

**Final
Hazardous and Toxic Waste (HTW) Base Realignment
and Closure (BRAC) Cleanup Team (BCT)**



Meeting Minutes

March 14, 2019

BRAC Conference Room
Former Fort Ord, California

Agenda

Reference the handout titled "HTW BRAC Cleanup Team Meeting Agenda, Friday March 14, 2019 at 1:30 PM, Former Fort Ord, California."

1. Attendance

Last Name	First Name	Organization	By Phone
Anderson	Thor	Burleson Consulting	
Arsov	Vlado	California Department of Toxic Substances Control (DTSC)	
Balch	Duane	U.S. Army Corps of Engineers (USACE)	
Broadston	Melissa	Chenega supporting BRAC	
Canham	Haley	USACE	X
Caruso	Erin	Gilbane	X
Clancy	Maeve	U.S. Environmental Protection Agency (USEPA)	X
Collins	Bill	Fort Ord BRAC	
Fenton	Jeff	Wood Environment & Infrastructure Solutions, Inc. (Wood.)	X
Floyd	Bridget	USACE	X
Gentry	Dana	USACE	X
Gettmann	Kim	DTSC	X
Ghigliotto	Tom	Chenega	
Kan	Alex	USACE	
Lieberman	Derek	Ahtna	X
Meakes	Charity	USACE	X
Savage	Tom	USACE	X
Schmidt	Eric	Ahtna	
Sellinger	Amber	California Regional Water Quality Control Board, Central Coast Region (CCRWQCB)	X
Soderberg	Shelia	CCRWQCB	X
Stiebel	Cary	Chenega supporting BRAC	
Wu	Min	DTSC	X

2. BCT Minutes Status

Hazardous and Toxic Waste (HTW) Base Realignment and Closure (BRAC) Cleanup Team (BCT) meeting minutes are final through January 2019.

3. Community Outreach Update

The handout titled “U.S. Army Community Outreach Update” was reviewed. Additional discussion included:

- Letters to be sent to Mike Weaver and LeVonne Stone to see if they want to continue to receive documents
- Thanks to BCT for Installation Action Plan review. Document is available on website on factsheets section: http://docs.fortordcleanup.com/ar_pdfs/factsheets/02-02/
- May 4th nature walk. Route for long walk not yet determined.
- A number of comment letters have been received from Mike Weaver.

4. Operable Unit 2 (OU2)

a. Groundwater Remedy/Monitoring–

The handout titled “Former Fort Ord Operable Unit 2 Data and Status” was reviewed. Additional discussion included:

- The transition period for the new Operable Unit 2 (OU2) groundwater treatment plant (GWTP) began October 12, 2018. The new OU2 GWTP statistics are now being reported. The OU2 GWTP had close to 100 percent operability in the month of February.
- Table 2 – Analytical results for the injection point of compliance at the new GWTP. All samples came back not detected for 11 chemicals of concern (COCs).
- Completed weekly startup sampling as of February 20. Now will implement process sampling schedule identified in Worksheet #17 of the groundwater quality assurance project plan (QAPP).
- Next set of samples at GWTP will be collected March 20.
- Key events for March – First Quarter 2019 groundwater monitoring (GWM) event was completed including resampling for PFOA/PFOS. No analytical results have been received yet.
- Decommissioning of old GWTP anticipated to start on March 18.
- JV is working on getting western extraction well network connected to the groundwater treatment system, which includes connection of EW-OU2-09-A.
- Tables 3-5 data already presented at previous BCT meeting.
- Draft Fourth Quarter plume contours presented are similar to what is going to be presented in the Third Quarter/Annual Report.
- Changes to note: Revised extent of the trichloroethene (TCE) plume in the Upper 180-Foot Aquifer, and green arrows were added to indicate groundwater flow direction.

b. Treated Water Reuse – No treated water was used recently. No treated water will be used at the new OU2 GWTP until after the Government accepts the GWTP from the JV.

c. Groundwater Treatment Plant Relocation – Construction of the new OU2 GWTP is in progress. The following items were discussed:

- Contractor is finalizing punch list items for the plumbing, electrical, fire alarms, etc.
- Concrete was placed for the driveway.
- Asphalt will be placed soon.
- Still working on western extraction well network; completion is a few weeks out with the beneficial occupancy date (BOD) expected in April. The JV is continuing to do testing.
- The BOD for the new GWTP is expected at the end of March or early April.

