

US EPA ARCHIVE DOCUMENT

IP COLLABORATIVE TEAM XL -2 BMP PROJECT
MEETING NOTES
February 7, 2001

ATTENDEES: Sarah Anderson, Sterling Pierce from DEP, Doug Barton from NCASI, Chris Rascher, Mark Perez (via phone) from EPA, Joe Genco, Marquita Hill from UMO, Curt Treadwell, Phil Sekerak, Jeff Pike, John Cronin, Carl Anderson from IP, Neil McCubbin EPA consultant (via phone)

The meeting began at approximately 10:15 a.m.

Joe reviewed the report titled 'Comparative Analysis of XL-2 Projects' dated 2/7/01. The report summarized projects completed and those that are approved as well as the impacts of each of these projects. The following conclusions were made from the report:

- the black liquor cycle(pulp, bleach plants, and power) represents 1/3 of the mill complex COD
- implemented projects represent 10% of the black liquor cycle COD
- approved projects will decrease black liquor cycle COD by another 6%
- the mill's bleach plants represent 1/2 of the black liquor cycle COD
- evaporator condensates represent 18% of black liquor cycle COD
- turpentine represents 13% of black liquor cycle COD
- the biggest impact of future projects would be achieved by implementing condensate stripping and turpentine recovery projects - cost of implementation exceeds XL2 budget.
- O2 delignification improvements lead to both COD removal and reduction in bleach plant chemical consumption - GL&V review indicates that system is close to optimized level.
- black liquor filtrate carryover to the bleach plants can be significant

Discussion with Niel about relative impact from different steams on effluent COD. He noted that since the condensates are mostly methanol, they would treat easily, as would turpentine at low concentrations. Black liquor is still the prime target, making the liquor separator a good option. Neil will e-mail a study on COD to Kappa ratio to Phil.

Phil and Curt provided the group with an update of projects. The XL-2 project list was provided to all team members.

Carl Anderson and Phil reviewed the efforts that the mill is presently taking to reduce fiber loss. These efforts, although targeted at fiber, will also reduce the loading of COD and color as many of the sources of fiber loss are also contributors of other pollutants. Specific projects reviewed include the following:

- peroxide bleaching in groundwood
- #3 paper machine rebuild
- #2 paper machine performance improvements

Some of these projects may actually have an overall increase in waste loading.

Testing procedures were reviewed. The following items were discussed:

- The group agreed that color testing during future projects can be completed by IP personnel. Note that most of the color data that has been provided to the group has been completed on-site.
- Color testing on the individual sewer streams was recently completed. The data was provided to the team members and reviewed at the meeting.
- Hach is no longer pursuing EPA approval of the MnIII COD test method.
- Hach will be pursuing a slightly modified version of the test called the OxyVer COD test method
- Joe suggested that we consider inviting Steve Kahl from the UMO Research Laboratory to future meetings if additional discussion on test methods is scheduled.

The true measurement of impacts of future projects was discussed. The group generally felt that we should implement some type of pre/post sampling/testing for this purpose. The following was discussed as a way to make these measurements:

- samples should be taken and tested at the closest possible location to where the project was completed
- these samples should be taken as soon close to possible to the implementation of the project and as soon as possible after startup is complete, and startup issues have been resolved
- tests should include, at a minimum, color and COD
- some samples should be analyzed for toxicity during the next mill color/COD balance

Specific testing for two upcoming projects were reviewed. The projects and proposed tests were as follows:

- Time dump system in the B pulp mill: B general sewer. Test for color, COD and toxicity
- Paper machine white water project in the A pulp mill: A general sewer. Test for color, COD and toxicity

Had discussion on COD test being an unfiltered test. This may make the paper mill samples look artificially high since much of the COD may settle out in the primary clarifiers.

Chris Rascher reviewed the project schedule. In summary, he felt that the group was on schedule at this time. He reminded the group that we had one year to identify and determine what projects should be worked on, and two years to actually implement these projects. Note that the project was signed on June 29, 2000.

The next meeting dates were set as follows:

Technical team meeting:

March 28, 2001, 10:00am, Augusta DEP offices.
Sterling to reserve a specific meeting location

Collaborative team meeting:

April 18, 2001, 10:00am, International Paper
Loon Conference Room "C", Environmental Building