



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



Meeting Minutes

August 21, 2019

BRAC Conference Room
Former Fort Ord, California

Agenda

Reference the handout titled "HTW BCT Meeting Agenda, Wednesday, August 21, 2019 at 1:30 PM, Former Fort Ord, California."

1. Attendance

Last Name	First Name	Organization	By Phone
Anderson	Thor	Burleson Consulting	
Balch	Duane	U.S. Army Corps of Engineers (USACE)	
Bleichner	Randall	California Department of Toxic Substances Control (DTSC)	
Broadston	Melissa	Chenega supporting BRAC	
Caruso	Erin	Gilbane	X
Clancy	Maeve	U.S. Environmental Protection Agency (USEPA)	X
Collins	Bill	U.S. Army BRAC, Fort Ord Office	
Crane	Steve	KEMRON Environmental Services (KEMRON)	
Dillon	Holly	Ahtna Global, LLC. (Ahtna)	
Gentry	Dana	USACE	X
Gettmann	Kimberly	DTSC	X
Ghigliotto	Tom	Chenega supporting BRAC	
Kan	Alex	USACE	
Kochman	Aaron	Chenega for BRAC	
Lieberman	Derek	Ahtna	
Savage	Tom	USACE	
Shrum	Noel	DTSC	
Sellinger	Amber	California Regional Water Quality Control Board, Central Coast Region (CCRWQCB)	X
Soderberg	Sheila	CCRWQCB	X
Sterling	Steve	DTSC	
Stiebel	Cary	Chenega supporting BRAC	

2. BCT Minutes Status

HTW BRAC Cleanup Team (BCT) meeting minutes are final through July.

3. Community Outreach Update

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

- The Annual Report is now available online at www.fortordcleanup.com. The Annual Report will be sent by mail next week to approximately 65,000 addresses.

- The Community Involvement Mobile Workshop (CIW) held on July 13 was well attended with over 200 participants and focused on munitions, prescribed burn program, and habitat restoration. Five buses were used and took the same route as last year.
- The Technical Review Committee (TRC) meeting held on July 16 was attended by three people.
- The semi-annual letter was sent to nearby schools offering munitions safety presentations. An annual letter will also be sent to local contractors offering munitions training.
- A munitions safety presentation was held for approximately 240 participants at York School.
- There is no prescribed burn this year.
- On August 30, a community outreach booth will be set up at the Monterey County Fair.
- On October 26, there will be a community outreach booth will be set up at the National Public Lands Day.
- The biennial Defense and State Memorandum of Agreement (DSMOA) joint execution list includes a big picture of tasks. After the meeting, it will be drafted and sent for DTSC and RWQCB approval, for finalization on October 5.
- Steve Sterling with DTSC is leaving the Fort Ord program. This is his last HTW BCT meeting. Steve's replacement is Randall Bleichner, a Professional Geologist with DTSC.

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 OU2 groundwater treatment plant (GWTP) was online 98 percent of the time in July.
- A total of 860 pounds of chemicals of concern (COCs) have been removed since 1995, which includes both the old and the new OU2 GWTPs.
- No COCs were detected at the OU2 injection point of compliance in July except for 1,1-dichloroethane with an estimated detection below the discharge limit.
- There were a couple minor issues at the OU2 GWTP in July, which were remedied. These included supervisory control and data acquisition (SCADA) issues and a leak at EW-OU2-18-A.
- A variable frequency drive (VFD) faulted at EW-OU2-12-180 and troubleshooting is in progress.
- The Third Quarter 2019 annual groundwater monitoring event is scheduled to begin next week on August 26.
- The Western Network remains offline.
- Ahtna is operating the OU2 GWTP on behalf of the Army.

