



# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt  
Governor

Ted Stewart  
Executive Director

James W. Carter  
Division Director

1594 West North Temple, Suite 1210

Box 145801

Salt Lake City, Utah 84114-5801

801-538-5340

801-359-3940 (Fax)

801-538-7223 (TDD)

## TECHNICAL FIELD VISIT

**Date :** April 2-3, 1997

**Mine:** Hiawatha Mine

**File Number:** ACT/007/001 #5

**DOGM Staff:** Robert Davidson

**Other Attendees:** Chris Hansen, EarthFax and K. C. Jones, U.S. Fuel Company

### Purpose:

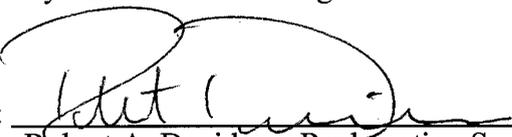
- Provide an adequate Soil Survey of disturbed soils within the lower facility areas for the purpose of locating any recoverable substitute soils and fills to help offset soil borrow needs.

### Observations:

- Surveyed lower and upper preparation plant area, and the upper railroad yard. The lower plant area is a small V-shaped wedge of disturbance that contains disturbed soils and fills. The upper preparation plant area contained both coal wastes and a undisturbed ridge located within the disturbance boundary. The upper railroad yard pad area contained undisturbed soil, fill and coal waste. In total, 9 pits were excavated with 7 pits logged, surveyed and sampled.
- Two pits, one located in the upper preparation plant area and the other located in the upper railroad yard, consisted solely of coal waste. In addition, all the excavated pits comprising soils and fills in the upper railroad yard contained approximately a foot of surface coal waste. This information suggests that coal waste is much more extensive than the current MRP indicates.
- Samples will be analyzed pH, EC, saturation %, texture, SAR, selenium, boron, acid/base potential, and rock fragment. The coal waste samples will be analyzed for acid/base potential, selenium and boron.

### Recommendations/Conclusions:

- Appropriate substitute soils were located in all three areas. The upper railroad yard contains the largest volume of soils and fills. The amounts of soils available for reclamation will be dependent on the final reclamation contours, disposal of the coal wastes and the chemical characteristics of the soils, fills and coal wastes.
- Coal waste is much more extensive than the current MRP indicates.
- The reclamation bond amount needs to be reviewed and possibly revised based on updated soil survey information locating additional coal wastes and substitute soils.

Signature:   
Robert A. Davidson, Reclamation Specialist III (Soils)

on April 7, 1997

cc: Susan White, DOGM  
Wayne Western, DOGM  
Mike Watson, U.S. Fuels  
Chris Hansen, EarthFax

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