

DEPARTMENT OF ENVIRONMENTAL QUALITY
Permitting and Compliance Division
Air Resources Management Bureau
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FINAL ENVIRONMENTAL ASSESSMENT (EA)

Issued For: Montana Limestone Company
P.O. Box 5540
Bismarck, ND 58506-5540

Air Quality Permit Number: 2900-06

Preliminary Determination Issued: April 11, 2008

Department Decision Issued: April 29, 2008

Permit Final: May 15, 2008

1. *Legal Description of Site:* Montana Limestone operates a limestone quarrying operation, including limestone removal and handling activities, primary and secondary crushing, screening, and loadout. The location is 19 miles south of Bridger, Montana in Sections 24, 25, 19, and 30, Township 8 South, Range 25 and 26 East, Carbon County.
2. *Description of Project:* Montana Limestone submitted a permit application to modify Permit #2900-05 by requesting to construct and operate a train loadout facility. Material 2½ to 6 inches in diameter will be shipped as "sugar stone" and material that is ¾ inch diameter or less will be shipped in unit trains to the Leland Olds Electrical Generating Station near Stanton, North Dakota.
3. *Objectives of the Project:* The issuance of Permit #2900-06 would allow Montana Limestone to increase business and revenue, by providing transportation of product from the facility.
4. *Alternatives Considered:* In addition to the proposed action, the Department also considered the "no-action" alternative. The "no-action" alternative would deny issuance of the Montana Air Quality permit to the facility. However, the Department does not consider the "no-action" alternative to be appropriate because Montana Limestone demonstrated compliance with all applicable rules and regulations as required for permit issuance. Therefore, the "no-action" alternative was eliminated from further consideration.
5. *A Listing of Mitigation, Stipulations, and Other Controls:* A listing of the enforceable permit conditions and a permit analysis, including a BACT analysis, would be contained in Permit #2900-06.
6. *Regulatory Effects on Private Property Rights:* The Department considered alternatives to the conditions imposed in this permit as part of the permit development. The Department determined the permit conditions would be reasonably necessary to ensure compliance with applicable requirements and to demonstrate compliance with those requirements and would not unduly restrict private property rights.

7. The following table summarizes the potential physical and biological effects of the proposed project on the human environment. The “no-action” alternative was discussed previously.

		Major	Moderate	Minor	None	Unknown	Comments Included
A.	Terrestrial and Aquatic Life and Habitats			X			yes
B.	Water Quality, Quantity, and Distribution			X			yes
C.	Geology and Soil Quality, Stability, and Moisture			X			yes
D.	Vegetation Cover, Quantity, and Quality			X			yes
E.	Aesthetics			X			yes
F.	Air Quality			X			yes
G.	Unique Endangered, Fragile, or Limited Environmental Resource			X			yes
H.	Demands on Environmental Resource of Water, Air, and Energy			X			yes
I.	Historical and Archaeological Sites			X			yes
J.	Cumulative and Secondary Impacts			X			yes

Summary of Comments on Potential Physical and Biological Effects:

The following comments have been prepared by the Department.

A. Terrestrial and Aquatic Life and Habitats

Terrestrials would use the same area as the limestone facility. The facility would be considered a minor source of emissions, by industrial standards; therefore, only minor effects on terrestrial life and habitats would be expected as a result of equipment operations or from pollutant deposition.

Impacts on aquatic life and habitats could result from storm water runoff and pollutant deposition, but such impacts would be minor as the facility would be a minor source of emissions and only minor amounts of water would be used for pollution control. Since only a minor amount of air emissions would be generated, only minor deposition would occur. Therefore, only minor and temporary impacts to aquatic life and habitat would be expected from the proposed project.

Overall, any impacts to the above-cited physical and biological resource of the human environment of the project area would be minor because the proposed project would not change the overall industrial nature of the area. Therefore, the proposed project and any associated impacts would be minor.

B. Water Quality, Quantity, and Distribution

Water would be used for dust suppression on the surrounding roadways and areas of operation and for pollution control for equipment operations. However, water use would only cause a minor disturbance to these areas, since only relatively small amounts of water would be needed. At most, only minor surface and groundwater quality impacts would be expected as a result of using water for dust suppression because only small amounts of water would be required to control air pollutant emissions and deposition of air pollutant emissions would be minor (as described in Section 7.F of this EA).

Overall, any impacts to the above-cited physical and biological resource of the human environment of the project area would be minor because the proposed project would not change the overall industrial nature of the area. Therefore, the proposed project and any associated impacts would be minor.

C. Geology and Soil Quality, Stability, and Moisture

The TLO would have only minor impacts on soils at the proposed site location due to the construction and use of the TLO because the facility is relatively small in size, and would use only relatively small amounts of water for pollution control. Therefore, any impacts to geology and soil quality, stability, and moisture at any proposed operational site would be minor.