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. When the Army accepts the GWTP, they will work with Bureson to provide treated water for irrigation. There is a temporary fitting available to collect treated water. A permanent fitting with a flow meter will be installed at a later time to track treated water usage. Treated water would also be used for erosion control at the Landfills.

c. Groundwater Treatment Plant Relocation – Construction of the new OU2 GWTP is complete and it has been operational since November 30, 2018. Final tasks are being completed, including connection of the western network extraction wells. The following items were discussed:

- The Pre-Final inspection was conducted last month and a punch list of items will be completed soon.
- The western network still needs to be brought online, including work to be done on the leak detection system. The new pumps at extraction wells EW-OU2-05-A and EW-OU2-06-A were clogged with rust. The wells will be redeveloped, video logged, and pumps replaced next month.

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:

- A photo on the handout shows OU2 Landfills Area F last month when it was uncovered to re-level the landfill gas header pipe, which is conducted every few years as needed. With landfill settlement the pipe develops low spots and condensate will accumulate and reduce the amount of landfill gas being extracted. Approximately 200 gallons of condensate was removed from the pipe.
- Landfills erosion repairs were completed last month, including repairing Area F, leveling the landfill gas extraction pipeline, and repairing perimeter roads on Area B and Area F. Rolling dips were installed in the Area B and Area F perimeter roads. A drainage swale, fiber rolls, jute netting, reseeding, and mulch were installed in Area F and watering was conducted. Soil and mulch were from onsite sources and not imported.
- The thermal treatment unit (TTU) is operating normally, approximately 70 hours every two weeks. At this rate, methane is extracted at a rate approximately the same as the rate it is generated by buried waste so as to introduce ambient air to the subsurface. The landfill gas extraction and treatment system started as a pilot study in 2001 and full-scale operation of the system with the TTU began in 2006. As methane is reduced in the Landfills, the operation time of TTU also incrementally decreases. The TTU treats extracted landfill gas from Areas D, E, and F. The TTU influent methane trend is overall declining with variability due to conditions such as barometric pressure. The methane is typically between 36 and 39 percent. The recent decline in methane concentration from Area E will be investigated.
- The Third Quarter 2019 perimeter probe monitoring was completed yesterday, August 20, and there were no unusual results according to Title 27 requirements.
- The Landfills annual reporting period will change this year from a calendar year to a fiscal year, and the annual Landfills report will be combined with the annual groundwater monitoring report to create a single annual report for OU2.
- Bill Collins was approached at the last Fort Ord Reuse Authority (FORA) board meeting by FORA Deputy Director Josh Metz, who received a request from a startup drone company. California State University Monterey Bay (CSUMB) owns a small triangle-shaped piece of undeveloped land adjacent to the OU2 Landfills on the west side. The drone company would like to use the CSUMB land for operators to stage their drones and fly them over the OU2 Landfills. The drone company stated employees could retrieve drones that fall on the Landfills so that clients are not on the Landfills property. There is concern about access causing possible vandalism, impeding Landfills and remediation activities, video and photography from drones, wildfire hazards, and drones discouraging raptor activity, which is part of rodent control at the Landfills. The Landfills are an unirrigated open space, are not going to be residential land, and will eventually be transferred to the County. The drone company has not formed yet, and if such events occurred at CSUMB, they would be occasional and not frequent.

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:

- The picture on the handout shows the night work for the Remedial Investigation conducted six years ago to install additional monitoring wells and soil gas probes.
- The Sites 2/12 GWTP was online 81 percent of the time in July, which is less than the 95 percent operational goal.
- There was a communications loss with extraction well EW-12-08-180U after a power outage and the well could not be restarted. With only one operational well (EW-12-05-180M), it could cause

plume migration under the retail buildings and outside the capture area of EW-12-08-180U. Therefore, on July 16, the Sites 2/12 GWTP was shut down until EW-12-08-180U was repaired on July 22 and the Sites 2/12 GWTP was restarted.

- No sample was required in July for the Sites 2/12 GWTP injection point of compliance because the granular activated carbon was changed out on June 4.
- The Third Quarter 2019 annual groundwater monitoring event is scheduled to begin August 26.
- The Sites 2/12 soil vapor treatment unit (SVTU) remains offline based on data from the rebound study and agreement with the BCT. Each quarter the soil gas data will be evaluated to determine if the SVTU should remain offline or be restarted.
- The Third Quarter 2019 annual soil gas monitoring event was completed today, August 21. Initially, there were 167 soil gas probes monitored, but now it is reduced to less than a dozen probes.

