

Application – Part 1
Town of Prairie Lake Nonmetallic Mining License

(Please refer to the Town of Prairie Lake Nonmetallic Mining Licensing Ordinance 2012 - 1)

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|------------------------|-------------|
| Operator Name: | |
| Address: | |
| Office phone: | Cell phone: |
| Email address: | |
| Landowner/Lessor Name: | |
| Address: | |
| Home/office phone: | Cell phone: |
| Email address: | |

(If there are additional operators or landowners/lessors attach additional pages)

(A) The following items must be part of this license application:

_____ A copy of a fully executed lease and/or agreement between the Landowner and the Operator who will engage in Nonmetallic Mining on the proposed Site.

_____ A certified survey map(s) and Parcel identification number(s) of the Parcel(s) on which the Nonmetallic Mining operation will be located.

_____ A current aerial photo of the proposed Site at a scale of one (1) inch equals six hundred (600) feet signed by both the Operator and the Landowner.

_____ A map drawn to a scale of one (1) inch equals two hundred (200) feet showing the boundaries of the Nonmetallic Mining Site, the location and total acreage of the Site, and the name of all roads within one (1) mile of the Site.

_____ A topographic map of the Mine Site extending one-thousand-three-hundred-twenty (1,320) feet beyond the Site boundaries at contour intervals no greater than ten (10) feet.

_____ A separate drawing showing proposed location within the Site of all buildings and all other structures, Erosion control measures, monitoring Wells, equipment, tanks, stockpiles, settling ponds, wash areas, identified storage and parking areas. If Applicant is applying for a License for an existing Mine Site, show the boundaries of the existing excavation, stockpiles, and wash or settling ponds.

_____ A map on which the residential, agricultural and municipal Wells within one (1) mile of the boundaries of the Nonmetallic Mining Site in all directions are marked and given a numerical identification of the location.

_____ The location and name of all Surface Waters, including lakes, private or public ponds, streams (including intermittent streams and headwaters), drainage ditches, wetlands, drainage patterns and other water features on the Site and within one (1) mile of the Site.

_____ A description and map of the distribution, depth and type of Topsoil on the Site, as well as the geological composition and depth and width of the Nonmetallic Mineral deposit.

_____ A map identifying the location of all other non-contiguous Sites, if any, that will contribute Nonmetallic Mineral to the same Manufacturing Facility as the Site for which the Applicant seeks a License.

_____ A map identifying the location of the Nonmetallic Mineral deposit on the Mine Site within the Town of Prairie Lake.

_____ The dimensions of the proposed excavation and the elevation of observed or estimated Water Table(s) as determined by test borings within the Site and within one-thousand-three-hundred-twenty (1,320) feet on all sides adjacent to the Site. The Applicant shall hire the services of a licensed hydrologist or geologist to acquire this information.

_____ An outdoor lighting plan shall be submitted that shows the location, mounting height, types of luminaries, accessory equipment such as shades and deflectors, and the beam direction. The manufacturer's photometric data shall also be provided. All light sources shall be shielded so that they are not directly visible from adjacent residences. Spillover of lighting into adjacent residential properties shall not exceed two (2.0) foot-candle measured at any point ten (10) feet beyond the Mine Site.

_____ A list of the mailing addresses of Adjoining and Adjacent Landowners as of the date of application for License of Nonmetallic Mining or Manufacturing Process.

(B) Will the proposed Nonmetallic Mining extract material below twenty (20) feet above the Water Table, or below Bedrock, or will it result in pumping more than twenty five thousand (25,000) gallons per day from the Mine Site for dewatering or Manufacturing Process, or has it the potential for adverse impacts on existing Groundwater users in the Town?

Yes _____

No _____

If "Yes" then the following additional information shall be required:

_____ Additional hydro geological information including, but not limited to, the following:

- A list of all numerically identified Wells within one (1) mile of the Site and, based on Well construction reports, information for each Well regarding Well depth, depth of casing, and depth to the source of Groundwater being drawn from.
- Written identification of all known contaminated Groundwater resources within one (1) mile of the Site.

