

**Travis Air Force Base  
Environmental Restoration Program  
Restoration Program Manager's  
Meeting Minutes  
18 July 2018, 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 18 July at 0930 hours in Building 248 at Travis AFB, California. Attendees included:

|   |               |
|---|---------------|
| Lonnie Duke                               | AFCEC/CZOW    |
| Glenn Anderson                            | AFCEC/CZOW    |
| Angel Santiago Jr.                        | AFCEC/CZOW    |
| Monika O'Sullivan                         | AFCEC/CZOW    |
| Merrie Schilter-Lowe                      | Travis AFB/PA |
| Ben Fries<br>(via telephone)              | DTSC          |
| Nadia Hollan Burke<br>(via phone)         | USEPA         |
| Adriana Constantinescu<br>(via telephone) | RWQCB         |
| Mike Wray                                 | CH2M/JACOBS   |
| Jeannette Cumberland                      | CH2M/JACOBS   |

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

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|--------------|--|
| Attachment 1 | Meeting Agenda                         |
| Attachment 2 | Master Meeting and Document Schedule   |
| Attachment 3 | SBBGWTP Monthly Data Sheet (June 2018) |
| Attachment 4 | CGWTP Monthly Data Sheet (June 2018)   |
| Attachment 5 | LF007C Monthly Data Sheet (June 2018)  |
| Attachment 6 | ST018 Monthly Data Sheet (June 2018)   |
| Attachment 7 | Presentation: Program Update           |

**1. ADMINISTRATIVE**

**A. Previous Meeting Minutes**

Ms. Burke requested that the June Minutes be updated per the following:

Page 5, 2017 Annual CAMU Monitoring Report: add “and DTSC” to read USEPA deferred comment to the Water Board “and DTSC”.

Action item 3: Ms. Burke requested EPA receive a copy of the TPH-LF007C technical memorandum when it is written.

These changes will be incorporated as requested into the Final June 2018 RPM minutes.

## **B. Action Item Review**

Action items from June 2018 were reviewed.

Action item 1 is ongoing: Ms. O’Sullivan to provide updates on perfluorooctane sulfonate (PFOS) and perfluorooctanoic acid (PFOA). July 2018 update: Ms. O’Sullivan said that a second CD for the Site Inspection (SI) Final report, which includes the metadata (missing from the first CD), was mailed to the regulatory agencies in early July. Ms. O’Sullivan said to send any comments or questions, but that they will not be addressed in the SI Final report. The comments will be taken into consideration during the Remedial Investigation (RI) phase. Ms. O’Sullivan noted that a new hazard quotient was used for the soils.

Action Item 2 is ongoing: Mr. Duke will continue to provide design and construction information for the new KC-46 Hangar construction project for agency input ahead of the Air Force/Civil Engineering awarding the construction contract. July 2018 update: The Contractor is working on finishing their design package to submit to potential bidders. The design will include parameters for the new extraction well. The design contractor is currently collecting geological data from soil borings using a Geoprobe rig, and that data will be included in the design package. Mr. Chakurian was present when the soil sampling work was being conducted to help with the observations and boring logs.

Ms. Burke indicated that EPA may have more comments on the hangar design related to the permeability of the geomembrane.

Action item 3: Mr. Gamlin will prepare a technical memorandum to the Water Board regarding the TPH chromatogram study for Site LF007C. July 2018 update: new due date, 15 August 2018. Ms. Burke requested EPA receive a copy of the technical memorandum, but indicated that EPA will most likely defer to the Water Board.

## **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

The next RPM meeting will be held on Wednesday 15 August 2018, at 0930 hours.

Reminder: The annual RAB tour (which historically has been held in October) will not be formally scheduled and will instead be individual tours given when an interested party would like to see field work this summer. As a result, since there will not be a formal RAB meeting, all agencies agreed to move the October RPM meeting from Thursday, 18 October, to Wednesday, 17 October, at 0930.

