



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



**Meeting Minutes
November 13, 2019**

BRAC Conference Room
Former Fort Ord, California

Agenda

Reference the handout titled "HTW BRAC Cleanup Team Meeting Agenda, Wednesday, November 13, 2019, at 1:30 PM, Former Fort Ord, California."

1. Attendance

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

2. BCT Minutes Status

HTW BCT meeting minutes are final through July with August minutes in draft review.

3. Community Outreach Update

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

- A Fort Ord munitions safety information booth was held at the National Public Lands Day on October 26 for approximately 150 participants, a photo was shared.

- A Fort Ord Cleanup presentation will be held at the Carmel Valley Rotary Club on December 3.
- In preparation for the February 1, 2020 Community Involvement Mobile Workshop (CIW), the fact sheets will be updated in December.
- Response to comments are in progress for Mike Weaver's comments on the Draft Technical Summary Report Perfluorooctanoic Acid and Perfluorooctane Sulfonate (PFOA/PFOS) Basewide Review.

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:

- Since the HTW meetings will be going to a bi-monthly schedule in 2020, the handouts will include more information about future events.
- The OU2 groundwater treatment plant (GWTP) was online approximately 98 percent of the time in October. There were a couple communications losses in October due to high winds and troubleshooting is in progress to stabilize the antennas.
- There were estimated detections of a few chemicals of concern (COCs) at the OU2 injection point of compliance below the discharge limits in October.
- EW-OU2-20-A was restarted on October 28 after being offline for repair of a cracked fitting in the vault. Repairs were completed by the RORE/Gilbane Joint Venture (JV).
- The failed pressure gauge at EW-OU2-02-180R was repaired. The flow meters at EW-OU2-02-180R and EW-OU2-12-180 are not transmitting data to the Supervisory Control and Data Acquisition (SCADA) system.
- On November 4 the OU2 GWTP influent was sampled for 1,2,3-trichloropropane (1,2,3-TCP) at the request of the Central Coast Regional Water Quality Control Board (CCRWQCB). 1,2,3-TCP had never been analyzed for with a detection limit low enough to determine if it is present above the California notification level of 0.005 micrograms per liter ($\mu\text{g/L}$). The results should be available within a week.
- Development in the Sea Haven area will impact five monitoring wells by reducing the casing height by approximately 30 feet. The five wells are not recommended for decommissioning and the Sea Haven contractor will prepare a Work Plan for completing the work around the monitoring wells. The five wells are MW-OU2-05-A (depth to water only), MW-OU2-05-180 (depth to water only), MW-OU2-07-A (annual well), MW-OU2-07-180R (quarterly well), and MW-OU2-07-400 (depth to water only). These wells are located on the boundary between the former Fort Ord and the City of Marina in a future residential development.
- EW-OU2-05-A and EW-OU2-06-A will be redeveloped, video logged, and pumps replaced. Work is expected to be completed the week of December 16, unless the schedule for JV work for the leak detection system in the western network slips. It would not be ideal to have new pumps sitting in the wells for too long without operation.
- After review of the Third Quarter 2019 groundwater monitoring data, there are some groundwater monitoring frequency changes recommended for a few wells based on Quality Assurance Project Plan (QAPP) decision rules. It is recommended that annual well MW-OU2-07-A be increased to quarterly due to an increase in the vinyl chloride and 1,1-dichloroethane concentrations above their aquifer cleanup levels (ACLs). MW-OU2-07-A is located downgradient of MW-OU2-08-A, which had increasing COC concentrations in the past and shows that COCs above the ACL migrated around the northern side of the eastern extraction well network. Two wells are recommend for reducing from quarterly to annual based on decreasing COC concentrations (MW-OU2-34-A and MW-BW-02-180). Recent data and maps of

the well locations were shared.

- Maeve Clancy with the USEPA was ok with the changes.
- Noel Shrum with DTSC asked about the location of MW-BW-02-180 in relation to the plume, which is more apparent in the Annual Reports that it is outside and downgradient of the plume.
- Min Wu with DTSC will review the Annual Reports for any proposed changes and let us know if DTSC has any comments.
- The Annual Reports won't be issued until after the Fourth Quarter 2018 event, but it is ok to wait until the 2020 event to make changes.
- Maeve Clancy with the USEPA inquired about any contingency plans in case of a controlled Pacific Gas & Electric (PG&E) power shut down due to fire risk that is occurring in some parts of California. There are no contingency plans such as bringing in a generator. Typically the controlled PG&E power shut downs have lasted three to four days and notice is given by PG&E prior to the shutdown.

