

**Travis Air Force Base  
Environmental Restoration Program  
Restoration Program Manager's  
Meeting Minutes  
20 April 2022, 0930 Hours**

Mr. Chet Storrs of the Air Force Civil Engineer Center (AFCEC) Restoration Installation Support Section (ISS) conducted the Restoration Program Manager's (RPM) teleconference on 20 April at 0930 hours.

The 60 AMW/CC at Travis Air Force Base (AFB) has directed Health Protection Condition (HPCON) Bravo in response to improving COVID-19 public health conditions in the local area. Mask wearing on base is currently not mandated. Visitors are permitted with an approved base pass.

**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:**

- |                          |                      |
|--------------------------|----------------------|
| • Chet Storrs            | AFCEC/CZOW           |
| • Mobashir Ahmad         | AFCEC/CZOW           |
| • Angel Santiago         | AFCEC/CZOW           |
| • Kurt Grunawalt         | Travis AFB 60 AMW/JA |
| • Lou Briscese           | Travis AFB 60 AMW/PA |
| • Dave Leeson            | AFCEC                |
| • Kim Rasmussen          | 60 CES/CEIE          |
| • Jessica Faragalli      | USACE-Sacramento     |
| • Ryan Sinnott           | USACE-Sacramento     |
| • Julie Higgins          | USACE-Sacramento     |
| • Alan Soicher           | USACE-Omaha          |
| • Nadia Burke            | EPA                  |
| • Kimiye Touchi          | DTSC                 |
| • Dave Kremer            | DTSC                 |
| • Adriana Constantinescu | RWQCB                |
| • Megan Duley            | SRS                  |
| • Diane Escobedo         | SRS                  |
| • Gaby Atik              | FPM                  |
| • Chris Coonfare         | FPM                  |
| • Lynette Mockry         | FPM                  |
| • Leslie Royer           | Jacobs               |
| • Doug Berwick           | Jacobs               |
| • Jill Dunphy            | Jacobs               |

Handouts distributed prior to the meeting included:

- Attachment 1: Meeting Agenda
- Attachment 2: Master Meeting and Document Schedule
- Attachment 3: Travis AFB LUC Sites Update (April 2022)
- Attachment 4: Travis AFB PFAS Update (April 2022)
- Attachment 5: Groundwater Treatment System Updates (January through March 2022)
- Attachment 6: ORC Program Update (April 2022)
- Attachment 7: Presentation: Site SD031 Data Gaps Investigation Work Plan
- Attachment 8: Presentation: Phase 1 Remedial Investigation of AFFF Areas (April 2022)

## **I. TRAVIS AFB UPDATES**

### **A. ADMINISTRATIVE**

#### **1. Agenda and Introductions**

Mr. Storrs started the meeting and reviewed the agenda.

#### **2. Previous Meeting Minutes**

Mr. Storrs noted that the regulatory agency representatives have provided comments via email, and the Final was sent via email on 29 March 2022. He added that since we have gone to quarterly meetings, he would like to develop a regular schedule for submitting the Draft version to the agencies, receiving comments, and providing a final version. Ms. Dunphy of Jacobs took the action for Jacobs to work with him and SRS/Oneida to develop this schedule. She added that her goal is to get the Draft out to the full team by the date of what would be the monthly RPM meeting. The agencies agreed that they do not need very long to review meeting minutes, which Mr. Storrs agreed to take into consideration upon developing the timeline. Ms. Dunphy clarified that the schedule will be a guideline and should be flexible to a certain extent to allow for workload and time off.

Since future meeting minutes will be finalized prior to the regularly scheduled RPM meetings, this item will be removed from future agendas and meeting minutes.

#### **3. Action Item Review**

Travis AFB Action Items:

Action Item 1: Mr. Storrs will send an invitation to the regulators for the upcoming LUC inspections. April 2022 update: This action item has been closed.

Action Item 2: Mr. Storrs will create a small video of the Site SD037 for Building 977 for the regulators to understand the site conditions and planned work. April 2022 update: This action item has been closed.

Action Item 3: Mr. Storrs will send the POETs installation summary reports to the regulatory agencies. April 2022 update: This action item has been closed.

Action Item 4: Mr. Storrs will inquire with POETs property owners regarding disclosure of data. April 2022 update: This action item has been closed.

Action Item 5: Mr. Storrs will inquire with AFLOA regarding release of Expanded Site Inspection data to regulatory agencies per the clause in the Porter-Cologne Act, and to which agency he is able to release data if the property owners provide permission. The regulatory agency representatives will check with their management and legal teams regarding protection of the PII included therein. April 2022 update: The Air Force received guidance from AFLOA that releasing data from private property owners to regulatory agencies will be reviewed at the AFCEC level. This was also discussed at the EPA Region 9 stakeholder meeting last month. This action item has been closed.

Action Item 6: Mr. Storrs will coordinate a meeting with AFLOA and the regulatory agencies (and their respective legal departments) about release of private well data and protection of PII. The regulatory agencies will coordinate availability with their respective legal departments for this meeting. April 2022 update: This action item has been closed.

Action Item 7: Ms. Burke will inquire with her agency SMEs about testing for PFAS in concrete rubble. April 2022 update: This action item has been closed.

Action Item 8: Ms. Constantinescu will email her comments on the November 2021 meeting minutes. April 2022 update: This action item has been closed.

Action Item 9: Ms. Touchi will provide a date by which the DTSC will provide comments on the Expanded Site Inspection. April 2022 update: This action item has been closed.

#### ORC Action Items:

Action Item 10: Ms. Royer and Mr. Berwick will look into details of the last shutdown at the SBBGWTP to see what impact the previous shutdown had on remediation progress. April 2022 update: This action item has been closed.

Action Item 11: Mr. Berwick will verify, and correct if necessary, apparent typos noted on the SBBGWTP November 2021 monthly data sheets. April 2022 update: This action item has been closed.

