0051

file

STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

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May 4, 1988

TO: John Whitehead, Permit Supervisor

FROM: James R. Fricke, Reclamation Hydrologist JRF

RE: Annual Report (1987) Review, Kaiser Coal Corporation, Sunnyside Mine, ACT/007/007, Folder #6, Carbon County, Utah

Synopsis

The operator submitted the 1987 Sunnyside Annual Report on April 4, 1988. The report contains an updated mine sequence map, climatological data, a subsidence monitoring report, vegetation data and the permit stipulation status. However, the Summarized Water Monitoring Data section is not complete. The operator has provided the water monitoring data on a diskette; the Division should commend the Sunnyside staff for cooperating on data format requests. The disk will be kept on file in the co-lead's office.

Analysis

Attached are the results of the water monitoring data review. Generally, flow data has not been provided. The Annual Report data sheets note that flow has not been calculated for the water monitoring stations. Dissolved oxygen has not been provided for any of the required stations. Monthly field parameters have not been completely provided for most stations (see attached table). Sulfate, Oil and Grease, Iron, and cation-anion balance have not been provided (see attached table for stations).

Recommendations

The operator must provide the incomplete data. If records (field notes) are available for the flow calculations and if water quality analysis are available for the noted parameters, please provide. If the operator cannot provide the requested data, the Division should initiate the proper enforcement action.

djh
Attachment(s)
cc: W. Malencik
0798R/72

X

5/3/88 Kaiser/Sunnyside Annual Report Review

Key

✓ Data Complete
X Incomplete Monthly Field Data
⊗ Incomplete Monthly Flow Data

• Dissolved Oxygen Incomplete – Permit requirement
▲ asterisk on data form – no explanation
■ Inaccurate flow or water level

Station I.D.	Monthly Mon. Field Param.	1/4 ly Full Water Qual. (Perennial)	Monthly Mon Full Suite (Ephemeral)
Perennial	J F M A M J J A S O N D		
GT-1	X X X ⊗ X ⊗ X X X		⊗ Operator should amend plan.
GT-2	X X X ⊗ X ⊗ X X X		
GT-3	X X X ⊗ X ⊗ X X X		
GT-4	X X X ⊗ X ⊗ X X X		
CRB	⊗ ⊗ ⊗ ⊗ ⊗ ⊗ ⊗ ⊗ ⊗ ⊗		
CRS	⊗ ⊗ ⊗ ⊗ ⊗ ⊗ X	Should have samp. Iron-according to Amendment – Didn't receive analysis for 1 mo. had sampled at CRB again.	
ICE-1	X X ⊗ ⊗ X ⊗ X X ⊗		
Ephemeral			
WC-1	X X		Missing 3rd ⊗ 4th quart Oil & Grease
BC-1	✓ ✓		
POC-1	Dry →		

Operational

NPDES - Parameters

	Monthly Monitoring												1/4ly Water Qual.
		J	F	M	A	M	J	J	A	S	O	N	D	
014 005 013 006 011 007 012 008 001 009 003 010	Dry →													
002		X		X							X	X	X	* Missing Sulfate for Sep & Oct.
004								X	X		X	X	X	* C-A balance not calc for Jul, Sep, Oct.
								Slow Flow unable to determine ?						

Ground-Water Operational Schedule

In-Mine ⊛ boreholes	J	F	M	A	M	J	J	A	S	O	N	D	
								⊗			⊗		
Marshaft													
Twins hatt						■		⊗			⊗		
18th Left Inside #1 Mine								⊗			⊗		
19th Left Inside #1 Mine					Missing 3rd Quarter Data area was flooded in August - what about Jul + Sep. -								
Marshaft Dips Sump								⊗			⊗		
Pole Canyon Shaft						⊗		◢			◢		Missing Cond & Iron
15th Right Sump								◢			◢		Missing Iron
No. 1 Slope Sump				✓			✓		✓		✓		Missing pH, Cond Iron
12th Right - #2 mine						■			⊗		⊗		
No. 3 Slope Sump								⊗			⊗		
Water Canyon Sump								⊗			⊗		

Monthly Monitoring

		J F M A M J J A S O N D
Operational	PAC-1	Dry →
	N2 C-1	✓
	springs	
	WR-1	✓
	WR-2	✓
Ground-water Baseline	PC-1	Flow recorded as 2-3 gpm - is this an estimate?
	Wells	
	86-1	Missing 1/4 of data
	86-2	missing 1/4 of data
NPDES	NPDES	
	015	X Missing Flow for Jan.