

**Travis Air Force Base  
Environmental Restoration Program  
Restoration Program Manager's  
Meeting Minutes  
20 November 2019, 0930 Hours**

Mr. Lonnie Duke of the Air Force Civil Engineer Center (AFCEC) Restoration Installation Support Section (ISS) conducted the Restoration Program Manager's (RPM) teleconference on 20 November 2019 at 0930 hours in Building 248 at Travis AFB, California. Attendees included:

Lonnie Duke	AFCEC/CZOW
Glenn Anderson	AFCEC/CZOW
Monika O'Sullivan	AFCEC/CZOW
Angel Santiago	AFCEC/CZOW
Milton 'Gene' Clare	AFCEC/CZOW
Haekyung Kim (via telephone)	AFCEC/CZRW
Nadia Hollan Burke (via telephone)	EPA
Adriana Constantinescu (via telephone)	RWQCB
Dominique Forrester (via telephone)	DTSC
Mike Wray	CH2M/Jacobs
Leslie Royer	CH2M/Jacobs
Jill Dunphy (via telephone)	CH2M/Jacobs

Handouts distributed prior to or at the meeting, discussions, and presentations included:

Attachment 1	Meeting Agenda
Attachment 2	Master Meeting and Document Schedule
Attachment 3	SBBGWTP Monthly Data Sheet (October 2019)
Attachment 4	CGWTP Monthly Data Sheet (October 2019)
Attachment 5	LF007C Monthly Data Sheet (October 2019)
Attachment 6	ST018 Monthly Data Sheet (October 2019)
Attachment 7	Program Update

**1. ADMINISTRATIVE**

**A. Previous Meeting Minutes**

October 2019 Draft Meeting Minutes were accepted as Final with no changes.

**B. Action Item Review**

Action items from October 2019 were reviewed.

Action Item 1 is ongoing: Ms. O’Sullivan to provide updates on perfluorooctane sulfonate (PFOS) and perfluorooctanoic acid (PFOA). November 2019 update: Ms. O’Sullivan informed the team that the Draft Quality Assurance Project Plan (QAPP) has been submitted and comments are due by 9 December 2019. She informed the team that the field work is a high priority and therefore the contractor

is striving to start field work later in December, and asked the regulators to let her know if they will be unable to meet this deadline so that she can let her leadership know that field work may be delayed. EPA, DTSC, and the Water Board have all received the document and will try to keep their respective reviews on schedule, but noted they will keep the team informed of review progress.

Mr. Duke added that the Congressional Delegation notification was made and that the local mayors were briefed earlier in the week. Both Representative Jackie Speier and Representative John Garamendi contacted the base afterwards to keep the dialog open.

Ms. Burke asked Ms. O’Sullivan about a recent EPA email concerning a change to the EPA RSLs for PFAS. She will forward to Ms. O’Sullivan if it is for public distribution. Mr. Duke acknowledged that the change may not yet be approved for circulation but asked to be notified if it’s something new that will change the current contract.

Action Item 2 is ongoing: Mr. Duke will continue to provide design and construction information for the new KC-46 Hangar construction project. November 2019 update: Mr. Duke stated that the Amendment to the NEWIOU Soil, Sediment, and Surface Water Record of Decision (ROD) had been signed and that excavation of soil at Site SS016 would begin on 2 December. This work should be complete in time for the construction contractor to demolish the existing facilities, which will be starting as soon as feasible in 2020.

Action Item 3 is ongoing: Include the progress of the optimized Emulsified Vegetable Oil (EVO) delivery via solar-powered organic carbon (SPOC) injection system pilot test at Site SS015 during future monthly program updates. November 2019 update: Jeff Gamlin is traveling and is not available to provide an update, but CH2M will include this pilot test in the January 2020 Program Update if warranted.

Action Item 4: Mr. Duke and Mr. Anderson to develop a cover letter discussing a proposed schedule for additional phases of sampling for the Fourth Five Year Review, and planned path forward for comment resolution. November 2019 update: Cover letter sent; this action item is now closed.

