

**Travis Air Force Base  
Environmental Restoration Program  
Restoration Program Manager's  
Meeting Minutes  
17 June 2020, 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 May 2020 at 0930 hours.

Effective 1 June 2020, the 60 AMW/CC at Travis AFB directed Health Protection Condition (HPCON) to Bravo (changed from HPCON Charlie) in response to the evolving COVID-19 public health situation in the local area. The base has cancelled all on-base gatherings of more than 10 people, and continues to encourage teleworking and virtual meetings in place of in-person meetings.

**All attendees participated via telephone or Microsoft TEAMS due to increased teleworking measures meant to reduce the number of employees on the base at one time. Attendees included:**

|                        |                                  |
|------------------------|----------------------------------|
| Lonnie Duke            | AFCEC/CZOW                       |
| Glenn Anderson         | AFCEC/CZOW                       |
| Monika O'Sullivan      | AFCEC/CZOW                       |
| Chet Storrs            | AFCEC/CZOW                       |
| Angel Santiago         | AFCEC/CZOW                       |
| Gene Clare             | AFCEC/CZOW                       |
| Lt Rachel Brinegar     | Travis AFB/PA                    |
| Haekyung Kim           | AFCEC/CZRW                       |
| Sarah Miller           | USACE-Omaha                      |
| Paul Gedbaw            | USACE-Omaha                      |
| Brian Boccellato       | USACE-Omaha                      |
| Nadia Hollan Burke     | EPA                              |
| Adriana Constantinescu | RWQCB                            |
| Dominique Forrester    | DTSC                             |
| Kimiye Touchi          | DTSC                             |
| Randall Bleichner      | DTSC/Geological<br>Services Unit |
| Mike Wray              | CH2M/Jacobs                      |
| Leslie Royer           | CH2M/Jacobs                      |
| Jill Dunphy            | CH2M/Jacobs                      |

Handouts distributed prior to the meeting included:

|              |                                       |
|--------------|---------------------------------------|
| Attachment 1 | Meeting Agenda                        |
| Attachment 2 | Master Meeting and Document Schedule  |
| Attachment 3 | SBBGWTP Monthly Data Sheet (May 2020) |
| Attachment 4 | CGWTP Monthly Data Sheet (May 2020)   |
| Attachment 5 | LF007C Monthly Data Sheet (May 2020)  |
| Attachment 6 | ST018 Monthly Data Sheet (May 2020)   |
| Attachment 7 | Program Update                        |

## 1. ADMINISTRATIVE

### A. Previous Meeting Minutes

Neither DTSC nor the Water Board had comments on the May 2020 Draft Meeting Minutes. Ms. Burke of EPA requested that the following bullet be added to the VOC/PFAS Biogeochemical Reactor Pilot Study discussion:

*Representatives from the regulatory agencies were enthusiastic about and supportive of the research, and are interested to hear the outcome of the pilot test.*

### B. Action Item Review

Action items from May 2020 were reviewed.

Action Item 1 is ongoing: Ms. O’Sullivan to provide updates on perfluorooctane sulfonate (PFOS) and perfluorooctanoic acid (PFOA). June 2020 update: Ms. O’Sullivan stated that the Air Force was scheduled to be sampling off-base as part of the Expanded Site Inspection by the end of June, but DoD has restricted travel to any state not yet meeting requirements for the green phase of reopening due to COVID-19. Because the majority of new cases are located in Southern California, they are requesting an exception for this very important sampling.

Ms. O’Sullivan noted that of the 11 sampling requests sent, occupants of the 6 properties located closest to the base have called to schedule the sampling. Mr. Duke said his team has driven past all 11 properties; many are not currently occupied or are only being used for grazing. Ms. Constantinescu commented that the Water Board will need information from all properties since it is known that the past occupants had wells, and these could be conduits for contamination. The Water Board can request sampling under the Porter-Cologne law. Ms. O’Sullivan said that

she will send what she can, while being mindful of Personally Identifiable Information. The Air Force asked everyone to continue to prioritize efforts related to this work.

Action Item 2 is ongoing: Mr. Duke will continue to provide design and construction information for the new KC-46 Hangar construction project. June 2020 update: Mr. Duke stated that the contractor has permission to work on the site and has already installed the construction fence. One building has already been demolished. A planned power outage will be scheduled while the building where the power is supplied from is demolished (a temporary source of power will be supplied).