- The JV is working on finalizing demolition plan for old GWTP. Demolition will occur sometime in the next couple of months.

d. Landfills Operations and Maintenance (O&M) – The handout titled “Former Fort Ord Operable Unit 2 Landfills Data and Status” was reviewed. Additional discussion included:

- Landfill is being monitored for erosion. Some has been observed on Northern Area F and Area E.
- 2019 Q1 completed, data is normal.
- Methane concentrations at the TTU influent have been more stable recently, representing a good balance between Landfills methane generation and the rate of extraction.

5. Sites 2 and 12 (Sites 2/12)

The handout titled “Former Fort Ord Sites 2 and 12 Data and Status” was reviewed. Additional discussion included:

- GWTP percent operability is increasing due to restoration of the Supervisory Control and Data Acquisition (SCADA) connection.
- Soil vapor extraction (SVE) and treatment system was shut down on February 11 for a rebound study.
- One sample was collected at injection point of compliance and all COCs were not detected.
- Key Events (February):
 - First Quarter 2019 soil gas probe sampling. Some results have been received (not all yet) that have shown that two SVE wells located in the groundwater plume area were both not-detected for both TCE and tetrachloroethene (PCE); and
 - Some surrounding soil gas probes had slight increases in TCE/PCE concentrations, but are still an order of magnitude below the soil gas cleanup/screening levels. There is one more quarter of rebound study to go.
- March – First Quarter 2019 GWM event at Sites 2/12 was completed and troubleshooting the SCADA communication issues between 2/12 and OU2 systems continued.

6. Operable Unit Carbon Tetrachloride Plume (OUCTP)

a. Groundwater Remedy/Monitoring–

The handout titled “Former Fort Ord Operable Unit Carbon Tetrachloride Plume Data and Status” was reviewed. Additional discussion included:

- February 8 – removed sub-slab probe in Lexington Court garage, backfilled and cemented.
- February 27 – completed survey of new monitoring well MW-BW-94-AR. This was the replacement well for MW-BW-94-A. New well was screened above the SVA from 60 to 90 feet below ground surface, and has water in it. This well was sampled as part of the First Quarter 2019 GWM event, but no results have been received yet.
- Table 1 – This is the same table that was presented at the last BCT meeting, and was used to determine which wells in enhanced in situ bioremediation (EISB) Deployment Area 3A would continue to be monitored and on what schedule (quarterly/annually). The schedule was implemented for the First Quarter 2019 GWM event.
- Map of EISB Deployment Area 3A – Fourth Quarter 2018 is the last quarter of long-term monitoring. Wells that will continue to be monitored will be rolled into the quarterly GWM program. The map of EISB Deployment Area 3A will not be included in quarterly reports going forward, just the general A-Aquifer carbon tetrachloride (CT) plume map.
- The Fourth Quarter 2018 GWM results for newly installed monitoring wells were discussed:
 - MW-BW-93-A had a detection of CT below the ACL.

