



COLORADO

Division of Reclamation,
Mining and Safety

Department of Natural Resources

1313 Sherman Street, Room 215
Denver, CO 80203

Interoffice Memorandum

August 2, 2016

From: Leigh Simmons
To: File

**Subject: King Coal Mine, TR-26
Proposed alternate groundwater monitoring locations**

I reviewed an email sent to the Division by Tom Bird of GCC, on July 25, 2016, proposing alternate locations for clusters of groundwater monitoring wells which are to be installed with TR-26. Primarily, GCC propose shifting the location of the MW-4 cluster approximately 0.62 miles to the south-west from the originally agreed location, as shown in figure 1.

The proposed alternate location appears to be less ideal than the originally agreed location for the MW-4 cluster, since it is a greater distance from the mine workings, therefore the impacts to the groundwater system are likely to be somewhat attenuated.

The Division acknowledges the difficulties the GCC has had in securing landowner agreement for the construction of monitoring wells and the continued access needed to monitor them. The new location is agreeable to landowners; and is downgradient of the workings, and sufficiently close that it is reasonable to expect to be able to observe the impact of the mine workings. The Division accepts the proposed alternate location.

GCC also noted that the proposed location for the MW-3 cluster had been shifted from the east side of the county road to the west side, again in deference to landowner requirements. This does not appear to be significant.

Finally, GCC reported that a location for an upgradient alluvial monitoring well in Hay Gulch had been agreed with the landowner – this is approximately in the same location marked as “Alluvial AW-3” on the map submitted with TR-26 (King II-012, Ground & Surface Water Monitoring), and is acceptable to the Division.



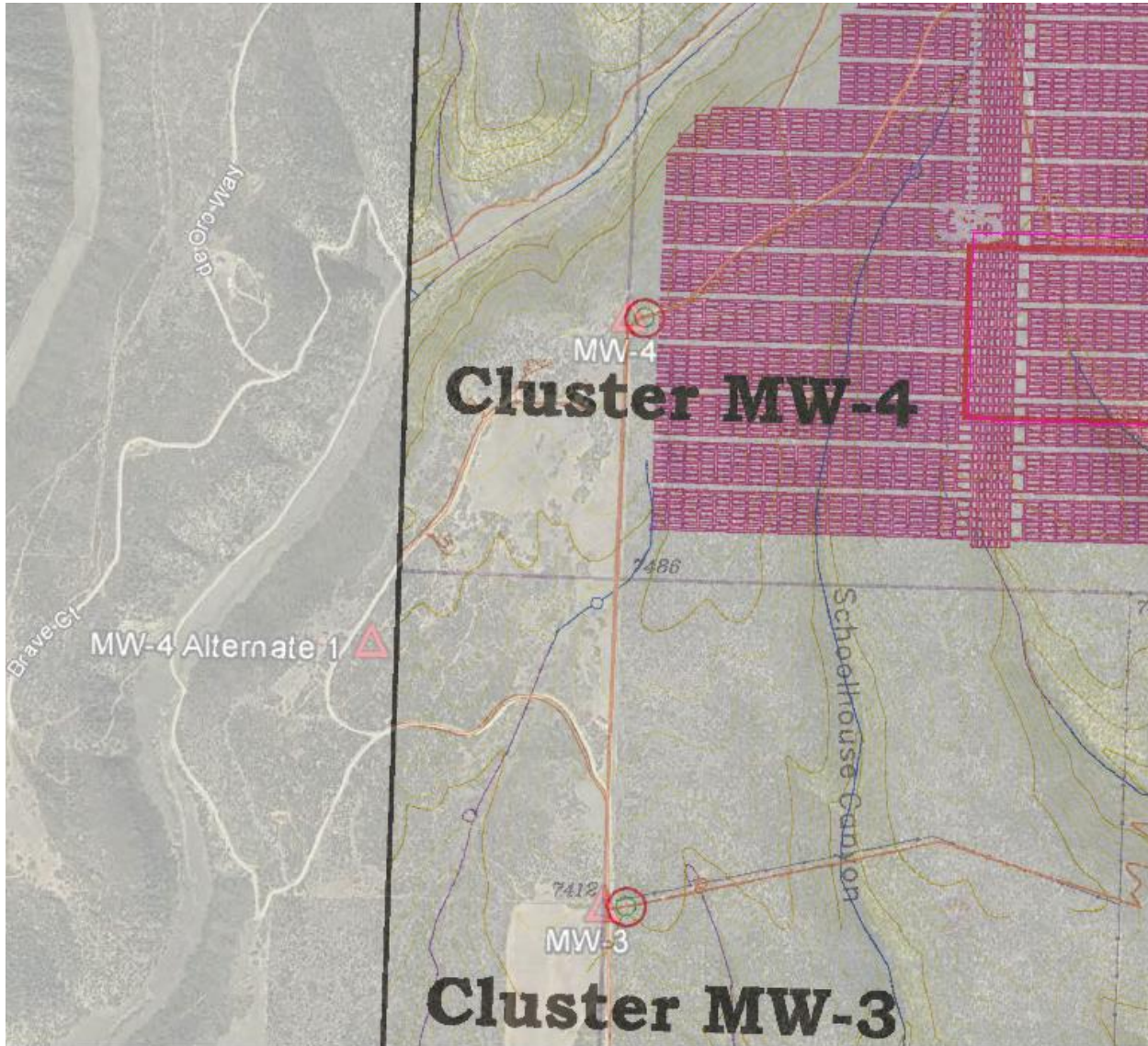


Figure 1: A screengrab from ArcMap showing the proposed alternate location for MW-4 overlain on the map submitted with TR-26 (King II-012, Ground & Surface Water Monitoring)

cc. Jim Stark, Rob Zuber (DRMS)
Tom Bird, Trent Peterson (GCC)
Landon Beck (Resource Hydrogeologic)

