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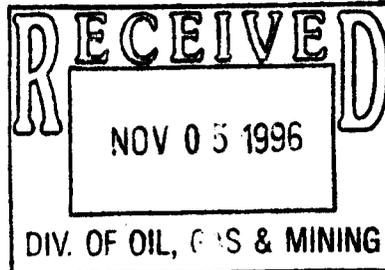
UNITED STATES
DEPARTMENT OF
AGRICULTURE

NATURAL RESOURCES
CONSERVATION
SERVICE

PRICE FIELD OFFICE
350 NORTH 400 EAST
PRICE, UTAH 84501

October 31, 1996

Vicky S. Bailey
EarthFax Engineering Inc.
7324 So. Union Park Ave. Ste 100
Midvale, Utah 84047



Dear Ms. Bailey:

At the request of Robert A. Davidson, Utah Division of Oil, Gas and Mining, and yourself I examined the soils in a small wetland in Jewkes Canyon and the surrounding soils of this area. There is a small area where the soils appear to meet the hydric criteria. A description of a soil profile from this area is included. The wetland area starts near where the small stream flows near the rock face and continues along the rock face and ends before the stream enters the culvert and goes under the road. This area is narrow, about 5 to 20 feet wide. Soils to the west are much dryer and contain high amounts of coal and other material from the historic mining activities in the area. The soils to the north have some redox concentrations but are non hydric because they lack the depleted matric colors required. The soils are also somewhat poorly drained with steeper slopes.

Three soils slices were brought to my office from this area. As I told you on the phone, slices 1 and 2 appeared to be from a hydric area, slice 3 did not. Slices 1 and 2 did not have enough depth to make a complete determination and it is always difficult to make hydric soil determinations with out being able to see the natural hydrology and setting of the area. Therefore the trip to the field was necessary.

If I can be of further assistance please let me know.

Leland D. Sasser

Leland D. Sasser
Soil Scientist

cc: Robert A. Davidson

ACT 007/020 #2

Horizon Mine

Date 10/23/96 Stop No.

Classification Co-ly mixed (calcareous) frigid Aeris Fluvaquentis

Location lower Jewkes Creek

veg. (or crop) sedges, rushes, blue grass, ^{perennate type} small aspen, willow Climate frigid

parent material Alluvium

hydrography Small stream channel

relief concave Drainage Poorly Soil or pitfall Very slight

horizon 5774' Gr. water Hole filled with water to near surface Drainage

mois 1-2% Moisture Wet

spec ESF Root distrib. Throughout % Clay 10-14%

position % Coarse fragments 10-15% % Coarser than V.F.S.

meability Moderate

ditional notes 33°F @ 20 in

| | | |
|--------------------------|---------------------------------------|-----------------------|
| Frozen to 1/2 in | Hole approx 50' South | EC |
| mottles | Very similar except lacked | A 0-2 1800 mic/cm 1.8 |
| 0-2 | (Cbl horizon and had more coal fines) | C 2-4" 2.5 |
| 2-4 7.5 yr 6/6 F1F+d | | Ab 1.7 |
| 4-13 7.5 yr 4/6 m 2+3 fr | | Cb1 .9 |
| 7.5 yr 5/8 | | Cb2 1.0 |

13-16 10 yr 4/2 c2d

10 yr 5/4 F1d+F

Augered below 16" to 27" stopped by large rock Control section average

16-25" multicolored material coal sand & gravel & brick f1f+d 7.5 yr 4/6

| Horizon | Depth in | Color | | Texture | Structure | Consistence | | | Reaction | Boundary | % clay | Rock Frag | Roots |
|----------------|------------------|-----------------------------|--|----------|-------------|-------------|-------|-----------------|------------------------|------------|---|-------------------|-----------------------|
| | | Dry | Moist | | | Dry | Moist | Wet | | | | | |
| A | 0-2 | | 10yr 4/2 60% 10yr 5/3 85% 10yr 6/4 5% | l Fsl | lfm | | vfr | ss p | 8.3 e meter 8.2 | clear wavy | 18% c 27% s 45% si | 1/4 2c 1c | 3vF 2F 2m 1c |
| C | 2-4 dips to S | | 10yr 5/4 85% 10yr 4/3 10% | Fsl | 2FsbK | | vfr | ssfs | 7.8 es 7.6 meter | cl w | 8% c 65% s 27% si | | 3vF 2F 2m 1c |
| Ab | 4-13 | | 10yr 3/1 40% 10yr 4/3 35% 10yr 5/2 15% | l Fsl | 1maf 5bK | | fr | ss/p 2c p | 8.0 e 7.5 meter | cl w | 15% c 55% s 8% c 27% sand 2% si | | 2vF 2F 2m |
| Cb1 | 13-16 | | 10yr 2.5/3 | lfs | sq | | lo | so po | 7.9 et 7.4 | | 4% c 80% sand 16% si | | 2vF 1F 1m |
| Cb2 | 16-25" | | 10yr 3/2 * 10yr 4/2 10yr 5/3 | 9 5L | m | | vfr | so/ps | 7.8 e 7.7 | | 10% c 75% s 15% si | 35% 9r fine | 2vF 1F 1m |
| Cb3 | 25-27" | | 10yr 4/1 10yr 4/2 | L | m | | vfr | ss p | 7.6 e | | 22% c 53% sand 35% si | 10% 9r | 2vF 1F 1m |
| | 27" | Hit large rock or bed rock? | | | | | | | | | | | |