



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

**Meeting Minutes**

**March 6, 2018**

CCRWQCB Conference Room  
San Luis Obispo, California



**Agenda**

- 1. Attendance**
- 2. BCT Minutes Status**
- 3. Community Outreach Update**
- 4. Operable Unit 1 (HGL)**
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- 5. Operable Unit 2**
  - a. Groundwater Remedy/Monitoring
  - b. Treated Water Reuse
  - c. Groundwater Treatment Plant Relocation
  - d. Landfills O&M
- 6. Sites 2 and 12**
  - a. Groundwater Remedy/Monitoring
  - b. Soil Gas Monitoring
- 7. Operable Unit Carbon Tetrachloride Plume**
  - a. Groundwater Remedy/Monitoring
- 8. Basewide Range Assessment and Lead Evaluation Status**
  - a. Basewide Range Assessment
  - b. Lead Evaluation at HA 18D and HA 23D
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- 9. FFA Schedule**
  - a. Status Update
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- 10. Action Items**
- 11. Calendar Update**

**1. Attendance**

Last Name	First Name	Company Name	By Phone
<b>Anderson</b>	Thor	Burleson Consulting	
<b>Arsov</b>	Vlado	California Department of Toxic Substances Control (DTSC)	
<b>Broadston</b>	Melissa	Chenega supporting BRAC	
<b>Caruso</b>	Erin	Gilbane	X
<b>Collins</b>	Bill	U.S. Army Base Realignment and Closure (BRAC), Fort Ord Office	
<b>Crane</b>	Steve	KEMRON Environmental Services (KEMRON)	X
<b>Dillon</b>	Holly	Ahtna Environmental, Inc. (Ahtna)	X
<b>Evans</b>	Roy	HydroGeoLogic (HGL)	
<b>Fenton</b>	Jeff	Amec Foster Wheeler	
<b>Floyd</b>	Bridget	U.S. Army Corps of Engineers (USACE)	
<b>Ghigliotto</b>	Tom	Chenega supporting BRAC	X
<b>Hibbits</b>	Betsy	Chenega supporting BRAC	
<b>Himebaugh</b>	Grant	California Regional Water Quality Control Board, Central Coast Region (CCRWQCB)	
<b>Huang</b>	Judy	U.S. Environmental Protection Agency (USEPA)	
<b>Kan</b>	Alex	USACE	
<b>Kowalski</b>	Bart	Chenega supporting BRAC	
<b>Lieberman</b>	Derek	Ahtna	
<b>McNeill</b>	Bonnie	USACE	X
<b>Nozaki</b>	Chieko	Chenega supporting BRAC	
<b>Racca</b>	Roman	DTSC	
<b>Savage</b>	Tom	USACE	
<b>Soderberg</b>	Sheila	CCRWQCB	
<b>Sterling</b>	Steve	DTSC	X
<b>Sumner</b>	Donald	USACE	X
<b>Whipple</b>	Jonathan	USACE	
<b>Wu</b>	Min	DTSC	

**2. BCT Minutes Status**

Basewide Hazardous and Toxic Waste (HTW) Base Realignment and Closure (BRAC) Cleanup Team (BCT) minutes are final through November 2017. Operable Unit 1 (OU-1) HTW BCT minutes are final through February 2018.

**3. Community Outreach Update**

A review of recent community outreach events and upcoming activities was provided.

Long term actions underway include:

- Continue outreach related to munitions cleanup work in the northern portion of the Fort Ord National Monument.
- Evaluate results of 2017 community survey and publish draft analysis report.

Recent activities include:

- On January 16, 2018 issued press release “Former Fort Ord Burn Season Closes”.
- On February 3, 2018 the Community Involvement Mobile Workshop (CIW) open house/bus tour was held. Topics included groundwater cleanup and the landfill for approximately 130 attendees which was record setting attendance.
- On February 6, 2018 the Technical Review Committee (TRC) with the same topics as the February 3 CIW was held for 20 participants which was record setting attendance.
- On February 8, 2018 provided detonation updates and notifications.
- On February 13, 2018 provided munitions safety presentation to Chartwell School for 25 participants.

Upcoming activities include:

- In April 2018 are Cleanup information booths at local Earth Day events including at Presidio of Monterey on April 4 for approximately 1,200 students, faculty, and staff.
- On April 22 to 29, 2018 is the Cleanup information booth at the Sea Otter Classic.
- On May 5, 2018 is the CIW Nature Walk inside the Impact Area. Topics include munitions cleanup, prescribed burns and habitat management.
- In May 2018 (date to be determined [TBD]) is the Cleanup information booth at the Presidio of Monterey (POM) Language Day.
- On July 12, 2018 provide cleanup presentation for the local chapter of the California Native Plant Society meeting. Presentation will emphasize munitions cleanup, prescribed burns and habitat management.
- On July 14, 2018 is the CIW open house/bus tour. Topics include munitions cleanup, prescribed burns, and habitat management.
- On July 17, 2018 is the TRC with the same topics as the July 14 CIW.
- On August 31, 2018 is the Cleanup information booth at the Monterey County Fair.
- In October 2018 (date TBD) is the Fort Ord National Monument National Public Lands Day celebration.