Action Item 12: Mr. Storrs will inquire with JEPP and AFLOA regarding the possibility of DTSC sampling for PFAS at GWTPs when Jacobs conducts a sampling event. He will also inquire about modifying the ORC to collect samples for PFAS analysis at the GWTPs during monthly O&M sampling. April 2022 update: This action item has been closed.

Action Item 13: Ms. Touchi will check with her management about the possibility of DTSC collecting samples for PFAS analysis at the GWTPs when Jacobs is collecting for other parameters. April 2022 update: This action item has been closed.

Action Item 14: Ms. Constantinescu will inquire with management about potential ways to conduct additional sampling for PFAS south of TAFB and will coordinate a meeting with the AF. April 2022 update: This action item has been closed.

#### PFAS Contract Action Items:

Action Item 1: Send meeting minutes to Travis AFB. April 2022 update: This action item has been closed.

Action Item 2: Coordinate time for meetings with agencies. April 2022 update: This action item has been closed.

Action Item 3: Preliminary data package (tables/figures) providing data from Field Event 1 to be distributed prior to 16 February meeting with the agencies. April 2022 update: This action item has been closed.

#### **4. 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 regulatory agency representatives noted that their organizations are permitting travel and in-person meetings. The team decided to hold the July RPM meeting in-person. Ms. Royer/Jacobs will continue to send out the invitations. There was discussion about potential technical issues for screen sharing via Teams during in person meetings, but since the invitations include a dial-in number and the handouts are provided prior to the meeting, this should not present too much of an issue.

Ms. Burke requested that the meeting start time be moved to 1000 due to an ongoing conflict. The team agreed. Mr. Storrs took the action to update the Master Meeting Schedule according to today's discussions, and send the updated schedule to the full team.

The next RAB meeting is scheduled for October 2022. Barring any new COVID restrictions, this meeting will be held in-person.

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

- Universal Federal Program Quality Assurance Program Plan (UFP-QAPP): The Draft to Agencies/RAB due date was changed to 26 April 2022; the rest of the schedule changed accordingly.
- Site SD031 Data Gaps Investigation Work Plan: Draft to Agencies/RAB due date was changed to 14 April 2022; the rest of the schedule changed accordingly.
- Community Relations Plan (CRP) Update: There was no change to the schedule. Now that the ORC has been awarded, this document has been re-prioritized; the first step in the update is a community survey which is currently under review within the Air Force. Dates will be assigned once the survey results are available.
- 2021 Annual Groundwater Remediation Implementation Status Report (GRISR): This is a new document. Travis AFB staff assigned to this document is Mobashir Ahmad, the contractor staff assigned to this document is Levi Pratt/Jacobs. The Predraft to AF/Service Center was assigned a due date of 6 May 2022; the remainder of the dates were assigned accordingly. The agencies noted that a 30 day review period was not long enough for a document of this size and complexity. They requested an additional 30 days to review the annual GRISR, which the Air Force has agreed to for the past several years. The Air Force agreed that the agencies could request additional time to review the 2021 GRISR once they receive the Draft, but stated that until that time, the MMDS would continue to show a 30-day review period for the 2021 GRISR. Ms. Burke mentioned the guidance outlined within the Federal Facilities Agreement (FFA) with respect to review timeframes for data as well as primary and secondary documents. Additional notes from the FFA discussion are covered under Travis AFB Updates/Program Issues and Updates.

- Potrero Hills Annex (FS, PP, and ROD): There were no updates to the schedule.

**Moved to history:**

- None

## **B. CURRENT PROJECTS**

### **1. PFAS Update (Attachment 3)**

Mr. Storrs reported on the PFAS updates for Travis AFB. Please refer to Attachment 4 for the full briefing. Highlights of the discussion are as follows:

- Mr. Storrs clarified that this discussion covers all PFAS updates not related to the Aqueous Film Forming Foam (AFFF) Remedial Investigation (RI).
- Sampling, routing operation and maintenance, and necessary cartridge changeouts have been completed at the three point of entry treatment systems (POETS). The Air Force expects to receive data sometime in May.
- Air Force responses to comments on the Expanded Site Inspection are with the POETS contractor and AFCEC management for review. This is not an ISS document.

### **2. PFAS Updates (Attachment 4)**

Mr. Storrs reported on the status of the LUC sites at Travis AFB. Please refer to Attachment 3 for the full briefing. Highlights of the discussion are as follows:

- The acronym “NSTR” on the slides means “nothing significant to report.”
- Mr. Hickey noted that Mr. Seth Murgler is the appropriate contact at Travis AFB for concerns regarding the Air Force’s responses to comments on the Environmental Assessment report. Mr. Storrs took the action to forward contact information for Mr. Hickey and Mr. Murgler to the regulatory agency representatives.

## **C. PROGRAM ISSUES/UPDATE**

The team discussed the FFA, specifically: what is considered a primary vs. secondary document, when data should be received from the Air Force if the corresponding document will not be published within a specified time frame, and the review times for primary and secondary documents. Also discussed were notification timeframes prior to sampling events. Ms. Burke cited Section 7.7 (sections a and b) Review and Comment on Draft Documents, and Section 22 subsections 22.1 and 22.2 Data Document and Availability. No decisions or agreements were reached during this discussion, and the team agreed that a separate meeting was necessary to arrive at a team decision regarding these topics for future documents, data packages, and sampling events. Mr. Storrs took the action to contact AFCEC about these topics and coordinate a meeting with the regulatory agency representatives.

