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cc. T. Munson
H. Sandbeck

0014

CONSULTANTS GROUP

GEOLOGY ENGINEERING ENVIRONMENT HYDROLOGY

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DIVISION OF OIL
GAS & MINING

September 9, 1987

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

RE: Hidden Valley
Maintenance

Dear John;

Myself, Joseph M. Jarvis and Tom Suchoski of JBR Consultants Group with Tom Munson and Harold Sandbeck of your office toured the Hidden Valley reclamation site on Sept. 3rd to assess the damages from summer thunderstorm events. From our discussions, notes and measurements onsite we have compiled a list of items that will require repairs to maintain the erosion control devices and vegetative cover in the reclaimed area. The list is not a complete detail of all the materials and labor required but a summary of the actions to be undertaken by CalMat to maintain the Hidden Valley reclamation site.

Access Road

1. Install a waterbar between waterbars #1 and #2 near the top of the road to catch the flow from a small drainage and direct the flow across the road into the natural channel adjacent to the road. Currently the flows are channeled along the roadbed to a lower waterbar causing unnecessary erosion in the road.

2. Stabilize the outfall on eight (8) waterbars by placing large coarse rock at each outfall for energy dissipation.

3. The next to last waterbar on the lower portion of the road will be redone to maintain the integrity of the structure.

4. Construct an additional waterbar at the bottom curve in the road to channel all flows originating along the roadcut slopes away from the A Seam fill to the basin on the B Seam bench. This will eliminate some flows over fill slopes.

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A Seam

1. Extend silt fence along toe of slope 12 feet to the north to catch all flows off the slopes. Repair this fence as necessary to keep fabric tight on posts and stop leaks.

2. Approximately 150 feet of silt fence on the curve and on the sed pond fence will be extended 2 feet to clear the sediment buildup against the original material. The technique to attach the fabric will be same as used on the original fences reconstructed in April.

3. A rock berm will be constructed on the terrace where the new gully has formed. Rocks will also be placed in the upper channel on the fill slope to dissipate flows.

B Seam

1. The west silt fence will be repaired, strengthened and excess sediments removed. The north end of the fence will be extended to the large rock to capture all sediments coming off the fill slope.

2. The small rills on the fill slope will be dammed with rocks to dissipate flows.

3. The proposed conceptual design for the reconstruction of the stream channel through the reclaimed pad area will consist of:

a) construction of an impact basin at the transition of the upstream natural channel and the upper end of the restored channel;

b) installation of two to three rectangular drop structures depending on the slope and flow velocity within the reconstructed channel. The drop structures will be constructed using the large diameter rock which was previously placed along the upper side slopes of Ivie Creek channel;

c) below each drop structure, an impact basin will be constructed, also using the large diameter rock placed along the upper side slopes of the channel; and

d) the channel between the stilling basin and drop structures will be lined with riprap suitable for the velocity in the channel. Based on preliminary calculations, it is envisioned that the existing mixture of natural soil, filter blanket and riprap material will be a sufficient base and will not require additional filter blanket material.

We appreciate the assistance provided by yourself, Tom Munson and Harold Sandbeck to expedite this maintenance work. The expertise of Tom Munson and Harold Sandbeck was most helpful in resolving the several problems associated with this project. The schedule is to begin work sometime in late October and complete the maintenance work by early November.

Sincerely,

Joseph M. Jarvis

Joseph M. Jarvis for

John W. Rains, CalMat