Community comments on munitions and cleanup related documents have been received and responses to comments (RTCs) are in progress. The annual request for community members was sent and response requested by March 31 from Mike Weaver and LeVonne Stone to see if they would still like to receive reports. Last year Mike Weaver requested to still receive reports. Last year no response was received from LeVonne Stone and she has not commented on any reports since 2014. If there is no response from LeVonne Stone this year EPA would like us to double check with her by e-mail before removing her from the distribution list.

#### **4. Operable Unit 1 (HGL)**

##### **a. Remedial Action Completion Status Update – OU-1 site closure:**

- The 2017 rare plant survey report was issued and comments were requested by March 21.
- There was one comment during the February 6, 2018 TRC meeting regarding OU-1 plume footprint shrinkage from 2011 to 2012. HGL explained that the shrinkage was caused by converting well IW-OU1-10-A from a monitoring well to an extraction well and the large distance between monitoring points.
- The annual habitat meeting was held on February 21, 2018 and the 2017 rare plant survey report was presented.
- All documents needed to support the OU-1 closure have been submitted as final.
- This is the last HTW meeting with the OU-1 topic on the agenda as the Site Closure process is complete. Roy Evans with HGL will no longer attend the HTW meetings.

- The discussion on the possibility of a partial deletion from the Fort Ord Superfund site for OU-1 is suspended indefinitely.

## 5. Operable Unit 2

### a. Groundwater Remedy/Monitoring –

- The Operable Unit 2 (OU2) groundwater treatment plant (GWTP) had 100 percent (%) operability through February 28, 2018.
- One injection point-of-compliance sample was collected in January 2018 and there was one low level chemical of concern (COC) detection below the discharge limit.
- On February 20, 2018 Burleson used 6,000 gallons of treated water for an irrigation project.
- An underground service alert notice was received for Pacific Gas and Electric (PG&E) 47B capacity main construction project along Imjin Parkway and the underground facilities associated with OU2 in the vicinity were marked.
- On February 16, 2018 a private contractor for Shea Homes modified the surface completion of MW-OU2-40-A to match the new surface grade. Shea Homes will resurvey the new top of casing elevation.
- In March 2018 Ahtna will coordinate with the JV and Burleson as needed for any treated water use.
- Ahtna will continue to prepare for the existing OU2 GWTP decommissioning.
- Ahtna will coordinate with Sea Haven developer for extraction well elevation adjustments to EW-OU2-09-A and EW-OU2-10-A and decommissioning of EW-OU2-08-A as agreed to in the February 2, 2018 HTW BCT meeting.
- Ahtna will coordinate with the JV on temporary shutdowns for construction projects at the OU2 GWTP, which affects all the OU2 extraction wells, and the Abrams/Imjin network, which will affect operation of EW-OU2-16-A and EW-OU2-06-180.
- This week March 5 to 9, 2018 the First Quarter 2018 groundwater monitoring program (GWMP) is being conducted.
- Ahtna will coordinate with private contractor Kimley-Horn regarding impacts to OU2 facilities for future widening of Imjin Parkway.
- In summer 2018 four existing A-Aquifer monitoring wells will be decommissioned (MW-OU2-33-A, MW-OU2-36-A, MW-OU2-59-A, MW-OU2-60-A) according to a Work Plan that is in progress. Two wells are on the western edge of OU2 (MW-OU2-33-A and MW-OU2-36-A) and two wells are on the eastern edge of OU2 (MW-OU2-59-A and MW-OU2-60-A), all of which are far away from the current COC plume extents, removed from the GWMP due to low COC concentrations, and redundant for groundwater elevations.

b. Treated Water Reuse – 6,000 gallons of treated water was used in February by Burleson for an irrigation project. Burleson will continue to use treated water through August and will be dependent on weather conditions. Treated water will be used in the future by the JV for hydrostatic pressure testing and KEMRON for the prescribed burn program.

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

- Work at the new GWTP building is in progress including plumbing, electrical, and the concrete driveway.
- Vaults are being installed at the new extraction wells.

