or unloading, shall be managed to minimize contact with storm water. Permittees that use brine and have salt storage piles on impervious curbed surfaces shall have a means of diverting contaminated storm water to a brine treatment system to facilitate reuse.

3.1.1.5 If applicable, use a combination of storm water contact control or containment, drainage controls, or diversions to control SARA Title III Section 313 "Water Priority Chemicals" (42 USC s. 11023 (c)) potentially discharged through the action of storm water runoff, leaching, or wind.

3.1.1.6 Protection practices for petroleum product and chemical bulk storage structures that prevent loss of the material to surface water or groundwater.

3.1.1.7 Minimize dust and off-site tracking of soil, raw materials, intermediate products, final products, or waste materials.

3.1.1.8 Minimize exposure of pollutants associated with the potential sources of storm water contamination identified in s. NR 216.27(3)(e), Wis. Adm. Code.

3.1.1.9 Maintain both structural and non-structural control measures.

3.1.1.10 Train and raise awareness of employees as appropriate on storm water pollution prevention, the requirements of this permit, and their specific responsibilities in implementing any of the requirements, practices, or activities of this permit.

3.1.2 Storm Water Best Management Practices (BMPs)

When the permittee determines that source area pollution prevention controls are not feasible, are not cost effective or are inadequate to control storm water contamination, or when the Department notifies the permittee that source area pollution prevention controls are inadequate to achieve a water quality standard, to the maximum extent practicable, contaminated storm water shall be treated to reduce pollutant levels prior to discharge to waters of the state. Areas of the nonmetallic mining operation that are exposed to direct precipitation or storm water shall implement storm water BMPs as follows:

3.1.2.1 Storm water containing sediment shall be contained on the nonmetallic mining site to the maximum extent practicable to facilitate evaporation or infiltration so the sediment is removed prior to discharge. The tracking of sediment onto local roads shall be minimized by the use of storm water BMPs such as an asphalt or concrete approach to the road or use of a vehicle tracking pad.

3.1.2.2 Storm water discharges shall be treated with appropriate storm water BMPs to reduce the amount of sediment discharged. The storm water BMPs may include settling, sedimentation, filtration, and/or modifications to retain sediment at drainage inlets (e.g., storm sewer grates or drainage pipe openings) where they occur.

Note: Technical standards developed in accordance with NR 151, Wis. Adm. Code, such as #1063 Sediment Trap, #1001 Wet Detention Pond, and #1064 Sediment Basin are available to provide guidance for sediment and pollutant control. The technical standards may be obtained by contacting the Department or by searching for keyword "storm water" on the Department's Internet site. The Storm Water Construction Technical Standards are available at the following Department website: http://dnr.wi.gov/topic/stormwater/standards/const_standards.html. The Storm Water Post-Construction Technical Standards are available at the following Department website: http://dnr.wi.gov/topic/stormwater/standards/postconst_standards.html

3.2 Annual Facility Site Compliance Inspections

The permittee shall conduct an annual facility site compliance inspection required under s. NR 216.28(2), Wis. Adm. Code, for each calendar year of coverage under this permit and document the results by February 15 for the previous calendar reporting year. The SWPPP contact identified in section 3.3.3 shall perform and/or coordinate the inspections. The SWPPP contact shall verify that all pollution sources are correctly identified and that the site drainage pattern description remains accurate. The SWPPP contact shall also check that appropriate source area pollution prevention controls and storm water BMPs have been chosen, and the practices are being implemented, properly operated and adequately maintained. For sites that are internally drained, the SWPPP contact shall confirm and document that the conditions for internal drainage remain in place. The timing of inspections shall include seasonal or cyclical activities at the facility so the inspections are representative of the full range of activities at the site. An annual facility site compliance inspection report shall be completed for each inspection and shall include the inspection date, inspection personnel, scope of the inspection, major observations, and a schedule for implementing any further actions needed to control storm water contaminants. The annual facility site compliance inspection reports shall be retained for 5 years beyond the date the record was made and shall be provided to the Department upon request. For inactive internally drained nonmetallic mining sites where inspections are impractical, inspections may be performed within 10 days of changing to active status or, at a minimum, once every 3 years if remaining inactive.

Note: The annual facility site compliance inspection report form (Form 3400-176) is available on the Department website at: <http://dnr.wi.gov/topic/stormwater/industrial/forms.html>

3.3 Storm Water Pollution Prevention Plan (SWPPP)

Unless the nonmetallic mining operation is internally drained as specified in section 3 above, nonmetallic mining operations covered under this permit shall be operated in compliance with a site-specific SWPPP. Any potential source areas of storm water contamination shall be included in the SWPPP or necessitate that a SWPPP be developed. The SWPPP and any amendments thereto shall be maintained at the nonmetallic mining site or local company headquarters and shall be provided to the Department upon request. The permittee shall amend the SWPPP and notify the Department in the event of any facility operational changes that could result in additional significant storm water contamination.

3.3.1 SWPPP and SWPPP Summary Required

In accordance with ss. NR 216.27 and 216.29(1), Wis. Adm. Code, the owner or operator of a facility requiring coverage under this permit shall prepare a SWPPP and SWPPP summary. An owner or operator applying for initial permit coverage in accordance with section 2.12.1 shall prepare the SWPPP and

SWPPP summary prior to applying for permit coverage under s. NR 216.22, Wis. Adm. Code. An owner or operator receiving permit coverage in accordance with section 2.12.2 shall prepare a SWPPP as follows:

3.3.1.1 For a facility that operated as externally drained under the previously issued version of this permit, as of the **Effective Date** of this permit.

3.3.1.2 For a facility that operated as internally drained under the previously issued version of this permit but that no longer qualifies as internally drained, within 90 days of the **Effective Date** of this permit.

Note: The SWPPP summary form (Form 3400-167) is available on the Department website at: <http://dnr.wi.gov/topic/stormwater/industrial/forms.html>

3.3.2 Purpose and Content of the SWPPP

The SWPPP is a written document that identifies sources of contaminated storm water; prescribes appropriate source area pollution prevention controls and storm water BMPs designed to prevent or minimize storm water contamination; prescribes storm water BMPs to reduce storm water contaminants prior to discharge; prescribes actions to identify non-storm water discharges that are either regulated under the wastewater requirements of this permit or to remove these discharges from the storm drainage system; and includes schedules, as necessary, to ensure that the storm water management actions prescribed in the SWPPP are implemented and evaluated on a regular basis.

Source area pollution prevention controls and storm water BMPs shall be utilized to minimize sediment discharge. Control of other storm water pollutants, such as salt, petroleum products, cement materials, or other materials potentially hazardous to groundwater or a surface water shall be controlled through the use of source area pollution prevention controls and storm water BMPs.

3.3.3 SWPPP Contact

The SWPPP shall identify by job title the specific individual who has primary responsibility for coordinating all aspects of SWPPP development and implementation and identify any other individuals concerned with SWPPP development or implementation, and their respective roles. The specific individual who has primary responsibility shall develop, evaluate, maintain and revise the SWPPP; and carry out and/or coordinate the specific management actions identified in the SWPPP, including maintenance practices, monitoring activities, inspections, preparing and submitting reports and serving as facility contact for the Department.

3.3.4 Site Description and Drainage Base Map

The SWPPP shall contain a drainage base map that depicts how storm water drains on, through, and from the nonmetallic mining site to surface waters, surface water tributaries, wetlands, or infiltrates to groundwater. The drainage base map shall show the following: site property boundaries; the storm drainage collection and disposal system (including all known surface and subsurface conveyances, with the conveyances named); any secondary containment structures; roadways (paved and unpaved); groundcover features (i.e., grass, wooded areas, etc.); the location of all water discharge outfall pipes (including any outfalls permitted under another WPDES permit) numbered for reference, that discharge channelized flow to surface water, groundwater, or wetlands; the drainage area boundary for each outfall; the approximate surface area in acres draining to each outfall; the name and location of any surface water features within ¼ mile of the site; source area pollution prevention controls; and storm water BMPs that are in place at the facility.

The permittee shall also identify on the drainage base map any potential sources of pollution (materials or activities) and areas susceptible to erosion that have the potential to result in sediment-laden storm water. Such sources may include disturbed areas with no stabilizing vegetative cover; product or waste stockpiles; truck loading and washing areas, haul roads; equipment storage and maintenance areas; fuel storage areas; and rail lines and associated areas.

3.3.5 Description of Storm Water Controls

The SWPPP shall describe (including diagrams as necessary) all source area pollution prevention controls and storm water BMPs that are in place or will be implemented for the operation.

3.3.6 SWPPP and SWPPP Summary Submittal

The owner or operator of a new nonmetallic mining operation requiring coverage under this permit shall submit the SWPPP summary to the Department in accordance with section 2.12.1. The SWPPP or SWPPP summary for any permittee shall also be submitted to the Department upon request.

3.3.7 SWPPP Implementation

The SWPPP shall be implemented continually as of the **Start Date** of permit coverage until the site is reclaimed in accordance with chs. NR 135 and/or NR 340, Wis. Adm. Code, and the reclamation plan approved by the regulatory authority.

