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January 12, 1987

TO: File

FROM: James S. Leatherwood, Soils Specialist

RE: Toxicity Analysis of Excavated Sediment Pond Materials, Crandall Canyon Mine, Genwal Coal Company, ACT/015/032, Folder No. 2, Emery County, Utah

On July 15, 1986, the Division recommended several parameters to be used in determining the toxicity of the excavated sediment pond materials (as per approval of Abatement Plans for Notice of Violation N85-4-12-3, October 24, 1985). The requested information was submitted December 30, 1986. The presented information does not indicate any saline or acid producing problems. The Division determined the excavated sediment pond material is not an acid- or toxic-forming material. The waste material may be disposed in the Sinbad Landfill. Future disposal of the sediment pond waste materials must comply with Stipulation UMC 817.71-(1)-JRH.

BODY

The submitted data (see enclosed) shows that there is no salinity or acid production problems. The pH of 7.8 indicates a calcium soil environment. This is established with a neutralization potential of 16.3. The waste material total sulfur is 0.18 percent. This equates to an acid base potential (ABP) of 157, which is considerably higher than the ABP limitation of less than or equal to -5. The electrical conductivity (EC) of the waste in 2.51 mmhos/cm. Because th EC determination is less that the saline limitation of greater than or equal to 4 mmhos/cm, the waste material is not considered as a salinity problem.

jvb
cc: S. Linner
D. Lof
0060R-37

ACZ INC./LABORATORY DIVISION
SOIL ANALYSIS REPORT

Client: Genwal Coal Company
816 Castle Heights Avenue
Price, Utah 84501

Report Date: October 27, 1986
Date Received: October 8, 1986

Attn: Mr. Andy King

LAB NO.	SAMPLE I.D.	SAMPLE DATE	pH 1 (units)	Conductivity mmhos/cm @ 25 C	Neutralization Potential as % CaCO3	Total Sulfur %	Acid Base Potential Tons CaCO3/1000 Tons
86-1449-Soil	Bone Shale	Unknown	7.8	2.51	16.3	0.18	157

1 Saturated Paste Extraction

Ralph V. Poulsen

Ralph V. Poulsen, Director