

Meeting Minutes

Project: Kerr-McGee (KM) a.k.a Tronox
Location: Tronox
Time and Date: 2:00 PM, Wednesday, March 23, 2006
Meeting Number: ---

In Attendance:

NDEP-BCA - Brian Rakvica, Shannon Harbour
Tronox (Trx) - Keith Bailey, Rick Stater, Tom Reed (via phone)
ENSR – David Gerry, Ed Krish
AIG – Joe Guerriero
Malcolm Pirnie – Bruce Nelson
GEI – Barry Giroux

CC: Jim Najima, Marysia Skorska, Todd Croft, Shannon Harbour

1. Meeting was held to review progress of ECA activities.
2. Discussed Upgradient Work Plan (WP)
 - a. Borings are complete. Groundwater sampling will be complete this week.
3. Discussed Source Area WP
 - a. Trx noted that soil and water samples are running approximately \$6,000 per sample.
 - b. Trx presented their understanding of the phased process as follows:
 - i. Phase A – pick 8-10 locations of highest concentration, screen versus PRGs, upgradient, etc., reduce list for Phase B and C.
 - ii. Phase B – drill transects across the site.
 - iii. Phase C – delineate COPCs, develop plume maps.
 - c. NDEP noted that this is contrary to NDEP's understanding of the conceptual work plan and pointed out that COPC selection was not planned on being finalized until after Phase C.
 - d. NDEP noted that the scope of Phase A as submitted is not sufficient to screen for COPCs. NDEP referred to a listing of USEPA guidance (to be provided via email after the meeting).
 - e. NDEP discussed specifically the "frequency of detection" screening as laid out in USEPA RAGS.
 - f. Discussed depth increments. Trx intends to sample at 0', 10' and groundwater interface. NDEP noted that potentially a large section of the vadose zone will be left uncharacterized. NDEP needs a cross-section and a revised proposal for sampling if it appears that the vadose zone will not be adequately covered. Trx will provide a cross-section.
 - g. Discussed 1,4-dioxane. Noted that analysis via EMAX labs will be very expensive (~\$1,500 per sample). NDEP noted that this is unreasonable and that Trx should consider looking for the other compounds associated with 1,4-dioxane (e.g.: 1,1,1-TCA and other solvents associated with this

- stabilizer compound). If the indicator chemicals are found it may be warranted to go back and look for 1,4-dioxane.
- h. NDEP noted that Trx should consider innovative means of identifying site related chemicals (e.g.: immunoassays for dioxins perhaps).
 - i. Trx and NDEP agreed to schedule a working meeting to resolve the issues with the work plan. Trx to contact NDEP with suggested dates (possibly week of April 11th).
 - j. Trx noted that they planned on being in the field by June or July for the Phase A work, but this may be delayed.
4. Discussed the CSM – no changes at this time.
 5. Discussed the fact sheet. NDEP will post once website is up and running.
 6. Discussed Chromium Performance Report.
 - a. Discussed reformatting of the figures.
 - b. Trx to select wells proposed for presentation and discuss with NDEP.
 - c. Trx discussed going to annual reporting. NDEP concurred. Trx to provide a letter request to NDEP.
 7. Discussed perchlorate.
 - a. A new well, ART-9 will be drilled. A pump test will then be completed and it may be added to the extraction well field. This issue will be discussed with Todd Croft of the NDEP by Trx.
 - b. ART-9 is located between wells ART-6 and ART-7 and has a perchlorate concentration of ~200 ppm. Chromium concentrations are not known but are estimated to be 0.8 – 1.0 ppm.
 8. Discussed QA/QC.
 - a. Trx noted that they will insure that data are of sufficient quality for future uses.
 9. Discussed the status of the BMI/TIMET background study. Report is expected in the next month or two.
 10. Reviewed the status of other companies' site-related chemicals lists.
 11. Discussed SNWA Seep Area data. Trx noted low concentrations in July and October of the last three years. NDEP discussed sampling locations as discussed with SNWA. Noted that this information was sent via email to Keith.
 12. Next Meeting: TBD (probably April 11 or 12, 2006) at 2:00 PM at TRX