Action Item 5: Mr. Chakurian to the Water Board with the figure presented during the Triad discussion, showing updated sampling locations, as well as the cover letter for the planned work, by 6 November 2019. November 2019 update: Figure and cover letter for planned work sent; this action item is now closed.

### **C. Master Meeting and Document Schedule Review (see Attachment 2)**

The Travis AFB Master Meeting and Document Schedule (MMDS) was discussed during this meeting (see Attachment 2).

## **Travis AFB Annual Meeting and Teleconference Schedule**

There is no meeting or teleconference in December 2019. The next RPM meeting will be a teleconference to be held 15 January 2019 at 0930.

## **Travis AFB Master Document Schedule**

- Community Relations Plan Update (CRP): There was no change to the schedule. This document will be finished as soon as the other higher-priority documents are completed, will resume in early 2020.
- Amendment to the NEWIOU Soil, Sediment, and Surface Water Record of Decision for the Travis AFB ERP Sites SS016 and SD033: Final Due date was changed to reflect the actual submittal date. Mr. Duke noted that all wet signatures from regulatory agencies had been received and that the Air Force signature is forthcoming. He thanked everyone for their efforts to get this document finalized so that field work could start ahead of the KC-46 Hangar construction. This document will be moved to History in January 2020.
- Site SS016 Remedial Design/Remedial Action Work Plan: The Final Due date was changed to 15 November 2019 to reflect the actual submittal date. This document will be moved to History in January 2020.
- Site SD031 Soil Remedial Investigation/Feasibility Study (RI/FS): The Agency Comments Due date was changed to 14 January 2020 to accommodate additional review time for the regulatory agencies. The remainder of the schedule was updated accordingly.
- Potrero Hills Annex (FS, PP, and ROD): No change was made to the schedule; Ms. Constantinescu said they have received the 2019 Annual Groundwater Monitoring report and noted that not much has changed. They are reviewing the results, and noted a few Air Force investigations and CH2M HILL reports that they do not have copies of. Ms. Constantinescu took the action to send a letter to the Air Force requesting these reports by title. Mr. Anderson took the action to check the online and hard copy Administrative Record for them upon receipt of letter.
- Quarterly Newsletter (April 2020): The schedule was changed for the April 2020 newsletter, which will announce the Restoration Advisory Board meeting. The newsletter will convert to a semi-annual schedule in 2020 due to a ramping down of project activities. The newsletter may return to a quarterly schedule when the follow-on ORC is in place (FY2022).
- Fourth Five-Year Review Report for Multiple Groundwater, Soil, and Sediment Sites: The Responses to Comments and Final due dates were changed to 30 November 2019. The Final version will incorporate agreements to responses to comments thus far, so that public participation requirements can be met. Additional work may be conducted, and a follow-up report may be produced. Mr. Duke noted that this is not the usual path for this document; however, the document is adequate

for Air Force needs at this time. The remaining regulatory concerns will be discussed during scoping for the Optimized Remediation Contract. All regulatory agencies agreed to receive a CD only (no hard copy of the document).

- Site LF008 Remedial Action Completion Report: No changes were made to the schedule. All agencies have submitted their comments.
- Site SD043 Site Closure Report: The Response to Comments and Final due dates were changed to 2 December 2019. The Water Board will not be submitting comments on this document.
- Site SS046 Well Decommissioning and Site Closeout Tech Memo: There was no change to the schedule. Water Board and DTSC will not be submitting comments. EPA submitted comments and is awaiting Air Force responses.
- Initial Passive Vent Systems Evaluation Work Plan Tech Memo: This is a new document. Mr. Anderson and Ms. Royer will be the document leads. The Predraft to Air Force Service Center due date is 13 December 2019; the rest of the dates were assigned accordingly. This document partially addresses comments on the Fourth Five Year Review.
- Site SD031B POCO Additional Site Work Plan: The Predraft to Air Force Service Center was changed to 6 December 2019. The schedule, through Agency Comments due, was updated accordingly. The remainder of the schedule is unchanged. The Air Force will present results of the round 1 Gore Sorber survey to the Water Board before conducting the round 2 survey.
- Site FT004 POCO Excavation Work Plan Tech Memo: This is a new document. Mr. Anderson, Mr. Berwick from CH2M, and Ms. Greenwald from CAPE will be the document leads. All dates are TBD and a schedule will be assigned in the January 2020 MMDS.
- MOVED TO HISTORY:
- Site SS046 Remedial Action Completion Report and Well Decommissioning Work Plan
- 2018 Annual Site LF007 Corrective Action Management Unit Inspection, Monitoring, and Maintenance Report