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. June 2020 update: Ms. Royer said that the system is handling the small volumes of water being injected, but the team would like to see it handle a higher volume. They are considering extracting water at a consistent rate from an injection well and trying to inject that to see if results are better.

Action Item 4: Ms. Constantinescu will confer with Water Board Subject Matter Experts on whether the Air Force should proceed with collecting total bacteria samples along with TPH samples on the LF007C system influent and effluent during O&M sampling of the groundwater extraction treatment system. June 2020 update: Ms. Constantinescu has not yet had a chance to have this conversation, however is hopeful that she will have information for the Air Force by 30 June. This action item remains open.

Action Item 5: Ms. O'Sullivan will forward a figure showing off-base well locations and use to the Water Board. June 2020 update: Ms. O'Sullivan will forward what she has; the Water Board said they can obtain any additional needed information from the Department of water Resources. This action item remains open.

Action Item 6: Ms. Burke will forward news articles related to EPA perchlorate drinking water standards to the team. June 2020 update: Ms. Burke sent the requested item to Ms. Constantinescu and Mr. Anderson on 20 May 2020; this action item is now closed.

Action Item 7: Jacobs will review the chromatograms for TPH in May 2020 effluent samples from the LF007C Groundwater Treatment Plant. June 2020 update: Ms. Royer said that the detections were so low that they were essentially inconclusive, but when the chromatograms were exaggerated to show detail, they do not exhibit characteristic diesel-range organics (DRO) or motor-oil-range organics (MRO) patterns. She presented 3 slides supporting this discussion. Jacobs will continue to sample and look at the chromatograms to see if they support a biogenic origin, rather than petroleum. The USACE suggested doing a

matrix spike/matrix spike duplicate but with low-level spikes (25 or 50 ug/L) and see if there is matrix interference to help determine where site chromatograms fall compared to actual contaminants. This action item remains open.

Ms. Constantinescu requested that the due date for Action Item 4 be moved to 30 September 2020 considering this plan, and also suggested combining this action item with Action Item 4.

Ms. Dunphy took the action to make those changes for the July meeting; Ms. Royer took the action to send the 3 discussion slides 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**

Mr. Anderson noted that all upcoming meetings will be held as Microsoft TEAMS teleconferences until California meets the requirements for the “green phase” of COVID-19 reopening; however, the MMDS will remain the same. Teammates will be notified if we will resume in-person meetings. The next RPM meeting is a teleconference scheduled for 15 July 2020 at 0930 PDT. The Restoration Advisory Board Meeting is scheduled for 22 October 2020; however it is also subject to COVID-19 restrictions.

#### **Travis AFB Master Document Schedule**

Mr. Anderson reminded the team that there is limited capability for producing document hard copies and CDs due to ongoing COVID-19 restrictions. For now, electronic versions of small documents will be emailed, and larger versions will be distributed via DOD SAFE. Hard copies and CDs cannot be made at the present time due to the CH2M/Jacobs offices being closed for COVID-19, with no access to reproduction equipment.

- 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.
- Site SD031 Soil Remedial Investigation/Feasibility Study (RI/FS): The Response to Comments, Draft Final, and Final due dates remain TBD due to uncertainty with scheduling response-to-comments reviews. The Air Force sent responses to agency

comments on 6 May, as well as a redline version of the draft incorporating comments received earlier. DTSC and the Water Board will solicit input from their respective legal teams, EPA has the needed input from their legal team and will provide their comments to the Air Force. Mr. Anderson and Ms. Miller noted that there is a hard deadline for finalizing this document because it also must be invoiced and paid by 30 September.