The regulatory agency representatives also requested that all documents requiring agency review and comment discussed during RPM meetings be included on the MMDS, regardless of contractor author, and that the MMDS be sent out monthly. The team agreed on including all documents requiring agency review from Jacobs and SRS/Oneida

in the MMDS. Ms. Duley took the action to provide Jacobs with updates for the SRS/Oneida documents going forward. Further discussion about specific review timeframes to be included in the next MMDS for SRS/Oneida documents can be found under the SRS/PFAS Contract section. Regarding the frequency of providing the MMDS to the team, Mr. Storrs clarified that the MMDS is updated anytime the schedule for one of the included documents changes, and will begin providing the MMDS as it is updated.

#### D. ACTION ITEMS

Item #	Responsible	Action Item Description	Due Date	Status
1	Chet Storrs	Mr. Storrs will update the Master Meeting schedule with the new meeting start time of 1000, will designate July as an in-person meetings, and begin alternating in-person and Teams RPM meetings.	18 May 2022	Closed
2	Chet Storrs, Jill Dunphy	Mr. Storrs will coordinate an RPM Meeting Minutes schedule with Jacobs	18 May 2022	Open
3	Chet Storrs	Mr. Storrs will get guidance from AFCEC regarding appropriate timeframes for providing data to the regulatory agencies.	18 May 2022	Open
4	Chet Storrs, Nadia Burke, Adriana Constantinescu, Kimiye Touchi	Mr. Storrs will review the FFA and coordinate a meeting with the agencies to discuss documents, document review schedules, and data delivery schedules.	18 May 2022	Open
5	Chet Storrs	Mr. Storrs will provide Mr. Seth Murgler's contact information to the agencies for LUC concerns.	16 Feb 2022	Closed
6	Dylan Hickey	Mr. Hickey will send the Air Force RTCS and a link to the final Environmental Analysis for runway repairs to the agencies.	18 May 2022	Open
7	Chet Storrs, Leslie Royer, Megan Duley	Mr. Storrs, Ms. Royer, and Ms. Duley will ensure all reviewable documents are included in the MMDS and will keep the schedules for their respective documents up to date. Mr. Storrs will ensure the agencies receive a copy of the MMDS anytime the schedule for one of the documents is updated.	18 May 2022	Ongoing

## **II. OPTIMIZED REMEDIATION CONTRACT UPDATES**

### **A. Administrative**

All administrative topics were discussed earlier in the RPM meeting.

### **B. CURRENT PROJECTS**

#### **1. Groundwater Treatment Plant Reports (Attachment 5)**

Ms. Royer reported on the status of the groundwater treatment plants at Travis AFB. Please refer to Attachment 5 for the full briefing. Highlights of the discussion are as follows:

- Ms. Burke noted that she didn't receive notification of the LF007 GWTP being restarted and sampled. Ms. Royer replied that the O&M summary only covers completed months for which the monthly O&M reports have been submitted. Ms. Burke said the agencies should be getting notified ahead of any sampling event and when systems go on- and off-line, again citing the FFA. (See previous section Travis AFB Updates/Program Issues and Updates for more details about the FFA discussion).
- Ms. Touchi inquired about the fluorine analysis included in the carbon profile provided by Mr. Storrs. Ms. Royer and Mr. Ahmad replied that the carbon regeneration vendor had to provide it to the State of PA plus EPA Region 7 approval of the regeneration permit.

#### **2. Program Update (Attachment 6)**

Ms. Royer reported on the status of the Optimized Remediation Contract at Travis AFB. Please see Attachment 6 for the full briefing.

### **C. PRESENTATIONS**

#### **1. Site SD031 Data Gaps Investigation Work Plan (Attachment 7)**

Mr. Chakurian presented an overview of the Site SD031 Data Gaps Investigation Work Plan. Please see Attachment 7 for the full briefing. Mr. Chakurian clarified that this presentation specifies initial sampling locations only; the location of future step-out samples will be determined by the data from the initial samples.

### **D. PROGRAM ISSUES/UPDATE**

None.

## E. ACTION ITEMS

Item #	Responsible	Action Item Description	Due Date	Status
		No new ORC action items were identified during this meeting.		

## III. SRS PFAS CONTRACT

### A. ADMINISTRATIVE

All administrative topics were discussed earlier in the RPM meeting prior to the Oneida Team presentation.

### B. PRESENTATIONS/PROGRAM ISSUES/UPDATES

#### 1. Travis AFB Phase I RI of AFFF Sites (Attachment 8)

##### **Phase 1 Remedial Investigation Data-Driven Process**

Ms. Duley presented a diagram illustrating the current progress and upcoming activities as part of the data-driven process for this Phase I RI. The UFP-QAPP Addendum No. 1 was submitted 31 March 2022 and is currently under regulatory review.

##### **UFP-QAPP Addendum No. 1**

The Oneida Team anticipates regulatory review by 30 April 2022.

The Oneida Team will work with the Travis AFB team to schedule a meeting to resolve comments in preparation of Field Event #2.

##### **Next Steps**

As the UFP-QAPP Addendum No. 1 is under review, the Oneida Team has begun to prepare for the upcoming activities as part of Field Event #2. Some of the high priority items include obtaining technical airfield construction waiver (TACW), an updated biological project analysis (PA) submittal for U.S. Fish and Wildlife Service (USFWS), and coordination for intrusive groundwork. The findings from Field Event #2 will help develop the CSM. Field activities are anticipated to begin in May 2022 and to be completed by October 2022 during the construction season.

During Field Event #1, the Oneida Team performed groundwater sampling using the current biological PA. Field Event #2 will have ground intrusive work such as borings and installations and will require an updated Biological PA. The updated biological PA will list out mitigation measures required in different areas as required to protect threatened and endangered species.



## **Updated Biological Project Analysis**

### **Figure 18-2, UFP-QAPP Addendum No. 1**

Ms. Touchi asked for clarity regarding the buffer illustrated around the vernal pools in Figure 18-2. Ms. Duley explained that this is a 50 ft buffer that helps establish a perimeter around the seasonal wetlands and vernal pools. The team is currently revising two proposed locations that were found to be within a vernal pool. Mr. Hickey, Travis AFB biologist, noted that the 50 ft buffer is not required but supports reduction in potential impacts to habitat or sensitive areas.

