

#3921
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WATER QUALITY MEMORANDUM

Utah Coal Regulatory Program

February 13, 2012

TO: Internal File

THRU: Steve Christensen, Permit Supervisor *SJC*

FROM: April A. Abate, Environmental Scientist III *AAA*
2-14-2012

RE: 2011 Third Quarter Water Monitoring, Nevada Electric Investment Corporation, Wellington Preparation Plant, C/007/0012, Task ID #3921

The Wellington Preparation Plant is currently in temporary cessation. No mining or coal processing activities currently take place there. 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.

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

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 done quarterly.

During the third quarter 2011, samples were collected from SW-1 and SW-2A. Flow only was measured from SW-2. None of the other monitoring locations reported flow. None of the pond samples reported any water during this monitoring period.

Wells

YES NO

The Permittee is required to analyze samples quarterly 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.

Wells GW-3, GW-12, GW-13 and GW-17 were not sampled. GW-3 was reported as dry. GW-12 was inundated with irrigation water and could not be accurately sampled.

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 during the third quarter 2011.

3. Were all required parameters reported for each site?

Streams and Ponds YES NO

Wells YES NO

UPDES YES NO

Not applicable

4. Were any irregularities found in the data?

Streams and Ponds YES NO

Wells YES NO

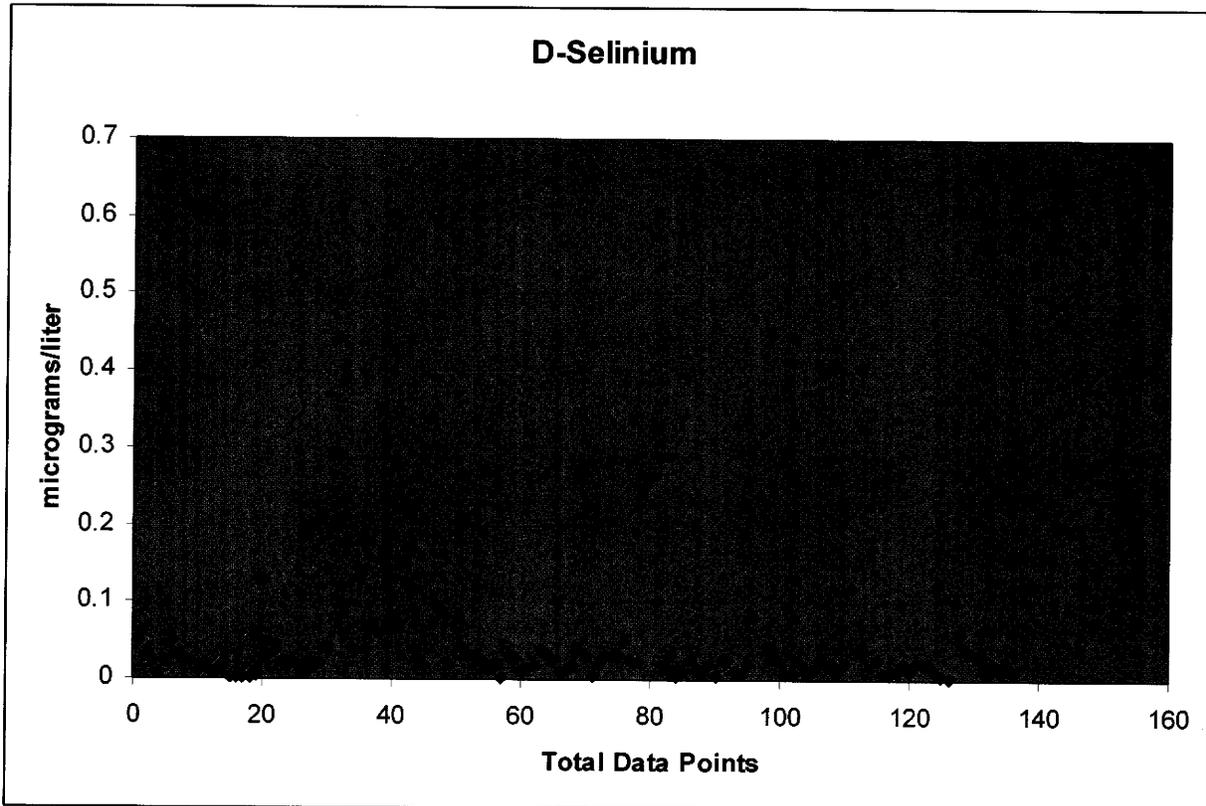
The following table summarizes the parameters that were outside of at least two standard deviations for this quarter:

Well	Parameter	Concentration in mg/L	Std Deviation	Mean mg/L
GW-13	T-Se	90*	Not given	200*
GW-1	Cl	103	2.14	74.04
GW-8	Bicarb	917	2.13	970.6
GW-9	Bicarb	645	2.12	684.6
GW-9B	D-Mg	489	2.24	674.9

*result reported in ug/L

GW-13: Total selenium was detected this month at a concentration of 90 ug/L, as compared to dissolved selenium for the same sample that resulted in a non-detect concentration. The state standard for dissolved selenium in groundwater is 50 ug/L. None of the historical dissolved

selenium data analyzed were shown to be over the state standard. The chart below shows historical detections of dissolved selenium in groundwater over the life of the permit. As can be seen, no dissolved selenium has come close to exceeding the groundwater standard.



The TDS was reported in groundwater monitoring wells at the concentrations listed below. Average TDS reported in groundwater from wells this quarter was 6,859 mg/L. There is no state standard for TDS in groundwater.

Well	GW-1	9/13/2011	4,964
Well	GW-2	9/13/2011	N/A
Well	GW-3	9/13/2011	N/A
Well	GW-4	9/14/2011	4,358
Well	GW-6	9/14/2011	4,271
Well	GW-7	9/12/2011	2,958
Well	GW-8	9/12/2011	12,517
Well	GW-9	9/13/2011	14,379
Well	GW-9B	9/12/2011	8,619
Well	GW-10	9/12/2011	5,044
Well	GW-13	9/12/2011	16,039

Well	GW-14	9/12/2011	8,586
Well	GW-15A	9/13/2011	4,222
Well	GW-15B	9/13/2011	3,334
Well	GW-16	9/13/2011	3,969
Well	GW-17	9/14/2011	930
N/A - not analyzed			

UPDES

YES NO

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

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

The Permittee has committed to making some modifications to wells that do not meet the objectives of the Probable Hydrologic Consequences (PHC) section of the Wellington water monitoring program.

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

None

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

Continued work with the Division to develop an up-to-date Probable Hydrologic Consequence document for the Wellington Mining and Reclamation Plan.

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