

ENVIRONMENTAL ASSESSMENT

7/13/99

Project Name: Timberlake Site

Proposed Implementation Date: 8/1/99

Proponent: Larry Anderson

Type and Purpose of Action: The applicant proposes to mine, screen and haul 40,000 cubic yards of sand and gravel from a 2 acre site located 4 miles south of the town of Lakeside. There will be 2 acres mined and disturbed for facilities and stockpiles. The site is already being mined and will result in a pit that is level with the grade of White Boulevard. The pit will be reclaimed to homesites after grading the backslopes to at least a 3:1, replacing all topsoil, and re-seeding grasses. Reclamation would be completed by December of 2009.

Location: SE¼ SE¼ Section 5, T25N, R20W

County: Lake

N = Not present or No Impact will occur.

Y = Impacts may occur (explain under Potential Impacts).

IMPACTS ON THE PHYSICAL ENVIRONMENT	
RESOURCE	[Y/N] POTENTIAL IMPACTS AND MITIGATION MEASURES
<p>1. GEOLOGY AND SOIL QUALITY, STABILITY AND MOISTURE: Are fragile, compactible or unstable soils present? Are there unusual geologic features? Are there special reclamation considerations?</p>	<p>[N] Up to 16 inches of fairly well drained, gravelly silt loam overlies the glacial sands and gravels. Local terrace slopes demonstrate reasonably good stability, and ripping after activities are complete should alleviate soil compaction. All soil material will be salvaged and stockpiled away from the affected land. Following mining, grading and ripping, the soils will be replaced, disked and seeded to stabilize the soil and prevent erosion. The overburden has exhibited the ability to support vegetative growth. Microbes are expected to re-colonize the soil.</p>
<p>2. WATER QUALITY, QUANTITY AND DISTRIBUTION: Are important surface or groundwater resources present? Is there potential for violation of ambient water quality standards, drinking water maximum contaminant levels, or degradation of water quality?</p>	<p>[Y] There are no water wells in the area. Groundwater is anticipated to be much deeper than the floor of the finished mine area. The nearest surface water is Goose Bay, Flathead Lake located across Highway 93, ¼ mile to the southeast.</p> <p>Special precautions will be taken to minimize possible contamination of the ground and surface water. All bulk fuel and lubricants will be kept out of the site. Any accidental spills or leaks from equipment will be excavated and disposed of off-site. No waste or trash will be disposed of at the site. With these precautions, the quality and quantity of the surface and groundwater should not be adversely impacted.</p>
<p>3. AIR QUALITY: Will pollutants or particulate be produced? Is the project influenced by air quality regulations or zones (Class I airshed)?</p>	<p>[Y] Screens, dozers, loaders and trucking equipment typically cause dusty conditions in disturbed soil sites. Road watering and other dust controls will be used as necessary. The site is not located within a Class 1 airshed. Air quality may be degraded and there may be an increase in particulate matter but the operator must abide by air quality regulations in general.</p>
<p>4. VEGETATION COVERS, QUANTITY AND QUALITY: Will vegetative communities be permanently altered? Are any rare plants or cover types present?</p>	<p>[Y] Vegetation is currently forest with native pinegrass, kinnikinick and Douglas fir, pine and larch trees, which will be removed during mining. The slopes will be re-planted with species compatible with the proposed reclaimed use. All topsoil will be stripped off and kept on-site. There are no known rare or sensitive plants in the area. No mining will be done within 100 feet of any live stream, riparian or isolated wetland habitat areas. A literature search was done by the Montana National Heritage Program and no rare plants or cover types were identified and none were identified during a ground search.</p>
<p>5. TERRESTRIAL, AVIAN AND AQUATIC LIFE AND HABITATS: Is there substantial use of the area by important wildlife, birds or fish?</p>	<p>[N] Although the area is used primarily for forest and grazing, it also supports populations of deer, rodents, songbirds, waterfowl, insects and various other animal species. The mine site is frequented by those animals</p>