- There will be two small shutdowns at the Abrams/Imjin network and at the existing OU2 GWTP. The small shutdown at the existing OU2 GWTP will cause the OU2 GWTP to be offline for a few days and at the same time carbon will be removed from Site 2 infiltration gallery INF-02-03-180.
- Army is working with PG&E to try and limit the downtime during the transition period from six weeks to possibly four weeks.

d. Landfills Operations and Maintenance (O&M) – Recent landfill gas extraction and thermal treatment unit (TTU) operations and landfill cover system O&M activities were reviewed:

- Methane at the TTU influent has had a declining trend overall but has recently increased, currently between 37% and 38%. The operational time will be adjusted to level the methane concentration.
- The quarterly County inspection will be conducted in two weeks as well as the quarterly compliance perimeter landfill gas probe monitoring.
- Erosion control repairs are complete and have held up well including repair of vegetative cover and cleaning out the v-ditches.
- Rodent control measures were installed including owl boxes and raptor perches, which can be 50 percent more effective at controlling rodents than rodenticide according to a study by the Ventura County Public Works Agency. More raptor perches will be installed at the Landfills in the future to increase the density.

## **6. Sites 2 and 12**

a. Groundwater Remedy/Monitoring –

- The Sites 2 and 12 (Sites 2/12) GWTP had 100% operability through February 28, 2018.
- One injection point-of-compliance sample was collected in February 2018 and two COCs were detected at low levels below the discharge limits.
- On February 16, 2018 property owner Shea Homes removed the residential trash that was illegally dumped adjacent to the Sites 2/12 GWTP.
- Ahtna will coordinate with Presidio of Monterey Department of Public Works for sulfuric acid removal.
- This week from March 5 to 9, 2018 the First Quarter 2018 GWMP is being conducted, which includes total petroleum hydrocarbon sampling at seven monitoring wells.
- GAC removal will be conducted at INF-02-03-180 is scheduled for the week of March 26 while the OU2 GWTP is offline for JV construction.
- A Work Plan is being prepared for the 2018 decommissioning of Sites 2/12 monitoring well MW-02-12-180, which is located at Site 2 and away from the tetrachloroethene (PCE) groundwater plume. A baseline biological survey will be completed for this well. This well was removed from the GWMP due to low COC concentrations and is redundant for groundwater elevations.
- The Fort Ord Community Advisory Group document reviewer Mike Weaver had a comment on the Draft Quality Assurance Project Plan Revision 6 that will not require a revision to the document. Mr. Weaver requested data from the Site 2 wells. The Army will respond to Mr. Weaver with the Administrative Record document access information for the quarterly groundwater monitoring reports, which he has received already.

b. Soil Gas Monitoring –

The Sites 2/12 soil vapor extraction and treatment system (SVETS) had 99.6% operability through February 28, 2018. The First Quarter 2018 Soil Gas Monitoring Program was conducted February 20 to 23, 2018 which included the second round of sampling for the rebound study in the southern area.

Routine maintenance was conducted at the SVETS in February 2018 and approximately 160 gallons of condensate water was removed from the sumps.

## **7. Operable Unit Carbon Tetrachloride Plume**

### **a. Groundwater Remedy/Monitoring –**

- On February 14, 2018 the variable frequency drive and programmable logic controller back plate were replaced, and the fiber optic cables were adjusted in EW-OU2-09-180, and the well was restarted.
- On February 21, 2018 the 7<sup>th</sup> Annual Habitat Restoration and Monitoring Meeting. Ahtna presented the results of the Year 1 follow-up survey at OUCTP enhanced in situ bioremediation (EISB) Deployment Area 3A and Year 2 follow-up survey at 2015 well installations.
- Ahtna will coordinate with the JV on the small shutdowns that will affect operation of EW-OU2-09-180.
- This week from March 5 to 9, 2018 the First Quarter 2018 GWMP is being conducted, which includes the OUCTP EISB Deployment Area 3A monitoring. Unscheduled monitoring well MW-BW-30-A will be sampled to check for carbon tetrachloride (CT) concentrations because the upgradient well MW-BW-26-A has had an increasing CT concentration trend. Annual well MP-BW-31-292 will be sampled this quarter instead of the usual third quarter event due to historical seasonal peaks in first quarter events.
- A Work Plan is in progress for 2018 installation of four OUCTP A-Aquifer monitoring wells (MW-BW-93-A, MW-BW-94-A, MW-BW-95-A, and MW-BW-96-A), two OUCTP Upper 180-Foot Aquifer monitoring wells (MW-BW-57-180 and MW-BW-58-180), and one OUCTP Lower 180-Foot Aquifer monitoring well (MW-BW-59-180). Wells in the A-Aquifer will fill data gaps for the CT plume in the northern and eastern areas near the groundwater divide. Wells in the Upper 180-Foot Aquifer will fill data gaps north of the southern CT plume. The new Lower 180-Foot Aquifer will provide more data for trichloroethene concentrations in this area.
- A Work Plan is in progress for 2018 decommissioning of five OUCTP A-Aquifer monitoring wells (MW-BW-62-A, MW-BW-64-A, MW-BW-68-A, MW-BW-69-A, and MW-BW-70-A) and three OUCTP Upper 180-Foot Aquifer monitoring wells (MW-BW-20-180, MW-BW-22-180, and MW-BW-29-180). These wells are redundant for groundwater elevations and were removed from the GWMP due to low COC concentrations or are screened in the vadose zone as part of the old SVE system in the Lexington Court area (MW-BW-68-A, MW-BW-69-A, and MW-BW-70-A).
- The biological reference site is being monitored to determine the 2018 survey time frame for Habitat Management Plan (HMP) annual species. The 2018 Fort Ord Natural Reserve (FONR) survey will include Year 3 (final) follow-up for 2015 well installations, Year 2 follow-up for 2016 EISB Deployment Area 3A construction, and the baseline survey for 2018 well installation and decommissioning locations in the FONR. Wells in the FONR will be installed or decommissioned in the timeline of June 1 to October 31.