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. Other source of water was removed from the Landfills, there is no metered source. Other water sources have been identified in case of a future water need, though it is not needed currently.

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

- A modification is in progress for work on the leak detection system in the western network. Once the modification is approved, the JV will have to submit a design document for USACE review prior to the start of work. Work is expected to start in January and last 3 to 4 weeks. Work would be completed at the end of January or beginning of February.
- The Landfills low-point leak detection vault work was completed.
- Hydroseeding will be completed November 14-15.

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 photograph was included in the handout of a juvenile bobcat on the Landfills.
- Annual owl box cleaning of approximately 20 boxes was completed. Three boxes were not disturbed because they were occupied. Another three boxes were previously occupied and had debris in them. Cleaning of the occupied boxes will be re-attempted at a later time. During the previous year there were two boxes with owls, so there has been some increase in occupancy. The owls are used as a gopher mitigation measure.
- The Fourth Quarter perimeter probe monitoring was completed this week, no results yet.
- Winterization activities will be completed, including adding best management practices to prevent erosion. The 2019-2020 winter season was predicted to be normal, not an El Niño or La Niña event.
- Methane influent concentration trend at the thermal treatment unit (TTU) has a slightly decreasing trend, which is expected as waste decomposes, but is within the typical 35-37 percent range. Operating hours for the TTU have declined over time. Typically the operating hours were 100 hours every two weeks in 2006. Since then the hours have been reduced to maintain a balance of methane at the influent to limit the ambient air pulled into the Landfills, which is a fire risk, and to limit the need for supplementary fuel. Landfill gas is extracted from Areas D, E, and F. Areas B and C are older, and do not generate enough methane to justify

landfill gas extraction. Area A no longer exists. Methane extraction at Areas D and F have been more consistent over time compared to the more variable Area E. The recent decline in methane to less than 25 percent at Area E was an anomaly due to a valve on the condensate tank that was not adjusted properly. Once the valve was readjusted, the methane returned to normal percentage.

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 Sites 2/12 GWTP was online approximately 98 percent of the time in October, which is above the 95 percent goal. There were a few shut downs related to communications loss at OU2 because the GWTPs are interconnected.
- The injection point of compliance at Sites 2/12 GWTP was sampled in October and had a few low detections of chemicals of concern (COCs) below discharge limits, which are likely from the OU2 GWTP.
- The Soil Vapor Treatment Unit (SVTU) remains offline since February and will continue to remain offline based on a review of the Third Quarter 2019 soil gas monitoring data. The Fourth Quarter 2019 soil gas monitoring event will occur next week.
- The Fourth Quarter 2019 groundwater monitoring event will be completed in December.
- On October 9, fifteen 55-gallon drums of spent carbon were removed by the supplier Evoqua. These were from the GAC underdrain vessel malfunction in 2017.
- Based on review of the Third Quarter 2019 groundwater monitoring results, four annual monitoring wells are recommended for removal from the groundwater monitoring program (MW-02-05-180, MW-12-05-180, MW-12-18-180U, and MW-12-25-180U). These will be presented in the Annual Report for agency review and comment.
- The Draft Third Quarter 2019 plume contour for tetrachloroethene (PCE) was shared. These plumes will be used to update the fact sheets for the CIW in February.
- Meters at the infiltration galleries at Site 2 will be replaced. The meters will help control flow and prevent overflow, since there is more water going to the galleries now from the new OU2 GWTP.

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:

- Communications loss affected operation of OUCTP Upper 180-Foot Aquifer extraction well EW-OU2-09-180 in October.
- The Fourth Quarter 2019 groundwater monitoring event will be completed in December.
- Based on review of the Third Quarter 2019 groundwater monitoring results, twelve wells were recommended for frequency changes in the monitoring program based on QAPP decision rules. The recommendation will be presented in the Annual Report for agency review and comment.
 - Six annual wells are recommended for removal from the groundwater monitoring program: EW-BW-112-A, EW-BW-119-A, EW-BW-150-A, MW-BW-43-A, MW-BW-48-A, and Mini-Storage. The Mini-Storage well has cleaned up and used to be in the northern carbon tetrachloride (CT) plume for the Lower 180-Foot Aquifer and was considered a potential source of CT. Only the Airfield well in the northern Lower 180-Foot Aquifer has intermittent CT concentrations above the ACL.

