

WATER QUALITY MEMORANDUM

Utah Coal Regulatory Program

June 24, 2014

TO: Internal File

THRU: Daron Haddock, Coal Program Manager

FROM: Steve Christensen, Environmental Scientist 

RE: 2013 Fourth Quarter Water Monitoring (WQ13-4), Nevada Electric Investment Corporation, Wellington Preparation Plant, C/007/0012, Task ID #4487

The Wellington Preparation Plant is currently in temporary cessation. Active coal mining or reclamation operations are not occurring. However; trans-loading of oil is currently being conducted at the site by Price River Terminal, LLC (the Permittee). Water-monitoring requirements are in Sections 7.23 and 7.31.2 through 7.31.22, and Tables 7.24-2 and 7.24-5 of the MRP.

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

Baseline parameters are collected in the year preceding permit renewal. The next scheduled permit renewal for the Wellington Preparation Plant is November 30, 2014. Historically, baseline sampling has occurred during the 1st quarter of the permit renewal year. However; the Division and the Permittee have discussed that a data obtained during late 2nd quarter or 3rd quarter would be more representative of baseline conditions. As a result, the Permittee will collect baseline data either in 2nd or 3rd quarter of 2014.

2. Were data submitted for all of the MRP required sites?

Streams and Ponds

YES NO

The surface water monitoring plan requires sampling of nine surface water sites (SW-1, SW-2, SW-2A, SW-3, SW-4, SW-5, SW-6, SW-7 and SW-8). The required water quality parameters are provided in Table 7.24.5 with the exception of SW-2. Flow is the only data collected at monitoring site SW-2. Surface water monitoring sites are no longer monitored for BTEX-N. The reduction in monitoring at these sites was the result of inactivity at the site (Task ID #4253). Four of the sites are retention ponds (SW-5, SW-6, SW-7 and SW-8).

Water quality data was obtained from three sites: SW-1, SW-2 and SW-2A. The remaining monitoring locations reported no flow.

Wells

YES NO

The Permittee is required to analyze samples quarterly from 16 well sites. GW-12 is no longer required for monitoring (since 1st quarter 2012. Mid-term). GW-1, GW-3, GW-4, GW-6, GW-7, GW-8, GW-9, GW-9B, GW-10, GW-13, GW-14, GW-15A, GW-15B, GW-16, and GW-17 for the parameters in Table 7.24-2, and to measure depth only at GW-2.

Monitoring well GW-12 is no longer an actively monitored site. It was dropped during the most recent mid-term review (Task ID #4253). It was last sampled during the 4th quarter of 2012.

Data was submitted for all of the required monitoring well sites. Monitoring well GW-3, did not have enough water to collect a sample (i.e. they were reported dry).

UPDES

YES NO

Six UPDES permitted outfalls at the Wellington Preparation Plant are monitored monthly: #UTG040010-003, 004, 005, 006, 007, and 008. None of the UPDES sites reported flow this quarter.

3. Were all required parameters reported for each site?

Streams and Ponds

YES NO

The previous quarter (WQ13-3), the Permittee did not provide all of the required data for SW-1. Temperature was the only parameter reported. The Permittee was contacted to provide the missing data. The data for SW-1 was provided to the Division on April 1st, 2013. A data-base issue was the reason for the missing SW-1 data. No additional follow-up is necessary.

Wells

YES NO

UPDES

YES NO

4. Were any irregularities found in the data?

Streams and Ponds

YES NO

Wells

YES NO

The following table summarizes the parameters that were outside of at least two standard deviations for this quarter:

Site	Date	Parameter	Reported Value	Standard deviations	Average
GW-1	12/13/2013	Cl	27 ppm	3.18	77.76 ppm
GW-17	12/13/2014	Depth	13.39'	2.41	22.79'
GW-17	12/13/2014	D-Ca	160.28 ppm	7.65	55.33 ppm
GW-17	12/13/2014	D-Mg	115.19 ppm	4.58	53.48 ppm
GW-17	12/13/2014	D-K	10.96 ppm	4.57	7.32 ppm
GW-17	12/13/2014	SO4	734 ppm	2.68	311.68 ppm
GW-17	12/13/2014	T-Hdns	875 ppm	8.10	362.71 ppm
GW-9B	12/13/2014	D-Mg	442.82 ppm	2.17	653.44 ppm

Chloride levels have trended down for two consecutive quarters for monitoring well GW-1.

UPDES

YES NO

Not Applicable. No discharges were reported from any of the UPDES monitoring locations.

5. Does the Mine Permittee need to submit more information to fulfill this quarter's monitoring requirements?

YES NO

The previous quarter (WQ13-3), the Permittee did not provide all of the required data for SW-1. Temperature was the only parameter reported. The Permittee was contacted to provide the missing data. The data for SW-1 was provided to the Division on April 1st, 2013. A data-base issue was the reason for the missing SW-1 data. No additional follow-up is necessary.

6. Follow-up from last quarter, if necessary.

NA

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

NA