- MW-BW-95-A had a CT detection above the ACL, which will expand the plume to the north as seen in the presented figure.
- Map of CT plume contour in the Lower 180-Foot Aquifer is similar to previous quarters, but with a minor difference: new monitoring well MW-BW-59-180 to the southwest has several analytical results for TCE that exceed the maximum contaminant level (MCL). This well was profiled with four passive diffusion bags.
- Amber Sellinger (CCRWQCB) suggested it would be helpful to have a separate table with the latest TCE concentrations in some key wells to help track TCE in the Lower 180-Foot Aquifer and she could send a list of wells she is looking at. This list would be slightly different than the one in Table 4 from the handout. Ms. Sellinger noted there is a monitoring well screened in the 400-Foot Aquifer next to new well MW-BW-59-180 and the last time it was sampled was 2001, so it might be good idea to sample it again. It was noted this 400-Foot Aquifer well is likely MW-OU2-28-400.
- Maeve Clancy (USEPA) agreed with Amber Sellinger's recommendations and asked Derek Lieberman (Ahtna) his thoughts on why this might be occurring. Mr. Lieberman noted:
 - Looking at Page 8 of the handout, which is Figure 9 from Fourth Quarter GWM report, the CT plume in the Lower 180-Foot Aquifer is suspected to be coming directly from the Upper 180-Foot Aquifer because of the discontinuity in the Intermediate 180-Foot Aquitard in that location.
 - Boring logs have been reviewed across that area. A preliminary assessment indicates there is a "Swiss cheese" effect with multiple discontinuities in the aquitard. Not only is CT migrating through the aquitard in the north, but there are some discontinuities in the south that result in TCE from OU2 entering the Lower 180-Foot Aquifer also.
 - TCE is not listed as a COC for the Lower 180-Foot Aquifer in the OUCTP ROD, there might be an administrative fix if TCE continues to show up at concentrations exceeding the MCL.
- Amber Sellinger (CCRWQCB) did not think TCE in the Lower 180-Foot Aquifer should be part of OUCTP as her historical review has shown that TCE is coming from the OU2 Landfills, but at concentrations below the ACL in the Lower 180-Foot Aquifer and it was left out because of that.
- Maeve Clancy (USEPA) suggested that, instead of modifying the OUCTP ROD maybe go back to OU2 ROD. For now she is comfortable monitoring and seeing how things go, but it is definitely something that should be addressed in the next 5-year review.
- Steve Sterling (DTSC) agreed with sampling the 400-Foot Aquifer well (MW-OU2-28-400).
- Alex Kan (USACE) agreed to sample MW-OU2-28-400.
- Bill Collins (Fort Ord BRAC) and Alex Kan (USACE) will discuss applicability of the OU2 and OUCTP decision documents.

7. Basewide Range Assessment (BRA) and Lead Evaluation Status

The handout titled "BRA and Lead Evaluation Status" was reviewed. Additional discussion included:

a. Basewide Range Assessment (BRA) –

- Army comments are being resolved on the Draft Final Tech Memo for Units 1, 2, 7, 10, 33, and Watkins Gate Burn Area. Mostly that will involve adding information about the plan for remedial action in Unit 33.
- Draft Final Sampling Results Report for Units 25 and 28 – DTSC and USEPA had no comments on this report. Responding to Mike Weaver's comments.
- Working with Army on sections of the comprehensive BRA Report that address HAs.

- A site recon was conducted in January in BLM Area B and Kemron is working to provide to the Army a description of the findings and turn around later for regulatory agency review.

b. Lead Evaluation at HA 18D and HA 23D –

Still looking to meet with DTSC in the near future to discuss the cleanup value so the ESD can be prepared for the various RODs that are involved.

Kim Gettmann (DTSC) has not been able to meet with the Office of Environmental Health Hazard Assessment (OEHHA). She has reached out to them, but they are still looking at it. They have not set a time to meet yet because they are waiting for OEHHA to come up with their conclusions and recommendations. Once DTSC knows something they will provide an update.