3.4 Certification of SWPPP Completion

The SWPPP and SWPPP summary shall be signed in accordance with s. NR 216.22(7), Wis. Adm. Code, and contain the following statement:

“I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.”

3.5 SWPPP Amendments

The permittee shall amend the SWPPP in accordance with this section and submit an updated SWPPP summary to the Department documenting any amendments made to the SWPPP under the circumstances described in sections 3.5.1 to 3.5.3 below. The SWPPP summary documenting the amendments shall be submitted to the Department prior to commencing any work necessitated by the SWPPP amendments. The amended SWPPP shall be provided to the Department upon request.

3.5.1 When expansion, production increases, process modifications, changes in material handling or storage or other activities are planned which will result in a significant increase in the exposure of pollutants to storm water discharged to waters of the state or to storm water BMPs. The amendment shall contain a description of the new activities that contribute to the increased pollutant loading, planned source control activities that will be used to minimize pollutant loads, an estimate of the new or increased discharge of pollutants following treatment, and a description of any treatment system modifications needed to manage the storm water contaminants.

3.5.2 When the comprehensive annual facility site compliance inspection, quarterly visual inspection of storm water quality, or other information reveals that the provisions of the SWPPP are ineffective in controlling storm water pollutants discharged to waters of the state.

3.5.3 When, upon written notice, the Department finds the storm water controls to be ineffective in achieving the conditions of this permit.

Note: The permittee is encouraged to contact the Department to discuss proposed SWPPP amendments.

3.6 Compliance with SWPPP Requirements

3.6.1 Nonmetallic mining operations with existing WPDES general permit coverage for industrial storm water discharges prior to the **Effective Date** of this permit that have previously submitted a SWPPP or SWPPP summary to the Department may be considered to be in compliance with the SWPPP requirements specified in sections 3.3 and 3.4 above if the SWPPP meets the requirements of this permit.

3.6.2 For existing nonmetallic mining operations found to be discharging without an industrial storm water WPDES permit, the Department may, through an appropriate enforcement action or stipulation, agree to cover the operation under this permit and specify a schedule for SWPPP development, implementation and certification within the shortest time practicable.

3.6.3 New nonmetallic mining operations covered under this permit shall comply with the SWPPP requirements of this permit and shall submit a SWPPP summary to the Department in accordance with section 2.12.1.

3.7 Quarterly Visual Inspections

3.7.1 The permittee shall perform and document the results of the quarterly visual inspections required under s. NR 216.28(3), Wis. Adm. Code, for all nonmetallic mining operations covered under this permit. The SWPPP contact shall perform and/or coordinate the inspections. The SWPPP contact or SWPPP contact designee shall check that site drainage conditions and potential pollution sources identified in the SWPPP remain accurate, and that appropriate storm water pollution prevention controls and storm water BMPs are being implemented, properly operated and adequately maintained. Documentation of each quarterly visual inspection shall be completed and shall include the inspection date, inspection personnel, scope of the inspection, major observations, possible sources of any observed contaminated storm water, any appropriate revisions needed to the SWPPP, and a schedule for implementing any further actions needed to control storm water contaminants. Quarterly visual inspection documentation shall be included with the annual facility site compliance inspection report required in section 3.2. Quarterly visual inspection documentation shall also be provided to the Department upon request.

3.7.2 Once per quarter, the SWPPP contact or SWPPP contact designee shall perform and document quarterly visual inspections of storm water discharge quality at each outfall. Inspections shall be conducted within the first 30 minutes or as soon thereafter as practical, but not to exceed 60 minutes, after runoff begins discharging at an outfall. A visual observation record shall be created for each visual check that includes the discharge outfall location and any observations of color, odor, turbidity, floating solids, foam, oil sheen, or other obvious indicators associated with contaminated storm water. The visual observation record shall be included with the quarterly visual inspection documentation described in section 3.7.1 above. Visual observation records shall also be provided to the Department upon request.

Note: The Quarterly Visual Inspection Field Sheet (Form 3400-176A) is available on the Department website at: <http://dnr.wi.gov/topic/stormwater/industrial/forms.html>

3.7.3 A quarterly visual inspection and/or visual check is not required if any of the following apply: (1) the SWPPP contact or SWPPP contact designee could not reasonably be present at the time of a storm water event; (2) the permittee determined that attempts to complete the inspection would endanger employee safety or well-being; (3) no storm water events large enough to conduct a visual check at an outfall occurred; (4) the quarterly visual inspection or visual check is impractical or unnecessary at an inactive or remote facility and an alternate inspection frequency of at least once every three years is established; or (5) the permittee determined that a source of contaminated storm water was outside the site's property boundary and is not associated with the permittee's activities. Quarterly visual inspections and/or visual checks not performed for any reason listed above shall be documented and included with the annual facility site compliance inspection report required in section 3.2.

4. REQUIREMENTS FOR WASTEWATER DISCHARGES TO GROUNDWATER VIA INFILTRATION

A wastewater discharge to groundwater in violation of a groundwater standard in ch. NR 140, Wis. Adm. Code, is not authorized by this permit.

4.1 Except for maintaining monthly records of water treatment additive usage as required under section 4.2.1.4, with the written concurrence of the Department, monitoring required under section 4 may be waived for a wastewater treatment facility under the following circumstances:

4.1.1 For a proposed wastewater treatment facility, the practice shall be lined to prevent infiltration in accordance with ch. NR 213, Wis. Adm. Code. Plans and specifications for lining a wastewater treatment facility shall be approved by the Department, linings shall be installed and maintained, and lining specification records kept and provided to the Department upon request. The installation of a lining to receive a waiver under this section shall be constructed prior to operation of the practice to treat wastewater.

4.1.2 For an existing wastewater treatment facility, the permittee shall provide sufficient data to the Department to demonstrate that the entire area of wastewater contact within the practice is permanently sealed and remains at or below an exfiltration rate of 500 gallons per acre per day.

If the Department has granted a groundwater monitoring waiver for a wastewater treatment facility under this section 4.1, upon request by the Department, the permittee shall provide information to the Department that confirms the conditions for the waiver continue to be met.

4.2 Unless a Department approved waiver is granted as described in section 4.1 above, the remainder of section 4 applies to all wastewater discharges via infiltration to groundwater from wastewater treatment facilities throughout the term of this permit.

4.2.1 Discharges to groundwater from all wastewater treatment facilities shall be in compliance with the limits and requirements listed in Table 1 below. Samples collected to fulfill the monitoring requirements in Table 1 shall be taken at a point that is representative of the discharge to groundwater. Monitoring during a specified sample period is only required when wastewater is being discharged via infiltration during that period. The samples taken shall be representative of the discharge to groundwater. Sampling frequency is independent of any Department enforcement response to permit noncompliance. More frequent sampling may be specified in a Department order or stipulation resulting from enforcement of permit noncompliance.

Table 1

Limitations for Groundwater Discharges		Monitoring Requirements	
Parameter	Daily Maximum ^(a)	Sample Frequency ^(b)	Sample Type ^(c,d)
Discharge Flow (Gallons per Day)	-	Quarterly, or as specified in section 4.2.1.1	Estimate
Oil and Grease	15 mg/l	Annually, or as specified in section 4.2.1.2	Grab
pH	6.0-9.0 s.u.	Annually, or as specified in section 4.2.1.3	Grab
Water Treatment Additives	-	Monthly	Keep records as specified in section 4.2.1.4

(a) A daily maximum effluent limitation is to be compared with each analysis for that day. Compliance is achieved when the result of each analysis is less than the maximum daily effluent limitation. If multiple samples are collected, all the test results shall be reported on the Annual Discharge Monitoring Report form required under section 4.3.

(b) A quarterly sample frequency means performing the associated monitoring at least once during each of the four calendar quarters (Jan - March, April - June, July - Sept, Oct - Dec). If there is no discharge during a quarter, the permittee shall enter a zero flow for that quarter on the Annual Discharge Monitoring Report form.

(c) Flow estimate means a reasonable approximation of the average daily flow to groundwater based on amounts of makeup water added to a wastewater treatment facility, estimates of infiltration based on hydraulic conductivity and head, meter measurements of discharge to an infiltration area, and any other method specified in s. NR 218.05(1), Wis. Adm. Code. Infiltration flow estimates need not include storm water that falls directly on the wastewater treatment facility.

(d) A grab sample means a single sample taken at one moment of time or a combination of several smaller samples of equal volume taken in less than a two-minute period.

4.2.1.1 Sampling for Flow

The daily flow via infiltration shall be estimated at least once per quarter, except that the permittee shall estimate flow via infiltration each month for 12 months starting the month following a recorded daily discharge value greater than 200,000 gal/day. Facilities that estimate flow via infiltration on a monthly frequency shall also report an estimate of the monthly total flow via infiltration on the Annual Discharge Monitoring Report form required under section 4.3.

4.2.1.2 Sampling for Oil and Grease

Wastewater discharging to groundwater shall be sampled annually for oil and grease under this permit, except that the oil and grease sampling frequency shall be once each quarter for 4 calendar quarters beginning the quarter following any sample result showing an oil and grease discharge greater than 15

mg/L. Further annual oil and grease sampling is not required if the first annual sample result is less than 7.5 mg/L.