- Potrero Hills Annex (FS, PP, and ROD): No change was made to the schedule. This project is overseen by the Water Board, but it is not yet an active CERCLA project. The team agreed to move this page to the end of the MMDS with a link to the Geotracker project page, and add it to the agenda when a discussion or update is necessary.
- Site FT004 POCO Corrective Action Plan: There was no change to the schedule. The Water Board will provide their comments by 30 June 2020.
- Quarterly Newsletter (October 2020): There was no change to the schedule. Mr. Anderson said he would like to convey to readers that the Environmental Restoration Program team adapted to restrictions from the COVID-19 pandemic to ensure work continued. He would like to include a “Brady Bunch” style screen capture of willing participants from our July Teams call. This issue will also announce the October 2020 RAB meeting.
- Initial Passive Vent Systems Evaluation Work Plan Technical Memorandum: The Response to Comments and Final due dates were changed to TBD due to outstanding unresolved issues with the Air Force responses to agency comments, requiring input from EPA subject matter experts. The EPA does not agree with not conducting indoor air sampling in the warehouse but said that the Air Force has what is necessary to finalize the document and proceed with this initial sample collection. The EPA might not be able to concur that the data can be used without indoor air sampling to evaluate risk. Mr. Anderson said the Air Force will finalize the document so that field work can proceed, and that discussions on next steps can happen once the data are in hand.
- Optimization Activities Technical Memorandum for Sites SD034 and SD037: The Response to Comments and Final Due Dates were changed to TBD. The Air Force submitted draft Responses to Comments and all agencies approved them, so the RTCs and document will be finalized. The submittal date will replace the TBDs on next month’s MMDS.
- Site SD043 Well Decommissioning and Site Closeout Technical Memorandum: The Draft to Agencies/RAB due date was changed to 27 May 2020 to reflect actual submittal date, and the Agency Comments Due date was changed to 26 June 2020. The Response to Comments and Final due date remained 29 July 2020. Ms. Touchi said she may need an extra few days to provide DTSC’s comments. Ms. Constantinescu said she will provide Water Board comments no later than 3 July 2020.

- 2019 Annual Groundwater Remediation Implementation Status Report (GRISR): There was no change to the schedule. Ms. Burke noted that the agencies will likely need more review time than is shown on the schedule. Mr. Anderson requested that the Air Force be kept informed of when the agencies will likely provide comments.
- 2019 Annual Corrective Action Management Unit Monitoring Report: All dates are currently TBD; Mr. Anderson noted that a schedule will be assigned soon but doesn't want review of this document to conflict with the 2019 GRISR and other higher priority documents.
- Site SS016 Soil Remedial Action Completion Report: The Predraft to Air Force Service Center was changed to 17 June 2020; the rest of the dates were changed accordingly.
- Site SD031B POCO Additional Site Work Plan: The Response to Comments and final due date were changed to 10 June 2020 to reflect the actual submittal date. This document will be moved to the History section next month.
- MOVED TO HISTORY:  
None

## 2. CURRENT PROJECTS

### Treatment Plant Operation and Maintenance Update

#### **South Base Boundary Groundwater Treatment Plant, May 2020 (see Attachment 3)**

The South Base Boundary Groundwater Treatment Plant (SBBGWTP) performed at 99.6% uptime, and 6.1 million gallons of groundwater were extracted and treated in May 2020. All treated water was discharged to Union Creek. The average flow rate for the SBBGWTP was 136.2 gallons per minute (gpm). Electrical power usage was 18,614 kilowatt hours (kWh), and approximately 15,374 pounds of CO<sub>2</sub> were created (based on DOE calculation). Approximately 0.92 of a pound of volatile organic compounds (VOCs) was removed in May. The total mass of VOCs removed since startup of the system is 527.1 pounds.

In May 2020, troubleshooting activities were performed on several extraction wells, and the backwash transfer pump and pump impeller were disassembled for cleaning to improve output, and reinstalled.

No optimization activities were conducted in May 2020.

#### **Central Groundwater Treatment Plant, May 2020 (see Attachment 4)**

The Central Groundwater Treatment Plant (CGWTP) performed at 100% uptime with approximately 971,950 gallons of groundwater extracted and treated in May 2020. All treated water was discharged to the storm sewer system which discharges to Union Creek. The average flow rate for the CGWTP was 21.9 gpm. Electrical power usage was 1,746 kWh for all equipment connected to the Central Plant, and approximately 2,180 pounds of CO<sub>2</sub> were generated. Approximately 1.93 pounds of VOCs were removed from groundwater by the treatment plant in May. The total mass of VOCs removed since the startup of the system is 11,549 pounds.

Two extraction wells were shut off on 16 May 2020 as a precautionary measure during installation of construction fencing related to the KC-46 hangar construction.

The Site SS016 subgrade biogeochemical reactor (SBGR), also known as a bioreactor, and the Site DP039 bioreactor, continued operating in May 2020.

No optimization activities occurred at the CGWTP in May 2020.

