

November 19, 1987

TO: Memo to File

FROM: James Leatherwood, Reclamation Soils Specialist 

RE: Sediment Pond Waste Analysis, November 16, 1987 Response, Centennial Project, Andalex Resources Inc., ACT/007/019, Folder No. 2, Carbon County, Utah

#### Abstract

Waste analysis from sediment pond B has been reviewed. The analysis did not include USDA texture, electrical conductivity, percent coal fines or the proper analysis for boron. This information must be determined before the waste material can be considered toxic or non-toxic forming.

#### Body

The Division has reviewed the waste analysis from sediment pond B. Data was not submitted for USDA texture, electrical conductivity or percent coal fines. This information should be quantified. Based on the submitted information the Division would define the sediment waste material to be toxic due to the excessively high boron level. However, the boron data was determined by total digestion. In accordance to the Topsoil and Overburden Guidelines, boron analysis should be determined by the accepted method outlined by the American Society of Agronomy, method 25-9.1 and 25-5 (hot water extract).

#### Recommendations

1) Sediment pond B waste material should have USDA texture, percent coal fines, electrical conductivity, and boron hot water extract analysis conducted. The sediment material will be determined toxic or non-toxic forming after this information has been reviewed by the Division.

2) In order to repair the sediment pond all waste material should be removed and temporarily stored, in a location such that

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all runoff reports to a sediment pond, until such time that the physio-chemical nature is known and a development waste disposal site is approved (refer to the Division's August 19, 1987 DOC for further requirements).

cc. D. Darby  
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