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KAISER COAL CORPORATION
102 SOUTH TEJON STREET, SUITE 800 ■ P.O. BOX 2679
COLORADO SPRINGS, COLORADO 80901-2679
(303) 475-7005 ■ TELEX 289 909



DIVISION OF
OIL, GAS & MINING

August 15, 1986

Mr. John Whitehead
Permit Supervisor
Utah Division of Oil, Gas and Mining
3 Triad Center, Suite 350
Salt Lake City, UT 84180-1203

RE: Hydrologic Monitoring

Dear Mr. Whitehead:

The purpose of this letter is to affirm the agreements to modifications in the proposed hydrologic monitoring plan for the Sunnyside No. 5 area that were made during a July 23, 1986 meeting with you and Mr. Rick Smith of your staff. The other attendees besides myself were Brian W. Buck, Robert J. Bayer, Karla Knoop, and Thomas Suchoski of JBR Consultants Group.

The proposed hydrologic monitoring plan was submitted to your office on July 3, 1986. This plan proposed monitoring eight springs and seven streams and surface drainages. As a result of our meeting on July 23rd, the following springs have been accepted by both the Utah Division of Oil, Gas and Mining (UDOGM) and Kaiser Coal as monitoring sites for the baseline component of the Sunnyside No. 5 permit application package (PAP):

- | | |
|------|-------|
| S-1 | S-57 |
| S-7 | S-62 |
| S-10 | S-144 |
| S-16 | S-145 |
| S-22 | S-168 |
| S-30 | S-172 |
| S-39 | S-190 |
| S-40 | S-208 |

The surface water monitoring points are located at the following locations:

The mouth of A Canyon (ephemeral drainage);

The mouth of the right fork of B Canyon (ephemeral drainage);

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The mouth of the left fork of B Canyon (ephemeral drainage);

The mouth of Bear Canyon (ephemeral drainage);

The upper end of the left fork of Bear Canyon (intermittent drainage);

The mouth of Rock Canyon (intermittent drainage);
and

Grassy Trail Creek in Whitmore Canyon near the downstream permit boundary.

It was agreed that the intermittent streams should be sampled monthly for quality during the first year of baseline monitoring. It was also agreed that oil and grease and total hardness analyses would be performed in the field for the Grassy Trail Creek site.

Additional analyses agreed to for the seep and spring samples were molybdenum and bicarbonate determination.

It is understood that a total of eight samples from each monitoring point are needed to complete the two year baseline sampling requirement.

It was agreed that if, due to access and terrain problems at individual sample sites, the safety of the sampler was determined by JBR to be in jeopardy, the Division, Kaiser, and its consultants would work together to select an alternate sampling site or reach an agreement to eliminate the site.

During this meeting and a subsequent telephone conversation between Mr. Buck of JBR and Mr. Jim Fricke of the Division it was agreed that the question over field measurement of pH and conductivity would be resolved in the following way:

- (1) Conductivity measurements would be taken by the sampler upon return to the field vehicle from samples collected at each location;
- (2) pH measurements would be made in the same manner as described for conductivity measurements. In addition, a pH measurement will be taken at each sampling site during the first or second sampling episode. The two measurements will then be compared and if no significant difference is encountered,

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measurements would continue to be taken in the manner used for conductivity. If significant changes in pH that are the result of sample transportation and related agitating and heating are encountered, the measurement procedure will be altered and pH measurements will be made at the sampling site for the remainder of the baseline program.

We have taken under consideration the suggestion by Mr. Smith that the numbering system in use for the inventoried seeps and springs be modified. The PAP for Sunnyside No. 5 has just been submitted and time did not allow for such a major change prior to its submission. We or JBR would be happy to answer any questions that your staff might have if there is confusion over the current numbering system.

This letter conveys the understanding that Kaiser Coal personnel have of our July 23, 1986 meeting with UDOGM personnel. If you have any questions or comments about this letter, please feel free to contact me. Kaiser welcomes any comments regarding the contents of this confirmation letter. If we have misunderstood any aspects of the July 23rd meeting, please let me know within two (2) weeks of your receipt of this letter. Otherwise, we will assume that both Kaiser Coal and UDOGM are in agreement as to the information exchanged and agreements reached at these meetings.

Thank you again for your time. It is a pleasure working with the UDOGM staff, and we look forward to a continued productive working relationship.

Sincerely,



Martin P. Holmes
Manager of Permits and
Regulatory Compliance

MPH/klk

cc: Brian Buck - JBR
Conrad Parrish - ACZ