

## MEMORANDUM TO FILE

**TO:** KM File

**FROM:** Brian Rakvica

**DATE:** July 21, 2004

**CC:** Todd Croft, Jennifer Carr, Jeff Johnson, Jim Najima, Jon Palm, Tamara Pelham, Alan Tinney, Leo Drozdoff, Valerie King

**RE:** KM Conference Call on July 21, 2004 at 1:30 PM

1. Attendance:
  - a. NDEP: Todd Croft, Tamara Pelham, Brian Rakvica
  - b. KM: Keith Bailey, Susan Crowley
2. System Operations.
  - a. Plant is still running near hydraulic capacity. This includes approximately 45 gpm from the chromium system/ pond GW-11. The remainder of the chromium system flow is diverted to GW-11.
  - b. Noted that the plant had some operational issues last week.
    - i. Last Thursday (7.15.04) the quality of the effluent started to decline and sulfide was being generated in the secondary reactors. Ferric chloride was added to try and control the sulfide issue. Excess ferric chloride addition resulted in the formation of a (black) iron sulfide precipitate in the pond area near the Wash.
    - ii. KM diverted the FBR discharge to GW-11 and started up the Wash IX system to handle some of the flow during the problem. IX system was run through Tuesday (7.20.04) morning (350 gpm).
    - iii. KM began discharging again from the FBR to the Wash at ~7:00 PM Tuesday night. Discharge was ~ 25 ntu.
  - c. KM has brought in additional Veolia representatives to address the optimization of the plant.
  - d. Noted that when KM discusses excess ethanol addition they are referring to ~ 1 quart/day. KM adds ethanol through metering pump to each of the four primary reactors. KM noted that they use ~500 gallon/day of ethanol and ~10 gallon/day of ferric chloride.
  - e. KM noted that they are looking to add a control to divert the flow of FBR discharge to GW-11 when the turbidity is high. KM is still discussing what this limit may be.
  - f. It was noted that the FBR is controlled based on the perchlorate concentration coming out of the primary reactors.
3. Discussed disc filter pilot test.
  - a. Disc filter works well when there is a negligible amount of sulfide present. When the sulfide concentration increases the disc filter is not able to

remove the fine particles (<10 $\mu$ ) as these are smaller than the (<10 $\mu$ ) filter size.

- b. KM noted that they are discussing options for use of the disc filter system in the future.
4. Discussed DO issues
  - a. KM noted that the DO is ~ 3.0 mg/L at the end of the pipe.
5. Other issues.
  - a. Discussed Sierra Club visit. Noted the next tour is planned for late August.
  - b. Confirmed quarterly meeting for 8/25/04 at 9:30 AM. Noted that USEPA representative John Tinger may attend.
  - c. Confirmed tour on 8/26/04 at 9:00 AM for SNWA and Arizona and in the afternoon for MWD.
  - d. Todd discussed his visit presentation to the Perchlorate Task Force meeting at MWD in Los Angeles, California. It is expected that a DTSC member will be following up on the model created by the NDEP consultant. It was noted that approximately 30 water purveyors have filed suit against MWD for perchlorate issues.
  - e. Noted that the next EPA quarterly report is due shortly. Noted that the EPA may switch to a semi-annual format.
  - f. Noted that the DOD is preparing a report for Senator Feinstein's office. The data in this report is expected to be largely from the EPA reports.
  - g. Noted that SNWA will be completing the Powerline and Landfill weirs next. Discussed expected perchlorate concentrations in these areas.
6. Next call: Wednesday, July 28, 2004 at 1:30 PM. Call in number to be provided.