

**Travis Air Force Base
Environmental Restoration Program
Restoration Program Manager's
Meeting Minutes
21 August 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) meeting on 21 August 2019 at 0930 hours in Building 248 at Travis AFB, California. Attendees included:

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| Lonnie Duke | AFCEC/CZOW |
| Glenn Anderson | AFCEC/CZOW |
| Monika O'Sullivan | AFCEC/CZOW |
| Gene Clare | AFCEC/CZOW |
| Angel Santiago | AFCEC/CZOW |
| Merrie Schilter-Lowe | Travis AFB/PA |
| Kurt Grunawalt | Travis AFB/Legal |
| Haekyung Kim (via telephone) | AFCEC/CZRW |
| Sarah Miller | USACE-Omaha |
| Paul Gedbaw (via telephone) | USACE-Omaha |
| Brian Boccellato (via telephone) | USACE-Omaha |
| Dominique Forrester (via telephone) | DTSC |
| Adriana Constantinescu | RWQCB |
| Nadia Hollan Burke | EPA |
| Amanda Rohrbaugh (via telephone) | TechLaw, Inc. |
| Mike Wray | CH2M/Jacobs |
| Leslie Royer | CH2M/Jacobs |
| Levi Pratt | CH2M/Jacobs |
| Jill Dunphy (via telephone) | 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 (July 2019) |
| Attachment 4 | CGWTP Monthly Data Sheet (July 2019) |
| Attachment 5 | LF007C Monthly Data Sheet (July 2019) |
| Attachment 6 | ST018 Monthly Data Sheet (July 2019) |
| Attachment 7 | Site SD043 Site Closure Report Overview |
| Attachment 8 | Program Update |
| Attachment 9 | DP039 Monitoring Results Overview |

1. ADMINISTRATIVE

A. Previous Meeting Minutes

There were no regulatory agency comments on the draft July 2019 Meeting Minutes. The meeting minutes will be finalized with no changes.

B. Action Item Review

Action items from July 2019 were reviewed.

Action Item 1 is ongoing: Ms. O’Sullivan to provide updates on perfluorooctane sulfonate (PFOS) and perfluorooctanoic acid (PFOA). August 2019 update: Ms. O’Sullivan informed the team that the Quality Assurance Project Plan (QAPP) has been submitted and will be reviewed within the next few weeks. Sampling will likely begin in December 2019.

Action Item 2 is ongoing: Mr. Duke will continue to provide design and construction information for the new KC-46 Hangar construction project. August 2019 update: Mr. Duke said that we are still working on the document that will allow the soil excavation. The contract for hangar construction will be awarded in December 2019. He stressed the importance of finalizing the Amendment to the NEWIOU Soil, Sediment and Surface Water Record of Decision, which has been delayed for almost a year.

Action Item 3: The PMs for all agencies will elevate to their management any suggestions for keeping document reviews on schedule going forward. August 2019 update: Mr. Duke acknowledged everyone's response to this action item, thanking everyone for the suggestions as well as efforts to keep document reviews on schedule. This action item is now closed.

Action Item 4: Air Force or Jacobs to send Outlook invitations to the regulators for future meetings. August 2019 Update: Mr. Wray will send an Outlook invitation for the remainder of the 2019 meetings to the Water Board, DTSC, and EPA. Once ready, the Air Force will attach the agenda and all meeting materials to the Outlook invitation ahead of the September meeting, as well as via regular email in the event that there are issues receiving or opening those attached to the invitation. This action item is now closed.

Action Item 5: Air Force to determine appropriate path forward for Site LF008 Remedial Action Completion Report (RACR) proposing discontinuation of the monitoring aspect of the monitored natural attenuation remedy. August 2019 Update: Ms Royer explained that a "RACR" is the appropriate document because the site has achieved the remedial action objectives (RAOs). The Air Force will continue with a RACR as planned, which is discussed further in the MMDS. This action item is now closed.

