

SITE MANAGEMENT TEAM MONTHLY CALL SUMMARY
FORMER DEFENSE DEPOT MEMPHIS, TENNESSEE
9 MARCH 2021
10:30 EST

LOCATION: Conference Call

ATTENDEES:

Army, Base Realignment and Closure Division (DAIM-ODB) – Jay Foster (absent)

CALIBRE BEC – Joan Hutton

USACE, Mobile – Bob Beacham, Laura Roebuck, Melissa Shirley

TDEC Division of Remediation, DDMT Project Manager – Jamie Woods

U.S. EPA, Region 4, DDMT Project Manager – Diedre Lloyd

HDR EOC – Tom Holmes, Nancy Jepsen

Koman Government Solutions / Trinity – Larry Pannell

GENERAL

MAIN INSTALLATION

Remedial Action - No current remedial action

Supplemental Remedial Investigation (SRI)/Focused Feasibility Study (FS)

SRI

Mr. Holmes stated that responses to EPA comments on the 2020 SRI Report, Rev0 were submitted to EPA for review in February.

Risk Assessment

Mr. Holmes said that HDR is working on the Risk Assessment Update/Review.

FS

Mr. Holmes stated the draft FS has been on hold, waiting for progress on the Risk Assessment and the Vapor Intrusion (VI) Conceptual Site Model (CSM).

VI Study

Mr. Holmes said that TDEC and EPA are reviewing the Draft VI CSM. No comments have yet been received.

Soil Vapor Extraction (SVE) Pilot Test Extension

Mr. Holmes stated that the SVE Pilot Test will be restarted for a six-month extension. The October 2020 LTM sample results in the TTA-2 area of the MI show that contaminant concentrations continue to decrease. The FS review has identified SVE and AS/SVE as possible remedial alternatives based on the initial pilot test results and

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successful implementation at Dunn Field. Continuing the test would provide helpful data for the FS in considering use of SVE alone without air sparging. The extension would also provide contaminant reduction at the site prior to the next stage of remedial action.

Ms. Lloyd asked if the FS was considering other remedial alternatives, such as no action and enhanced bioremediation (edible oils), in addition to air sparge (AS)/SVE, and if other pilot tests were being considered. Mr. Holmes answered that the FS is considering a number of remedial alternatives, including the two mentioned. He also stated other pilot tests are not planned at present; the SVE extension was recommended due to the equipment and infrastructure onsite and to the potential for useful data. Mr. Holmes noted that five years of enhanced bioremediation treatment on the MI provided sufficient data for that alternative.

Mr. Woods asked for more information about the pilot test results. Mr. Holmes replied that there are thirteen wells in the pilot test area; ten wells showed decreased concentrations of the primary chlorinated volatile organic compounds (CVOCs) in May 2020 and three wells showed increased concentrations. The October sample results showed decreased CVOC concentrations in those three wells as well as additional reduction in many of the other ten wells.

DUNN FIELD

Remedial Action

Status of Air Sparge (AS)/Soil Vapor Extraction (SVE) Operations

Mr. Pannell said the AS manifold was opened 29 January. In early February the bimonthly system monitoring readings were collected, including photo-ionization detector (PID) and vacuum readings at the vapor monitoring points (VMPs) and PID readings at the SVE wells. In early February, the five new flow meters were adjusted and seem to be working well now.

Mr. Pannell stated that alarms were recorded for the air/water separator (AWS) and for Blower 1 on 14 February. The alarms coincided with the severe winter storm that affected the Memphis area. The system automatically shut down due to the alarms, and the weather prevented access to the system for almost a week. In early March, the AWS alarm was corrected, and power was restored to the blowers. The AWS transfer pump was replaced this week, but a hole was discovered in piping at the base of the pump; the piping is to be repaired this week.

Mr. Woods said that he had a few other sites that were shut down at the same time for problems mainly caused by the weather.

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AS/SVE O&M Reporting

Mr. Pannell said that Year 10 Semi-Annual Report is in progress for internal review in April and for regulatory review in June. Mr. Pannell stated that TDEC approval for the Year 9 Annual Report was received on 5 March and that report was in review at EPA. Ms. Lloyd stated EPA would provide comments soon.

Ms. Hutton asked if there has been any decrease in contaminant concentration since installation of the five additional AS wells. Mr. Pannell responded that the evaluation has not been done yet, but it will be part of the Semi-Annual Report. (Note: The semi-annual report will evaluate mass removal based on effluent sample results through January 2021 and a figure showing October 2020 groundwater concentrations. The effect of the new AS wells will be clearer after April 2021 samples are collected and reported in the Year 10 annual report). Ms. Roebuck said she would provide the latest Long-Term Monitoring (LTM) Report to Mr. Pannell. Mr. Holmes said that the trichloroethylene (TCE) concentration in MW-159, located near the new AS wells, decreased from about 90 micrograms per liter ($\mu\text{g/L}$) in May 2020 to near 70 $\mu\text{g/L}$ in the October 2020 sample. Mr. Holmes noted the October sample was collected only a week or two after the new AS wells began operating and that he expects the upcoming April sample to show a continued decrease.