## **8. Basewide Range Assessment and Lead Evaluation Status**

### **a. Basewide Range Assessment (BRA) –**

- Revised response to comments were submitted to California Department of Toxic Substances Control (DTSC) on the Draft Technical Memorandum documenting the results of sampling in Units 1, 2, 3, 7, 10, 33, and Watkins Gate Burn Area (WGBA). Unit 33 step-out samples were collected in February, analytical results are expected by mid-March.
- The Draft Final Technical Memorandum for sampling results in Units 5A and 9 was submitted and comments are requested by March 17, 2018.

- The Draft Final Sampling Plan for Unit 31 was submitted and comments are requested by March 10, 2018.
- The Draft Final Technical Memorandum for sampling results in Unit 23 was submitted and comments were requested by March 2, 2018.
- The Draft Final Sampling Plan for Units 25 and 28 was submitted and comments were requested by March 2, 2018.
- Army back check comments on the Comprehensive BRA Report are being resolved.

b. Lead Evaluation at HA 18D and HA 23D – Cory Koger with USACE outlined the excavation units for Units 18D and 23D and will wait to see where the USEPA and DTSC are at with the blood lead level before taking action. The new regulation is expected to be published around July 2018.

c. Erosion Control – KEMRON is monitoring Site 39 areas throughout the Impact Area MRA for erosion issues. KEMRON is addressing maintenance issues at erosion control sites.

d. Habitat Restoration –

- On February 21, 2018 the Annual Habitat Meeting was held to compare the 2017 survey results to the benchmark year.
- Plant propagation for the 2018-2019 plant inventory has started for a target of 5,962 plants to restore 3.3 acres.
- HAs will continue to be monitored for erosion issues, and minor repairs are planned at HA 34 to collapse erosion rills and install eight wattles.
- The HA 26 irrigation system was installed a couple weeks ago. Treated water was used from prescribed burn water tanks (4,000 gallons) and the OU2 GWTP (6,000 gallons). The system was tested at full capacity of 6,000 gallons and the system passed the pressure test. Will get another 4,000 gallons from the OU2 GWTP once testing complete to fill up the system in preparation for the first irrigation event, which is dependent on weather.

## 9. 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 – A copy of the latest document schedule was distributed.

## 10. Action Items

Four action items were identified in the last HTW BCT meeting:

1. Finalize HTW BCT general minutes from February 2, 2018: **in progress**.
2. Finalize HTW BCT OU-1 minutes from February 2, 2018: **completed**.
3. Determine if partial deletion of Fort Ord from the NPL is possible once OU-1 site closure process is completed: **ongoing**. Maeve Clancy with USEPA stated that USEPA is supportive of partial deletion from the NPL, but not for OU-1 due to the presence of PFOA and PFOS. USEPA will consider deletion of other Fort Ord sites, but would prefer deletions of areas that are as large as possible. The Army will look into other sites where remedial actions are complete and prepare a list.

4. Document review and comment: **ongoing**, housekeeping action item to verbally review the document deliverable schedule.

**11. Calendar Update**

- The April 2018 HTW BCT meeting is scheduled for **April 11, 2018 at 1:30 PM** in the BRAC Conference Room.
- The guided nature walk in the impact area is scheduled for **May 5, 2018**.
- The May 2018 HTW BCT meeting is scheduled for **May 9, 2018 at 1:30 PM** in the BRAC Conference Room.
- The June 2018 HTW BCT meeting is scheduled for **June 13, 2018 at 1:30 PM** in the BRAC Conference Room.