## Travis AFB Master Document Schedule

- Community Relations Plan Update (CRP): There was no change to the schedule.
- Amendment to the WABOU Soil ROD for Travis AFB ERP Sites DP039, SD043, and SS046: There was no change to the schedule. Travis AFB received EPA comments; two partials and fourteen additional comments on 6 July. Mr. Anderson asked that when EPA receives the RTCs to review as soon as possible, as this will be the last set of issues before going draft-final. Ms. Burke cautioned that a couple of ARARs comments regarding the Remedial Action (RA) may potentially influence the SD043 and SS046 RD/RA work plans. Mr. Anderson said that is the very reason the work plans have not been finalized. **This is a super critical document.**
- Amendment to the NEWIOU Soil ROD for the Travis AFB ERP Sites SS016 and SD033: There was no change to the schedule. Currently under regulatory review. Mr. Anderson emphasized the importance to submit comments by the 7 August date. **This is a super critical document** due to site work supporting planned KC-46 hangar construction. The field work at Site SS016 must be completed by December 2018.
- Site TS060 No Further Action Record of Decision for Old Skeet Range: Draft to Agencies was changed to 25 June 2018 to reflect actual submittal date. The remainder of the schedule has been changed accordingly. **This is an important but not critical document.**
- Site SD043 Remedial Design/Remedial Action Work Plan: The Final Due date was changed to TBD to ensure the work plan supports any changes in the WABOU ROD amendment.
- Site SS046 Remedial Design/Remedial Action Work Plan: The Response to Comments, Draft Final Due, and Final Due dates have been changed to TBD to ensure the work plan supports any changes in the WABOU ROD amendment.
- Site SS016 Remedial Design/Remedial Action Work Plan: The Draft to Agencies was changed to 26 July, the rest of the dates were changed accordingly. The Response to Comments Due, Draft Final Due and Final Due dates were changed to TBD to ensure the work plan supports any changes in the NEWIOU ROD

amendment. This excavation project is located within the footprint of the future new KC-46 hangar, so **this document is critical**.

- Site SD031 Soil Remedial Investigation/Feasibility Study: No change was made to the schedule. Any follow-on work will come under the next contract. **This document is important but not critical**.
- Fourth Five-Year Review Report for Multiple Groundwater, Soil, and Sediment Sites: No change was made to the schedule. Ms. Burke said she would not meet the Agency Comments due date of 20 July, she needs EPAs technical and legal review. She has some technical comments which can be submitted by 20 July. Mr. Anderson agreed to receive comments when they are available. **This document is very important but not critical**.
- Potrero Hills Annex (FS, PP, and ROD): No change was made to the schedule. The responsible parties are working on RTCs on the Data Gaps Investigation report.
- Site SS015 Soil Sampling Plan: The Response to Comments Due and Final Due date were changed to 13 July 2018 to reflect the actual submittal date.
- Site LF006 Technology Demonstration Work Plan: The Predraft to AF/Services Center date has been changed to 3 July 2018 to reflect the actual submittal date. The remainder of the schedule has been changed accordingly.
- Quarterly Newsletters (June 2018): The Draft to Agencies date was changed to 5 July 2018 to reflect the actual submittal date. The remainder of the schedule has been changed accordingly. Mr. Anderson said this is a community outreach document and not meant to a technical source of information. Mr. Fries said that if Mr. Forrester of DTSC doesn't have any comments, then he won't either.
- 2017 Annual GRISR: The Draft to Agencies date was changed to 19 July 2018. Response to Comments and Final Due date changed to 20 January 2019. This document is not as critical as some others, and comments are not expected until November 2018. Mr. Anderson add that, if the agencies have comments on the 4Q2018 sampling plan, to please let Ms. Royer know by 8 October if possible.
- Monitoring Well Installation Technical Memorandum for Site DP039, Addendum to the Site DP039 Remedial Action Construction Completion Report: No change was made to the schedule. Travis AFB sent the EPA RTC table on 27 June. Ms. Burke has not received the technical review from Techlaw yet. The DTSC approved their RTCs. The Water Board does not plan on providing comments.
- Site FT005 Extraction System Optimization Report: The Response to Comments Due and Final Due date were changed to 23 July. Travis AFB submitted RTCs to DTSC (Mr. Forrester) and EPA on 3 July. Ms. Burke will review RTCs next week.
- Site LF044 Sediment Sampling Report: The Response to Comments Due and Final Due dates were changed to 31 July 2018. Travis AFB is reviewing comments from EPA submitted on 13 June and Water Board submitted on 21 June 2018.

- 2017 Annual CAMU Monitoring Report: The Response to Comments Due and Final Due dates were changed to 8 August 2018. DTSC and Water Board comments have been received; USEPA deferred comments to the Water Board and DTSC.
- Emulsified Vegetable Oil Sites FT004, SS015, SD031, and SD036 Optimization Injections Report: The Draft to Agencies date was changed to 13 August 2018. The remainder of the dates were changed accordingly.
- Sites LF006, SS030, SD031 Aquifer Test Activities Technical Memorandum: Moved to History.
- Data Gap Investigation Results Technical Memorandum for Soil Site SS016: Moved to History.

