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# WATER QUALITY MEMORANDUM

Utah Coal Regulatory Program

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October 21, 2013

TO: Internal File

THRU: Steve Christensen, Permit Supervisor *SC*

FROM: Ken Hoffman, Hydrologist *KH*

RE: Second Quarter of 2013 Water Monitoring, Savage Services Corporation, Savage Coal Terminal, C/007/0022, Task #4352

The Savage Coal Terminal is an operating coal loadout where coal is crushed, screened, blended, and then loaded onto rail transport. Pertinent water monitoring requirement information is in the MRP in Section 731.200.

1. Was data submitted for all of the MRP required sites? YES  NO

## Springs

*The Permittee is not required to monitor any springs at the Savage Coal Terminal. There are no springs to monitor at the Savage coal terminal site.*

## Streams

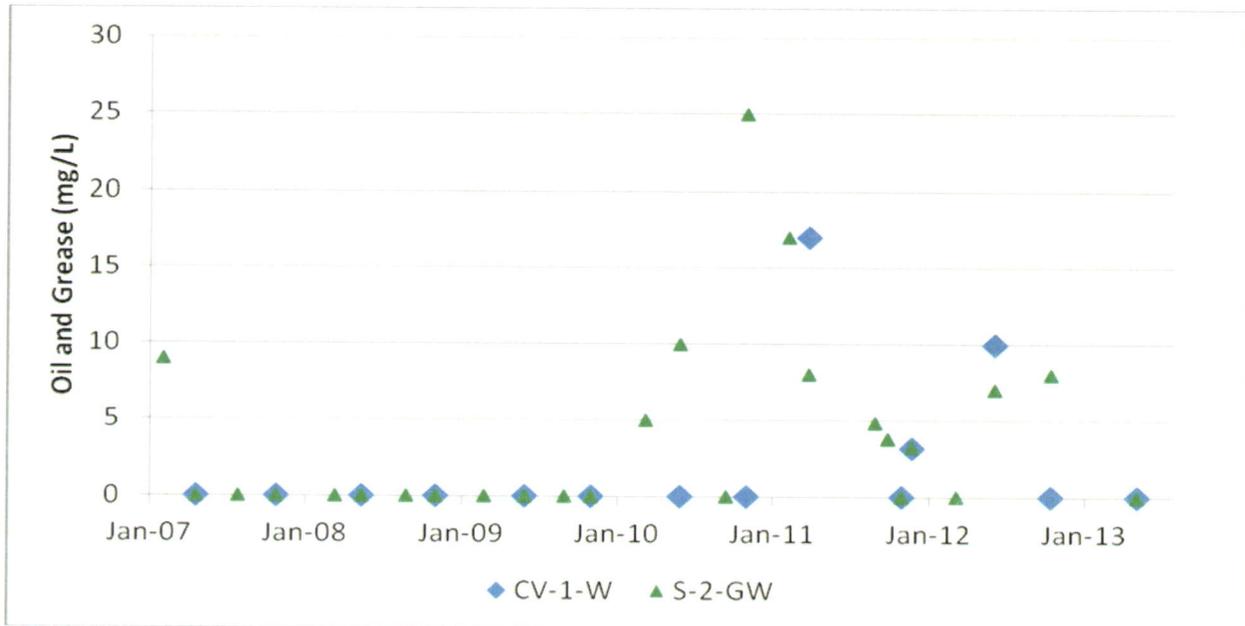
*Surface water site CV-14-W is required to be monitored during the 2<sup>nd</sup> and 4<sup>th</sup> quarters of each year.*

No flow was present during the monitoring of CV-14-W on May 20, 2013.

## Wells

*There are four groundwater monitoring wells at the site: S-1-GW, S-2-GW, S-3-GW and CV-1-W. Wells S-1-GW, S-2-GW and CV-1-W will be monitored bi-annually during the 2<sup>nd</sup> and 4<sup>th</sup> quarters of each year. Monitoring well S-3-GW was installed during summer 2012. S-3-GW will be monitored quarterly for a period of two years, then bi-annual thereafter.*

Monitoring wells CV-1-W, S-1-GW, S-2-GW, and S-3-GW were monitored during the second quarter on May 20, 2013. No oil and grease was detected. Included is a graph of the oil and grease detections at wells S-2-GW and CV-1-W since 2007.



**UPDES**

There is one active UPDES outfall at the Savage Coal Terminal, CV-15-W, or UTG040005-001. The Permittee is required to monitor this UPDES site monthly under Permit # UTG040005 that is due to expire on April 13, 2013. No flow was detected at UPDES Discharge No. 001 during the second quarter of 2013.

2. **Were all required parameters reported for each site?** YES [X] NO [ ]

3. **Were any irregularities found in the data?** YES [ ] NO [X]

4. **On what date does the MRP require a five-year re-sampling of baseline water data.**

The next scheduled baseline sampling is fourth quarter of 2013.

5. **Based on your review, what further actions, if any, do you recommend?**

Continue to monitor groundwater levels in S-3-GW to determine if there is a seasonal response in the water table.