4.2.1.3 Sampling for pH

Wastewater pH shall be sampled annually prior to infiltration, except that the sampling frequency shall be once each quarter for 4 calendar quarters beginning the quarter following any sample result showing a discharge pH of less than 6.5 standard units (s.u.) or greater than 8.5 s.u. Further annual pH sampling is not required if the first annual sample result is greater than 6.5 s.u. and less than 8.5 s.u. Any wastewater with a pH outside the range of 6.0 to 9.0 s.u. shall either be treated to moderate the pH prior to infiltration, or shall be passed through a soil zone that moderates the pH to within the range of 6.0 to 9.0 s.u. More detailed pH sampling may be required by the Department to determine potential impacts to groundwater.

4.2.1.4 Records for Water Treatment Additives

The permittee shall maintain records of monthly water treatment additive usage for all water treatment additives including additive name, manufacturer, and maximum daily amount used. If a wastewater treatment facility discharges to groundwater via infiltration, records of water treatment additives usage in the previous calendar year shall be submitted to the Department with the Annual Discharge Monitoring Report required under section 4.3. Records of monthly water treatment additive usage shall be submitted to the Department upon request.

4.3 Annual Discharge Monitoring Reports

By February 15th of each year, the permittee shall submit to the Department an Annual Discharge Monitoring Report that summarizes the monitoring information and shows all of the monitoring and sampling results required by this section of the permit during the previous calendar year. A Department Annual Discharge Monitoring Report form may be used to submit the annual data, or an alternate report format may be used that clearly shows the monitoring and sampling results from the previous calendar year. The Annual Discharge Monitoring Report shall be submitted to The Wisconsin Department of Natural Resources, Attn: WPDES GP DMR, at the office identified on the Annual Discharge Monitoring Report form. However, monitoring information, results, and records required by section 4 of this permit shall be submitted to the Department upon request.

Note: Annual Discharge Monitoring Reports for groundwater are not required for wastewater treatment facilities granted a waiver under section 4.1 or for facilities that do not discharge wastewater to groundwater.

4.4 Groundwater Monitoring

If the Department has reason to believe that a pollutant in a wastewater discharge has a reasonable probability of entering groundwater in violation of a groundwater standard in ch. NR 140, Wis. Adm. Code, the Department may do either of the following:

4.4.1 Require the permittee to submit a groundwater monitoring plan to the Department within a specified timeframe for approval. The groundwater monitoring plan shall contain information on the groundwater conditions, proposed monitoring well locations, well construction, monitoring parameters, monitoring frequency, and a plan implementation schedule. In accordance with the implementation schedule in the approved groundwater monitoring plan, groundwater monitoring wells shall be installed in accordance with ch. NR 141, Wis. Adm. Code.

4.4.2 Revoke coverage under this permit and issue an individual WPDES permit to the owner or operator of the nonmetallic mining operation with specific groundwater monitoring requirements.

5. REQUIREMENTS FOR WASTEWATER DISCHARGES TO SURFACE WATERS

5.1 Discharges to surface waters that contain dewatering water, process wastewater, contact and/or noncontact cooling water, or other wastewaters related to production of nonmetallic mining materials, shall comply with the requirements in this section. The pumping of excess ponded water (which may include storm water and/or groundwater) is considered dewatering water. Samples collected to fulfill the monitoring requirements shall be taken at each outfall following treatment as applicable and prior to discharge to a surface water. Monitoring during a specified sample period is only required when nonmetallic mining production wastewater is being discharged to a surface water during that period. The samples taken shall be representative of the discharge to the surface water. Sampling frequency is independent of any Department enforcement response to permit noncompliance. More frequent sampling may be specified in a Department order or stipulation resulting from enforcement of permit noncompliance.

5.2 The permittee shall monitor wastewater discharges to a surface water and meet the limitations and requirements in Table 2 throughout the term of this permit. If no wastewater discharge to a surface water occurred during the previous calendar year, by February 15th of each year or upon request by the Department the permittee shall provide information to the Department that confirms that no discharges of wastewater to surface water occurred during the previous calendar year.

Table 2

Limitations for Surface Water Discharges			Monitoring Requirements	
Parameter	Daily Minimum ^(a)	Daily Maximum ^(b)	Sample Frequency ^(c)	Sample Type ^(d,e)
Discharge Flow (Gallons Per Day)	-	-	Quarterly, or as specified in section 5.2.1	Estimate
Flow – number of days of discharge	-	-	Quarterly	Record number of days with discharge flow in the quarter
Total Suspended Solids	-	40 mg/l	Quarterly, or as specified in section 5.2.2	Grab, or as specified in section 5.2.2
pH	6.0 s.u.	9.0 s.u.	Annually, or as specified in section 5.2.3	Grab
Oil and Grease	-	15 mg/l	Annually, or as specified in section 5.2.4	Grab
Water Treatment Additives	-	-	Monthly	Keep records as specified in section 5.2.5
Temperature	-	-	Quarterly, or as specified in section 5.2.6	Grab
Phosphorus, Total	-	-	Annually, or as specified in section 5.2.7	Grab

- (a) A daily minimum effluent limitation for pH is to be compared with each single daily analysis. Compliance is achieved when the result of each analysis is greater than the minimum daily effluent limitation.
- (b) A daily maximum effluent limitation is to be compared with each analysis for that day. Compliance is achieved when the result of each analysis is less than the maximum daily effluent limitation. If multiple samples are collected, all the test results shall be reported on the Annual Discharge Monitoring Report required under section 5.5.
- (c) A quarterly sample frequency means performing the associated monitoring once during each of the four calendar quarters (Jan - March, April - June, July - Sept, Oct - Dec). If there is no discharge during a quarter, no sampling is required, and the permittee shall enter a zero flow for that quarter on the Annual Discharge Monitoring Report required under section 5.5.
- (d) An estimate means a reasonable approximation of the average daily flow based on s. NR 218.05(1), Wis. Adm. Code, or any other method approved by the Department.
- (e) A grab sample means a single sample taken at one moment of time or a combination of several smaller samples of equal volume taken in less than a two-minute period.

5.2.1 Sampling for Flow

The daily discharge flow shall be estimated at least once per quarter, except that the permittee shall estimate discharge flow each month for 12 months starting the month following a recorded daily discharge value greater than 200,000 gal/day. Facilities that estimate discharge flow on a monthly frequency shall also report an estimate of the total monthly discharge flow on the Annual Discharge Monitoring Report form required under section 5.5. The number of days with discharge flow per quarter shall also be reported on the Annual Discharge Monitoring Report form.

5.2.2 Sampling for Total Suspended Solids

Total suspended solids (TSS) shall be monitored with a grab sample each quarter, except that the TSS sampling frequency shall be once per month for 12 months beginning the month following any sample result showing a discharge of TSS greater than 40 mg/L. When this monthly sampling requirement is effective, representative TSS composite samples shall be created by combining at least 3 individual grab samples of equal volume, taken at approximately equal intervals over a 3-hour period.

5.2.3 Sampling for pH

Wastewater pH shall be sampled annually, except that the sampling frequency shall be once each quarter for 4 calendar quarters beginning the quarter following any sample result showing a discharge pH of less than 6.5 standard units (s.u.) or greater than 8.5 s.u. Further annual pH sampling is not required if the first two annual samples are within the pH range of 6.5 to 8.5 s.u. More detailed pH sampling may be required by the Department to determine potential impacts to surface water.

5.2.4 Sampling for Oil and Grease

Wastewater discharging to surface water shall be sampled annually for oil and grease under this permit, except that the sampling frequency shall be once each quarter for 4 calendar quarters beginning the quarter following any sample result showing an oil and grease concentration greater than 15 mg/L. Further annual oil and grease sampling is not required if the first annual sample result is less than 7.5 mg/L.

5.2.5 Records for Water Treatment Additives

The permittee shall maintain records of monthly water treatment additive usage including additive name, manufacturer, and maximum daily amount used. Records of water treatment additives usage in the previous calendar year shall be submitted to the Department with the Annual Discharge Monitoring Report form required under section 5.5. Records of monthly water treatment additive usage shall be submitted to the Department upon request.

5.2.6 Temperature Monitoring

Temperature shall be monitored with a grab sample each quarter. Unless notified by the Department to the contrary, temperature monitoring may be discontinued after 4 consecutive quarterly results are reported on an Annual Discharge Monitoring Report form required under section 5.5.

5.2.7 Sampling for Total Phosphorus

Discharges of wastewater shall be sampled for total phosphorus annually, except that the sampling frequency shall be once each quarter for 4 calendar quarters beginning the quarter following any sample result showing a discharge greater than 0.1 mg/L. Further annual total phosphorus sampling is not required if the first two annual samples are less than 0.1 mg/L.

5.3 Suspended Solids Treatment and Solids Removal

Wastewater shall be treated to remove suspended solids prior to discharge to a surface water. Sludge shall be removed from wastewater treatment facilities as needed to maintain treatment unit hydraulic capacity and effective removal of suspended solids. Dewatering water from sludge removed for maintenance of wastewater treatment facilities shall be managed in accordance with section 2.3.