### **Figure 18-18, UFP-QAPP Addendum No. 2**

Ms. Touchi asked if the two wells (MW2204xFT005P and MW2205xFT00fP) off-Base near the wetlands and 50 ft buffer area near Highway 12 may also require consideration for habitat or environmental impacts. Mr. Hickey explained that the extent of species analysis ends at the Base boundary and there may not be detailed survey maps available for the proposed off-Base locations. The team will have a biologist on site who will review all locations (on- and off-Base) prior to sampling and well installation. It is not shown clearly on Figure 18-18, but these wells are in compliance as they are not actually located on the buffer zone. Mr. Storrs stated that the team will not be drilling directly on the pavement but on the side of the road (right of way). Mr. Hickey noted that the shapefile showed the wells in the roadway. Mr. Mayry (Oneida) will reach out to Mr. Hickey to clarify the proposed location and attempt to provide a shapefile with higher resolution to portray the exact locations (road right of way) better accurately for proposed sampling and installations.

Ms. Touchi asked if the UFP-QAPP Addendum No. 1 will include the updated avoidance and mitigation measures from the new PA. Ms. Duley stated that the Final UFP-QAPP states that the project will perform activities in accordance with the Biological Opinion, PA, and all required mitigation measures. The UFP-QAPP Addendum No. 1 will not include the updated Biological PA within the text, but it can be provided to the Team.

### **Field Event #2**

Mr. Storrs acknowledged the challenges accompanying the off-Base sampling activities. Mr. Storrs is seeking guidance from Air Force Legal to proceed with access to off-Base property and noted it may take over a year or could cause project delays. Ms. Constantinescu noted that the suggestions for revising proposed well locations seem reasonable. Ms. Constantinescu asked what the white lines illustrated in Figure 18-18 represent. Ms. Duley clarified that the white lines indicate parcel.

The Oneida Team is scheduled for Flightline driving training on 26 April 2022.

### **Schedule**

Ms. Constantinescu asked what the proposed schedule was for the next steps of review of the UFP-QAPP Addendum. The Team discussed timeframes required for comment resolution and beginning work in May 2022 to meet constraints associated with the construction season. Ms. Duley noted that with the initial 2 meetings presenting the data, recommendations, and seeking input and consensus during development of the UFP-QAPP Addendum No. 1, they were not anticipating a large number of comments. They discussed how to address and respond to comments and generate next document iterations. The Team agreed to

submit comments by 29 April 2022 since 30 April 2022 is a Saturday. Oneida will generate RTCs and a RLSO document to provide to the agencies by 6 May 2022 and schedule a comment resolution meeting for the following week. If there are no comments that would prevent field work from progressing, Oneida will continue to target mobilization in May 2022. The Team agreed that the RLSO document could serve as the draft final and that once RTCs and RLSO were agreed to, Oneida would send the Final document, which could occur parallel with field mobilization as long as all stakeholders were in agreement. Ms. Duley will send the proposed schedule to the Team and will include Oneida documents in the Master Document Schedule, which is updated and discussed at each RPM meeting. (Note: later discussions resulted in an agreement to provide the Master Document Schedule after the schedule for any document is updated).

### **C. ACTION ITEMS**

<b>Item #</b>	<b>Responsible</b>	<b>Action Item Description</b>	<b>Due Date</b>	<b>Status</b>
1	Megan Duley/ Diane Escobedo	Send meeting minutes to Travis AFB.	2 May 2022	Closed
2	Megan Duley/ Chet Storrs	Coordinate time for meetings with agencies for UFP-QAPP Comment Resolutions.	ASAP	Closed
3	Mat Mayry/ Oneida Team	Coordinate with Mr. Hickey for a revised Shape File for Field Event #2	9 May 2022	Closed

**AGENDA**  
**TRAVIS AIR FORCE BASE**  
**ENVIRONMENTAL RESTORATION PROGRAM**  
**RESTORATION PROGRAM MANAGER'S MEETING**

The RPM Teleconference is scheduled for 9:30 am PST, 20 Apr 2022. The call-in number will be provided in the MS Teams meeting invite and also in the same email that the meeting materials are provided in. If you are able to participate via MS Teams meeting, you will see the shared documents that will be viewable by all participants.

**A. TRAVIS INSTALLATION SUPPORT SECTION**

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1. ADMINISTRATIVE
  - a. Introductions
  - b. Action Item Review
  - c. Master Meeting and Document Schedule Review
2. UPDATES
  - a. PFAS
  - b. Land Use Controls

**B. JACOBS OPTIMIZED REMEDIAL CONTRACT (ORC)**

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1. ADMINISTRATIVE
2. CURRENT PROJECTS
  - a. Treatment Plant Operation and Maintenance Update (New Format)
3. PROGRAM UPDATE
  - a. Documents & Activities Completed, In Progress & Planned
4. PRESENTATIONS
  - a. ORC Program Update
  - b. Site SD031 Data Gaps Investigation Work Plan
  - c. Groundwater Treatment Systems Update

**C. ONIEDA AFFF REMEDIAL INVESTIGATION**

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1. ADMINISTRATIVE
2. PROGRAM UPDATE