Action Item 6: Ms. O'Sullivan to request a base pass for Mr. Forrester. August 2019 Update: This action item is still open.

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 a teleconference held on Wednesday, 18 September 2019, at 0930.

The 2020 Meeting Schedule has been provided so that attendees can start planning ahead for next year.

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, but not likely in 2019.

- Amendment to the NEWIOU Soil, Sediment, and Surface Water Record of Decision (ROD) for the Travis AFB ERP Sites SS016 and SD033: The Response to Comments and Draft Final due dates were changed to 29 August 2019; the Final due date was changed to 30 September 2019. EPA requested that the new toxicity criteria rule (TCR) language be placed in the ARARs table, and also asked that the document indicate if residential cleanup levels aren't achieved, that land use controls (LUCs) will be imposed. The Water Board requested that regulatory project managers be included in the email communications. **This is a super-critical document** due to site work supporting planned KC-46 hangar construction, and it has been **delayed for almost a year**.
- No Further Action (NFA) ROD for Old Skeet Range (TS060 and TS060A Munitions Response Sites): There has been no change to the schedule. Signatures from state agencies have been received. The signature page continues to make its way through the Air Force Civil Engineer Center. The EPA and Air Force have tentatively agreed to address the EPA's Community Relations concerns in the document submittal cover letter; and include the transcript from the public meeting in the Administrative Record. Mr. Anderson will draft up language to this end, and send to Ms. Burke to forward to her legal counsel for approval. The agencies were asked if they will want a paper copy of the final document or an electronic copy (pdf). All agencies said they wanted an electronic copy. **This is becoming a critical document, because it affects two site closures, and MUST be finalized by the end of the fiscal year.**
- Site SS016 Remedial Design/Remedial Action Work Plan: There was no change to the schedule. Due to recent changes to the amendment to the NEWIOU Soil ROD, this document will need to be revised in accordance with those changes. The EPA, DTSC, and Water Board agreed to the Air Force submitting a redline strikeout work plan that includes the changes to the revised ROD amendment. This excavation project is located within the footprint of the future new KC-46 hangar, so **this document is critical and is delayed due to excessive delays on the Amendment to the NEWIOU Soil, Sediment and Surface Water ROD.**
- Site SD031 Soil Remedial Investigation/Feasibility Study (RI/FS): The Draft to Agencies date was changed to 12 September 2019; the rest of the schedule was changed accordingly. **This document is important and although not time-critical, must be completed during the current contract.**
- Fourth Five-Year Review Report for Multiple Groundwater, Soil, and Sediment Sites: No change was made to the schedule; the Responses to Comments, Draft Final, and Final due dates remain TBD. The Air Force and EPA will schedule a teleconference to discuss EPA's comments and the Air Force's proposed responses. **This document is very important but not critical.**
- Addendum to the Site SS016 Groundwater Remedial Design/Remedial Action (RD/RA) Work Plan (WP): this document was finalized on 2 August 2019.
- Potrero Hills Annex (FS, PP, and ROD): No change was made to the schedule; Mr. Anderson noted that the contractor is waiting on Water Board responses to their

proposal to close the groundwater component of the site using the Water Board Low-Threat Closure Policy.