- Written identification of the elevation of the Water Tables, and the directions and rate of Groundwater flow within one (1) mile on all sides of the Site.
- Written identification of the elevation for all Surface Waters, streams and tributaries, including headwaters within one (1) mile of the Site. Elevations shall include the current water level, as well as the ordinary high water marks and baseline flows. If the DNR has not established a base flow for streams, tributaries and headwaters within one (1) mile of the Site, the Applicant may be required to retain a licensed hydro-geologist to establish a base flow using standard scientific methods.
- A delineation, using a licensed wetland scientist and DNR data, of the location of any wetlands on the Nonmetallic Mining Site based on an on-Site investigation, and within one (1) mile of the Site, using available maps, photos and other resources. When appropriate for the information being provided by a map, maps should be in the form of contour maps and multiple geological cross-sections passing through the proposed Site and all other areas of concern. Horizontal and vertical measurements shall be referenced to a permanent reference point of the Barron County coordinate system.

_____Additional information on water usage and water management methods to be used on the Site including but not limited to:

- A map or engineering drawing of the Nonmetallic Mining Site, including contiguous acreage slated for possible expansion. Provide the location of existing and proposed Wells, including Well depth, depth of casing, depth to water, and pumping capacity for each Well.
- An identification of the location of all wash ponds, settling ponds, absorption beds and the like, and their distance from Bedrock and the Water Table; a description of how these will be maintained for their optimal functioning; and a description of how overflows from them will be managed on Site.
- A description of the various uses to which water will be put on the Site, including dewatering, which shall include for each such use, the frequency and rate of withdrawal, and the maximum average daily amount of withdrawal in a one (1) week period during Nonmetallic Mining.

_____Additional information regarding the operations at the Site including, but not limited to, the following:

- Where dewatering is proposed, an identification of the pumping rates and times, elevation of Groundwater drawdown level, and the location and amounts of discharge.
- Indicated elevation at the lowest point below Groundwater at which excavation and dewatering activity will occur.

- A description and drawings of methods to be used for prevention of Surface Water running into the excavation.
- A Groundwater monitoring program to include the installation of monitoring wells near the excavation Site boundaries to measure Groundwater elevations, quality, and flow rate and direction.
- All necessary means to ensure the reliability of the modeling shall be used, including justification of input data, calibration and sensitivity analysis of Groundwater models, etc.
- A reliable estimate, to the extent possible, of the depth and width of the cone of depression together with Groundwater flow rates and direction, during Nonmetallic Mining operations.
- An identification to the possible existence of fractures, crevices and cavities in the deposit.

(C) Will the proposed Nonmetallic Mining extract material below twenty (20) feet above the Water Table, or below Bedrock, or will the Manufacturing Process of the product(s) create Waste Material stockpiled or disposed of on this Site as part of the Reclamation of the Site or is there otherwise the potential for adverse impacts on Groundwater quality?

Yes _____

No _____

If "Yes" then the following additional information shall be required:

_____ Information regarding core samples which may include, but is not limited to, the following:

- Core samples to the depth of the proposed excavation taken from every one-half (½) - acre sector of the proposed Site if the Site is two (2) or more acres. Any core samples shall be taken by a registered professional geologist or civil engineer. The core sample shall be taken and recorded at 10-foot-depth intervals.
- Analysis of such samples for lead, arsenic and any other toxic metal or mineral that may reasonably be believed to be present in the area or generally in the type of soils and deposit from which the extraction will be made. Tests shall be conducted by a certified lab which is approved by the Town's Engineer.

_____ Baseline Groundwater quality.

- Information regarding baseline Groundwater quality at the Mine Site prior to the commencement of Nonmetallic Mining in accordance with Wis. Admin. Code §NR 140.20. In such a case, Wells shall be located every two (2) acre sector of the proposed Site if the Site is four (4) or more acres, or from each acre of the Site if it is less than four (4) acres.