Note: Dewatered sediment or sludge disposed of off-site may be subject to other Department regulatory requirements as specified in s. NR 205.07(3)(a), Wis. Adm. Code. Dewatered sediment or sludge stored and used on-site for nonmetallic mining reclamation may be subject to other Department regulatory requirements as specified in chs. NR 135 and/or NR 500 to 538, Wis. Adm. Code.

5.4 Floating Solids and Foam

There shall be no discharge of floating solids or visible foam in other than trace amounts.

5.5 Annual Discharge Monitoring Reports

By February 15th of each year, the permittee shall submit to the Department an Annual Discharge Monitoring Report that summarizes the monitoring information and shows all of the monitoring results required by this section of the permit during the previous calendar year. A Department Annual Discharge Monitoring Report form may be used to submit the annual data, or an alternate report format may be used that clearly shows the monitoring results from the previous calendar year. The Annual Discharge Monitoring Report shall be submitted to The Wisconsin Department of Natural Resources, Attn: WPDES GP DMR, at the office identified on the Annual Discharge Monitoring Report form. However, monitoring information, results, and records required by section 5 of this permit shall be submitted to the Department upon request.

Note: The permittee is not required to submit data pursuant to section 5 of this permit if there were no wastewater discharges to surface water during the calendar reporting year.

5.6 Water Quality Based Effluent Limitations

If there is a reasonable potential for a parameter in a wastewater discharge to exceed a water quality criteria as established in ch. NR 105, Wis. Adm. Code, then in accordance with section 1.2, the Department may revoke coverage under this permit and issue an individual WPDES permit to the nonmetallic mining operation with specific water quality based effluent limitations calculated under the procedures in ch. NR 106, Wis. Adm. Code.

6. GENERAL CONDITIONS

The general conditions in s. NR 205.07(1), (3), and (5), Wis. Adm. Code, are hereby incorporated by reference into this permit, except for s. NR 205.07(1)(n) and (3)(b), Wis. Adm. Code. Under s. NR 205.08(9), Wis. Adm. Code, dischargers covered under a general permit are not required to submit an application for reissuance. The requirements for spill reporting are in section 6.5 below.

Note: Chapter NR 205 is available at the following website:

http://docs.legis.wisconsin.gov/code/admin_code/nr/200

6.1 Work near Surface Waters and Wetlands

Activities performed in wetland areas, in floodplains, or near shorelands may require permits or approvals through applicable state law, state regulations, or county or local ordinances. Additionally, state permits and/or contracts required by chs. 30, 31 and 87, Wis. Stats. and s. 281.36, Wis. Stats. (or Wisconsin Administrative Code promulgated under these laws), and federal permits may be applicable.

6.2 Continuation of the Expired General Permit

As provided in s. NR 205.08(9), Wis. Adm. Code, and s. 227.51, Wis. Stat., the terms and conditions of this general permit shall continue to apply until this general permit is reissued or revoked or until an individual permit is issued for the discharge to which the general permit applied.

6.3 Liabilities under Other Laws

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under section 311 of the federal Clean Water Act (33 USC s. 1321), any applicable federal, state, or local law or regulation under authority preserved by section 510 of the Clean Water Act (33 USC s. 1370).

6.4 Severability

The provisions of this permit are severable, and if any provisions of this permit or the application of any provision of this permit to any circumstance is held invalid the remainder of this permit shall not be affected thereby.

6.5 Spill Reporting

The permittee shall notify the Department immediately of any release or spill of a hazardous substance to the environment in accordance with s. 292.11, Wis. Stats., and ch. NR 706, Wis. Adm. Code.

Note: The 24-hour toll free spills hotline number is (800) 943-0003. Information about hazardous substance spills is available from the Department's website at: <http://dnr.wi.gov/topic/Spills/>

6.6 Submitting Records

Unless otherwise specified, any reports submitted to the Department of Natural Resources in accordance with this permit shall be submitted to the appropriate Department regional storm water contact or to Department of Natural Resources, Storm Water Program – WT/3, Box 7921, Madison, WI 53707-7921.

6.7 Enforcement

Any violation of ss. 283.33 or 283.35, Wis. Stats., ch. NR 216, Wis. Adm. Code, or this permit is enforceable under s. 283.89, Wis. Stats.

6.8 Permit Fee

A storm water discharge permit fee shall be paid annually for each facility covered under this permit, except under s. NR 216.30(2), Wis. Adm. Code, no fee will be charged for a facility that the Department concurs is internally drained and no pollutants are exposed that could contaminate groundwater . The permittee will be billed by the Department annually in May of each year and the fee is due by June 30 of each year in accordance with s. NR 216.30, Wis. Adm. Code. A permittee may be referred to the Wisconsin Department of Revenue for the collection of any unpaid storm water fee.

7. COMPLIANCE SCHEDULE

The permittee shall meet the requirements of sections 1 to 5 this permit as summarized in Table 3 below.

Note: Table 3 only provides a summary of the permit requirements in sections 1 to 5 with a defined compliance timeframe and does not list all the requirements of this permit. Refer to the specific sections of this permit for a complete representation of the requirements.

Table 3. Compliance Schedule

PERMIT SECTION	ACTIVITY	COMPLIANCE TIMEFRAME	COMMENTS
Section 1.4.1 Storm Water Discharges to Outstanding and Exceptional Resource Waters	Permittee in compliance with sections 1.4.2 to 1.4.5 for storm water discharges to ORWs and ERWs	Existing permittees and new permittees covered within 12 months after the Effective Date : By 12 months after the Effective Date of this permit.	Discharges of wastewater to an ORW or ERW are not authorized under this permit. Section 1.4 applies to storm water discharges only.
		New permittees covered after 12 months from the Effective Date : As of the Start Date of coverage under this permit.	
Section 2.8 Impaired Water Bodies and Total Maximum Daily Load Requirements	Discharges of a pollutant of concern to an impaired water, section 2.8.2	Annual check by 2/15 of each calendar year to determine if facility discharges a pollutant of concern to an impaired water body.	
	Address pollutant of concern in SWPPP, section 2.8.3	If a pollutant of concern discharges via storm water, within 180 days of the annual check the permittee shall address it in a written section of the SWPPP.	
	Discharges of a pollutant of concern to an impaired water with an approved TMDL, section 2.8.5	Annual check by 2/15 of each calendar year to determine if facility discharges a pollutant of concern to an impaired	

		water body with an approved TMDL. If so, assess whether the TMDL wasteload allocation is being met through existing controls.	
	Proposed TMDL implementation plan, section 2.8.6	If permittee included in a TMDL, within 180 days of the annual check the permittee shall submit a proposed implementation plan to the Department.	Not required if a specific wasteload allocation has not been assigned to the facility under a TMDL.
Section 2.12 Application for Permit Coverage	Initial permit coverage, 2.12.1	NOI submitted to apply for coverage at least 14 working days prior to initiating land disturbing construction activities; or at least 14 working days prior to initiating industrial operations.	
Section 3.2 Annual Facility Site Compliance Inspections	Conduct and document annual facility site compliance inspection in a report	Annually by 2/15 for the previous calendar reporting year.	
Section 3.3 Storm Water Pollution Prevention Plan and Summary	Development and implementation of site-specific SWPPP	New permittees: Develop SWPPP and SWPPP summary prior to applying for permit coverage and implement SWPPP from commencement of operations until final site reclamation.	SWPPP not required if site internally drained.
		Existing permittees: SWPPP as of the Effective Date of permit coverage and implemented until final site reclamation.	

Section 3.5 SWPPP Amendments	Required updating of the SWPPP due to changing factors	SWPPP summary documenting the amendments submitted to the Department prior to commencing any necessary work.	SWPPP not required if site internally drained.
Section 3.7 Quarterly Visual Inspections	Perform and document the results of the quarterly visual inspections and visual checks	Include with the annual facility site compliance inspection required under section 3.2.	Not required if site internally drained.
Section 4 Wastewater Discharges to Groundwater Via Infiltration	Limitations for groundwater discharges, section 4.2.1	See Table 1.	Monitoring not required for lined or sealed wastewater treatment facilities granted a waiver under section 4.1. Record keeping of water treatment additives shall apply (section 4.2.1.4).
	Submittal of Annual Discharge Monitoring Reports, section 4.3	By 2/15 of each year.	Annual Discharge Monitoring Reports for groundwater not required for lined or sealed wastewater treatment facilities granted a waiver under section 4.1.
Section 5 Wastewater Discharges to Surface Waters	Limitations for surface water discharges, section 5.2	See Table 2.	Only applies if wastewater discharges to surface water.

	Submittal of Annual Discharge Monitoring Reports, section 5.5	By 2/15 of each year.	Submittal of data not required if there were no discharges to surface water during the calendar reporting year.
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8. DEFINITIONS

Definitions for some of the terms used in this permit are provided below. A term found in s. NR 205.03, Wis. Adm. Code, may have a more specific definition for the purposes of this permit.