**2022**

**Annual Meeting and Teleconference Schedule**

<b>Monthly RPM Meeting</b>	<b>Monthly Placeholder (Optional as needed)</b>	<b>Restoration Advisory Board Meeting</b>
19 Jan (Wed) 0930 PST	—	—
—	16 Feb (Wed) 0930 PST	—
—	16 Mar (Wed) 0930 PST	—
20 Apr (Wed) 0930 PST	—	21 Apr (Thu) 1900 PST
—	18 May (Wed) 0930 PST	—
—	15 Jun (Wed) 0930 PST	—
20 Jul (Wed) 0930 PST	—	—
—	17 Aug (Wed) 0930 PST	—
—	21 Sep (Wed) 0930 PST	—
—	20 Oct (Thu) 1400 PST	20 Oct (Thu) 1900 PST
16 Nov (Wed) 0930 PST	—	—
Dec – No meeting scheduled	Dec – No meeting scheduled	—

## Travis AFB Master Meeting and Document Schedule

PRIMARY DOCUMENTS			
Life Cycle	UFP-QAPP Travis AFB, Mobashir N. Ahmad FPM, Chris Coonfare	Site SD031 Data Gaps Investigation Work Plan Travis AFB, Mobashir N. Ahmad Jacobs, Levi Pratt	Community Relations Plan Update Travis AFB,TBD Jacobs, Jill Dunphy
<b>Scoping Meeting</b>	NA	NA	NA
Predraft to AF/Service Center	01-06-22	01-20-21	08-23-16
AF/Service Center Comments Due	02-07-22	02-22-22	09-07-16
Draft to Agencies / RAB	04-26-22	04-14-22	09-28-16 (03-22-18)
<b>Agency Comments Due</b>	06-22-22	06-13-22	10-28-16 (04-27-18)
<b>Response to Comments Meeting</b>	07-20-22	06-15-22	TBD
Agency Concurrence with Remedy	NA	NA	NA
Public Comment Period	NA	NA	NA
<b>Public Meeting</b>	NA	NA	NA
Response to Comments Due	07-27-22	07-12-22	TBD
Draft Final Due	07-27-22	07-12-22	TBD
Final Due	08-24-22	08-12-22	TBD

## Travis AFB Master Meeting and Document Schedule

INFORMATIONAL DOCUMENTS	
Life Cycle	2021 Annual Groundwater Remediation Implementation Status Report Travis AFB, Mobashir N. Ahmad Jacobs, Levi Pratt
<b>Scoping Meeting</b>	NA
Predraft to AF/Service Center	05-06-22
AF/Service Center Comments Due	06-06-22
Draft to Agencies / RAB	06-20-22
Agency Comments Due	07-21-22
<b>Response to Comments Meeting</b>	08-17-22
Response to Comments Due	08-31-22
Draft Final Due	NA
Final Due	08-31-22
Public Comment Period	NA
<b>Public Meeting</b>	NA

## Travis AFB Master Meeting and Document Schedule

PRIMARY DOCUMENTS			
Life Cycle	Potrero Hills Annex Travis, Chet Storrs		
	FS	Proposed Plan	ROD
<b>Scoping Meeting</b>	<b>180 days after Water Board Order Rescinded</b>	<b>+470 days</b>	<b>+735 days</b>
Predraft to AF/Service Center	+ 270 days	+530 days	+ 915 days
AF/Service Center Comments Due	+ 300 days	+560 days	+ 975 days
Draft to Agencies	+330 days	+590 days	+ 1035 days
Draft to RAB	+ 330 days	+590 days	+ 1035 days
Agency Comments Due	+390 days	+650 days	+ 1095 days
<b>Response to Comments Meeting</b>	<b>+ 405 days</b>	<b>+665 days</b>	<b>+ 1110 days</b>
Agency Concurrence with Remedy	NA	NA	+ 1130 days
Public Comment Period	NA	+735 to 765 days	NA
<b>Public Meeting</b>	<b>NA</b>	<b>+745 days</b>	<b>NA</b>
Response to Comments Due	+430 days	+695days	+ 1190 days
Draft Final Due	+430 days	+695 days	+ 1190 days
Final Due	+460 days	+725 days	+ 1250 days

[https://geotracker.waterboards.ca.gov/profile\\_report.asp?global\\_id=SL20299915](https://geotracker.waterboards.ca.gov/profile_report.asp?global_id=SL20299915)



# PFAS Updates



## Point-Of-Entry-Treatment-Systems

EA ID 661 & 663

- Completed quarterly sampling of system midpoint and effluent.
- Performed routine O&M tasks, including inspection and change out of pre- and post- filter cartridges.

EA ID 662:

- Completed quarterly sampling of system midpoint and effluent.
- Performed routine O&M tasks, including inspection of the pre- and post-filter cartridges, and change out of the pre-filter cartridge.
- Post-filter cartridge did not require change out







# PFAS Updates



## Expanded Site Inspection

Response to regulatory comments continues. RTC expected complete by end-of-month.





# Land Use Control Updates



- SS016-KC-46 Hangar Project
  - Horizontal EW003Ax16 testing currently under way.
  - Inter coordination continues for pressure testing conveyance line.
- SD037-Bldg. 977, Aerial Port
  - NSTR
- LF044, Concrete batch plant construction
  - NSTR
- SS016/SS029/ST032 Runway Repairs
  - NSTR



# Air Force Civil Engineer Center

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Groundwater Treatment  
Systems Updates January,  
February, and March 2022



# LF007C GWTP

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- The LF007C GWTP was taken offline on 25 October 2021 when vernal pools formed at Subarea LF007C. System was restarted on 4 April 2022 ahead of monthly sampling on 5 April 2022.
- The system was taken back off line while waiting for effluent sample results from the 5 April 2022 sampling event.
- The system is expected to be back on line during the week of 18 April 2022 after receiving effluent sample results showing effective treatment.



# ST018 GWTP



- System experienced 100% uptime in January, February, and March 2022.
- Noted increase in MTBE concentration from October 2021 (14 µg/L) to November 2021 (54 µg/L), and December 2021 (51 µg/L).
- Concentrations remained elevated in January (56 µg/L), and a bit lower in February (36 µg/L) and March (33 µg/L) 2022.
- One contributing factor is that only two of the four extraction wells remain on line (dilution reduction).



