

# WATER QUALITY M E M O R A N D U M

Utah Coal Regulatory Program

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October 21, 2003

TO: Internal File

THRU: Daron R. Haddock, Permit Supervisor

FROM: Dana Dean, P.E., Senior Reclamation Hydrologist

RE: 2001 First Quarter Water Monitoring, Sunnyside Cogeneration Association, Sunnyside Refuse/Slurry, C/007/0035-1369

**1. Was data submitted for all of the MRP required sites?** YES  NO   
*Identify sites not monitored and reason why, if known:*

**2. On what date does the MRP require a five-year resampling of baseline water data.**  
See Technical Directive 004 for baseline resampling requirements. Consider the five-year baseline resubmittal when responding to question one above. Indicate if the MRP does not have such a requirement.

### Resampling due date

During the year preceding each re-permitting action: "Once every five years (prior to each application for permit renewal) one sample from each of the monitoring sites listed in Table 7-2A will be sampled and analyzed for the parameters listed in Table 7-2B." The Permittee should sample for baseline in 2002, 2007, etc.

**3. Were all required parameters reported for each site?** YES  NO   
*Comments, including identity of monitoring site:*

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

YES  NO

*Comments, including identity of monitoring site:*

Site F-2 had several parameters that fell outside of two standard deviations from the mean. They were:

PARAMETER	VALUE	DEVIATIONS FROM MEAN	MEAN
Dissolved Magnesium	46	2.44	87.62
Dissolved Sodium	53	2.89	196.35
Bicarbonate	388	3.27	569.10
Chloride	5	2.07	37.28
Sulfate	129	2.40	472.24
Total Alkalinity	318	3.47	473.18
Total Hardness	352	2.13	578.83
TDS	472	3.13	1214.43
Total Cations	9.4	2.57	20.24
Total Anions	9.2	2.86	20.61

Well-1 also had several parameters that fell outside of two standard deviations from the mean. They were:

PARAMETER	VALUE	DEVIATIONS FROM MEAN	MEAN
Flow	10	2.09	164.74
Dissolved Calcium	120	3.93	63.36
Sulfate	547	2.63	278.11
Total Hardness	703	2.79	413.32
Total Cations	22.5	2.62	14.10
Total Anions	21.6	2.13	14.34

**5. Were DMR forms submitted for all required sites?**

1<sup>st</sup> month, YES  NO

2<sup>nd</sup> month, YES  NO

3<sup>rd</sup> month, YES  NO

All DMRs reported "no flow".

**6. Were all required DMR parameters reported?**

YES  NO

*Comments, including identity of monitoring site:*

All DMRs reported "no flow".

**7. Were irregularities found in the DMR data?**

YES  NO

*Comments, including identity of monitoring site:*

All DMRs reported "no flow".

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

No further actions are necessary at this time.