



# Standard 4



That adequate utilities, access roads, drainage and other necessary site improvements have been or are being made;

# Application Claims:

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- The operation plan for the site identifies access roads and drainage for the site.
- The site will be accessed from the existing (north) quarry entrance on Center Road until the additional entrance will be created to access the expansion property to the south.
- The driveways 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.

# Comments:

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- **Claim 1** Not in dispute.
- **Claim 2** Not in dispute.
- **Claim 3** Accepted at face value.
- **Claim 4** There is little information in the application about this factor, especially any impacts to groundwater and surface water quality. CUP 02582 application admits that groundwater is close to the ground surface—within 20 to 50 feet — and that intermittent dewatering will be needed to keep the quarry floor dry.
- Yet it contains no information about the dewatering process, which it concedes that if maintained “over extended periods of time can lower the water table”. There is no indication that the operator evaluated the aquifer characteristics, recharge rates or contacted neighbors about well impacts since his dewatering process began,

While there are benefits to dewatering, high pumping rates over extended periods of time can lower the water table

p. 86/120 Appendix K

# Center Rd Quarry in Recent Years

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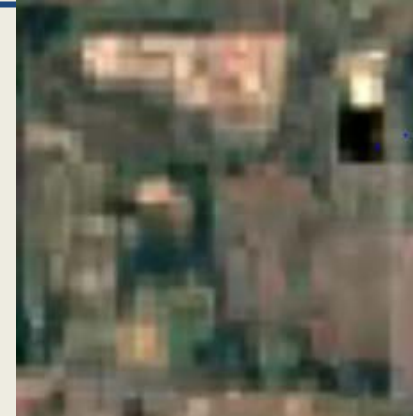
**2001**



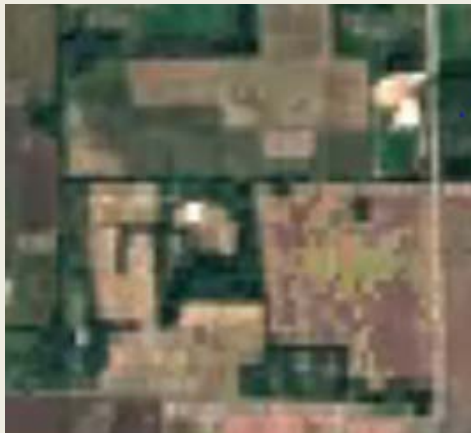
**2007**



**2010**



**2013**



**2017**



**2019**



**2020**



# Picture Timeline

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- **2001 – 2002** The quarry looked like a serene pond with no active Quarry operations at that time. We moved here in 2002.
- **2007 -** The area of the ‘pond’ appears to have increased in size, and this is when our well went dry. Well report for our Old Stage property is found in the attached Appendix C of the CUP.
- **2010 -** The area of the ‘pond’ is decreased, more material has been removed closer to Center Road.
- **2013 -** Again the area of the pit has a larger ‘pond’ visible.
- **2017 – 2022** The area of standing water has diminished, but areas where material has been removed has increased.

# Current Well info

|  |  |  |            |
|--|--|--|------------|
| 1. Well Location   |  | T=Town C=City V=Village Of <b>Rutland</b>        |            |
| Grid or Street Address or Road Name and Number<br><b>4082 Old Stage Rd</b>                             |  | Geological Unique Well Number<br><b>WJ023</b>    |            |
| Subdivisions Name  |  | Lot #  | Block #    |
| County Name <b>Dane</b>  |  | Well Completion Date <b>February 20, 2007</b>    |            |
| Gen'l Lot # _____ or <b>SW</b> 1/4 of <b>SW</b> 1/4 of Section <b>28</b> , T <b>5</b> N; R <b>10 E</b> |  |  |            |
| 2. Well Type <u>  <b>2</b>  </u>   |  | 1 = New    2 = Replacement    3 = Reconstruction |            |
| of previous unique well # _____  |  | constructed in 19 _____                          |            |
| reconstructed well ? <b>OLD WELL OUT OF WATER</b>  |  | Reason for new, replaced or<br>New Well Id _____ |            |
| 3. Well Serves <u>  <b>1</b>  </u> # of Homes and or _____   |  | <u>  <b>1</b>  </u> 1 = Drilled 2 = Driven Point |            |
| (Ex: Barn, Resturant, Church, School, Industry, etc.)  |  | 3 = Jetted 4 = Other                             |            |
| 4. Static Water Level <u>  <b>25.0</b>  </u> ft.   |  | 5. <b>Geology</b>                                |            |
| A = Above B = Below <b>B</b>   |  | Type, Color, Noncryst. Calc. Hardness, etc.      |            |
| 6. Pump Test   |  | From (ft.)                                       | To (ft.)   |
| Pumping Level <u>  <b>48.0</b>  </u> ft. below ground surface  |  | Sand & Clay                                      | 0      5   |
| Pumping at <u>  <b>20.0</b>  </u> GPM <u>  <b>1.00</b>  </u> hrs                                       |  | Sand & Clay                                      | 5      59  |
|  |  | Broken Limestone/Dolomite                        | 59      64 |
|  |  | Limestone/Dolomite                               | 64      97 |