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:

- The Follow-Up Biological Survey Report Draft was issued. A map of the survey area was included in the handout. The survey included monitoring for Monterey gilia, Monterey spineflower, and Yadon’s piperia in Enhanced In Situ Bioremediation (EISB) Deployment Area 3A. Both the old and new reference sites were surveyed.
- UC MBEST has a piece of property next to OUCTP EISB Deployment Area 3A on the market. A buyer in escrow contacted Bill Collins and was concerned about groundwater contamination. The buyer has plans to develop the property within a year. The road used to access EISB Deployment Area 3A is on UC MBEST property (beyond the fence line), though Pacific Gas & Electric (PG&E) and Marina Coast Water District (MCWD) also have an easement, and the Army would still have a right to access. Bill Collins met with the buyer yesterday, August 20. The buyer would purchase 49 acres to develop into subdivided affordable housing. The groundwater Covenants to Restrict Use of Property (CRUPs) and Basin Plan were discussed. The buyer will either move forward with plans or redesign. Amber Sellinger with the CCRWQCB also talked with the buyer and discussed the groundwater prohibition zones. There would be a concern for any unlined stormwater discharge pits. The agencies would be notified within 30 days of sale of the parcel.

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) –

- Responses to DTSC’s comments are in progress for the BRA Units 25 and 28 sampling report.
- Comments are being addressed on the Comprehensive BRA Report and it is close to being submitted. This document will be a large reference report.
- There were no comments on the Draft BLM Area B report, and the final report will be issued soon.

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

The cleanup value is still being discussed between the DTSC and the Office of Environmental Health Hazard Assessment. Kim Gettmann with DTSC said two toxicologists are working on the lead spread model to see how the new data will affect the model.

c. Erosion Control –

A meeting discussing erosion control preparation work was held last week. Historic Area (HA) 34 will be completed tomorrow, August 22, and then will move to HA 26.

d. Landfills Soil Management –

The Range 48 munitions response site is being monitored to determine any need to put debris into the OU2 Landfills in the coming months, though nothing is expected immediately. It is expected there might be one 30-yard bin of pressure-treated lumber in December. The intermediate cover will be seeded.

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

- Continued seed collections for a couple species. The seed for sky lupine was slightly under the target weight and will be made up for next year. All other wet weights look good and it is expected dry weight targets will be met.
- Monitoring is completed, including vegetative cover transects and species richness surveys.
- The irrigation project at HA 26 will complete ten events to bridge the wet seasons for three years in 2018, 2019, and 2020. The sixth irrigation event will occur tomorrow, August 22. One irrigation event is completed every two to three weeks. There was also a low pressure issue, which was remedied with installation of extra valves. No leaks were observed in the irrigation lines. Previously wildlife was chewing the lines.
- Continuing propagation of approximately 3,600 plants and expected to reach targets since the inventory is currently 4,447 plants.

8. FFA Schedule

a. 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.

b. Document Schedule – The handout titled “21 August 2019 BCT Deliverable Schedule” was reviewed and near-term documents were identified. The perfluorooctanoic acid and perfluorooctane sulfate technical summary report is still under internal review and is delayed.

9. Action Items

The handout titled “HTW BCT 2019 Action Items” was reviewed. Action Item #2, the National Priorities List (NPL) partial deletion document is being drafted, and the Draft is due September 13.

10. Calendar Update

The calendar was reviewed for upcoming HTW BCT meeting dates.

- The next HTW BCT meeting is scheduled for September 11 at 1:30 pm.
- The October HTW BCT meeting is scheduled for October 9 at 1:30 pm.
- The November HTW BCT meeting is tentatively scheduled for November 13 at 1:30 pm.