Tower Standard/Haskell Lake LUST Site

Meeting Date: February 23, 2017
Location: Lac du Flambeau

Discussion Items:

a) What is known of the nature and extent of contamination.
b) The adequacy (or not) of data collection, analysis, and modelling.
c) Whether parties are prepared to begin talking about specific remedial actions.
d) If any factors above are inadequate, incomplete, or premature, then how should these deficiencies be corrected?

Meeting Participants:

Dee Allen, Lac du Flambeau	Bob Egan, EPA R5 LCD	Anthony Greenwater, EPA TIAO
Kristen Hanson, Lac du Flambeau	Sherry Kamke, EPA R5 LCD	Jennifer Manville, EPA R5 TIAO

Meeting Outcomes:

1. Existing data on site conditions is incomplete. The plume, for example, has not been completely defined on land or under the lake. Completing the monitoring well network for the site is a priority. **Agreed actions**:

a) B.Egan and K.Hanson will have a conference call to identify needed additional well locations.
b) EPA and the Tribe will approach WDNR to promote the new well locations. Funding permitting, EPA will install wells not supported by WDNR. Currently available EPA funding—for all commitments—is less than $130,000. Invoices are pending for earlier work.
c) When EPA contractor is on site for monitoring, groundwater elevations will be measured.

2. Existing site model and other technical diagrams could be improved to be more useful for site decision-making. **Agreed actions**:

a) B.Egan will request the federal contractor to develop one schematic/figure that depicts all the site information (extent of soil contamination, lithology, extent of groundwater contamination, etc.).
b) K.Hanson will submit tribal contractor (Weston) comments on the model to B.Egan. B.Egan will contact Tom Kady about revising the model and get a cost estimate for the federal contractor's next Task Order.
c) B.Egan will request in the next Task Order that the federal contractor create a chart of all contaminants that are being sampled.
d) B.Egan will request in the next Task Order that a master data table be prepared that is more user-friendly.

3. A consistent process for sharing information and providing feedback between EPA, the Tribe, and the federal site contractor is needed. **Agreed actions**:

a) K.Hanson will compile and submit to B.Egan tribal comments on and questions about the 3 previous technical memoranda.
b) Under the next Task Order, B.Egan will request that the federal contractor revise the 3 previous technical memoranda based on tribal comments.
c) Going forward, K.Hanson will submit comments on technical documents to B.Egan, who will forward to the federal contractor and schedule a three-way conference call for discussion, prior to finalization of the documents.

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4. There is sufficient data to design a source removal interim action. No interim action is required, but Tribal approval is required for any removal action. Tribal procedures only allow for excavation of source material prior to completing a site characterization and reviewing the feasibility of all remedial action options. No other interim action can be approved, except as a final action. **Agreed actions**:

   a) In a new Task Order, B.Egan will request the federal contractor to develop a feasibility report on excavation of source material at the site. A draft report is anticipated in summer 2017.
   b) B.Egan will contact T.Kady for examples of projects that used soil vapor extraction and air sparging for long-term remedial actions.
   c) B.Egan will reach out to Steve Dyment (EPA) to discuss the site and potential optimization measures.

5. The Tribe has requested that USGS be approved to use the EPA site access agreement for upcoming work to sample porewater in Haskell Lake sediments. **Agreed actions**:

   a) K.Hanson will resend USGS project documents to B.Egan.
   b) B.Egan and S.Kamke will raise the issue of using the EPA access agreement with Land and Chemical Division management and consult with Office of Regional Counsel, then contact property owners, if appropriate.

   Note: Both of the final items were completed shortly after the meeting. EPA received the USGS workplan from LDF and approached the property owner to request that USGS be allowed to enter the property under the EPA site access agreement. The property owners approved this arrangement, with the condition that their contractor be notified in advance and be allowed to observe USGS activities.

Commitment Tracking Matrix

	COMMITMENT	OWNER	STATUS
1a	New monitoring well locations identified	LDF, EPA	
1b	New well locations promoted to WDNR	LDF, EPA	
1c	Groundwater elevations re-measured	EPA	
2A	Composite data figure developed	EPA	
2B	Tribal contractor model comments submitted and incorporated	LDF, EPA	
2C	COC chart created	EPA	
2D	All data tabulated in more usable format	EPA	
3A	Tribal comments and questions submitted re 3 previous technical memoranda	LDF	
3B	3 previous technical memos revised to incorporate Tribal comments. Questions answered.	EPA	
3C	Future technical memos will be reviewed by Tribe and comments addressed, prior to finalization.	LDF, EPA	
4A	FS developed for excavation of source material.	EPA	
4B	Examples provided of other AS/SVE applications.	EPA	
4C	Optimization resource contacted.	EPA	
5A	USGS workplan provided to EPA.	LDF	completed
5B	Property access requested for USGS work.	EPA	completed

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