

Wickham, Jerry, Env. Health

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Conference call with Terry Grayson of ConocoPhillips and Jim Barnard of Delta. The following points were discussed:

- Jim Barnard believes that hexavalent chromium in lower zone is naturally-occurring. Minimal contamination in lower zone. They would like to concentrate further remediation on the middle groundwater zone.
- Ozone may not be the best method. They are considering alternative cleanup technologies such as hydrogen peroxide or magnesium sulfate. I indicated that I had doubts about effectiveness of ozone also given the water level fluctuations and depths of contaminant mass.
- I indicated that I would be open to a pilot study of alternative technology but the pilot test would need to collect sufficient data to evaluate the results. Additional wells or injection points would be needed to implement the pilot study. When pilot study is proposed, there should be some idea of how the treatment will perform with data collection to confirm or deny the expected outcome.
- We discussed the area of treatment. Jim Barnard suggested that wells U-6 and U-7 may be used. I indicated that this was counterintuitive given that both wells are located some distance from the suspected sources, the tanks and dispensers.
- COP and Delta will submit a recommendation by the February deadline. I asked them to review the location of contaminant mass based on soil data, borings logs, and dissolved phase contamination.

Jerry Wickham