

Meeting Notes

Title Former Communications Site FFA Meeting
Ft Wainwright Federal Facilities Agreement Meeting

Date 01/10/2008 08:30 – 15:00

Location Denali Conference Room, Jacobs, 4300 B Street Anchorage

Attendees

Jeremy Blei	CH2MHill
Tim Gould	CH2MHill
Cory Hinds	CH2MHill
Marilyn Gauthier	CH2MHill
Dennis Shelton	CH2MHill
Vivian Tokar	CH2MHill
Larry Acomb	Geo Sphere
Franki J Jewell	Techlaw
Theresse Deardroff	USAG Alaska
Jack Gusmano	US EPA
Marty Brewer	ADEC
Gloria Beckman	OASIS
Guy Warren	ADEC
Joe Malen	Army FWA
Joe King	Army Environmental CMD
Bob Brock	USACE
Cristel Fosbrook	US Army Alaska
Juliana Grant	ATSDR
Earl Crapps	ADEC
Sharon Richmond	ADEC
Terry Heikkila	Jacobs
Alex Thomas	Jacobs
Jillian Ladegard	Jacobs

Called in:

Dave Frandson (PM)	Jacobs
Karel Detterman (AM)	TechLaw
Tom Hall (AM)	TechLaw

Meeting Notes, hand outs and copies of presentations available on ftp site:

<ftp://USACE2:Taku@ftp.ch2m.com/taku>

CH2MHill -2007 Field Activities and Results

Presented by : Vivian Tokar, Jeremy Blei and Dennis Shelton

Handouts provided:

- Copy of presentation
- Enlarged maps of soil gas detects of Benzene, 1,24-trimethylbenzene, xylene, trichloroethene, tetrachloroethene and chloroform

Main Topics of Discussion:

- Sound Berm Sampling
- Soil Pile Sampling
- Soil Gas Sampling
- Drainage Swale Sediment Sampling
- Monitoring Wells
 - Soil Sampling
 - Groundwater Sampling
- Project Path Forward

Sound Berm Sampling:

Sound Bern sampled using Multi Incremental Sampling methodology

2 decision units above EPA Screening Level of 0.015 mg/kg

- DB04 Benzo (a) Pyrene 0.03 mg/kg
- DB06 Benzo (a) Pyrene 0.029 mg/kg

Risk assessment – BAP concentrations slightly exceed 10⁻⁶ criteria but not 10⁻⁵ – therefore no unacceptable risk.

CH2MHill Recommended no further action at the sound berm.

Action Item: Marty Brewer (ADEC) requested that CH2MHill adjust MI results for RSD (representativeness)

Soil Pile Sampling

47 Soil Piles

At 06SP06 one discrete sample exceeded landfill criteria (ADEC Table B1) for diesel.

Soil Piles within PCB exclusion zone removed to Ft Wainwright Landfill.

CH2MHill recommended that field screening be performed to delineate hot spot in 06SP06 and then selective removal of soil exceeding criteria.

Further work would also included the removal of the remainder of 06SP06 to landfill and the removal of other of soil piles to landfill

Action Item: Marty Brewer (ADEC) requested that CH2MHill adjust MI results for RSD (representativeness)

Discussion over location of soil piles outside of site fence.

Cristal Fosbrook noted that concentrations match screening performed by Waterson Construction at time of creation of soil piles.

Soil Gas Sampling

Two methods used:

- 49 open area samples (taken 6ft below grade)
- 110 Sub-slab samples

Samples compared to EPA region VI ambient Air x10

Several Maps displaying results for Benzene,1,2,4- Trimethylbenzene, Xylenes (total), Trichloethene, tetrachloroethene and chloroform presented to group.

Sub slab sampling performed on left and right side of buildings at different times.

Discussion between group over whether there were differences between the left and right side and whether they were relevant – CH2MHill risk assessment not yet complete.

Preliminary Johnson Energer model results (default residential worse case scenario) indicated multi- chemical/multi media risk are all below cumulative risk of 10-5 for specific pathway.

Marty Brewer (ADEC) noted only one pathway represented by soil gas sampling

Elevated detection limits due to presence of non-target analytes – Freon 142b and 141b required dilution of 85 samples.

Question: Crystal Fosbrook (US Army) – Did CH2MHill investigate the Freon distribution across the site? Further analysis of the Freons is being undertaken by CH2MHill

Question: Marty Brewer – was additional TIC analysis undertaken?
TIC analysis was undertaken according to agreed management plan and amendments

Crystal Fosbrook (US Army) noted that additional investigation will be required in the potential drum storage area.

Next Steps in Soil Gas Sampling: Continue Preliminary Risk Screening Evaluation and Support Evaluation of nature and extent of contamination (in conjunction with soil and groundwater results)

CH2MHill explained field screening colors in detections figures – discussion between group over how to present data in final report.

Army requested that Non Detects be presented in at least one figure

Drainage Swale Sampling

Objective to evaluate whether runoff exiting the FCS might present an ecological risk to surface water receptors in the Chena River.

DRO, RRO, Metals, Pesticides, VOC and SVOCs detected. Additional results pending.

Discussion between group over proximity of drainage swale to School Age Services. It was noted that SAS is fenced and children are always fully supervised.

Monitoring Wells (Soil borings and soil samples ad groundwater sampling)

Hydrogeological Modeling to evaluate aquifer permeability. Pump test analysis and model performed to confirm capture zone model is correct for FCS.

Approximately 20% complete – completion pending groundwater sample results.

Discussion over whether additional housing increases loading on aquifer. Crystal Fosbrook and Joe Mallen noted that other larger recently built housing on Ft Wainwright does not significantly increase load on aquifer.