- Quarterly Newsletter (October 2019): The schedule for the October 2019 version was set up. The Predraft to Air Force/Service Center date is 18 September 2019. The final October newsletter is due on 18 October 2019.
- 2018 Annual Groundwater Remediation Implementation Status Report (GRISR): The Response to Comment and Final due dates were changed to 30 August 2019. Comments from all agencies have been received; however, the EPA has asked for additional information for some comments. Mr. Anderson expressed appreciation to the agencies for expediting their reviews to the extent possible for such a large document. The Air Force is looking for ways to make review of the GRISR more efficient; Ms. Royer took the action to discuss this with the Jacobs team. The Final document must be submitted by the end of the fiscal year (September 2019).
- Site SD043 Remedial Action Completion Report: The Response to Comments due date and Final due date were changed to 23 July 2019 to reflect actual submittal dates. The EPA indicated they will send a letter to the AF confirming closure of the soil component of this site. This document is complete and will be moved to the History section next month.
- Site SS046 Remedial Action Completion Report and Well Decommissioning Work Plan: The Response to Comments and Final due dates were changed to 13 September 2019. The Water Board had no comments. Air Force responses to DTSC comments have been accepted. The Air Force is waiting on EPA's acceptance of Air Force responses to their comments. Management at the US Army Corps of Engineers and the Air Force are closely monitoring the progress of this document due to expiring funds.
- 2018 Annual Site LF007 Corrective Action Management Unit Inspection, Monitoring, and Maintenance Report: The Draft to Agencies due date was changed to 15 August 2019 to reflect actual submittal date; the rest of the schedule was changed accordingly. EPA and Water Board indicated they will defer to DTSC to review this document; Mr. Forrester informed the team that he has sent the report to their engineering services unit for review.
- Site SD043 Site Closure Report: The Draft to Agencies due date was changed to 6 August 2019 to reflect actual submittal; the rest of the schedule was changed accordingly. EPA requested an additional 30 days due to timing with the end of the Federal Fiscal Year; Mr. Duke and Mr. Anderson agreed to extend the RTC date to October 7. The rest of the schedule will be changed accordingly on next month's MMDS. Mr. Pratt will provide an overview of the report in a presentation later in this meeting
- Site LF008 Remedial Action Completion Report: The Draft to Agencies due date was changed to 9 September 2019; the rest of the schedule was changed accordingly based on discussions regarding changes to the remedy.

- Site SS046 Well Decommissioning and Site Closeout Tech Memo: This is a new document; the Predraft to Air Force/Service Center due date was set at 29 August 2019. The Travis AFB document lead will be Mr. Anderson; the CH2M task lead will be Mr. Berwick; and the CAPE task lead will be Ms. Greenwald. Ms. Burke stressed that these documents are important in their signing off on site closures.
- Site SS046 Site Closure Report: This is a new document; all dates are TBD. Doug Berwick will be the task manager responsible for this document. This report will include removal of infrastructure and decommissioning of piezometers and will justify that no media of concern remain at the site.
- Site SS014 POCO Subsites 2, 4, and 5 Closure Report: The Response to Comments and Final due dates were changed to 23 July 2019 to reflect actual submittal. This document will not close the entire SS014 site (that can't be done until all subsites are closed), but will provide the information necessary when the site is ready for closure of the various subsites. The Water Board will consider issuing NFA letters for subsites 4 and 5.

MOVED TO HISTORY:

- None

2. CURRENT PROJECTS

Treatment Plant Operation and Maintenance Update

South Base Boundary Groundwater Treatment Plant, July 2019 (see Attachment 3)

The South Base Boundary Groundwater Treatment Plant (SBBGWTP) performed at 98.7% uptime, and 7.3 million gallons of groundwater were extracted and treated in July 2019. All treated water was discharged to Union Creek. The average flow rate for the SBBGWTP was 165.5 gallons per minute (gpm). Electrical power usage was 18,321 kilowatt hours (kWh), and approximately 15,158 pounds of CO₂ were created (based on DOE calculation). Approximately 1.1 pounds of volatile organic compounds (VOCs) was removed in July. The total mass of VOCs removed since startup of the system is 518.6 pounds.

In July 2019, troubleshooting was performed several extraction wells. Details can be found in Attachment 3.