	and they may be displaced as the mine expands. Human use of the area has intensified in the past two decades with the increase in residential and commercial activity. The proposed mine is not expected to significantly degrade wildlife populations. The Natural Heritage Program literature search and site evaluations have not revealed any other endangered or threatened plant or animal species on site that would be significantly impacted.
6. UNIQUE, ENDANGERED, FRAGILE OR LIMITED ENVIRONMENTAL RESOURCES: Are any federally listed threatened or endangered species or identified habitat present? Any wetlands? Species of special concern?	[N] There are not expected to be any impacts on those species from the proposed mining operation.
7. HISTORICAL AND ARCHAEOLOGICAL SITES: Are any historical, archaeological or paleontological resources present?	[N] Although there are important cultural values in the general area, this site has been previously disturbed by modern man, thus destroying the integrity of resources that may have existed. A surface reconnaissance did not discover any cultural, historical or archeological resources. The operator must give appropriate protection to any values or artifacts discovered in the affected area. If significant resources are found, the operation may be routed around the site of discovery for a reasonable time until salvage or recordation can be conducted.
8. AESTHETICS: Is the project on a prominent topographic feature? Will it be visible from populated or scenic areas? Will there be excessive noise or light?	[Y] There may be a deterioration of aesthetics while the operation is under way. However, reclamation should leave the site in a landscape condition that is compatible with the surrounding area. There is and has been an alteration of the viewshed as a result of this existing gravel pit and other man made modifiers such as roads, ditches, homesites, power lines, etc. The site is visible by traffic along White Boulevard. Floodlights from dark period operations would increase visibility and awareness of the operation. Noise levels are generally within the range of 60 to 90 decibels measured on-site, decreasing with distance. As a comparison, sound levels for ordinary activities such as close conversation at 60 decibels and music from a radio at 70 decibels are considered to be moderate. Levels above 90 decibels are severe, and prolonged exposure can lead to hearing loss. These impacts are intermittent and of relatively short duration but are in addition to the noise created by the increased truck traffic hauling to various projects.
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 the project?	[N]
10. IMPACTS ON OTHER ENVIRONMENTAL RESOURCES: Are there other studies, plans or projects on this tract?	[N]

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?	[Y] Heavy equipment such as screens, trucks and loaders may create hazards, but the operator must comply with all MSHA and OSHA regulations. The operator must employ proper precautions to avoid accidents, especially during typical operating hours for school busses. This proposed operation is expected to create these impacts sporadically and for short periods; it therefore should not significantly affect human health.

12. INDUSTRIAL, COMMERCIAL AND AGRICULTURAL ACTIVITIES AND PRODUCTION: Will the project add to or alter these activities?	[Y] The acreage listed in the Type and purpose of Action will be taken out of forest and grazing and put into industrial/commercial use. Upon completion of mining, the land will be reclaimed to homesites.
13. QUANTITY AND DISTRIBUTION OF EMPLOYMENT: Will the project create, move or eliminate jobs? If so, estimated number.	[N]
14. LOCAL AND STATE TAX BASE AND TAX REVENUES: Will the project create or eliminate tax revenue?	[N]
15. DEMAND FOR GOVERNMENT SERVICES: Will substantial traffic be added to existing roads? Will other services (fire protection, police, schools, etc) be needed?	[Y] The operation will require periodic site evaluations by DEQ staff. However, these evaluations are usually performed in conjunction with other area operations.
16. LOCALLY ADOPTED ENVIRONMENTAL PLANS AND GOALS: Are there State, County, City, USFS, BLM, Tribal, etc. zoning or management plans in effect?	[N]
17. ACCESS TO AND QUALITY OF RECREATIONAL AND WILDERNESS ACTIVITIES: Are wilderness or recreational areas nearby or accessed through this tract? Is there recreational potential within the tract?	[N]
18. DENSITY AND DISTRIBUTION OF POPULATION AND HOUSING: Will the project add to the population and require additional housing?	[N]
19. SOCIAL STRUCTURES AND MORES: Is some disruption of native or traditional lifestyles or communities possible?	[N]
20. CULTURAL UNIQUENESS AND DIVERSITY: Will the action cause a shift in some unique quality of the area?	[N]
21. OTHER APPROPRIATE SOCIAL AND ECONOMIC CIRCUMSTANCES:	[N]

22. Alternatives Considered:

No Action: The pit would not be permitted at this location and the landowner would be deprived of further income from his land at this time. The existing pit is currently being operated without a permit and does not have the corresponding environmental controls that would accompany a permit.

Approval of Application as submitted: The pit would be permitted and be reclaimed as requested.

23. Public Involvement, Agencies, Groups or Individuals contacted:

State Historic Preservation Office, Montana Heritage Program, Lake County Planning Office.

24. Other Governmental Agencies with Jurisdiction, List of Permits Needed:

None.

25. Magnitude and Significance of Potential Impacts:

Impacts are unlikely to be significant on the general environment because of the size and location of the project, lack of threatened or endangered species or habitat and the short timeframes of the project.

26. Regulatory impact on private property: The analysis conducted in response to the Private Property Assessment Act indicates no impact since this Plan of Operations would not require "Special Stipulations" in order to comply with the Opencut Mining Act.

Recommendation for Further Environmental Analysis:

EIS More Detailed EA No Further Analysis

EA Prepared By: Rod Samdahl **Title:** Reclamation Specialist

Approved By: Jerry Burke **Title:** Supervisor, Opencut Program, IEMB

Signature

Date