# Central GWTP

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- System experienced 100% uptime in January, February, and March 2022.
- No VOC concentrations detected in January, February, or March 2022 effluent samples.



# SBBGWTP



- SBBGWTP taken off line on 11 November 2021 after confirmation samples confirmed exceedance of 1,2-DCA in the effluent sample.
- A carbon change of the primary vessel (6,000 pounds) was performed on 22 March 2022.
- A cracked fitting at the bottom of the backwash tank was replaced following the carbon change on 22 March 2022. The tank had to be emptied to change the valve, and the tank could only be emptied after a carbon change had been performed.
- The system was brought back on line on 23 March 2022. After sample collection on 5 April 2022, the system was taken off line while waiting for effluent analytical results.
- The system is expected to be put back on line during the week of 18 April 2022 after confirmation of effective treatment.

# Air Force Civil Engineer Center

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ORC Program Update  
RPM Meeting  
April 20, 2022





# Documents Planned

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## CERCLA

- |   |       |
|---|-------|
| • UFP- QAPP                             | April |
| • Site SD031 Data Gaps Investigation WP | April |
| • 2021 Annual GRISR                     | July  |

## POCO

none



# Completed Fieldwork

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- 4Q21 GRIP Event



# Fieldwork Planned

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## CERCLA

- 2Q GRIP Event
- Site SD031 Data Gaps Investigation

April-May  
August

## POCO

none

# Air Force Civil Engineer Center

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Site SD031 Data Gaps  
Investigation Work Plan  
RPM Meeting  
April 20, 2022



# Introduction

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- Site SD031 is included in the Travis Groundwater Record of Decision (ROD) and a Soil Remedial Investigation/Feasibility Study (RI/FS) was completed in 2020.
- However, recently discovered contamination has necessitated site expansion and additional investigation.
- A Data Gaps Investigation (DGI) is planned for Site SD031 in August 2022 to support selection of quantitative sampling locations for the Site SD031 RI scheduled for 2023 and 2024.
- This presentation provides an overview to facilitate review of the DGI Work Plan (WP), which is considered a primary document by the agencies because the work will support the RI planning.



# Presentation Outline

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- Site background
- DGI objectives
- DGI approach
- Initial DGI sampling locations
- DGI reporting schedule