8.1 Best Management Practices or BMPs as used in this permit means structural or non-structural measures, practices, techniques or devices employed to avoid or minimize soil, sediment or pollutants carried in storm water to waters of the state.

8.2 Contaminated storm water means storm water that comes into contact with material handling equipment or activities, raw materials, intermediate products, final products, waste materials, byproducts or industrial machinery in the source areas listed in s. NR 216.27(3)(e), Wis. Adm. Code.

8.3 Dewatering as used in this permit means pumping, draining, or otherwise removing any water from an area of a nonmetallic mining operation through direct action by the permittee. Dewatering also includes wet pit mining overflows caused solely by direct precipitation and ground water inflow. Wet pit mining is a method of sand and gravel extraction, whereby raw material is extracted by means of a dragline or barge-mounted dredging equipment both above and below the water table.

8.4 Erosion means the process by which the land's surface is worn away by the action of wind, water, ice or gravity.

8.5 Facility as used in this permit means a nonmetallic mining operation regulated by this permit.

8.6 Impaired water means a waterbody impaired in whole or in part and listed by the department pursuant to 33 USC 1313 (d) (1) (A) and 40 CFR 130.7, for not meeting a water quality standard, including a water quality standard for a specific substance or the waterbody's designated use.

8.7 Infiltration as used in this permit means the entry and movement of storm water or wastewater into or through soil or the subsurface of the nonmetallic mining operation.

8.8 Owner or operator means any person owning or operating a point source of pollution.

8.9 Permittee as used in this permit means a person who has applied for and received coverage under this permit.

8.10 Person means an individual, owner, operator, corporation, limited liability company, partnership, association, municipality, interstate agency, state agency or federal agency.

8.11 Sediment as used in this permit means settleable solid material that is transported by water, suspended within water or deposited by water away from its original location.

8.12 SIC means standard industrial classification. SIC codes cited in this chapter are from the 1987 edition of the *Standard Industrial Classification Manual*.

8.13 Sludge means the accumulated solids generated during the biological treatment, chemical treatment, coagulation or sedimentation of water or wastewater.

8.14 Stabilize, stabilized, or stabilizing as used in this permit means the process of making a site steadfast or

firm, minimizing soil movement by the use of practices such as mulching and seeding, sodding, landscaping, paving, graveling or other appropriate measures.

8.15 Storm Water means runoff from precipitation including rain, snow, ice melt or similar water that moves on the land surface via sheet or channelized flow.

8.16 Total maximum daily load or TMDL means the amount of pollutants specified as a function of one or more water quality parameters, that can be discharged per day into a water quality limited segment and still ensure attainment of the applicable water quality standard.

8.17 Wastewater as used in this permit means a type of water associated with an activity described in sections 1.1.2 through 1.1.7. Road dust suppression water used in accordance with section 2.5 does not require monitoring under sections 4 or 5 of this permit.

8.18 Wastewater treatment facility means all the structures, pipes, and other equipment that constitute the various treatment processes and treatment units employed to reduce pollutants in wastewater. Treatment processes include the physical, biological or chemical actions that are applied to wastewater to remove or reduce pollutants. Treatment units are the individual structures or equipment within the wastewater treatment facility that are part of a treatment process.

8.19 Water treatment additive as used in this permit means an agent or chemical formulation used to improve process efficiencies or assist with meeting discharge standards. Water treatment additives are used in a number of applications and come in a variety of chemical formulations including, but not limited to, chemical salts, polymers, acids and bases, and organic chemicals.

8.20 Waters of the State means those portions of Lake Michigan and Lake Superior within the boundaries of Wisconsin, all lakes, bays, rivers, streams, springs, ponds, wells, impounding reservoirs, marshes, water courses, drainage systems and other surface water or groundwater, natural or artificial, public or private within the state or under its jurisdiction, except those waters which are entirely confined and retained completely upon the property of a person.

8.21 Working Day means any day except Saturday and Sunday and holidays designated in s.230.35(4)(a), Wis. Stats.

Notice: As authorized in NR 216.26, Wi. Adm. Code, the Department of Natural Resources (the Department) will use the information requested on this form to determine if process wastewater and/or stormwater discharges from nonmetallic mining operations are eligible for coverage under the Wisconsin Pollutant Discharge Elimination System (WPDES) generalized permit No. WI-0046515-5. Submittal of a completed form to the Department is mandatory for any owner or operator of a nonmetallic mining operation that must apply for a permit in accordance with 40 CFR Part 122 or Chapter 283, Wi. Statutes. Discharge of wastewater from a nonmetallic mining operation which has not obtained coverage under the nonmetallic mining general permit or other applicable WPDES permit may result in forfeitures up to \$10,000 per day, pursuant to s. 283.91, Stats. Personal identification information requested on this form may be used for other water quality program purposes.

Enter N/A for questions not applicable to your operation.

Section I: Parent Company/Owner Information – To be completed by all dischargers

Company/Owner Name Forever Sandfill and Limestone Rachael Halverson

Contact Name Last <u>Furseth</u>	First <u>Jeff</u>	MI <u>A</u>	Title <u>Manager</u>
Address <u>353 Haugen Rd</u>		City <u>Edgerton</u>	State ZIP Code <u>WI 53534</u>
Phone Number <u>608-695-8050</u>	Fax Number <u>608-884-9107</u>	Email Address (if available) <u>dispatch@halversoncompanies.com</u>	

1. What are the Standard Industrial Classification (SIC) codes for your company's nonmetallic mining operations?
- | | | |
|--|---|--|
| <input type="checkbox"/> 1410 Dimension Stone | <input checked="" type="checkbox"/> 1420 Crushed and Broken Stone | <input type="checkbox"/> 1440 Sand and Gravel |
| <input type="checkbox"/> 1450 Clay, Ceramic & Refractory | <input type="checkbox"/> 1470 Chemicals & Fertilizers | <input type="checkbox"/> 1480 Nonmetallic Mineral Services |
| <input type="checkbox"/> Others? - _____ | | |

2. Has your company been issued any other wastewater (WPDES) permits that authorize the discharge of other wastewaters (such as from asphalt or concrete operations) to Wisconsin surface or underground waters?
- Yes List the site names and WPDES permit numbers: _____
- No

3. To the best of your knowledge, do any of your operations have process wastewater (from aggregate washing, pit dewatering, stack scrubbing, boiler blowdown, etc.) that contains any of the substances listed below? Do any of your sites have stormwater that comes in direct contact with any of the substances listed below? Check all the substances that apply.
- | | | |
|---|---|--|
| <input type="checkbox"/> 4,4'-DDD | <input type="checkbox"/> 4,4'-DDE | <input type="checkbox"/> 4,4'-DDT |
| <input type="checkbox"/> alpha – BHC | <input type="checkbox"/> Dieldrin | <input type="checkbox"/> Chlordane |
| <input type="checkbox"/> Mercury | <input type="checkbox"/> Mirex | <input type="checkbox"/> Octachlorostyrene |
| <input type="checkbox"/> Photomirex | <input type="checkbox"/> PCB | <input type="checkbox"/> Pentachlorobenzene |
| <input type="checkbox"/> 1,2,3,4-Tetrachlorobenzene | <input type="checkbox"/> 1,2,4,5-Tetrachlorobenzene | <input type="checkbox"/> 2,3,7,8-Tetrachlorodibenzo-p-dioxin |
| <input type="checkbox"/> Toxaphene | <input type="checkbox"/> gamma - BHC (Lindane) | <input type="checkbox"/> tech. – BHC |
| <input type="checkbox"/> Hexachlorobenzene | <input type="checkbox"/> Hexachlorobutadiene | |
| <input type="checkbox"/> Other substances that are known to be harmful to human health or aquatic life (such as solvents or dissolved metals) | | |

If you answered yes to either question above, and any of the above substances are checked, you may be required to segregate that wastewater and not discharge it to waters of the state. If you wish to pursue obtaining a permit to discharge wastewater containing these chemicals, indicate that you want the Department to send an application for a site specific WPDES discharge permit by checking here .

Check here if none of the above substances are expected to be in the discharge.

4. To the best of your knowledge, have any leaks, spills, overflows or similar instances resulted in contamination of stormwater runoff from any of your nonmetallic mining operations in the last three years?
- Yes List the site names and actions taken to prevent future problems, (attach additional sheets if necessary).
- No _____

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Section II: Site/Property Information – To be completed for coverage of individual mine sites. Make copies of this section or use a table format to apply for more than one mining site. (Go to Section III to apply for a mobile equipment operation whose sites are not known at this time)

Site/Property Name <i>Wrigley Field</i>					Site/Property Identification # [FID] (if known)					
Contact Name Last <i>Forsyth</i>		First <i>Jeff</i>		MI <i>A</i>	Title <i>Manager</i>					
Address <i>353 Haugen Rd</i>					City <i>Edgerston</i>		State <i>W.</i>	ZIP Code <i>53534</i>		
Property Location:										
Qtr/Qtr <i>SE</i>		Quarter <i>NE</i>	Section <i>29</i>	Township <i>Christiana</i>	Range <i>12</i>	<input checked="" type="checkbox"/> EW	County <i>Dane</i>			Lat/Long-GPS Coordinates (if known)
						Latitude		Longitude		
Phone Number <i>608-695-8050</i>			Fax Number <i>608-884-9107</i>		E-mail address (if available) <i>dispatch@halversoncompanies.com</i>					

Attach a site map, such as an air photo, USGS topographic map or survey map, showing the mining site location, the nearest public roadway and surface water resources within 1000 feet. Wastewater treatment, seepage and discharge points should also be shown.