- Five quarterly wells are recommended for annual monitoring: MW-BW-15-A, MW-BW-42-A, MW-BW-86-A, MP-BW-41-231, and MW-BW-58-180.
- One annual well is recommended for quarterly monitoring: MW-BW-17-A. MW-BW-17-A had an increase in CT concentrations above the ACL.
- For all wells in OU2, Sites 2/12, and OUCTP that are recommended for increased monitoring frequency (e.g., moved from annual to quarterly monitoring), these can be sampled in the Fourth Quarter 2019 event in December without agency review or approval, since they would not have any issues with increased sampling frequency. MW-OU2-07-A and MW-BW-17-A will therefore be sampled in the Fourth Quarter 2019 event.
- Amber Sellinger with the CCRWQCB requests that Annual Reports present COC concentration trends with groundwater elevation data for the wells with recommended sampling frequency changes, since there have been seasons of varying precipitation levels (e.g., droughts and wet years) in the area over the groundwater monitoring events.

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

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

a. BRA –

- The Army will have a meeting on November 22 with DTSC to discuss and resolve the response to DTSC’s comments on the Unit 33 plan.
- The Comprehensive BRA Report is expected to be produced this month after the last Army review.
- The revised final Bureau of Land Management (BLM) Area B report was submitted for agency review, based on DTSC’s requested changes. Maeve Clancy with the USEPA is ok with the changes. Min Wu with DTSC will take a look at the revised final. Once the agencies are ok with the revised final, it will be uploaded to the Administrative Record.

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. The lead evaluation is on hold until DTSC meets. It is not expected that there will be any progress until 2020.

c. Erosion Control –

Fieldwork is completed in preparation for the rainy season. Best management practices will be checked after any rains.

d. Landfills Soil Management –

Landfills soil management is completed.

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

- Seed collection was completed and 11 pounds were collected. The seed is being prepared for mixing and will be broadcasted next month. Production plots are completed and seed will be received soon. Some of the seed will be traded with BLM for equal value seed.
- Plant survivorship is completed, which is done annually for the first three years after planting.
- Fall photo points were completed.
- The 4,500 plants from the nursery will be installed once there is rain, there is none in the two week forecast.

- Minor erosion control activities were completed including filling in rills and replacing worn wattles.
- The irrigation at HA 26 completed event #9 in October and the last #10 event will be completed next week, which was pushed out due to continued dry weather. 3,500 plants were watered with approximately 2 gallons per plant per event. The tanks will be allowed to settle before irrigation so the sediment doesn't clog the emitters.

8. Federal Facility Agreement (FFA) Schedule

Status Update – The 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 “13 November 2019 HTW BCT Deliverable Schedule” was reviewed, and near-term documents were identified. The first three documents (OUCTP EISB Deployment Area 3A Summary Report, PFOA/PFOS Technical Summary Report, and the Landfills QAPP) had an extension for the comment period. The USEPA indicated that there will be extensive comments on the PFOA/PFOS historical review and recommendations.

9. Action Items

The handout titled “HTW BCT 2019 Action Items” was reviewed. The NPL partial deletion is scheduled to be issued at the end of the month. The Sites 2/12 Remedial Action Completion Report to support soil gas deletion from the NPL was discussed. The QAPP Addendum for the soil gas rebound study includes about a dozen probes to be sampled, typically a quarterly soil gas sampling is about 8 probes. The QAPP decision criteria states that COC concentrations between the screening level and cleanup level are monitored annually, and those above the cleanup level are monitored quarterly. The screening level is related to the Human Health Risk Assessment Note 3, and the cleanup level is to prevent partitioning of soil gas COCs into groundwater.

10. Calendar Update

The calendar was reviewed for upcoming HTW BCT meeting dates. There is no HTW BCT meeting in December. The next BCT meeting is on January 31 at 1:30 pm. The CIW is on February 1 starting at 9:00 am. The TRC is on February 4 at 10:00 am. In February, there will only be an MR BCT, not a HTW BCT. The March HTW BCT is on March 18 at 1:30 pm.