Overall, any impacts to the above-cited physical and biological resource of the human environment of the project area would be minor because the proposed project would not change the overall industrial nature of the area. Therefore, the proposed project and any associated impacts would be minor.

D. Vegetation Cover, Quantity, and Quality

Because the facility would be a minor source of emissions, by industrial standards, and would operate in an area designated and used for such operations, impacts from the emissions from the TLO facility would be minor and typical. As described in Section 7.F of this EA, the amount of air emissions from this facility would be minor. As a result, the corresponding deposition of the air pollutants on the surrounding vegetation would also be minor. Also, because the water usage would be minimal, as described in Section 7.B, and the associated soil disturbance is minimal, as described in Section 7.C, corresponding vegetative impacts would be minor.

Overall, any impacts to the above-cited physical and biological resource of the human environment of the project area would be minor because the proposed project would not change the overall industrial nature of the area. Therefore, the proposed project and any associated impacts would be minor.

E. Aesthetics

The TLO operation would be visible and would create noise while in operation. However, Permit #2900-06 would include conditions to control emissions, including visible emissions, from the plant. Also, because the TLO would be constructed at the existing limestone facility, in an area that has already been disturbed, any visual and noise impacts would be minor.

Overall, any impacts to the above-cited physical and biological resource of the human environment of the project area would be minor because the proposed project would not change the overall industrial nature of the area. Therefore, the proposed project and any associated impacts would be minor.

F. Air Quality

The air quality impacts from the increased activities would be minor because Permit #2900-06 would include conditions limiting the visible emissions (opacity) from the plant operations, and would require water and/or chemical dust suppressant and other means to control air pollution. This facility would continue to be considered a minor source of air pollution for the Title V program, because the facility's potential emissions would be below 100 TPY.

Overall, air emissions from the increased activities would have minor impacts on air quality in the immediate and surrounding area because of the relatively small amount of additional pollutants generated. Air pollution controls currently used at the facility, such as enclosures, chemical stabilization and/or water suppression, would reduce air emissions from equipment operations, storage piles, and haul roads.

G. Unique Endangered, Fragile, or Limited Environmental Resources

The increased activities associated with the construction and operation of the TLO would occur within the previously disturbed industrial site at the mine. As part of the MEPA analysis on initial mine development, assessments of potential impacts to unique endangered, fragile, or limited environmental resources were done by the Department, including contact with the Montana Natural Heritage Program – Natural Resource Information System (NRIS) to identify species of special concern at the mine site. The likelihood that the construction and operation of the TLO would impact unique endangered, fragile, or limited environmental resources would be minor because of the relatively small increase in emissions, the lack of change to the mine plan area, and the conditions placed in Permit #2900-06.

H. Demands on Environmental Resources of Water, Air, and Energy

The increased activities would require minimal additional amounts of water, air, and energy. Limited amounts of water would be required to be used for dust control for the equipment, product stockpiles, and surrounding haul roads. Further, as described in Section 7.F. of this EA, pollutant emissions generated from the operation would have minimal impacts on air quality in the immediate and surrounding area because of the relatively small increase in emissions, the lack of change to the mine plan area, and the conditions placed in Permit #2900-06. Overall, the demands and impacts to the environmental resource of water, air, and energy related to the increased activities would be minor.

I. Historical and Archaeological Sites

The increased activities would occur within the previously disturbed industrial site at the mine. According to correspondence from the Montana State Historic Preservation Office, there is low likelihood of adverse disturbance to any known archaeological or historic site because of previous industrial disturbance within the area. Therefore, the likelihood that the increased activities would have an impact on historical or archaeological sites would be minor.

J. Cumulative and Secondary Impacts

The increased activities from the project would cause minor cumulative and secondary impacts to the physical and biological aspects of the human environment. There would be a relatively small increase in air emissions of particulate matter and PM₁₀ and no increase in the mine plan area.

8. *The following table summarizes the potential economic and social effects of the proposed project on the human environment. The “no-action” alternative was discussed previously.*

		Major	Moderate	Minor	None	Unknown	Comments Included
A.	Social Structures and Mores				X		yes
B.	Cultural Uniqueness and Diversity				X		yes
C.	Local and State Tax Base and Tax Revenue			X			yes
D.	Agricultural or Industrial Production			X			yes
E.	Human Health			X			yes
F.	Access to and Quality of Recreational and Wilderness Activities			X			yes
G.	Quantity and Distribution of Employment			X			yes
H.	Distribution of Population			X			yes
I.	Demands for Government Services			X			yes
J.	Industrial and Commercial Activity			X			yes
K.	Locally Adopted Environmental Plans and Goals				X		yes
L.	Cumulative and Secondary Impacts			X			yes

SUMMARY OF COMMENTS ON POTENTIAL ECONOMIC AND SOCIAL EFFECTS:

The following comments have been prepared by the Department.

