



Ford Chemical LABORATORY, INC.

Bacteriological and Chemical Analysis

40 WEST LOUISE AVENUE
SALT LAKE CITY, UTAH 84115
PHONE 466-8761

RECEIVED

MAR 12 1982

MINING AND
EXPLORATION

3-11-82

Utah Power & Light Company
Mining & Exploration
P.O. Box 899
Salt Lake City, UT 84110

ATTN: C. E. Shingleton

Gentlemen:

The following analysis is on samples of soil received on 9-16-81.

SAMPLE: Wilberg rock disposal area.

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81-72

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DIVISION OF
OIL, GAS & MINING

North End South End

pH	7.90	8.25
E _{Ce} (mmhos/cm)	9.0	8.5
SAR	1.85	1.76
Sand	20%	20%
Silt	60%	65%
Clay	20%	15%
Sodium	110	95
Calcium	210	150
Magnesium	34	42

Sincerely,

Lyle S. Ford, President

LSF/am

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MAR 16 1982

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OIL, GAS & MINING

WILBERG WASTE ROCK DUMP SITE

SOIL DESCRIPTION

JOSEPH M. JARVIS

WILBERG WASTE ROCK DUMP SITE

SITE: Portions of E $\frac{1}{2}$ SE $\frac{1}{4}$ S. 34 and W $\frac{1}{2}$ SW $\frac{1}{4}$ S. 35 T. 17 S. R. 17 E. SLEB. 48.62 acres

PARENT MATERIAL: Alluvial outwash of Cretaceous sandstone and siltstone beds.

ASPECT: Southeast

SLOPE: 3%

ANNUAL PRECIPITATION: 12 inches

VEGETATION: Pinyon-Juniper Woodland

An open stunted type with a sparse shrub understory of Ephedra nevadensis, Cercocarpus montanus and Cowania mexicana.

LAND USE: Currently the site has a coal hauling road and is partially cleared of trees on about ten acres. Some deer winter use occurs here but the alluvial fan produces less browse than adjacent higher slopes.

PRODUCTIVITY: Low, 1,000 lbs/acre

SOIL: A young shallow alluvial derived soil, calcerous with a definite hardpan. Impervious layer influences plant growth so large rooted species pre-dominate in the vegetation composition.

SOIL DESCRIPTION:

- A₁ 0-3" Brown (10YR 5/3,moist) silt loam; gravelly with scattered rocks; granular, soft, loose, slightly sticky, slightly plastic; moderately calcerous, PH 8.2; few small and medium roots; boundary gradual.
- A₂ 3-18" Pale brown (10YR 6/3,moist) loam, gravelly with scattered rocks; small angular blocky, friable, slightly sticky, slightly plastic; moderately calcerous; common small and medium roots, some large relic roots; some clay buildup at 14", cobble bed at 18-20"
- C_{ca} 20"- Light brownish gray (10YR 6/2,moist) caliche,rocky; massive, very hard, strongly calcerous; few medium roots; a cemented caliche layer.
- C Depth varies but consists mainly of bedded cobbles and rocks.