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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

355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203  
801-538-5340  
801-359-3940 (Fax)  
801-538-5319 (TDD)

January 3, 1994

Mr. Robert Hagen, Director  
Office of Surface Mining  
Reclamation and Enforcement  
505 Marquette N.W., Suite 1200  
Albuquerque, New Mexico 87102

Re: Water Monitoring Update, Sunnyside Coal Company, Sunnyside Mine,  
ACT/007/007-93D, Folder #2, Carbon County, Utah

Dear Mr. Hagen:

Enclosed please find updated information for the Sunnyside Mine plan,  
Revised Table III-23 (2 of 4) and Table III-23 (4 of 4). This amendment was  
approved June 14, 1993.

Sincerely,

A handwritten signature in cursive script, reading "Pamela Grubaugh-Littig".

Pamela Grubaugh-Littig  
Permit Supervisor

pgl  
Enclosure  
cc/enc: Bill Malencik, PFO





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June 14, 1993

Mr. Joe Fielder, General Manager  
Sunnyside Coal Company  
P.O. Box 99  
Sunnyside, Utah 84539

Dear Mr. Fielder:

Re: Water Monitoring Update, Sunnyside Coal Company, Sunnyside Mine,  
ACT/007/007-93D, Folder #3, Carbon County, Utah

The above-noted amendment updated June 10, 1993 is approved. Please submit seven copies of this amendment with the pages noted for insertion into the plan by June 30, 1993.

Sincerely,

  
Pamela Grubaugh-Littig  
Permit Supervisor





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June 11, 1993

TO: Pamela Grubaugh-Littig, Permit Supervisor ✓  
FROM: Ken Wyatt, Senior Reclamation Hydrologist KW  
RE: Water Monitoring Plan Review, Sunnyside Coal Company, Sunnyside Mine, ACT/007/007, Folder #2, Carbon County, Utah

SYNOPSIS

On April 7, 1993, Sunnyside Coal Company submitted a revised Table III-23, proposing operational water quality parameters that are included in their monitoring program. A May 20, 1993 memo listed several deficiencies that needed to be addressed prior to approval. A second submittal was received by the Division on June 10, 1993. This memo will review this submittal.

ANALYSIS

The submittal included revised table III-23 (2 of 4) and table III-23 (4 of 4). The original April 7, 1993 submittal was deficient in that Acidity was left off of the surface water monitoring list. Also both total and dissolved forms of Iron and Manganese were not included.

The June 10, 1993 submittal included Acidity in the surface water parameter list. Both total and dissolved forms of Iron and Manganese were included in the table. The operator did state that acid soluble metals analysis would be conducted on UPDES discharge points as per their UPDES permit.

RECOMMENDATION

I recommend that the submittal be approved and incorporated into the mining permit.



# Sunnyside Coal Company

Operations • Highway 123 • P.O. Box 99 • Sunnyside, Utah 84539

June 8, 1993

Ms. Pamela Grubaugh-Littig  
Division of Oil, Gas & Mining  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203

RECEIVED

JUN 10 1993

DIVISION OF  
OIL, GAS & MINING

Dear Pam:

Re: Water Monitoring Plan, Sunnyside Mine, ACT/007/007-D, #2  
Folder #2, Carbon County, Utah

As was recommended by Mr. Kent Wyatt in his letter of May 20, 1993, to you, I have made the necessary changes on both the Operational Surface Water Quality Monitoring Parameter List and the Ground Water Operational Water Quality Parameter List to correct the deficiencies noted.

Acidity is now included in the Surface Water Monitoring Program.

Total and dissolved iron and total and dissolved manganese are also included on both lists.

Acid soluble iron is included in the Operational Surface Water Quality Monitoring Parameter List for UPDES Discharge Points only, as required by UPDES Permit Number UT 0022942.

I hope that these changes are adequate to correct the deficiencies. Thank you.

Sincerely,



Peter Hess  
Environmental Coordinator

PH:ka

Enclosures

cc: Gary Gray

**Corporate Offices**  
The Registry  
1113 Spruce Street  
Boulder, CO 80302  
303-938-1506  
FAX: 303-938-5050

**Operations**  
Highway 123  
P.O. Box 99  
Sunnyside, UT 84539  
801-888-4421  
FAX: 801-888-2581

OPERATIONAL  
SURFACE WATER QUALITY  
MONITORING PARAMETER LIST  
(SO)

Field Measurements:

Water Levels or Flow  
pH  
Specific Conductivity (umhos/cm)  
Temperature (C°)  
Dissolved Oxygen (ppm)

Laboratory Measurements: (mg/l)

Total Settleable Solids  
Total Suspended Solids  
Total Dissolved Solids  
Total Hardness (as CaCO<sub>3</sub>)  
Carbonate (CO<sub>3</sub><sup>-2</sup>)  
Bicarbonate (HCO<sub>3</sub><sup>-</sup>)  
Calcium (Ca)  
Chloride (Cl<sup>-</sup>)  
Iron (Fe) (total and dissolved) (Also Acid Soluble Fe for  
UPDES Discharge Points)  
Magnesium (Mg)  
Manganese (Mn) (total and dissolved)  
Potassium (K)  
Sodium (Na)  
Sulfate (SO<sub>4</sub><sup>-2</sup>)  
Oil and Grease  
Cation-Anion Balance  
Acidity

\* All Metals Will Be Total

GROUND WATER OPERATIONAL  
WATER QUALITY PARAMETER LIST  
(GWO)

Field Measurements:

Water Levels or Flow

pH

Specific Conductivity (umhos/cm)

Temperature

Laboratory Measurements: (mg/l)

Total Dissolved Solids

Total Hardness (as CaCO<sub>3</sub>)

Carbonate (CO<sub>3</sub><sup>-2</sup>)

Bicarbonate (HCO<sub>3</sub><sup>-</sup>)

Calcium (Ca)

Chloride (Cl<sup>-</sup>)

Iron (Fe) (total and dissolved)

Magnesium (Mg)

Manganese (Mn)

Potassium (K)

Sodium (Na)

Sulfate (SO<sub>4</sub><sup>-2</sup>)