## 2. CURRENT PROJECTS

### Treatment Plant Operation and Maintenance Update

#### **South Base Boundary Groundwater Treatment Plant, June 2018 (see Attachment 3)**

The South Base Boundary Groundwater Treatment Plant (SBBGWTP) performed at 100% uptime, and 5.9 million gallons of groundwater were extracted and treated in June 2018. All treated water was discharged to Union Creek. The average flow rate for the SBBGWTP was 163.1 gallons per minute (gpm). Electrical power usage was 14,924 kWh, and approximately 11,844 pounds of CO<sub>2</sub> were created (based on DOE calculation). Approximately 0.89 pound of volatile organic compounds (VOCs) was removed in June. The total mass of VOCs removed since startup of the system is 501.8 pounds.

No optimization activities are reported for the month of June 2018.

In accordance with sampling schedule established in the current NPDES permit, annual sampling with additional analytes/samples were collected. 1,2-DCA was detected in the effluent sampling location at the estimated concentration of 0.22 J µg/L, which is below the effluent limit of 0.5 µg/L.

Ms. Burke asked about the 1,2-DCA and the concentrations creeping up and what the plan is if it continues to rise. Mr. Wray said the 1,2-DCA spiked when the new extractions wells were installed, which is what we expected. 1,2-DCA is a small molecule and doesn't stick to carbon very well. The plant was designed for 1,2-DCA using the air stripper. The air stripper is still on site and can be turned back on if needed.

#### **Central Groundwater Treatment Plant, June 2018 (see Attachment 4)**

The Central Groundwater Treatment Plant (CGWTP) performed at 100% uptime with approximately 1,142,630 gallons of groundwater extracted and treated in June 2018.

All treated water was discharged to the storm sewer system which discharges to Union Creek. The average flow rate for the CGWTP was 29.4 gpm. Electrical power usage was 2,020 kWh for all equipment connected to the Central Plant, and approximately 2,383 pounds of CO<sub>2</sub> were generated. Approximately 2.39 pounds of VOCs were removed from groundwater by the treatment plant in June. The total mass of VOCs removed since the startup of the system is 11,495 pounds.

Optimization Activities for CGWTP: The DP039 bioreactor continues to operate in a four-week “pulsed mode.” No other optimization activities are reported for the month of June 2018.

### **LF007C Groundwater Treatment Plant, June 2018 (See Attachment 5)**

The Subarea LF007C Groundwater Treatment Plant (LF007C GWTP) performed at 100% uptime with approximately 200,748 gallons of groundwater extracted and treated in June 2018. All treated water was discharged to the Duck Pond for beneficial reuse. The average flow rate was 5.1 gpm. Approximately  $1.19 \times 10^{-3}$  pound of VOCs was removed from groundwater by the treatment plant in June. The total mass of VOCs removed since the startup of the system is 174.39 pounds. There was no electrical power usage statistics, because this plant operates on solar power only.

No optimization activities are reported for the month of June 2018.

### **ST018 Groundwater (MTBE) Treatment Plant, June 2018 (see Attachment 6)**

Site ST018 (MTBE) Treatment Plant (ST018 GWTP) performed at 52.3% uptime with approximately 120,440 gallons of groundwater extracted and treated in June 2018. All treated water was discharged to the Fairfield – Suisun Sewer District. The average flow rate for the ST018 GWTP was 5.9 gpm. Electrical power usage for the month was 73 kWh for all equipment connected to the ST018 GWTP. The total CO<sub>2</sub> equivalent, including an estimate for the carbon change-out, equates to approximately 54 pounds. Approximately 0.05 pound of MTBE, BTEX, VOCs, and TPH was removed in June by the treatment plant, and approximately 0.03 pound of MTBE was removed from groundwater. The total BTEX, MTBE and TPH mass removed since the startup of the system is 45.5 pounds, and the total MTBE mass removed since startup of the system is 11.1 pounds.

Note: Electrical power use at the ST018 GWTP is only for the alarm system and a pump that pushes water through the GAC vessels for treatment. The four groundwater extraction pumps in the system are all solar powered.

No optimization activities are reported for the month of June 2018.

Travis AFB received permission from Fairfield-Suisun Sewer District (FSSD) to bypass carbon treatment and discharge direct to FSSD as of 01 August 2018. FSSD

currently does not have a local limit for MTBE, but a limit of 6,4000 µg/L is advised based on worker health and safety.

**3. Presentations:**

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

Mr. Wray reported on the status of fieldwork and documents which are completed, in progress, and upcoming. Please refer to Attachment 8 for the full briefing.

**4. New Action Item Review**

Mr. Gamlin will prepare a technological memorandum summarizing the TPH chromatogram review and conclusions, including a recommended sampling plan, to the Water Board.

**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.     | Jeff Gamlin       | Mr. Gamlin will prepare and submit a technical memorandum regarding TPH  | 19 July 2018 | Open   |

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|  |  | chromatogram reviews and conclusions at Site LF007C to the Water Board and EPA. |  |  |
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