- Information regarding baseline Groundwater quality in any private water supply within one (1) mile of the property boundaries of the mining Site, provided access to testing such Wells is provided by the Landowner.

(D) Will the proposed Nonmetallic Mining include a Manufacturing Facility that draws from wells twenty five thousand (25,000) gallons or more of water per day in the production of a merchantable product, or runs more than thirty (30) trucks per day, or has it otherwise the potential for adverse off-Site impacts on the Town?

Yes _____

No _____

If "Yes" then the following additional information shall be required:

_____ Information regarding traffic impacts shall include the following:

- An estimate of the number of trucks per day entering and leaving the Site and the weight limits applicable to such trucks;
- A map showing the location of any off-Site Manufacturing Facility, rail loading or other transfer Sites and the routes taken to transport material to them, the location of all residences, schools, or places of commerce that access the route and their distance from the roadway, and the location of livestock and farm equipment accesses and crossings in the Town of Prairie Lake; and
- A description of issues associated with the selected routes which may affect scheduling of traffic on these routes such as school bus use and marked or unmarked line of sight issues.

_____ Information demonstrating compliance with the provisions of Wis. Admin. Code §NR 216 for Site Erosion control and storm water management and any other applicable State or Federal regulations regarding runoff and storm water management.

_____ Information demonstrating compliance with the provisions in Wis. Admin. Code §NR 415.075 including, but not limited to, a Fugitive Dust control plan and an ambient air monitoring plan.

_____ Identification, after consultation with the Wisconsin Department of Natural Resources and the United States Fish and Wildlife Service, of any threatened or endangered species or species of concern on the Natural Heritage Inventory within the Mine Site, and any trout habitat within one (1) mile of the Mine Site.

(E) Does the proposed mining operation involve Blasting?

Yes _____

No _____

If "Yes" then the following additional information shall be required:

_____ Demonstration that the Applicant has applied for and obtained a Blasting permit from the Town of Prairie Lake.

_____ Demonstration that the Operator is in compliance with all procedures and standards for Blasting set forth in Wis. Admin. Code DSPS (Dept. of Safety & Professional Services), ch. 7.

_____ Demonstration that all Blasting materials kept on the Site shall be stored in accordance with standards set forth in Wis. Admin. Code DSPS., chs. 7 and 14, and the NFPA (National Fire Protection Assoc.) 495, Explosive Materials Code.

_____ Demonstration of compliance with the Town of Prairie Lake Ordinance 2012 - 2, "Blasting Ordinance".

_____ Data compiled by the Engineer at the Operator's expense of the structural condition of all existing structures within one-half (½) mile of the Site. This data shall be provided by registered mail to Adjacent or Adjoining Landowner of the respective property and, within five (5) working days, the Adjacent or Adjoining Landowner may notify the Town of their intention to hire their own engineer to provide additional data that will become part of the application data. The Adjacent or Adjoining Landowner shall be given fifteen (15) working days to obtain this data. This time shall cause an extension of the License application process.

(F) Has an Infrastructure Development and/or Maintenance Agreement been negotiated between the Town and Operator for all required upgrades to public infrastructure, including signage and for all expected maintenance or repairs to infrastructure in the Town for abnormal damage and wear caused by Nonmetallic Mining and/or Manufacturing Processing and Reclamation as determined by the Engineer?

Yes _____

No _____

If "Yes" then attach copy to this application. If "No", explain below.

(G) Additional comments:

I certify that the information contained herein is truthful and accurate.

Authorized Signature of/for Operator

Signature Landowner/Lessor

Print Name & Title of Operator/Representative

Print Name of Landowner/Lessor

Name of Company

Address

Authorized Signature of/for Operator

Signature Landowner/Lessor

Print Name & Title of Operator/Representative

Print Name of Landowner/Lessor

Name of Company

Address

Date: _____

Date: _____

Application Fee: \$ _____

Administration Fee: \$ _____

(Original of this document and 9 hard copies along with 9 copies of all supporting documentation shall be submitted to the Clerk of the Town of Prairie Lake.)