The Air Force took the action to include the date comments received from agencies to the MMDS, and the date the agencies receive Air Force responses.

## 2. CURRENT PROJECTS

### Treatment Plant Operation and Maintenance Update

#### **South Base Boundary Groundwater Treatment Plant, October 2019 (see Attachment 3)**

The South Base Boundary Groundwater Treatment Plant (SBBGWTP) performed at 99.4% uptime, and 7.0 million gallons of groundwater were extracted and treated in October 2019. All treated water was discharged to Union Creek. The average flow rate for the SBBGWTP was 163.4 gallons per minute (gpm). Electrical power usage was 18,168 kilowatt hours (kWh), and approximately 15,044 pounds of CO<sub>2</sub> were created (based on DOE calculation). Approximately 1.1 pound of volatile organic compounds (VOCs) was removed in October. The total mass of VOCs removed since startup of the system is 521.5 pounds.

A new run/fault light and on/off switch for the main system transfer pump were installed. A refurbished pump was installed at extraction well EW734x05. The backwash transfer pump was disassembled and cleaned, and a filter unit was installed upstream of the backwash pump to limit additional fouling.

No optimization activities were conducted in October 2019.

#### **Central Groundwater Treatment Plant, October 2019 (see Attachment 4)**

The Central Groundwater Treatment Plant (CGWTP) performed at 100% uptime with approximately 1,175,220 gallons of groundwater extracted and treated in October 2019. All treated water was discharged to the storm sewer system which discharges to Union Creek. The average flow rate for the CGWTP was 27.1 gpm. Electrical power usage was 2,347 kWh for all equipment connected to the Central Plant, and approximately 2,625 pounds of CO<sub>2</sub> were generated. Approximately 2.4 pounds of VOCs were removed from groundwater by the treatment plant in October. The total mass of VOCs removed since the startup of the system is 11,533 pounds.

Maintenance activities were performed on the Site SS016 subgrade biogeochemical reactor. The Site DP039 subgrade biogeochemical reactor continued to operate in October 2019.

No optimization activities occurred at the CGWTP in October 2019.

#### **LF007C Groundwater Treatment Plant, September 2019 (Attachment 5)**

The Subarea LF007C Groundwater Treatment Plant (LF007C GWTP) performed at 100% uptime with approximately 167,620 gallons of groundwater extracted and treated

in October 2019. All treated water was discharged to the Duck Pond for beneficial reuse. The average flow rate was 3.9 gpm. Approximately  $5.1 \times 10^{-3}$  of a pound of VOCs was removed from groundwater by the treatment plant in October 2019. The total mass of VOCs removed since the startup of the system is 174.4 pounds. There was no electrical power usage statistics, because this plant operates on solar power only.

This GWTP will continue to operate until ponded water develops over the groundwater plume. Once the vernal pools develop, the system will be shut off in accordance with USFWS requirements.

No optimization activities are reported for the month of October 2019.

NOTE: While the LF007C GWTP and extraction systems are still accessible for O&M, the monitoring wells located offbase are not currently accessible, because the Air Force's LF007C easement has expired. The Air Force is working on getting a new easement, which has been complicated by a change of land ownership. Ms. Burke and Ms. Constantinescu offered regulatory agency support for getting access to the sites for sampling and groundwater elevation measurements if the Air Force continues to encounter difficulties in obtaining an access agreement.