1. What is the flow pattern of stormwater run-off at the site?

- Externally Drained – storm water that contacts mining areas, processing areas or stockpiled materials runs beyond the site property boundary. External drainage includes storm water to ponds or drainage channels that overflow to areas outside of the mining site property boundaries.
- Internally Drained – storm water runoff is captured within the mining site. All storm water that contacts mining areas, processing areas or stockpiled materials runs off to onsite seepage areas or ponds that retain the water within the site property boundaries.
- Internally Drained, but the storm water is discharged to on-site protected wetlands or other on-site natural surface water resources.

2. Briefly describe the industrial activity at this site. What Standard Industrial Classification (SIC) code would the operation be included under? Are there any adjacent mining, concrete or asphalt operations?

This is a limestone quarry. Drilling, blasting, crushing the stone and stockpiling of gravel til it is hauled out. SIC is 1420 There is no other mining in this area and no concrete Plants or asphalt Plants

**For Departme
Use Only**

3. Is this site to be "permitted" for the discharge of mining wastewater (such as from mine dewatering pumpage, product or equipment washing, cooling, etc.) to surface waters, wetlands or seepage areas?

- Yes, and section IV has been used to describe the mining process wastewater discharges
- No

- G. P. Coverage
- Individual Permit
- NPR

4. Check here , if ALL of the site's process wastewater and stormwater goes to a municipal or sewerage district treatment plant that has its own WPDES discharge permit. Such a mining site does not need an additional WPDES permit. If future operations at this site result in a direct discharge to waters of Wisconsin, you will need to inform the Dept.

Section III: Mobile Unit Information - To be completed for coverage of a machinery group or "spread" that operates at a number of sites. This section may be copied for describing multiple machinery groupings. Also, complete property descriptions (using section II, above) for any known or expected operating sites, so that discharge permit eligibility can be established prior to the start of operations.

Mobile Unit Operator Name/Contact		Last	First	MI	Title
Facility Identifier (FID) # (if known)	Anticipated Sites for Mobile Unit Operation [attach additional sheets if necessary and check here <input type="checkbox"/>]				
Phone Number	Mobile Phone Number		E-mail address (if available)		
Number of Wash plants			Number of Crushing plants		

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Section IV: Mining Process Wastewater Information - To be completed for sites or equipment that discharge wastewater generated during the process of mining. (This section may be copied for multiple sites or machinery groupings)

<p>1. Indicate the receiving water for the process wastewater discharges. Check all that apply. (NOTE: Part 3, below, describes types of process wastewater. An outfall is an individual discharge point, such as a seepage pond bottom, or a sewer pipe, channel, or ditch that conveys the wastewater to underground water or surface water resources).</p> <p><input type="checkbox"/> Seepage to Groundwater (this includes infiltration of wastewater through the soil via drain fields, seepage areas, pond bottoms, ditches, trenches, etc. that do not reach surface water resources).</p> <p>a. Outfall #(s): _____</p> <p><input checked="" type="checkbox"/> Discharge to Surface Water Resources (this includes surface water drainage ways that contain aquatic life, tributaries, protected wetlands, creeks, streams, rivers, lakes, etc):</p> <p>a. Outfall #(s): <u> / </u></p> <p>b. How far is it from the discharge point to a surface water resource (i.e. distance traveled through storm sewers or drainage ditches)?</p> <p style="text-align: center;"><input type="radio"/> Less than 1000 feet <input checked="" type="radio"/> Between 1000 and 5000 feet <input type="radio"/> Greater than 5000 feet</p> <p>c. What is the first named surface water the discharge enters?</p> <p>_____</p> <p>d. If the discharge is to a wetland indicate whether it is believed to be <input type="radio"/> natural or <input type="radio"/> artificial</p> <p><input type="checkbox"/> Municipal or Sewage District Treatment Plant - Outfall #(s):</p> <p>_____</p> <p>These discharges would travel in a sanitary sewer to an off-site treatment facility that has its own WPDES permit.</p>	<p style="text-align: center;">For Department Use Only</p> <p><input type="checkbox"/> Eligible</p> <p><input type="checkbox"/> Ineligible</p> <p style="text-align: center;"><input type="radio"/> ERW <input type="radio"/> ORW</p> <p><input type="checkbox"/> NR 103 Completed</p> <p><input type="checkbox"/> NPR</p> <p>Additive follow-up necessary:</p> <p style="text-align: center;"><input type="radio"/> Yes <input type="radio"/> No</p>
--	--

2. Are water treatment or conditioning additives used in waste streams that are discharged to surface waters or seeped into groundwater?
- No No water treatment additives (such as, separation aids, boiler treatments, scale/rust inhibitors, biocides, chlorine, etc.) are used.
- Yes Additives are used and **described in Appendix A**. Are any of the additives considered a biocide? No Yes (Biocides are designed to control biological growth, such as algae, in tanks, cooling towers, and other equipment)?

3. **List the Process Wastewater Types and Flows.** Common types of mining process wastewaters are listed below. "Other" process wastewater types could be softener regeneration wastewater, scrubber water or wastewater from internal building floor drains. Dust suppression water may be omitted if there is no runoff. Outfalls described below should be located on the site map requested in Section II, page 2.

Type of Wastewater (check all that apply):	Outfall # (#1, #2, etc.)	Average Daily Flow (gallons per day)	Type of Wastewater (check all that apply):	Outfall # (#1, #2, etc.)	Average Daily Flow (gallons per day)
<input type="checkbox"/> Washwater Associated with Material Processing	#		<input type="checkbox"/> Sanitary wastewater from toilets, sinks, etc. <i>If the sanitary wastewaters are not mixed with the mining process water, write the type of sanitary waste treatment system in the daily flow column in place of a flow estimate.</i>	#	
	#			#	
	#			#	
<input type="checkbox"/> Mine Site Dewatering	# <u> 1 </u>	<u> N/A </u>	<input type="checkbox"/> Other (describe type)	#	
	#			#	
	#			#	
<input type="checkbox"/> Noncontact Cooling Water, Condensate or Boiler Water	#		<input type="checkbox"/> Other (describe type)	#	
	#			#	
	#			#	
<input type="checkbox"/> Vehicle or Equipment Washwater	#		<input type="checkbox"/> Other (describe type)	#	
	#			#	
	#			#	

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Section V: Signatory Requirements

Information about the person completing this form:

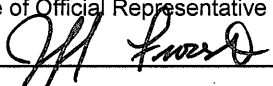
Name, Last Forseth	First Jeff	MI A	Title Manager
Address 353 Haugen rd		City Edgerton	State W.
ZIP Code 53534		Phone Number 608-695-8050	Fax Number 608-884-9107
Email Address (if available) dispatch@holversoncompanies.com			

Check here if you should receive Discharge Monitoring Reports (DMR's) for annual reporting of discharge test results.

Official Representative's Signature. This form must be signed by the official representative of the permitted facility who is: the proprietor for a sole proprietorship; a general partner for a partnership; a principal executive officer, ranking elected official or other duly authorized representative for a unit of government; a member or manager for a limited liability company; or, for a corporation, an executive officer of at least the level of vice president, or by the executive officer's authorized representative having overall responsibility for the operation of the facility. If this form is not signed below, or is found to be incomplete, it will be returned.

I certify that I am familiar with the information contained in this application and that to the best of my knowledge and belief such information is true, complete and accurate.

Jeff Forseth

Printed or Typed Name of Official Representative Jeff Forseth	Title Manager
Signature of Official Representative 	Date 7-9-20

MAIL COMPLETED APPLICATION TO:

Will auto-populate address based in the county select on Section II - Site Property Information

For Department Use Only	
Date Application Received:	Date permit coverage approved:
<p>Status</p> <p> <input type="radio"/> Denied Internally Drained - Yes <input type="radio"/> No <input type="radio"/> AFSCI Frequency - Annual 1 per 3 years <input type="radio"/> Approved SWPPP Required - Yes <input type="radio"/> No <input type="radio"/> Contaminant Control System Insp. - 1/4ly 1 per 3 years <input type="radio"/> Specific Permit Site Number or FIN: Visual Runoff Quality Check - 1/4ly 1 per 3 years </p>	
Comments	

APPENDIX A - WATER TREATMENT ADDITIVE INFORMATION

[Use this appendix to provide details on the additives affirmed to be used in question #2, Section IV on page 3]

Submit the following information for each water treatment or conditioning additive that could be contained in the wastewater discharged to seepage or surface waters:

- a. Commercial name, and the amount or concentration of the additive that will be used.
- b. Proposed frequency of usage, and the anticipated discharge concentration of the additive.
- c. Material Safety Data Sheets (MSDS's) for each additive.

NOTE: The information requested in this section should be available from your additive supplier.

