

## MEMORANDUM TO FILE

**TO:** KM File

**FROM:** Brian Rakvica

**DATE:** June 9, 2004

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

**RE:** KM Conference Call

1. Attendance:
  - a. NDEP: Todd Croft, Brian Rakvica, Valerie King
  - b. KM: Keith Bailey, Susan Crowley, Rick Stater
2. Remedial System Update.
  - a. Discussed DAF optimization.
    - i. KM has switched to ferric chloride as a coagulant. Currently they are injecting 30 ppm (down from 35 ppm). They are also using a polymer flocculant.
    - ii. KM is trying to refine this operation to minimize the brown (iron) coating on the rocks at the Seep area.
  - b. Discussed activation of Acti-flow filtration system.
    - i. This system was being tested at 200-225 gpm.
    - ii. The water being generated from this system is of about the same quality as the DAF system.
    - iii. KM stated that the operation of this system is more complex and they will probably not use this in the future.
  - c. Discussed other operational details.
    - i. KM will be taking a shut-down this week to install a booster pump and perform additional system modifications.
    - ii. Current flows include 55 gpm from the chromium system and 3 gpm from pond GW-11. KM hopes to increase flows from pond GW-11.
    - iii. KM noted that they have been getting a slug of high concentration perchlorate at the Athens Road well field and are currently running at 85% of the chemical load of the plant.
    - iv. KM noted that they have performed a test of the modified discharge line and this test was successful.
    - v. KM noted that they are maintaining the boom at the outfall.
3. Discussed NDEP observations.
  - a. As of today at approximately 8:00 – 9:00 AM the effluent quality seemed to be much clearer with some remaining brown opacity.

- b. The rocks in the Seep area are no longer white. The rocks are now brown with some green algae.
  - c. Downstream before the culvert there is still some scum and opacity issues.
  - d. Downstream after the culvert there is a drop off and there is still some foam and precipitate.
  - e. KM stated that the backwater area should clear up over time.
  - f. NDEP asked if there will always be an issue with the precipitate (ppt). KM indicated that they are still in the process of fine-tuning the system and they expect a change in discharge soon. It is not known when the existing discoloration in the Seep will be abated.
4. Discussed NDEP BWPC issues.
- a. It was noted that KM has a response due to Val by Friday.
  - b. KM noted that they have evaluated the possibility of the ppt being inorganic. The solids that are being seen have been confirmed as biological by Shaw Environmental.
  - c. NDEP noted that they are comfortable with the KM discharge so long as the quality is similar to the LV Wash water quality at the point where the discharge joins the Wash. NDEP requires that this comparison be quantitative in nature (for example, comparison of opacity tests).
5. Next meeting: telephone conference on 6/21/04 at 1:15 PM – call in number to be provided.
- a. It was noted that at the next call KM should be prepared to discuss the observations with regards to the effluent quality.