### **ST018 Groundwater (MTBE) Treatment Plant, September 2019 (see Attachment 6)**

Site ST018 (MTBE) Treatment Plant (ST018 GWTP) performed at 76.5% uptime with approximately 175,820 gallons of groundwater extracted in October 2019. All groundwater was discharged to the Fairfield – Suisun Sewer District. The average flow rate for the ST018 GWTP was 5.3 gpm. Electrical power usage for the month was 97 kWh for all equipment connected to the ST018 GWTP. The total CO<sub>2</sub> discharge equivalent equates to approximately 72 pounds. Approximately 0.22 of a pound of MTBE, BTEX, VOCs, and TPH was removed in October by the treatment plant, and approximately 0.08 pound of MTBE-only was removed from groundwater. The total BTEX, MTBE and TPH mass removed since the startup of the system is 48.6 pounds, and the total MTBE mass removed since startup of the system is 11.9 pounds.

Note: Electrical power use at the ST018 GWTP is only for the alarm system and a pump that pushes influent tank water to the Fairfield-Suisun Sanitary Sewer line. The four groundwater extraction pumps in the system are all solar powered.

No optimization activities are reported for the month of October 2019.

The Air Force took the action to compare the last few months of uptime at the ST018 GWTP in relation to how much MTBE has been removed per a request from Ms. Constantinescu.

For the groundwater treatment plant reports in general, the Air Force also took the action to only bold items exceeding the discharge limit and to add an explanation of the bolded text to the table notes.

**3. Presentations:**

**A) Program Update: Activities Completed, In Progress, and Upcoming (see Attachment 7)**

Mr. Wray reported on the status of fieldwork and documents that have been completed, are in progress, or upcoming. Please refer to Attachment 7 for the full briefing.

**4. New Action Item Review**

1. Ms. Constantinescu to send a letter requesting Air Force and CH2M HILL reports related to the Potrero Hills Annex; Mr. Anderson to provide.
2. Air Force to add to the MMDS dates comments are received from regulatory agencies, and dates responses to those comments are sent to the agencies.
3. Air Force to compare the last few months of uptime at the ST018 GWTP with how much MTBE has been removed.
4. Air Force will bold only concentrations exceeding discharge limits on future monthly groundwater treatment plant reports. A note explaining that the bolded values indicate exceedances of discharge limits will be included in the table for future reports.

**5. PROGRAM ISSUES/UPDATE**

None

**6. Action Items**

Item #	Responsible	Action Item Description	Due Date	Status
1.	Monika O’Sullivan	Ms. O’Sullivan to provide updates on PFOS and PFOA as she becomes aware of them.	Ongoing	Open



2.	Lonnie Duke	Mr. Duke will continue to provide design and construction information for the KC-46 Hangar for agency input ahead of the Air Force/Civil Engineering awarding the construction contract.	Ongoing	Open
3.	Mr. Wray and Ms. Royer	Mr. Wray or Ms. Royer to include the progress of the optimized EVO delivery via solar-powered organic carbon injection system pilot test at Site SS015 during future monthly program updates.	Ongoing	Open
4.	Ms. Constantinescu and Mr. Anderson	Ms. Constantinescu to send letter to Air Force requesting Air Force and CH2M HILL reports related to Potrero Hills Annex; Mr. Anderson to provide once requested	15 December 2019	Open
5.	Mr. Anderson	Air Force to add to MMDS dates the Air Force receives comments from regulatory agencies and dates Air Force responses to those comments are sent to the agencies.	15 January 2020	Open
6.	Mr. Santiago	Air Force to compare last few months of uptime at the Site ST018 GWTP with how much MTBE has been removed.	15 January 2020	Open
7.	Mr. Santiago	Air Force will bold only concentrations exceeding discharge limits on future monthly groundwater treatment plant reports. A note explaining that bolded values indicate exceedances of discharge limits will be included in the table for future reports.	15 January 2020	Open