If your discharge enters a surface water, you must also submit the following information:

- d. At least one 48-hour LC₅₀ or EC₅₀ value for Daphnia magna and at least one 96-hour LC₅₀ or EC₅₀ value for fathead minnow, rainbow trout, or bluegill.

If available from suppliers:

Outfall #	Additive Name and Manufacturer	Additive Type Biocide, pH adjuster, scale, inhibitor, rust inhibitor, etc	Amount or Concentration Used (mg/l or lbs/day)	Anticipated Discharge Concentration (mg/l)	Frequency of use (Continuous, 1x/week, etc)	Daphnia Magna 48-HR LC ₅₀ or EC ₅₀ (mg/l)	Fathead Minnow 96-HR LC ₅₀ or EC ₅₀ (mg/l)	Rainbow Trout 96-HR LC ₅₀ or EC ₅₀ (mg/l)	Blue Gill 96-HR LC ₅₀ or EC ₅₀ (mg/l)
1	N/A								

ATTACH MATERIAL SAFETY DATA SHEETS (MSDS's) TO BACK OF THIS APPENDIX

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Mailing Addresses

Unless otherwise directed, mail this completed form to the Wisconsin DNR (WDNR) office associated with the county of the facility site location as follows:

NORTHEAST REGION (NER)

Brown	Green Lake	Marquette	Outagamie	WDNR Green Bay Service Center
Calumet	Kewaunee	Menominee	Shawano	2984 Shawano Avenue
Door	Manitowoc	Oconto	Waupaca	Green Bay, WI 54313-6727
Fond du Lac	Marinette	Oneida Reservation	Waushara	920-662-5100
			Winnebago	

NORTHERN REGION (NOR)

Ashland	Douglas	Langlade	Rusk	WDNR Eau Claire Service Center
Barron	Florence	Lincoln	Sawyer	1300 W Clairemont Ave
Bayfield	Forest	Oneida	Taylor	Eau Claire, WI 54701
Burnett	Iron	Polk	Vilas	715-839-1636
		Price	Washburn	

WEST CENTRAL REGION (WCR)

Adams	Crawford	La Crosse	Portage	WDNR Eau Claire Service Center
Buffalo	Dunn	Marathon	St. Croix	1300 W Clairemont Ave
Chippewa	Eau Claire	Monroe	Trempealeau	Eau Claire, WI 54701
Clark	Jackson	Pepin	Vernon	715-839-1636
	Juneau	Pierce	Wood	

SOUTH CENTRAL REGION (SCR)

Columbia	Grant	Jefferson	Rock	WDNR South Central Regional
Dane	Green	LaFayette	Sauk	Headquarters
Dodge	Iowa	Richland		3911 Fish Hatchery Road
				Fitchburg, WI 53711
				608-275-3266

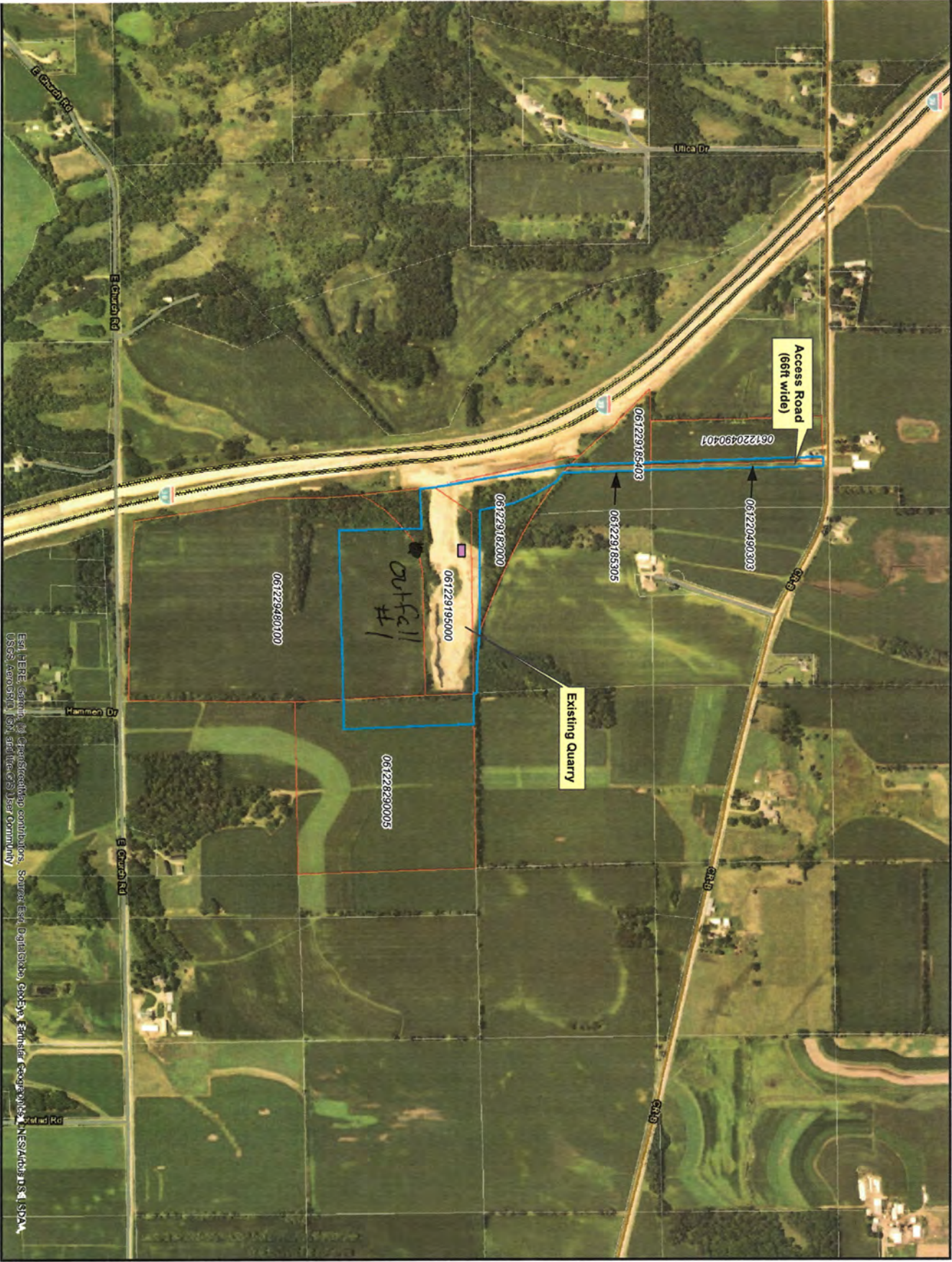
SOUTHEAST REGION (SER)

Kenosha	Ozaukee	Sheboygan	Washington	WDNR SER Headquarters
Milwaukee	Racine	Walworth	Waukesha	2300 N Dr. Martin Luther King Jr. Dr
				Milwaukee, WI 53212

Google Maps Wrigley Field



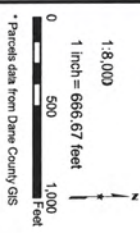
Imagery ©2020 Maxar Technologies, USDA Farm Service Agency, Map data ©2020 200 ft



East HERE, Gamma 3D OpenStreetMap contributors, Source: Esri, DigitalGlobe, GeoEye, Earthstar, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Figure 3
Operation Plan Detail

- Parcels (parcel number)
- Proposed Scale Location
- Proposed Boundary
- + Estimated 45 acres



FSF&L
Wrigley Field Quarry
Town of Christiana
Dane County, WI



* This is the sediment pond. There will be 3" clear limestone around it to help with the sediment
○ This is where water will be discharged to. You should be able to see the water

Wrigley field

Forever sandfill and Limestone

We are looking to continue the mining of limestone from this previously State owned quarry.

This site has berms around the quarry that prevent rain water from running into the quarry and a solid quarry floor. In the south west corner of the quarry the floor is 10 feet deeper and provides a place for the water to run to. I will put a berm around it using 3" clear stone to slow down the water so that any sediment in the water will settle out before going into the pond. This pond will also be used a place to pump excess water out of the quarry into a waterway. Water pumped from this area will be clean as any sediment will be given time to settle out if need be before pumping.

The water that is pumped will go through a series of limestone weepers that will slow down the water as it makes it's way through the already established waterway. Quarterly and annual water testing will be done to make sure the water is free of oils, grease, suspended solids, PH levels and total phosphorus.

The processing of limestone will be done with crushing equipment. There will not be any material washing or chemicals used in this quarry.

There are no concrete or asphalt plants on this site.

Thank you

Jeff Furseth

**GROUND WATER AND STORM WATER
POLLUTION PREVENTION
AND
SPILL RESPONSE PLAN
For
FOREVER SAND FILL AND LIMESTONE, LLC
AGGREGATE PROCESSING OPERATIONS**

Forever Sand Fill and Limestone, LLC

353 Haugen Road
Edgerton, WI 53534

(608) 884-9105

Facility Contact Personnel

Jeffry Furseth

Forever Sand Fill and Limestone, LLC
Ground Water and Storm Water
Pollution Prevention and Spill Response Plan
for
Nonmetallic Mineral Processing

Purpose and Scope

This pollution prevention plan concentrates on identifying potential pollutants at the work site, and adopting management practices that eliminate their contact with sensitive waters of the State. The primary focus of this plan is to provide education for field employees, thereby reducing human error as a contributor to environmental pollution.