Bill Collins (Fort Ord BRAC) added that, under the ESCA, FORA is preparing documentation for the transfer of the property that includes HA18D and HA23D. That transfer will identify any use restrictions related to munitions. However, the Army is also in the process of contracting a surveyor to survey out the portions of HA18D and HA23D requiring remediation so when the Army modifies the deed for property they can retain the residential use restriction until such time remediation is complete. This is going on concurrently with the FORA property disposal process.

c. Erosion Control –

Site 39 and HAs are being monitored for erosion issues.

d. Landfills Soil Management –

A table, figure, and photographs were provided updating building demolition activities.

e. Habitat Restoration – The handout titled “Site 39 Inland Ranges Habitat Restoration Status Update” was reviewed. Additional discussion included:

Planting has been completed for the year. Just short of 8000 plants have been installed at 10 different HAs. Majority of that work was at HA26 and HA34. HA26 received about 2500 plants, and HA34 received about 4200 plants. There is still future planting for these HAs and Burleson is approaching the restoration prescription targets for those sites.

600 plants have been put in at HA28. This site required additional planting because of an erosion control fix. That site is complete.

HA18-48 – Small numbers of plants were installed. These are sites that were deficient in a particular species and planting ensures the sites have the required diversity.

Burleson is currently working on erosion control. They have been monitoring and maintaining lots of minor fixes within the restoration areas. Anticipate this will be the last month of any significant repairs (unless there are more rains).

The native plant nursery has a nice healthy cutting inventory. This includes approximately 2000 “hard to grow” shrubs. The greenhouse is full of these cuttings and Burleson believes they will meet their cutting targets.

Burleson is wrapping up the annual report and preparing for the annual U.S. Fish and Wildlife Service (USFWS) meeting where they will report the status of restoration of all 19 HAs on March 27. Burleson indicated they were approximately 80% complete with the site restoration prescriptions outlined in the Site Specific Restoration Plans (SSRPs).

8. FFA Schedule

Status Update – The Federal Facility Agreement (FFA) schedule is provided to the agencies with the upcoming primary documents with the month the Draft and Draft Final versions will be issued. Draft versions have a 60-day review period and Draft Final versions have a 30-day review period. There are no primary documents currently.

Document Schedule – The handout titled “14 March 2019 HTW BCT Deliverable Schedule” was reviewed and near-term documents were identified.

- Several comments have been received from Mike Weaver. Army will prepare responses and submit to the agencies for their review before sending to Mike Weaver.
- Amber Sellinger (CCRWQCB) commented on the Sites 2/12 Annual Report. In the report there is monitoring well, soil gas probe, and extraction well recommendations for decommissioning. She was curious whether there would be a follow up with them. Alex indicated there would be a follow up if the Army decides to proceed with decommissioning; these are just recommendations in the report.
- Ahtna asked USEPA (Maevie Clancy) whether she received the Landfills O&M Plan. It was not on the list of deferred documents (to DTSC/Water Board). She said to add to the list of deferred documents. There was a problem with Amber Sellinger (CCRWQCB) receiving the document, so Ahtna was checking with USEPA.

9. Action Items

The handout titled “HTW BCT 2019 Action Items” was reviewed.

For action item #1, no update.

For action item #2, Alex Kan (USACE) stated that, if Bill Collins (Fort Ord BRAC) was amenable, they will update the description for complete delisting of the entire Fort Ord. Bill agreed. Alex stated they will get something to Bill in April.

For action item #3, ongoing.

For action item #4, still in the process of updating the comprehensive report.

For action item #5, concurrence of the SVE and treatment system shutdown was discussed in the Sites 2/12 presentation, which has been completed.

For action item #6, proposed new monitoring frequency of EISB Deployment Area 3A wells has been implemented.

For action item #7, DTSC and OEHA discussion is still ongoing.

For action item #8, response to Mike Weaver’s comments on Landfill QAPP was completed on 2/5/2019. Additional comment letters from Mr. Weaver have been received.

10. Calendar Update

The USFWS meeting is scheduled for March 27. The April HTW BCT meeting is scheduled for April 10 at 1:30 pm. The nature walk is May 4 starting at 10am. The May HTW BCT is May 15 at 1:30 pm.