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# WATER QUALITY MEMORANDUM

Utah Coal Regulatory Program

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March 1, 2012

TO: Internal File

THRU: Steve Christensen, Permit Supervisor *gkc*

FROM: Amanda Daniels, Environmental Scientist *AD*

RE: 2011 Third Quarter Water Monitoring, Sunnyside Cogeneration Association, Sunnyside Refuse/Slurry, C0070035, WQ11-3, Task ID 3919

The Sunnyside Refuse/Slurry Mine is currently operational. The facility mines the old Sunnyside Mine coarse refuse and slurry cells, blends the material and burns it at the adjacent co-generation facility. Sunnyside Cogeneration Association (SCA) started mining coal refuse at this site in 1993 and projects a total mine life of at least 20 years. Water monitoring requirements are described in the MRP in Section 730 and Appendix 7-8.

This report was prepared from monitoring data queried from the UDOGM database. The data that support this report were collected and submitted to the database by SCA. The data were downloaded into file O:\007035.SRS\Water Quality\Data\SunnysideRefuseWQ.xls for this review.

**1. Was data submitted for all required sites?**

**Springs**      YES [X]      NO [ ]

The Permittee is required to monitor and sample springs CRS, CRB and F-2 quarterly. Spring CRS was reported as "no flow". Springs CRB and F-2 were both reported with flows of 10 gpm and 150 gpm, respectively.

**Streams**      YES [X]      NO [ ]

The Permittee is required to monitor and sample Icelfander Creek at location ICE-1 quarterly. Stream site ICE-1 was reported at 70 gpm during the thrid quarter 2011 monitoring event.

**Wells**            **YES [X]**      **NO [ ]**

The Permittee is required to monitor and sample the East Carbon City Well (a.k.a. Dragerton Well or WELL-1) and well B-6 quarterly. Well B-6 was reported as dry during the third quarter 2011 sampling event. WELL-1 reported a flow of 270 gpm.

**UPDES**           **YES [X]**      **NO [ ]**

There are six active UPDES sites at the Sunnyside Refuse/Slurry Mine. They are all under the permit UT0024759, and include outfalls 007, 008, 009, 012, 014, and 016. The Permittee is required to monitor each UPDES site monthly according to the permit. The current permit expires July 31, 2012. The Permittee monitored and reported no discharges during the quarter.

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

**Springs**           **YES [X]**      **NO [ ]**

**Streams**           **YES [X]**      **NO [ ]**

**Wells**             **YES [X]**      **NO [ ]**

**UPDES**           **YES [X]**      **NO [ ]**

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

**Springs**           **YES [X]**      **NO [ ]**

Spring CRB reported two parameters reading higher than 2 standard deviations of its mean. The T-Anis and D-K were both unusually high, which is probably attributed to a higher than normal flow.

**Streams**           **YES [X]**      **NO [ ]**

Stream ICE 1 reported a flow of 70 GPM with the TSS reported at 76 mg/l. This is higher than 2 standard deviations of the parameters mean. ICE 1 generally reports as no-flow.

**Wells**             **YES [ ]**      **NO [X]**

UPDES      YES [ ]      NO [X]

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

MRP Appendix 7-8 states that "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 monitored the complete list of baseline parameters during the first quarter of 2007. The next five-year sampling should take place in 2012.

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

None.

**Does the Mine Operator need to submit more information to fulfill this quarter's monitoring requirements?      YES [ ]      NO [X]**

**6. Follow-up from last quarter, if necessary.  
Did the Mine Operator submit all the missing and/or irregular data (datum)?**

None required.