

**Drinking Water Quality Institute
Treatment Subcommittee Minutes
Conference Call
January 9, 2007 (10:00-11:00)**

Members Present: Barker Hamill, Ravi Patruju (representing E. Murphy)

Teleconference: Paul LaPierre (Chair), Laura Cummings (PVWC), Carol Storms (Aqua NJ)

Members Absent: Russell Ford

Others Present: (From DEP) Syed Rizvi, Diane Pupa, and Karen Fell

I. Aug 9, 2006 meeting minutes will be emailed for approval along with draft-Jan 9, 2007 minutes. The main issues on the Jan 9th agenda are: review comments to Black & Veatch Reports and to discuss how the subcommittee wants to deal with the 5 chemicals recently referred from the Testing Subcommittee.

II. Subcommittee members held a conference call to discuss their recent comments on the two reports (ground water & surface water) authored by Black and Veatch: *Evaluation and Assessment of Organic Removal Technologies for Drinking Water*. These reports represent an extensive literature review on drinking water treatment options for various unregulated organic chemicals detected in various drinking water sources.

The initial discussion began with a difference in the final title that was not part of the original title, however, it was eventually decided by the subcommittee that the final title which referred to Organic Chemicals was more appropriate and would remain as written.

A question was raised regarding if any additional funding efforts were made since the draft were reports were completed to fund additional studies on these unregulated organic chemicals, and the answer is no...to date Black & Veatch has not approached DEP, nor has DEP approached any other institution to fund additional studies.

A suggestion was made to change Page 5-6 of the Surface Water Report to clarify that PAC should be added at the head of the plant and may not be effective after other chemicals are added. The current report version suggests that PAC is added much later in the chemical process.

Another comment was made about clarifying and defining (15) waste water chemicals referred to on page 2-3 under method 4. The other methods (1 & 2) are explained, however; methods 3, 4 & 5 are not. The specifics of these waste water chemicals are not explained anywhere in the document.

Pertaining to the Ground Water report, the report states the cost of iron and manganese removal was not included because it would be necessary even if GAC was not in use. It was suggested that that is not correct, that in some cases iron and manganese removal might not be necessary unless GAC was in use.

The tables and appendices in both the Ground Water and Surface Water reports need harmonization. Some references to tables or appendices do not match within the same document.

In addition, a footnote needs to be added to Appendix C of the Surface Water report for the purposes of clarifying yes, no, question marks, and blanks. These parameters need explanation for better understanding.

A comment was made to clarify the “UV dosages” referenced in both reports. In the Ground Water report on Page 3-7 of the UV Light paragraph, a reference is made to dosages of up to 3,000 mJ/cm² however, in the Surface Water report on Page 3-11 the referenced dosages are 1,000 mJ/cm². Is this difference correct, and if so explain why. Is this difference related to sedimentation issues for surface water treatment plants?

Lastly, a comment was made that the report clarify if ozone destruction is included in the cost analyses or not., and they must state whether they will need a filter to stabilize the media for ground water, as is done for surface water.

III. Chemicals from Testing Subcommittee:

The Health Effects Subcommittee has recommended the following MCL changes and the subcommittee will be evaluating how these chemicals will be treated if the change occurs. Currently, these chemicals are treatable via GAC and air stripping to achieve the existing MCLs

1,3-Dichlorobenzene	600	to	6	ppb
1,1-Dichloroethane	46	to	23	ppb
1,4-Dichlorobenzene	150	to	14	ppb
1,2,4-Trichlorobenzene	8.6	to	18	ppb
1,1-Dichloroethylene	1	to	7	ppb

Action Items:

By week of Feb 12th, R. Patraju to review treatment info on the 5 chemicals above.

Next Meeting: Possibly Week of Feb. 19th

Minutes Prepared by:

Diane Pupa

Bureau of Safe Drinking Water

January 9th, 2007