Ms. Lloyd suggested that as part of the FS, the team should look at the contaminant migration that is going off the MI. She would like to see if there is a way that could be reduced as a proactive measure before the contamination gets to the surrounding neighborhood. Ms. Hutton requested clarification, asking if Ms. Lloyd meant that the medium would be VI and would be offsite migration from DDMT. Ms. Lloyd said she hopes that it is something that will be looked into before it becomes a problem, as prevention is easier than addressing it afterward. She suggested looking into concentrations at the edge of the site where it is migrating into the neighborhood. Mr. Woods suggested that a soil gas survey of the perimeter would answer that question, and he theorized that much of that work had already been done. Mr. Holmes stated that the VI CSM presents the initial plan for screening samples with some locations near the boundary. Mr. Holmes noted that a sampling plan will be prepared after VI CSM comments are received. Mr. Holmes stated LTM reports show groundwater flow in the Fluvial Deposits Aquifer onto the MI from all directions and that offsite plumes coming onto the MI have been identified.

Ms. Roebuck asked Mr. Holmes what offsite areas could have VI issues due to groundwater contamination leaving DDMT. Mr. Holmes answered that the groundwater contamination leaving the MI is restricted to CVOCs at relatively low concentrations in the Intermediate Aquifer (IAQ) near the northwest corner of the MI. Mr. Holmes noted that the IAQ is deeper than the Fluvial Deposits Aquifer. Ms. Roebuck stated that it

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would be less likely to pose VI issues since the contamination is in the IAQ and not the FDAQ.

Offsite Investigations

Offsite Groundwater Investigation (OSI)

Mr. Holmes stated that the responses to EPA and TDEC comments regarding the Offsite Well Installation and Sampling Report were submitted 21 December.

Mr. Holmes said the call summary for the 8 December OSI Review videoconference was submitted in early February for review and comment.

Mr. Holmes stated that HDR is working on the draft second quarter data report for the OSI and expects to submit it for internal review this week. Mr. Holmes noted that third quarter sampling will occur in April concurrent with LTM sampling, and the final OSI sample event will occur in July 2021. Mr. Holmes said that after the July sampling, a complete report will be prepared for the OSI once the July sample results are available.

MW-87 Area Investigation

Mr. Holmes stated that the MW-87 Area Investigation Report with the Human Health Risk Assessment was submitted to EPA and TDEC on 26 February. Mr. Holmes said that soil contamination was found in two borings, and HDR is preparing for additional sampling to delineate that contamination.

OTHER ISSUES

Mr. Holmes stated that the 2021 Site Management Plan (SMP), Rev 0 was submitted to EPA and TDEC on 22 February.

Mr. Holmes stated that there were three calls on the Community Information Line in February. Two calls were requests to add names to the EnviroNews mailing list. The third call was from a resident on Glory Circle inquiring about the groundwater results.

Ms. Hutton emailed the updated Submittal Schedule with the agenda for this meeting.

Upcoming Fieldwork

Contractor	Activity	Dates
KGS/Trinity	AS/SVE Y10 Monitoring, Q3 Sample	13 April 2021
HDR	April 2021 LTM/OSI Q3 Sample Event	14-23 April 2021
HDR	SVE Pilot Test Extension Startup	19 April 2021

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Prioritized List of Documents for Regulatory Review

1. OSI Well Installation and Sampling Report (EPA and TDEC) (submitted 21 December 2020)
2. Off Depot Air Sparge/Soil Vapor Extraction System Annual Operations Report, Year Nine (EPA) (submitted 21 December 2020)
3. Vapor Intrusion Conceptual Site Model (EPA and TDEC) (submitted 30 December 2020)
4. Responses to EPA Comments on 2020 Annual Site Inspection Report (submitted 2 February 2021)
5. Responses to EPA Comments on 2020 Supplemental Remedial Investigation Report, September 2020 (submitted 16 February 2021)
6. Responses to EPA Comments on May 2020 LTM Summary Report, October 2020 (submitted 2 March 2021)

Documents Requiring Army Revision or Responses to Agency Comments

None.

Next Meeting

The next call will be Tuesday, 13 April at 10:30 AM EDT and 9:30 AM CDT. The dial-in number will be 800-207-9558, with access code 2049034#.