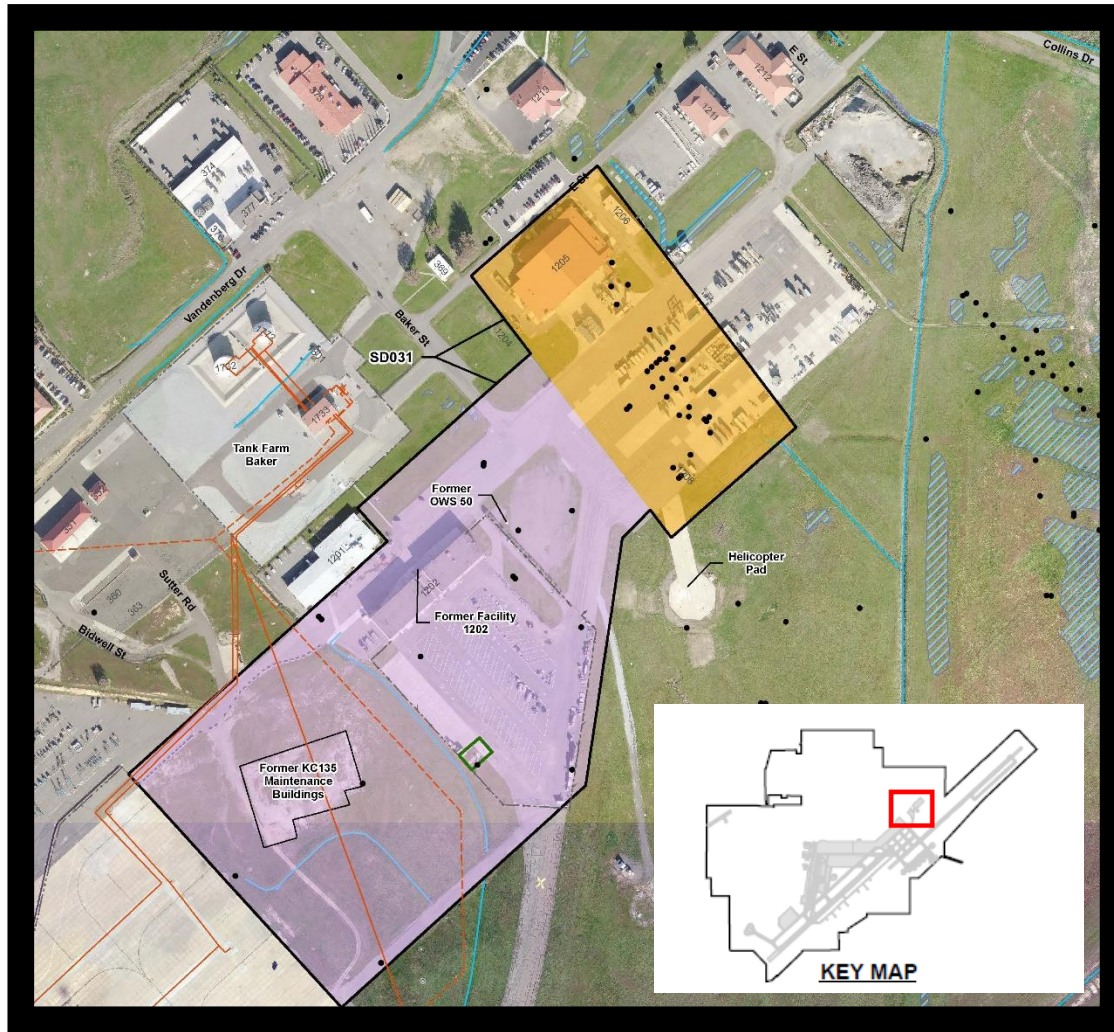


# Site Background

- Previously unidentified soil contamination was discovered in 2014, and a Soil RI/FS was completed to address the soil contamination
  - Contaminants of concern (COCs) identified in soil (benzo(a)pyrene and dioxins) may have impacted groundwater
- The Site SD031 boundary was also recently expanded to include the adjacent Site SD031B petroleum-only contaminated (POCO) study area
- The extent of total petroleum hydrocarbons-diesel (TPH-D) contamination in soil and groundwater at the site has not been defined to Environmental Screening Levels (ESLs)
- Increasing 1,1-dichloroethene (DCE) concentrations in the downgradient portion of the groundwater plume indicate the presence of a previously unidentified volatile organic compound (VOC) source area.



# Site Background



- Site SD031 was expanded to include Site SD031B (formerly Site OW050) and associated with Former Facility 1202 because both sites were constructed in 1952 and were used for the maintenance and refueling of interceptor jets and transport planes.

## Legend

- GROUNDWATER MONITORING WELL
- SURFACE WATER
- FENCE
- ACTIVE FUEL LINE
- - - INACTIVE FUEL LINE
- HAZARDOUS MATERIAL WASH RACK AND ASSOCIATED OIL/WATER SEPARATOR
- ORIGINAL SITE SD031
- SD031B POCO INVESTIGATION AREA
- ERP SITE BOUNDARY
- WETLAND FEATURES
- VERNAL POOL





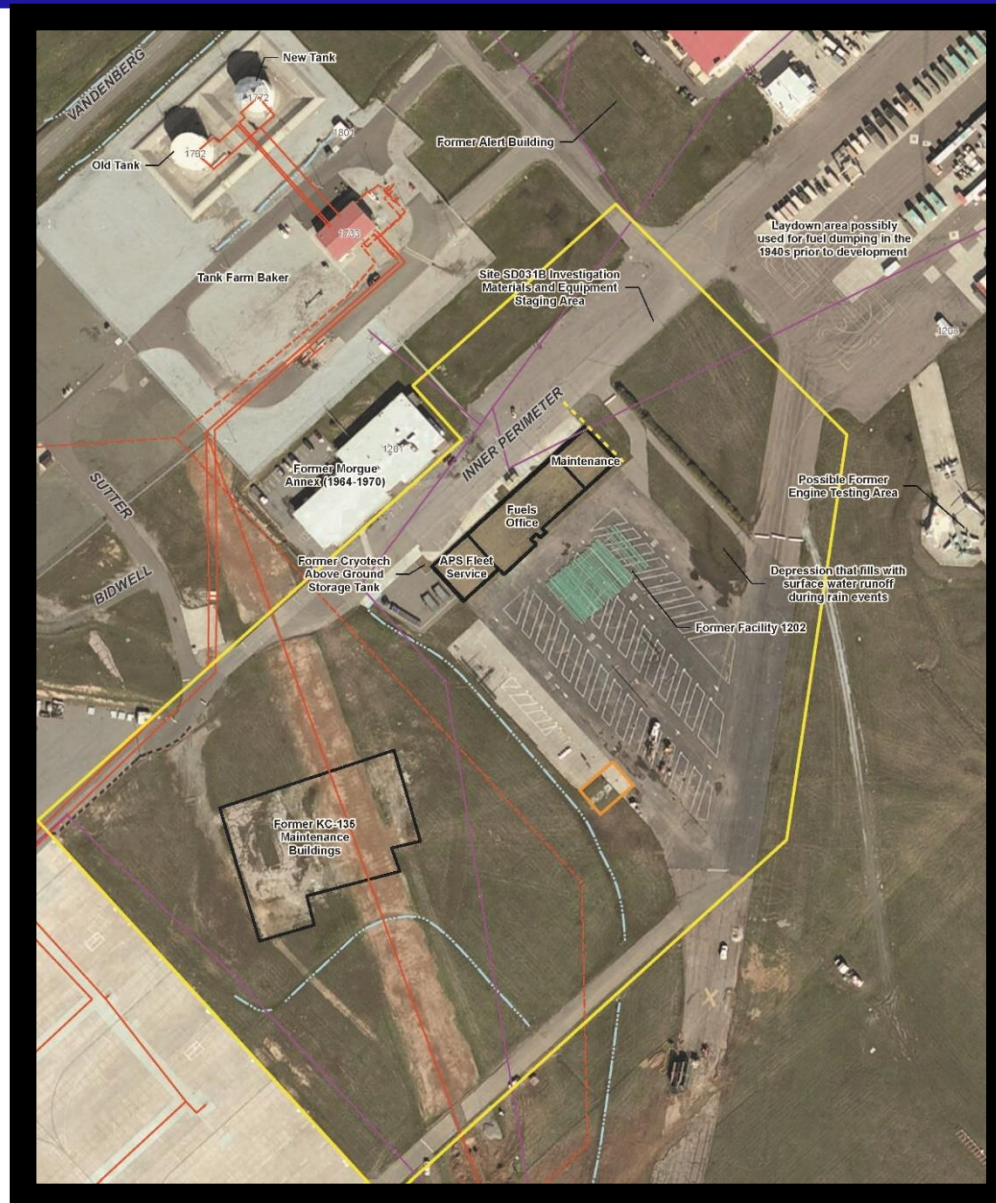
# Site Background

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- Previous investigations at Site OW050/SD031B are summarized in:
  - CH2M HILL. 2015. Petroleum Only Contaminated (POCO) Investigation Work Plan for Oil Water Separators OW040, OW047, OW048, OW049, OW050, OW051, OW052, OW053, OW054, OW055, OW056, and OW057.
  - CH2M HILL. 2016. Corrective Action Plan for Defense Environmental Account (DERA)-funded Oil/Water Separators.
  - CH2M HILL. 2018. POCO Evaluation/Closure Report for DERA-funded Oil/Water Separators OW040, OW047, OW048, OW049, OW050, OW052, OW055, OW056, and OW057.
  - CH2M HILL. 2020. Site SD031B POCO Additional Site Investigation Work Plan.
  - CH2M HILL. 2021. Site SD031B POCO Additional Site Investigation Report.