- A. Social Structures and Mores
- B. Cultural Uniqueness and Diversity

The Department determined that the current permit action would not have an impact on the social structures and mores or the cultural uniqueness and diversity of this area of operation because the construction and operation of the TLO would occur within the previously disturbed industrial area. The surrounding area would remain unchanged as a result of the proposed project.

C. Local and State Tax Base and Tax Revenue

The construction and operation of the TLO would have little or no impact on the local and state tax base and tax revenue. Approximately 5 to 10 employees would be added as a result of issuing Permit #2900-06. Therefore, only minor impacts to the local and state tax base and revenue could be expected from the employees and facility production. The increase in the amount of equipment at the site would be minimal.

D. Agricultural or Industrial Production

The increased activities would occur within the previously disturbed industrial area; therefore, the Department would not expect an impact to or displacement of agricultural production. The increased activities would be relatively small compared to the existing mining operation and would have only a minor impact on local industrial production. In addition, the facility would operate within the permitted mining area, which upon completion of mining operations, would be reclaimed, as specified, by the Environmental Management Bureau (EMB) of the Department. Minor and temporary effects may occur to agricultural land, and the EMB would be responsible for oversight of any reclamation activities. Therefore, impacts to agricultural or industrial production would be minor.

E. Human Health

Permit #2900-06 would incorporate conditions to ensure that the increased activities would be accomplished in compliance with all applicable air quality rules and standards. These rules and standards are designed to be protective of human health. As noted in Section 7.F. of this EA, the air emissions from this facility would be minimized by enclosures, water spray and/or chemical stabilization, and opacity limitations. Furthermore, the increased activities and resulting air emissions would be relatively small. Therefore, any associated impacts to human health would be minor based as a result of compliance with the applicable standards and operational conditions and limitations incorporated within the permit.

F. Access to and Quality of Recreational and Wilderness Activities

The increased activities would occur within the previously disturbed industrial property and would not impact access to recreational and wilderness activities. Minor impacts on the quality of recreational activities could be created from the noise from the increased activities; however, these would be small in comparison to existing activities. Emissions from the operation would be minimized as a result of the conditions that would be placed in Permit #2900-06. Therefore, the associated impacts on the access to and quality of recreational and wilderness activities would be minor.

G. Quantity and Distribution of Employment; and

H. Distribution of Population

As a result of the relatively small size of the operations associated with the increased activities, the quantity and distribution of employment and the distribution of population in the area have a minor impact on quantity of employment and distribution of population. Approximately 5 to 10 permanent employees would be added as a result of issuing Permit #2900-06. Therefore, minor impacts to the distribution of population in the area would be expected.

I. Demands of Government Services

Minor increases may be observed in the local traffic on existing roads in the area. Very limited additional government services would be required relative to these operations. Overall, demands for government services would be minor.

J. Industrial and Commercial Activity

The increased activities would represent only a minor increase in the industrial activity in the area because the increase in limestone production and associated mining activities would occur within the previously disturbed industrial property. No additional commercial activity would result because no secondary activities are expected to move to the area as a result of the increased activities. Overall, only a minor increase in industrial and commercial activity would be expected as a result of the proposed project.

K. Locally Adopted Environmental Plans and Goals

The Department is not aware of any locally adopted environmental plans or goals that would be affected by the proposed project. The state standards would protect the proposed site and the environment surrounding the site.

L. Cumulative and Secondary Impacts

The increased activities would cause minor cumulative and secondary impacts to the social and economic aspects of the human environment in the immediate area because of the small increase in potential air emissions. Increases in traffic would have minor impacts on the local traffic in the immediate area. Because the project would be a relatively small increase of particulate emissions, only minor economic impacts to the local economy would be expected. New businesses would not be drawn to any areas and approximately 5 to 10 permanent jobs would be created as a result of the proposed project. Overall, the proposed project would have minor impacts to the cumulative and secondary impacts to the social and economic aspects of the human environment.

Recommendation: An Environmental Impact Statement (EIS) is not required.

If an EIS is not required, explain why the EA is an appropriate level of analysis: All potential effects resulting from the proposed increase in activities are minor; therefore, an EIS is not required. In addition, the source would be applying the Best Available Control Technology and the analysis indicates compliance with all applicable air quality rules and regulations.

Other groups or agencies contacted or which may have overlapping jurisdiction: Montana Department of Environmental Quality - Permitting and Compliance Division; Montana Natural Heritage Program; and State Historic Preservation Office.

Individuals or groups contributing to this EA: Montana Department of Environmental Quality (Air Resources Management Bureau), Montana Natural Heritage Program, and State Historic Preservation Office (Montana Historical Society).

EA prepared by: Julie Merkel
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