Optimization activities conducted in July 2019 include:

- Plumbing in new influent holding tank
- Installation of a new transfer pump
- Plumbing in four (4) additional 2,000-pound granulated activated carbon (GAC) vessels

Central Groundwater Treatment Plant, July 2019 (see Attachment 4)

The Central Groundwater Treatment Plant (CGWTP) performed at 100% uptime with approximately 1,201,980 gallons of groundwater extracted and treated in July 2019. All treated water was discharged to the storm sewer system which discharges to Union Creek. The average flow rate for the CGWTP was 27.0 gpm. Electrical power usage was 2,382 kWh for all equipment connected to the Central Plant, and approximately 2,651 pounds of CO₂ were generated. Approximately 2.4 pounds of VOCs were removed from groundwater by the treatment plant in July. The total mass of VOCs removed since the startup of the system is 11,526 pounds.

Optimization Activities for CGWTP: The DP039 bioreactor continues to operate in July 2019. No other optimization activities are reported for the month of July 2019.

LF007C Groundwater Treatment Plant, July 2019 (Attachment 5)

The Subarea LF007C Groundwater Treatment Plant (LF007C GWTP) performed at 100% uptime with approximately 220,196 gallons of groundwater extracted and treated in July 2018. All treated water was discharged to the Duck Pond for beneficial reuse. The average flow rate was 4.9 gpm. Approximately 7.2×10^{-4} pound of VOCs was removed from groundwater by the treatment plant in July 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.

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

ST018 Groundwater (MTBE) Treatment Plant, July 2019 (see Attachment 6)

Site ST018 (MTBE) Treatment Plant (ST018 GWTP) performed at 100% uptime with approximately 168,780 gallons of groundwater extracted in July 2019. All groundwater was discharged to the Fairfield – Suisun Sewer District. The average flow rate for the ST018 GWTP was 3.8 gpm. Electrical power usage for the month was 91 kWh for all equipment connected to the ST018 GWTP. The total CO₂ discharge equivalent equates to approximately 67 pounds. Approximately 0.06 pound of MTBE, BTEX, VOCs, and TPH was removed in July by the treatment plant, and approximately 0.02 pound of MTBE-only was removed from groundwater. The total BTEX, MTBE and TPH mass removed since the startup of the system is 48.3 pounds, and the total MTBE mass removed since startup of the system is 11.8 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.

On 25 July, extraction well EW2014x18 was shut down and the pump was removed so the well could be redeveloped. The pump was then taken apart, cleaned, reassembled, reinstalled, and restarted on 9 July.

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

3. Presentations:

A) Site SD043 Site Closure Report (see Attachment 7)

Mr. Pratt presented an overview of the Site SD043 Site Closure Report, providing results of the groundwater closure monitoring, demonstrating that closure requirements specified in the Groundwater ROD have been attained, and documenting site closure for the site. Please refer to Attachment 7 for the full briefing.

B) Program Update: Activities Completed, In Progress, and Upcoming (see Attachment 8)

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

A) Site DP039 Bioreactor Monitoring Update (see Attachment 9)

Ms. Royer presented the Site DP039 bioreactor monitoring results and future short-term monitoring plans. Please refer to Attachment 9 for the full briefing.

4. New Action Item Review

1. Ms. Royer to look into ways to make the GRISR a smaller, more easily reviewable document.
2. Mr. Duke and Ms. O'Sullivan to include PFAS in the DSMOA funding.
3. The Water Board will issue an NFA letter for Site ST032 before the end of August.

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/Ms. Dunphy | Air Force or Jacobs to send Outlook invitations to the regulators for future meetings. | 18 September 2019 | Closed |
| 4. | Ms. O'Sullivan | Ms. O'Sullivan to request base pass for Mr. Forrester. | 18 September 2019 | Open |
| 5. | Ms. Royer | Ms. Royer to look into ways to make the GRISR a smaller, more easily reviewable document. | 18 September 2019 | Open |
| 6. | Mr. Duke/Ms. O'Sullivan | Mr. Duke and Ms. O'Sullivan to include PFAS in the DSMOA funding. | 18 September 2019 | Open |
| 7. | Ms. Constantinescu | The Water Board will issue an NFA letter for Site ST032 before the end of August | 18 September 2019 | Open |