

# WATER QUALITY MEMORANDUM

Utah Coal Regulatory Program

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April 7, 2008

TO: Internal File

FROM: James D. Smith, Environmental Scientist - Hydrology *DS 4/10/08*

RE: 2007 Fourth Quarter Water Monitoring, Nevada Electric Investment Corporation, Wellington Preparation Plant, C/007/0012, Task ID #2676

The Wellington Preparation Plant is currently idle. No mining or coal processing activities currently take place there, nor is the site in active reclamation. 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 will be collected in the year preceding permit renewal. The next renewal submittal is due 08/10/09 and the next renewal is due 12/10/09, so five-year resampling should be done in 2008.

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

There is no spring or in-mine monitoring at this site.

**Streams and Ponds** YES  NO

The Permittee is required to analyze samples from streams at SW-1, SW-2A, SW-3, and SW-4 and from ponds at SW-5, SW-6, SW-7, and SW-8 for the parameters in Table 7.24-5, and to measure flow only at SW-2. In addition, samples from SW-4 and SW-5 are to also be analyzed for benzene, toluene, ethylbenzene, xylene, and naphthalene (BTEXN) and propylene glycol. Monitoring is to be done quarterly.

SW-3, SW-4, and all the ponds were dry during the fourth quarter 2007.

**Wells** YES  NO

The Permittee is required to analyze samples from GW-1, GW-3, GW-4, GW-6, GW-7, GW-8, GW-9, GW-9B, GW-10, GW-12, 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. In addition, samples from GW-4 and GW-6 are to also be analyzed for BTEXN and propylene glycol. Monitoring is to be done quarterly.

There was insufficient water to collect a sample for analysis at GW-13 and GW-17 during the fourth quarter 2007, and GW-3 and GW-4 were inaccessible.

**UPDES** YES  NO

Six UPDES permitted outfalls at the Wellington Preparation Plant are monitored monthly: #UTG040010-003, 004, 005, 006, 007, and 008. There was no reported flow at any of the UPDES sites during the fourth quarter 2007.

**3. Were all required parameters reported for each site?**

**Streams and Ponds** YES  NO

SW-3, SW-4, and all the ponds were dry during the fourth quarter 2007.

**Wells** YES  NO

Static water level was measured but inflow was not sufficient to allow purging and sampling at GW-13 and GW-17 during the fourth quarter 2007.

**UPDES** YES  NO

**4. Were any irregularities found in the data?**

Listed parameters were more than two standard deviations from the mean. An asterisk (\*) indicates this is not a parameter specifically required by the MRP.

**Streams and Ponds** YES  NO

**Wells** YES  NO

Parameter	Wells
Lab - specific conductivity	GW-15A and GW-15B
Field - specific conductivity	GW-15B and GW-6
Bicarbonate as CaCO <sub>3</sub>	GW-1, GW-4, and GW-9
Cl	GW-15B
Sulfate	GW-15A and GW-15B
Dissolved Ca	GW-15A
Dissolved Mg	GW-9B and GW-15A
Dissolved Na	GW-1, GW-9B, GW-15B, and GW-16
Dissolved K	GW-9B, GW-15A, and GW-15B
Dissolved Fe	GW-6 and GW-9B
Total anions*	GW-9B, GW-15A, GW-15B
Total cations*	GW-9B, GW-15A, GW-15B
TDS	GW-9B and GW-15A
Total hardness	GW-15A

Dissolved solids have been increasing in GW-12 almost since it was completed (see attached chart), although the reason is not evident. GW-12 was not accessible during the 4<sup>th</sup> quarter 2007.

UPDES YES  NO

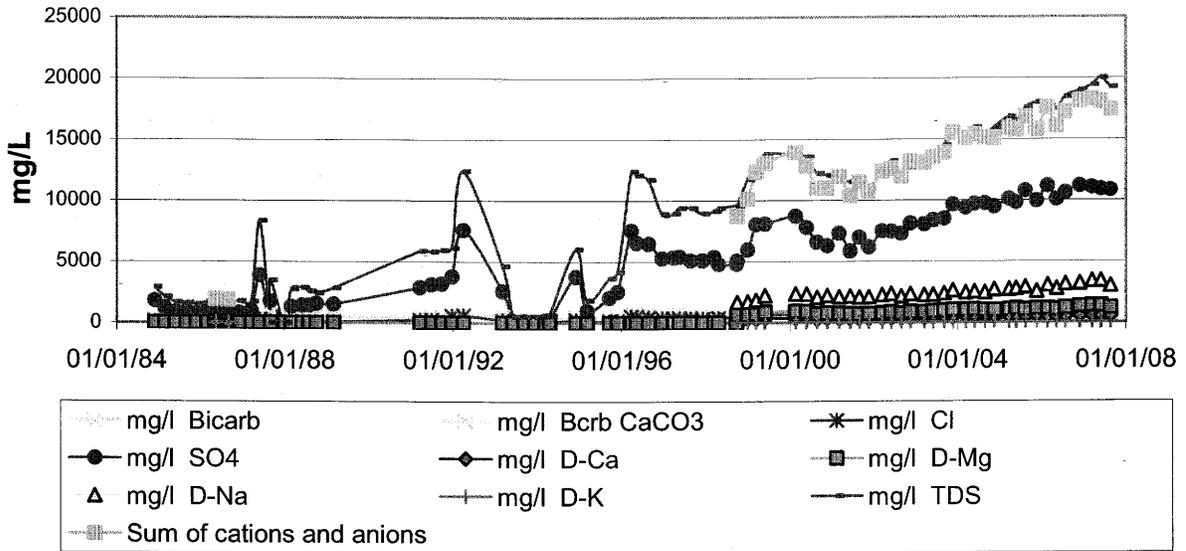
5. Did the Permittee make a timely submittal of all data, including initially missing data, and satisfactorily explain irregular data? YES  NO

6. Does the Mine Permittee need to submit more information to fulfill this quarter's monitoring requirements? YES  NO

7. Based on your review, what further actions, if any, do you recommend?  
 None

8. Follow-up from last quarter, if necessary.  
 None

### GW-12



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