#### **LF007C Groundwater Treatment Plant, May 2020 (Attachment 5)**

The Subarea LF007C Groundwater Treatment Plant (LF007C GWTP) performed at 100% uptime with approximately 168,850 gallons of groundwater extracted and treated in May 2020. All treated water was discharged to the Duck Pond for beneficial reuse. The average flow rate was 3.8 gpm. Approximately  $9.57 \times 10^{-4}$  of a pound of VOCs was removed from groundwater by the treatment plant in May 2020. 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.

No optimization activities are reported for the month of May 2020.

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 off-base 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, May 2020 (see Attachment 6)**

Site ST018 (MTBE) Treatment Plant (ST018 GWTP) performed at 100% uptime with approximately 145,690 gallons of groundwater extracted in May 2020. All groundwater was discharged to the Fairfield – Suisun Sewer District. The average flow

rate for the ST018 GWTP was 3.3 gpm. Electrical power usage for the month was 79 kWh for all equipment connected to the ST018 GWTP. The total CO<sub>2</sub> discharge equivalent equates to approximately 58 pounds. Approximately 0.09 of a pound of MTBE, BTEX, VOCs, and TPH was removed in May by the treatment plant, and approximately 0.02 of a pound of MTBE-only was removed from groundwater. The total BTEX, MTBE and TPH mass removed since the startup of the system is 49.3 pounds, and the total MTBE mass removed since startup of the system is 12.1 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 May 2020.

### **3. Presentations:**

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

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

### **4. New Action Item Review**

1. Ms. Royer to continue reviewing the chromatograms for TPH in effluent samples from LF007C GWTP.
2. Ms. Dunphy to update the due date for Action Item 4 to 30 September 2020: Ms. Constantinescu to confer with her SMEs on whether the Air Force should proceed with collecting total bacteria samples along with TPH samples on the system influent and effluent during O&M sampling at LF007C groundwater extraction treatment system.
3. Ms. Royer will forward the 3 slides showing chromatograms at LF007C GWTP to Ms. Constantinescu.
4. Mr. Duke and Mr. Anderson will move the Potrero Hills page to the end of the MMDS, and include the Geotracker link.



## 5. PROGRAM ISSUES/UPDATE

Ms. O’Sullivan introduced Mr. Chet Storrs to the team, noting that he will be taking on more of her role with the PFAS investigations at Travis AFB, while her workload shifts to more contract management.

Ms. Touchi introduced Mr. Randall Bleichner to the team. He works in the Geological Services Unit of DTSC. In addition to her and Mr. Forrester, Mr. Bleichner will be reviewing reports and attending calls and meetings going forward.

Mr. Duke informed the team that the Optimized Remediation Contract process has officially started; there will be a regulatory engagement meeting in July to outline performance objectives and periods of performance. They hope to be able to have the meeting in person, but it will likely be held via MS Teams. He added that although not required, section leaders and other management are welcome to attend, if available. Ms. Burke said that she has participated in similar meetings for her Base Realignment and Closure (BRAC) sites, and suggested having the most recent GRISR in hand for a good sense of the status of the sites; however, Mr. Duke added that the meeting won’t likely be that technical.

## 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 construction updates for the KC-46 Hangar. This project was awarded to Walsh Construction and is being managed by a contracting element of the Navy. | 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  | Ongoing  | Open   |

|    |                                  |  |                   |      |
|----|----------------------------------|--|-------------------|------|
|    |                                  | Site SS015 during future monthly program updates.  |                   |      |
| 4. | Ms. Constantinescu and Ms. Royer | Ms. Constantinescu will confer with Water Board SMEs on whether the Air Force should proceed with collecting total bacteria samples along with TPH samples on the system influent and effluent during O&M sampling at LF007C groundwater extraction treatment system. Ms. Royer will continue to review the chromatograms for TPH in effluent samples from LF007C GWTP | 30 September 2020 | Open |
| 5. | Ms. Royer                        | Ms., Royer will forward the 3 slides showing chromatograms at LF007C GWTP to Ms. Constantinescu  | 15 July 2020      | Open |
| 6. | Mr. Duke, Mr. Anderson           | Mr. Duke and Mr. Anderson will move the Potrero Hills page to the end of the MMDS, and include the Geotracker link.  | 15 July 2020      | Open |