

ENVIRONMENTAL ASSESSMENT

Project Name: Pederson West Gravel Site Proposed Implementation Date: 10/96
 Proponent: Fisher Sand & Gravel, Box 1034, Dickinson ND 58602

Type and Purpose of Action: The operator has applied for a 32.8-acre gravel site where they plan to remove 525,000 cubic yards of gravel over a several year period. The plan commits the operator to salvaging all available soil material, grading disturbed areas, replacing soil material, and reclaiming the site to grassland. The estimated date of final reclamation is unknown.

Location and County: About 4.0 miles NW of Glendive in the WSW34, T16N, R54E, Dawson County.

N = Not present or insignificant impact.
 Y = An impact may occur (explain).

IMPACTS ON THE PHYSICAL ENVIRONMENT	
RESOURCE	POTENTIAL IMPACTS AND MITIGATION MEASURES
1. TOPOGRAPHY, AND GEOLOGIC AND EDAPHIC CHARACTERISTICS, SUITABILITY, AND STABILITY: Are there unusual geologic features? Are fragile, compactible, or unstable soils present? Is the proposed soil material handling adequate? Are there special mining and reclamation considerations?	N - The site is on the edge of a high, flat bench on the south side of the Seven Mile Creek drainage. This is the sedimentary plains portion of the state. No unusual geologic features were observed during the site visit. Prospect holes showed 4 to 12 inches of soil underlain by 0 to 24 inches of overburden. The operator will salvage and replace all soil materials. There are no special mining and reclamation considerations.
2. WATER RESOURCE LOCATION, QUANTITY, QUALITY, AND PROTECTION: Are surface or ground water resources present? Is there the potential for degradation of water quality or quantity? Could water wells be affected? Are there special mining and reclamation considerations?	N - It does not appear that there are surface water resources or wells in the immediate area that could be affected by this mining operation. There are no special mining and reclamation considerations.
3. AIR QUALITY: Will pollutants or particulate be produced? Do air quality regulations apply?	N - Pollutants and particulates will be produced on a temporary basis by mining and reclamation operations. Operators are required to comply with state air quality regulations.

<p>4. PRESENT LAND USE, VEGETATIVE COMPOSITION AND COVER, AND PROPOSED POSTMINING LAND USE: Will vegetative communities be permanently altered? Are any rare plants or vegetative communities present? Are there special mining and reclamation considerations?</p>	<p>N - The present land use is native rangeland. The postmining land use will be native grassland.</p> <p>No rare plants or rare vegetative communities were observed during the site visit. If the Montana Natural Heritage Program report indicates such resources in the area, the Department will take necessary steps to ensure protection.</p> <p>The Department will notify the county weed control board about the operation. The operator has committed to controlling any on-site noxious weeds.</p> <p>There are no special mining and reclamation considerations.</p>
<p>5. TERRESTRIAL, AVIAN, AND AQUATIC LIFE AND HABITATS: Is there substantial use of the area by common or rare mammals, birds, fish, or other animal species?</p>	<p>N - No common species or evidence of their occupation were observed during the site visit. Neither were rare species or evidence of their occupation observed. If the Montana Natural Heritage program report indicates such resources in the area, the Department will take necessary steps to ensure protection.</p>
<p>6. UNIQUE, ENDANGERED, FRAGILE, OR LIMITED ENVIRONMENTAL RESOURCES: Are any federally listed threatened or endangered species or identified habitat present? Species of special concern? Wetlands?</p>	<p>N - The author is not aware of any unique, endangered, fragile, or limited environmental resources at or around the site. If the Montana Natural Heritage program report indicates such resources in the area, the Department will take necessary steps to ensure protection.</p>
<p>7. HISTORICAL AND ARCHAEOLOGICAL SITES: Has the site been surveyed by a cultural resource professional or paraprofessional? Are any historical or archaeological resources present?</p>	<p>N - No cultural resources were observed during the site visit. If such resources are found during the operation, the operator has committed to routing any disturbance around the site of discovery for a reasonable time until salvage can be made, and to promptly notifying the State Historic Preservation Office.</p>
<p>8. AESTHETICS: Is the project on a prominent topographic feature? Will it be visible from populated or scenic areas? What facilities will be on site? Will there be excessive noise or light?</p>	<p>N - The site is in a rural area. It's not visible from populated areas nor should noise and light be a problem.</p>
<p>9. DEMANDS ON ENVIRONMENTAL RESOURCES OF LAND, WATER, AIR, OR ENERGY: Will the project use resources that are limited in the area? Are there other activities nearby that will affect or be affected by the project?</p>	<p>N - There will not be a significant demand or impact on environmental resources or other projects as a result of this operation.</p>

10. OTHER ENVIRONMENTAL ASPECTS OR IMPACTS: Are there other studies, plans, or projects on this tract? Will waste disposal be properly handled? Is reclamation guaranteed by a bond?	N - The author is not aware of any other environmental aspects or impacts. The operator has committed to proper waste disposal. The operator has posted bond to guarantee reclamation.
IMPACTS ON THE HUMAN POPULATION	
RESOURCE	[POTENTIAL IMPACTS AND MITIGATION MEASURES
11. HUMAN HEALTH AND SAFETY: Will this project add to health and safety risks in the area?	N - The site is in a rural area. The project should not add to the health and safety risks in the area if the operator and landowner manage the site in a responsible manner. The operator is required to comply with OSHA and MSHA regulations.
12. INDUSTRIAL, COMMERCIAL, AND AGRICULTURAL ACTIVITIES AND PRODUCTION: Will the project add to or alter these activities?	N - Industrial, commercial, or agricultural activities in the area will not be significantly affected by the operation.
13. QUANTITY AND DISTRIBUTION OF EMPLOYMENT: Will the project create, move, or eliminate jobs?	N - The quantity or distribution of employment in the project area will not be significantly affected by the operation.
14. LOCAL AND STATE TAX BASE AND TAX REVENUES: Will the project create or eliminate tax revenue?	N - Local and state tax revenues have not been significantly affected by similar operations in the state.
15. DEMAND FOR GOVERNMENT SERVICES: Will substantial changes in road use occur? Will other facilities and services (e.g., fire protection, police, schools) be affected or needed?	N - Trucks will use a private road to carry mineral to the facility area. No government services should be affected or needed.
16. LOCALLY ADOPTED ENVIRONMENTAL PLANS AND GOALS: Are there federal, state, county, city, tribal, and/or private zoning or management plans in effect?	N - The author is not aware of any other environmental plans or goals. The local zoning authority has been contacted and clearance obtained.
17. ACCESS TO AND QUALITY OF RECREATIONAL AND WILDERNESS ACTIVITIES: Are recreational or wilderness areas nearby or accessed through this tract? Is there recreational potential within the tract?	N - Access to or the quality of recreational lands or opportunities in the area will not be affected by the operation. There is minimal recreational potential within the tract.
18. DENSITY AND DISTRIBUTION OF POPULATION AND HOUSING: Will the project add to the area's population and require additional housing?	N - The density and distribution of population or housing in the area will not be significantly affected by the operation.
19. SOCIAL STRUCTURES AND MORES: Is some disruption of native or traditional lifestyles or communities possible?	N - The local social structure or mores will not be significantly affected by the operation.
20. CULTURAL UNIQUENESS AND DIVERSITY: Will the action cause a shift in some unique quality of the area?	N - The local cultural uniqueness or diversity will not be significantly affected by the operation.

