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INSPECTION REPORT

INSPECTION DATE & TIME: 3-18-87
9:00 to 1:30

Permittee and/or Operators Name: Andalex Resources
 Business Address: P.O. Box 902 Price, Utah 84501
 Mine Name: Centennial Project Permit Number: ACT/007/019
 Type of Mining Activity: Underground Surface Other
 County: Carbon
 Company Official (s): Michael Glasson
 State Official(s): Holland Shepherd, Bill Malencik
 Partial: Complete: Date of Last Inspection: 2-4-87
 Weather Conditions: sunny, cool, slight runoff occurring on the site
 Acreage: Permitted 2360 Disturbed 31 Regraded 0 Seeded 0 Bonded 2360
 Enforcement Action: none

COMPLIANCE WITH PERMITS AND PERFORMANCE STANDARDS

	YES	NO	N/A	COMMENTS
1. PERMITS	(X)	()	()	(X)
2. SIGNS AND MARKERS	(X)	()	()	()
3. TOPSOIL	(X)	()	()	()
4. HYDROLOGIC BALANCE:				
a. STREAM CHANNEL DIVERSIONS	(X)	()	()	()
b. DIVERSIONS	(X)	()	()	()
c. SEDIMENT PONDS AND IMPOUNDMENTS	(X)	()	()	(X)
d. OTHER SEDIMENT CONTROL MEASURES	(X)	()	()	()
e. SURFACE AND GROUNDWATER MONITORING	(X)	()	()	(X)
f. EFFLUENT LIMITATIONS	(X)	()	()	(X)
5. EXPLOSIVES	()	()	(X)	()
6. DISPOSAL OF DEVELOPMENT WASTE AND SPOIL	()	()	(X)	()
7. COAL PROCESSING WASTE	()	()	(X)	()
8. NONCOAL WASTE	(X)	()	()	()
9. PROTECTION OF FISH, WILDLIFE AND RELATED ENVIRONMENTAL VALUES	(X)	()	()	()
10. SLIDES AND OTHER DAMAGE	()	()	(X)	()
11. CONTEMPORANEOUS RECLAMATION	()	()	(X)	()
12. BACKFILLING AND GRADING	()	()	(X)	()
13. REVEGETATION	(X)	()	()	(X)
14. SUBSIDENCE CONTROL	(X)	()	()	()
15. CESSATION OF OPERATIONS	()	()	(X)	()
16. ROADS				
a. CONSTRUCTION	(X)	()	()	()
b. DRAINAGE CONTROLS	(X)	()	()	()
c. SURFACING	(X)	()	()	()
d. MAINTENANCE	(X)	()	()	()
17. OTHER TRANSPORTATION FACILITIES	()	()	(X)	()
18. SUPPORT FACILITIES				
UTILITY INSTALLATIONS	(X)	()	()	()

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Technical Memo
ACT/007/019-87A
March 24, 1987

To date the operator contends that the bathhouse pad temporary topsoil area is required for bathhouse construction. Past proposals included paving the soil for storage and protection. This was not acceptable to the Division. The operator now maintains that the in-situ dike material is the same as the pad materials and request the use of this soil material as a substitute topsoil. The Division has determined that the one isolated sample represented a suitable substitute topsoil material. Further analysis is required to substantiate the extent of the suitable materials.

Based on the Inter-Mountain laboratory data (see attached) all soils tested have very favorable physical and chemical characteristics (excluding the four to seven foot depths) for plant growth media. All samples were nonsaline, as evidenced by the low electrical conductivity and they are nonsodic, as evidenced by very low Sodium Adsorption Ratio. The soil has a very favorable texture ranging from a sandy loam to loam. The soil also has a favorable saturation percentage. Available magnesium is extremely high for the five to six foot depth, and relatively high for the four to five and six to twelve foot depths. The Division postulates that the high available magnesium is associated to the snow collected from the road and pad surfaces. According to personal conversation with Holland Shepherd, Reclamation Officer, the snow is usually disposed of in sediment pond A. It is a common practice to salt the roads and pads with magnesium chloride. The high amount of available magnesium is considered favorable for vegetative growth. The magnesium calcium ratio is not a concern. The soil material below seven foot depth had the same available calcium as the upper soil material. Calcium along with the available magnesium increased in availability at the four to six foot depth.

When the submitted data is compared to Table 2, DOGM Guidelines for Management of Topsoil and Overburden, all parameters excluding pH fall in the "Good" rating. The pH data generally fall in the "Fair" rating. However, the guidelines are currently under review. On March 18, 1987 the Division received comments from Dr. Dave James, Professor Soil Science, Utah State University. One of the primary concerns was the pH limitations for a "good" rating. Dr. James proposed the pH criteria to be changed from 6.1 - 7.8 to 6.1- 8.2. If this change is adopted by the Division the substitute material would be rated as a "good" substitute soil material.

jvb
cc: L. Braxton
S. Linner
D. Darby
H. Shepherd
0534R-72

INSPECTION REPORT
(continuation sheet)

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PERMIT NUMBER: ACT/007/019

DATE OF INSPECTION 3-18-87

(Comments are Numbered to Correspond with Topics Listed Above)

13. Revegetation:

The operator has been requested to seed the shoulders of the haul road disturbed by road construction last fall. A copy of the recommended seed list was given to the operator during this inspection. An abbreviated seed list consisting of 6 species was given to the operator and a letter was later sent dated 3-20-87 discussing the area to be reseeded and the seed mixture to be used. The operator has been requested to have seeded the shoulders by the end of April 1987.

Inspectors Signature and Number: Holland Shepherd #9 Date: 4-3-87