- **Feb 20, 2007**
- Old Well Out of Water
- Replacement Well
- Had to be Re-Drilled
- Thru Sand / Clay / Limestone / Dolomite
- **Final Depth 97 ft**

# Water Plans

Site dewatering as noted above in *III. Proposed Operations 3. Site Development and Erosion Control* will meet all regulatory and permit requirements and occur intermittently as needed. It is expected that when dewatering occurs pumping will discharge between 50 gpm – 400 gpm depending on the operations and rainfall event(s). Per *Appendix A - Figure 8 – Operation Plan* equipment storage and fuel storage will be maintained in the northeast and/or southeast corners of the site away from any groundwater/surface water. In addition, a detailed plan will be included in the site’s stormwater pollution prevention plan (SWPPP) that will include but are not limited to daily inspections, spill response planning, plant operating area planning to reduce risks, diking / berming and safe storage of equipment and fuel to prevent groundwater contamination. Finally, reference *Appendix K – Understanding Groundwater Fact Sheet* for additional information and note that all local, state, and federal reporting requirements will be followed.

SWPPP on p. 56 – 67 of CUP

This is for existing 9 acre pit. Date: Mar 2018

***An updated SWPPP should be in place.***

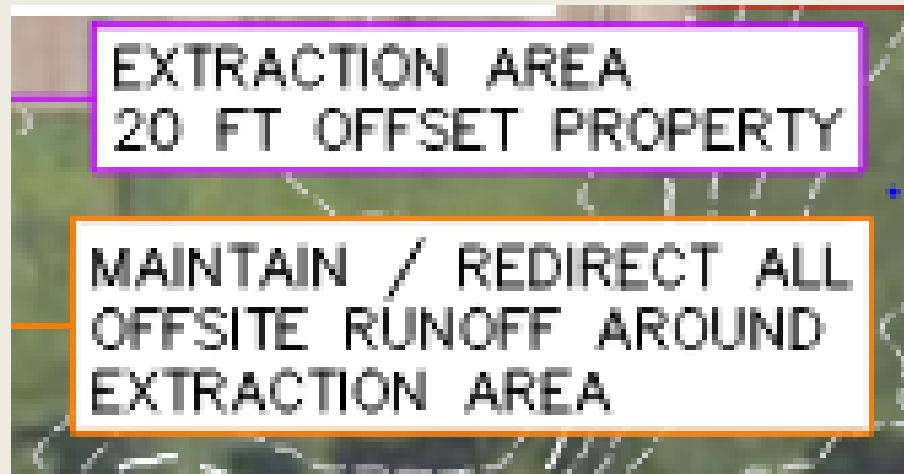
|                              |             |                          |
|------------------------------|-------------|--------------------------|
| 4. Static Water Level        | <u>25.0</u> | ft.                      |
| A = Above B = Below <b>B</b> |             |                          |
| 6. Pump Test                 |             |                          |
| Pumping Level                | <u>48.0</u> | ft. below ground surface |
| Pumping at                   | <u>20.0</u> | GPM <u>1.00</u> hrs      |



# From Appendix A Figure 8

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4. ALL EQUIPMENT AND FUEL WILL BE STORED IN SOUTHEAST OR NORTHEAST CORNER OF PROPERTY WHEN NOT IN USE. IN ADDITION, GROUNDWATER WILL BE PROTECTED AT ALL TIMES FOLLOWING BEST PRACTICES / PERMIT REQUIREMENTS.
5. LIMESTONE PHASE 4 WILL POTENTIALLY BE EXTRACTING LIMESTONE FLOOR APPROXIMATELY AT GROUNDWATER ELEVATION, WHILE SAND EXTRACTION WILL BE DONE BELOW WATER TABLE (PHASE 1-3)



[3] surrounding properties will be affected by this **OFFSITE Runoff** water being redirected to the area immediately surrounding the extraction boundaries, with Center Rd being the Eastern [4<sup>th</sup>] boundary.



# Appendix K GroundWater Fact Sheet

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## Best Management Practices for Protecting Groundwater

Before expanding an existing or developing a new operation:

- Catalog the aggregate resource and its relationship to groundwater. This may include the depth to and direction of groundwater flow and baseline data on existing groundwater quality.
- Inventory location, depth, and condition of neighboring wells.
- Develop a groundwater protection and management plan that is geared to the location, geology and size/scope of the project.
- Obtain all necessary local, state and federal permits and approvals, paying particular attention to local groundwater concerns.

## Bullet 1 – Incomplete

Bullet 2 – Well Data included in the CUP

Bullet 3 – Minimal Plan

Bullet 4 – SWPPP

permits are not for CUP but existing pit

# Summary of Standard 4 Concerns

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

- **Static Water Level** in the vicinity of the proposed area to be mined is found to be ~ 25 – 102 ft
  - ***Pumping excess Water from the areas being mined at a proposed rate of 400 GPM is worrisome for the viability of these wells.***
- **Future Septic** Not listed as part of the CUP Application
  - *A future building is planned at SE corner, possible septic needed?*
- **Storm Water / Drainage** **sending this excess water either S or N of the proposed area to be mined appears to be troublesome to Center Rd and to Graves Cemetary and farm fields directly S of Old Stage Rd at this location. Both these areas presently flood during heavy rains.**