I. Potential Pollutants

A. #2 Fuel Oil

1. Spills during equipment refueling
2. Bulk shipment deliveries - overfill
3. Broken or leaking fuel lines and hoses

B. Lubricating Oils

1. Overfilling gearboxes
2. Leaking seals on mechanical equipment
3. Engine breather pipes
4. Spills during oil changes
5. Improper storage of oil inventory

C. Grease

1. Over greasing bearings and wear surfaces
2. Improper disposal of cleaning towels

D. Antifreeze

1. Leakage from damaged radiators
2. Overfill/spill

E. Sediment

1. Runoff not contained on site
2. Poor operating techniques

II. Implementation of Best Management Practices (BMP)

A. Education

- a. The pollution prevention plan is reviewed at the annual safety meeting. The intent of the plan is stressed, and changes or improvements are noted. Field employees discuss the plan, and exchange ideas for potential plan improvement. Any new ideas that contribute to the intent of the plan are included in the written pollution prevention plan for the next year.
- b. Information about the importance of pollution prevention is routinely stressed at scheduled tailgate safety meetings. Topics for discussion include safe petroleum product handling, proper maintenance procedures and routine inspection of the equipment during operation. Personnel are encouraged to take a pro-active role in prevention of spills. Good housekeeping practices are stressed for control of minor drips and leaks from daily maintenance and operation.

B. Inspection and Supervision

- a. The gravel pit or quarry and associated processing equipment is routinely inspected each day of operation to ensure that all equipment is functioning properly, all valves are closed, and significant materials are properly stored and secure.
- b. Fuel transfers are supervised to ensure that spills do not occur. Plant personnel assist tanker drivers as needed to provide safe and effective transfer of fuels.
- c. Refueling of plant equipment is monitored at all times to eliminate overfilling.

C. Communication and Response

- a. The emergency response plan for spills is posted in the repair trailer for the rock crushing operations. Employees are aware of the location of the listing and follow the outlined procedure in a spill response situation.
- b. Plant personnel respond immediately to a spill situation to mitigate effects and isolate/control source of spill. Operations are immediately shut down when necessary to redirect on-site resources and manpower in spill response.
- c. Company contact personnel and emergency phone numbers are posted in the repair trailer to provide operators with immediate access to company support. Contact with Dick Bakken is established as soon as possible after the spill so that proper reporting requirements can be met.

D. Selection of Plant Sites

- a. Environmental impacts in equipment and work areas are considered prior to set up in any location.
- b. Whenever possible, processing equipment is located in a pit or quarry that provides natural, on site containment of storm water runoff, and ample protection for sensitive ground water supplies.
- c. In locations where there is increased environmental sensitivity because of proximity to receiving waters, lack of natural containment, or other critical factors, berms or diking will be constructed that will contain runoff or protect a potential spill from releasing into the ground water in the immediate equipment area.

E. Petroleum Product Storage

- a. All fuel tanks shall have drip pans or absorbent material available for nozzle storage between refuelings. Tanks and hoses are inspected daily for integrity and any problems are corrected.
- b. Lubricants and grease are stored in the repair or service trailer until needed. The storage area is secured at end of each operating cycle.
- c. Drip pans and contaminated absorbent material are replaced at the end of each work shift and at the onset of precipitation to eliminate ground water and surface water exposure to petroleum products. Containers are located in the service trailer for storage of used absorbents and other cleanup materials.
- d. Used oil and grease from equipment service and repair is stored inside the plant service trailer until collected for off-site disposal.

F. Repair and Maintenance

- a. Engines and gearboxes will be inspected and fully serviced as needed during the off-season to eliminate leaking seals, fuel lines, and gaskets. Leaks that develop during operation are contained by drip pans, absorbents, or other acceptable means, until company maintenance personnel repair the problem. In cases where continued operation may cause uncontrollable fluid losses, plant operations will cease until the problem is corrected.
- b. Plant employees are instructed in proper lubrication procedures for plant equipment. Manufacturers specifications are followed to eliminate over-fills of gearboxes and crankcases. Greasing of bearings and wear surfaces is carefully monitored to eliminate unnecessary grease contact with the ground. Overflow from bearings is collected and disposed of with contaminated absorbent material.

- c. Routine engine oil changes are done with adequate absorbent material to provide for drips and spills associated with maintenance operations. Waste oil is stored in spill proof containers until picked up for off-site disposal.
- d. Any leaks that develop during the course of operation may, at the foreman's discretion, be contained with drip pans or petroleum absorbent material, as long as plant operation ceases prior to a storm event and containment vessels are cleaned and free of petroleum to prevent contact with ground water or storm water.
- e. Repair and maintenance procedures are conducted in the shop, service trailer or outside with adequate containment for degreasing and cleaning. Petroleum absorbent material is available as needed to supplement containment.

G. Use of Available Resources

- a. Housekeeping supplies, including drip pans and absorbent materials, are kept on inventory in the repair trailer at all times. All plant personnel have access to these materials, and are instructed in their use. Additional booms or pads are available upon request.
- b. All plant personnel are available to respond to petroleum spills as needed. Other resources may be mobilized to mitigate the effects of a petroleum release, such as subcontractors, additional equipment, or additional personnel.
- c. If necessary, plant loading equipment may be used to construct temporary berms or place aggregates for absorbing free flowing liquids. Loading equipment can also be used for backfilling or removing impacted soils or aggregates.

H. Construction of Containment

- a. When a plant must be placed in an area where additional containment is needed because of the amount of fines being produced; field employees may elect to construct berms or temporary basins for collection and control of contaminated water. Necessity of construction is based on slope of plant site, area drained, soil type, and proximity to receiving waters. Other influences may be considered on a site-specific basis as needed to fulfill the purpose of the plan.
- b. Water collected in on-site-basins is routinely inspected by field personnel for evidence of petroleum sheen or odor. If no evidence of contamination is apparent, the water may be released by gravity flow or by pumping. Release of water must be done in a manner that will not induce erosion or release water with high sediment loadings into receiving waters. Water collected in on-site basins that shows evidence of petroleum contamination is pumped into disposal tanks for transport to approved facilities.
- c. Erosion control measures outside of plant and equipment work areas may be identified by field personnel. In these situations, company officials should be notified, so that site-specific BMP's can be implemented.

I. Monitoring and Inspections

- a. Quarterly inspections will be done to ensure that all equipment is in good running condition and free of leaks. Visual inspections will be done after rains to make sure storm water is not being contaminated and is draining to proper areas of the quarry.
- b. Annual Facility site inspections will be done and turned into the Department of Natural Resources
- c. Water testing will be done if pumping is required on a quarterly basis. Reporting will be completed and sent in with the Annual Facility Site Compliance Inspection.

Name and contact information for SWPPP Implementation, Development and Inspections

Jeff Furseth Manager

608-695-8050

dispatch@halversoncompanies.com

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Print name Jeff Furseth

Sign name Jeff Furseth 7-28-20

APPENDIX F

AGGREGATE PROCESSING AND CONSTRUCTION EQUIPMENT

Aggregate Processing and Construction Equipment

Examples aggregate processing and construction equipment may include:

Site Development

Bulldozer
Scraper
Backhoe
Haul truck
Grader
Shouldering machine

Processing and Material Transport Equipment

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

Equipment for Environmental Control

Tractor & Seed Spreader
Roller

APPENDIX G

FUGITIVE DUST CONTROL PLAN

Fugitive Dust Control Plan

I. Site Roadways / Plant Yard

A. The dust on the site roadways/plant yard shall be controlled by applications of water, calcium chloride or other acceptable and approved fugitive dust control compounds. Applications of dust suppressants shall be done as often as necessary to meet all applicable emission limits.

B. All paved roadways/plant yards shall be swept as needed between applications.

C. Any material spillage on roads shall be cleaned up immediately.

2. Plant

A. The drop distance at each transfer point shall be reduced to the minimum the equipment can achieve. The transfer point from the re-circulating belt to the feed belt shall be equipped with an enclosed chute.

3. Storage Piles

A. Stockpiling of all nonmetallic minerals shall be performed to minimize drop distance and control potential dust problems.

B. Stockpiles shall be watered on an as needed basis in order to meet the opacity limits. Also, equipment to apply water or dust suppressant shall be available at the site, or on call for use at the site, within a given operating day. A record of all watering shall be kept on file and be made available to the Department upon request.

4. Truck Traffic

A. On-site: Vehicles shall be loaded to prevent their contents from dropping, leaking blowing or otherwise escaping. This shall be accomplished by loading so that no part of the load shall come in contact within six (6) inches of the top of any side board, side panel or tail gate, otherwise, the truck shall be tarped.

5. Department Inspection

A. The provisions and procedures of this plan are subject to adjustment if following an inspection and written notification, the Department finds the fugitive dust requirements and/or permitted emission limits are not being met.