

0016

COAL SYSTEMS, Inc.

CONSULTANTS/ENGINEERS

P.O. BOX 17117
SALT LAKE CITY, UTAH 84117

May 19, 1986

file ACT/015/002 #13
cc: Kathy M
J. Leatherwood
D. Duce

L. G. MANWARING, P.E.
President

Area Code 801
261-4500

RECEIVED
MAY 20 1986

DIVISION OF
OIL, GAS & MINING

Mr. Daniel H. Duce
Reclamation Soils Specialist
DIVISION OF OIL, GAS, & MINING
3 Triad Center, Suite 350
Salt Lake City, Ut. 84180-1203

Re: J. B. King Mine
-Fertilizer Types/Rates

Dear Mr. Duce:

Attached is analytical report with fertilizer recommendations from Native Plants.

As mentioned, the actual application at the J. B. King Mine-site, was as follows:

	lbs/Acre
Urea (45-0-0)	150
Double Superphosphate (0-45-0)	50
Total	200

Total Acreage - 32; (6400 lbs. fertilizer)

In order to clear up the confusion created by the memo 1/13/86 from B. Howell to E. Hooper, please cross out Item 2 under "Fertilizing"; Item 1 was the mix used.

Sincerely,

COAL SYSTEMS, Inc.

L. G. Manwaring
L. G. Manwaring, P.E.
President

LGM/bm

Attachment

~~cc:~~ K. Mutz, DOGM

FILE COPY



Coal Systems, Inc.
September 11, 1985

NPI Soil Testing/Plant Tissue Analysis
Laboratory
417 Wakara Way
Salt Lake City, UT 84108
(801) 582-0144, Ext. 371, Von Isaman

Name	pH	EC mmhos/cm	NO ₃ -N ppm	P ppm	K ppm
Perm. Sed. Pond Area D 1 sample	7.76	0.90	14	1.2	112
Portal/Borrow Area A Comb. 4 samples	7.93	6.66	22	0.9	58
Testplot Area B Comb. 4 samples	7.99	4.73	24	0.9	132
Topsoil Plie/Sed. Pond Area C Comb. 4 samples	7.95	2.64	6	0.9	113

Nutrient rating: (N) Nitrogen, 2 to 8/8, (P) Phosphorus, 1/3, (K) Potassium 1-2/2.

*Applied Fertilizer Rate: *urea 144 lbs (65 lbs N)/acre = 2.88 or 3 bags, *Tsuper 19 lbs (40 lbs P₂O₅)/acre = 1 bag/Acre

Fertilizer recommendation: Nitrogen, 65 lbs/acre total N; Phosphorus, 40 lbs/acre P₂O₅ or 17 lbs/acre Phosphorus; Potassium, No additional K required.

For samples: Portal/Borrow Area A and Test Plot Area B salts are somewhat high and salt sensitive species may be affected.

Fertilizer types: Ammonium phosphate sulfate 16-20-0
Diammonium phosphate 18-46-0
Urea - 45-0-0 plus a phosphate fertilizer i.e. ordinary (9% phos.) or double or triple (45% P₂O₅ or 19% P) superphosphate

*Based on 50lb bags

Fertilizer recommendation includes the nutrient requirement for one and one half (1½) tons of mulch. (Straw; dry land, no irrigation, grass; 15 lbs/Acre Nitrogen)

NPI derives its fertilization recommendations based on analytical results of the test(s) performed and research experience. Soil nutritional requirements are based on the publication: Guide to Fertilizer Recommendations in Colorado 1985. Colorado State University. Dr. P.N. Soltanpour.