Results to date show BAP Chloroform and Arsenic above EPA region 6 PRG screening values. (Arsenic also screened against USACE '94 background 16.63 mg/kg no results exceeded this screening value)

Manganese and Arsenic in groundwater above screening groundwater screening values in MW 13, MW 18 and MW32. (Arsenic also screened against USACE '94 background 77.3 ug/l no results exceeded this screening value)

Remaining Sample Results

ETA from the lab – 1/18/2008

ECD for DV – 2/8/2008

Monitoring Well – Next Steps Soil Results

- Support Evaluation of nature and extent of contamination (in conjunction with soil and soil gas)
- Screen results against EPA Region 6 Residential screening values (except for DRO, GRO and RRO: use ADEC screening criteria) for direct contact with soil to identify COPCs
- Identify potential data gaps.

Monitoring Well – Next Steps Groundwater Results

- Support evaluation of nature and extent of contamination (in conjunction with soil and gas)
- Identify wells inside updated capture zone
- Screen all groundwater data against EPA Region 6 Tap Water Screening levels to identify COPCs
- Identify data gaps

Confirmation Sampling

Majority of results from Building 49 and limited building 48 results have been received so far. Remaining results pending. None of the results received so far exceed EPA Region VI screening values

Remaining sample results

ETA from lab 1/15/08

ECD for DV 1/31/08

Discussion between group over sampling of clean soil prior to backfilling. Material not assumed dirty. Bob Brock and Terry Heikkila noted that issue previously discussed and amended in work plan, sampling of clean overburden not required as screening undertaken during remedial investigation.

PCB Investigation

With the exception of 2 areas all confirmation samples below 1 mg/kg

Next Steps

Any results exceeding screening levels will be included in the risk assessment.

2 areas in PCB require further attention in 2008

Project Path Forward

- Field Data Report (February 15 2008)

- Preliminary Risk Screening Evaluation (March 17 2008)
- MEC Hazard Assessment (March 17 2008)
- Spring 2008 Groundwater Monitoring Event (May 2008)
- Fall 2008 Groundwater Monitoring Event and Decommissioning of Temporary MWs (October 2008)
- Draft RI Report and Risk Assessment (1st Qtr 2009)

Discussion between Cristel Fosbrok, CH2MHill and Larry Acomp over groundwater monitoring. During remaining monitoring events do all wells need to be analyzed – can the wells that did not record any detections be removed from the monitoring events? Agreed - Yes if wells are not down gradient of sources or relevant to capture zone.

Jacobs - Remedial Investigation FCS Ft Wainwright

Presented by: Terry Heikkila

Handouts Provided:

- Copy of presentation
- Maps showing location of DMM/MD items at buildings 24,22,15/17 and 48
- Summary table of all DMM/MD items found at FCS

Main Topics Discussed:

- Introduction/Scope of Work
- Remedial Investigation at Building 49
- Remedial Investigation at Building 48
- Remedial Investigation at Buildings 15/17
- Remedial Investigation at all monitoring well sites
- PCB Exclusion Zone Remedial Investigation
- Soil Pile Investigation
- Proposed 2008 Field Activity

Remedial Investigation at Building 49

4,500 square feet excavated 186 drums removed (11 containing either tar or degraded fuel, 30 contained residual amounts of tar material. No MEC items recovered.

30 cy of contaminated soil removed and stockpiled.

Remedial Investigation Building 48

32,000 square feet excavated, 159 drums removed (5 partially intact containing material remainder crushed and empty), 20 DMM and MD items removed, 150 cy of contaminated soil

Remedial Investigation Building 15, 17

9,400 square feet (approximately 40% complete) excavated plus 3 test pits, 9 items of DMM and 251 items of MD, 3cy of contaminated soil.

Remedial Investigation Monitoring well sites

MD found during well installation adjacent to building 24, DMM also found at surface of building 22.

PCB Exclusion Zone Remedial Investigation

1,167 tons > 50 mg/kg PCB soil disposed of at Columbia Waste Management Oregon

690 tons 10-50 mg/kg PCB soil removed and disposed in Columbia Recycling and Landfill Oregon

1800 cy of 1-10 mg/kg PCB soil excavated and stockpiled

2 remaining area of PCB contamination east of steam line (9.2 mg/kg) and south of glycol line (1.4 mg/kg)

Soil Pile Investigation

Pre –existing soil piles removed from PCB exclusion zone area and removed to Ft Wainwright landfill. All sample results less than 1 mg/kg. 5082 tons of soil removed.

Proposed 2008 Field Activities

- Completion of RI at building 15/17
- Action Item – During remedial investigation completion at building 15 remedial investigation should continue north past current fence line to extent of geophysical survey.
- Backfilling of excavation at Building 48
- RI activities at Building 22
- Removal of PCB contaminated soil at 2 remaining sites
- Removal of stockpile soil generated during the 2007 RI.

Action Item – Bob Brock Requested that MEC handouts and Maps to be placed on ftp site (completed)

Discussion between group over Acetylene tank disposal. Not disposed of by EOD due to perceived EPA concerns.

Discussion of origin of various DMM items (8 inch projectiles). Army and Navy items appear be located in separate areas in accordance with the history of the site.

Action Item – Crystal Fosbrook requested Jacobs Provide a CD showing pictures of all recovered MEC and nomenclature of items.

Action Item – Bob Brock requested Jacobs provide copies of all photographs taken during 2007 field activities and to provide descriptions

Action Item – Bob Brock requested Jacobs provide coordinates of DMM/MD.