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**KAISER
STEEL**

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**DIVISION OF OIL
GAS & MINING**

October 22, 1984

*ACT/007/007
#3*

Steve Cox
DOGM
4241 State Office Building
Salt Lake City, Utah 84114

Certified # P 505-449-925

re: Grassy Trail Creek Dam Borrow Area; Sunnyside Mines, ACT 007/007 #3,
Carbon County, Utah

Dear Mr. Cox:

The methods for analysis of the Grassy Trail Creek Dam borrow material are the same as those reported in the permit from the Colorado State University Soil Testing Laboratory. Those, and the methods for parameters not always tested for are included on the attached Table.

Thank you.

Sincerely,

Marcia H. Wolfe

Marcia Hamann Wolfe
Reclamation Engineer

Enclosure



Methods of soil analysis used on Grassy Trail Creek Dam Borrow Materials

Parameter	Citation of Method
pH and salts	Hergert, G.W. 1971. Soil testing methods. CSU Soil Testing Laboratory, Colorado State University, Fort Collins, CO.
% OM	Allison, L.E. 1965. Organic carbon, pp 1372-1375. In: Black, C.A. (ed). Methods of soil analysis. Am. Soc. of Agronomy No, 9. Madison, WI.
P, K, NO ₃ -N, Zn, Fe, Cu, Mn	Soltanpour, P.N. and A.P. Schwab. 1977. A new test for simultaneous extraction of macro and micronutrients in alkaline soil. Co.,/ om Soil Science and Plant Anal. Fort Collins, CO.
Lime	Colorado State University Soil Testing Laboratory. Undated. Lime test. Fort Collins, CO.
SAR, Mg, Na	Richards, L.A. et al 1969. Diagnosis and improvement of saline and alkaline soils. USDA Handbook No. 60. Washington D.C.
Texture	Day, P.R . 1965. Particle fractionation and partical size analysis. pp. 562-566. In: Black, C.A. (ed). Methods of soil analysis. Agonomy No. 9. Madison, WI.
Al	Exchangeable. Method 16-3.2.2. Ibid.
Mo, Se, As, Pb	Total H.F. digest. Methods 3-5. Ibid.