# Site Background

- Former Site OW050/SD031B



## LEGEND

- AREA OF INVESTIGATION
- FORMER BUILDING 1202
- HAZARDOUS MATERIAL WASH RACK AND ASSOCIATED OIL/WATER SEPARATOR
- SURFACE WATER
- ACTIVE FUEL LINE
- INACTIVE FUEL LINE
- SANITARY SEWER LINE
- UNKNOWN UTILITY LINE





# Site Background

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- Results of the previous investigations at Site SD031B indicate that petroleum related compounds, TPH-D, TPH-gasoline (TPH-G), naphthalene, and polycyclic aromatic hydrocarbons (PAHs) are the most widespread contaminants detected in soil at concentrations exceeding project screening levels (PSLs).
- Benzene and ethylbenzene concentrations in soil vapor and soil (to a limited extent) exceeded PSLs.
- Widespread soil vapor samples had PCE and chloroform concentrations that exceeded PSLs; but no soil exceedances.



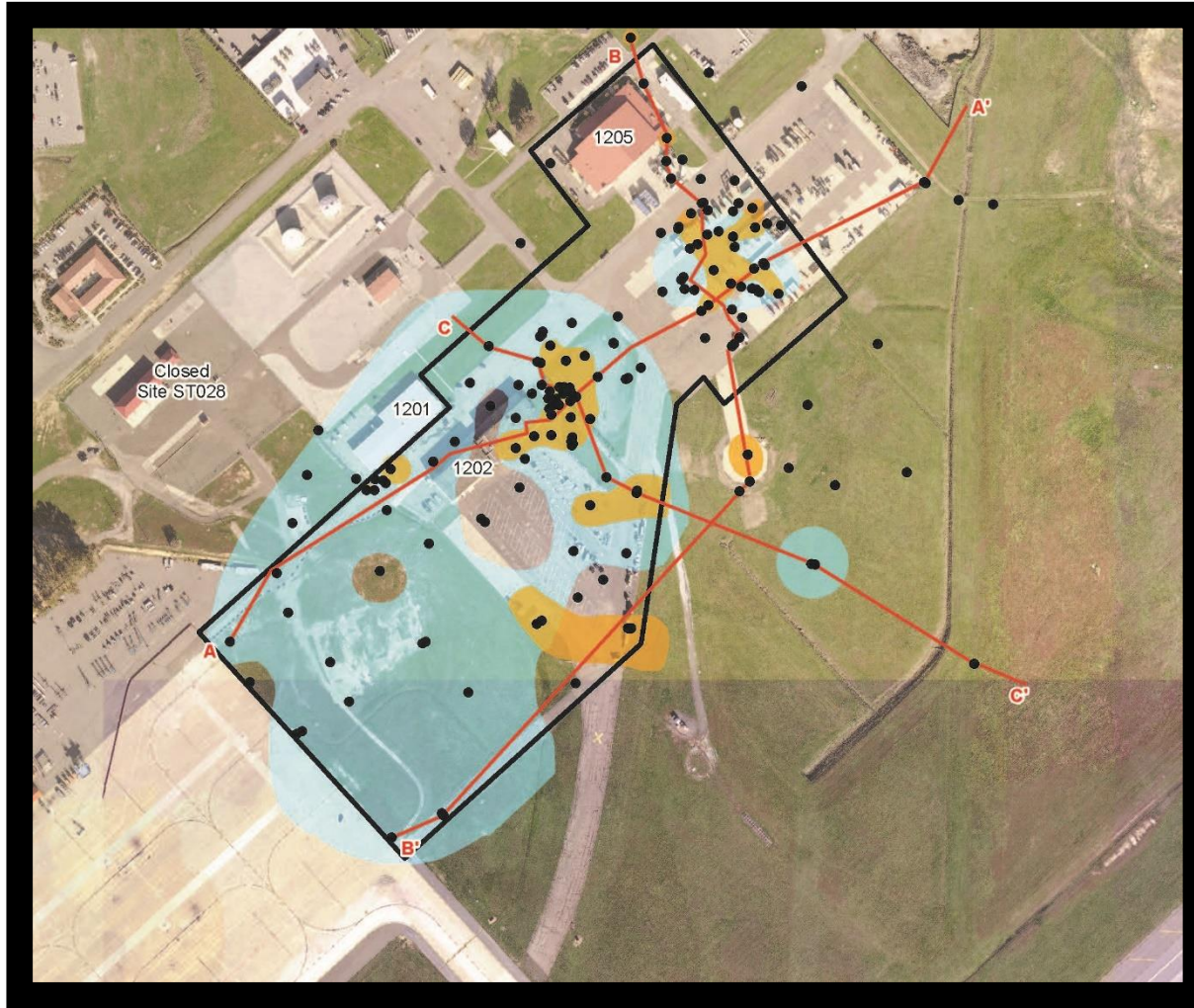
# Site Background

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- Groundwater samples collected from monitoring wells indicated TPH-D and PAH concentrations that exceeded PSLs, with TPH-D being the most widespread.
- TPH-D in groundwater extends upgradient to the north and northwest of known areas of soil impacts and downgradient beyond the area of previous investigations at Site SD031B.



# Site Background



- TPH-D contamination extent

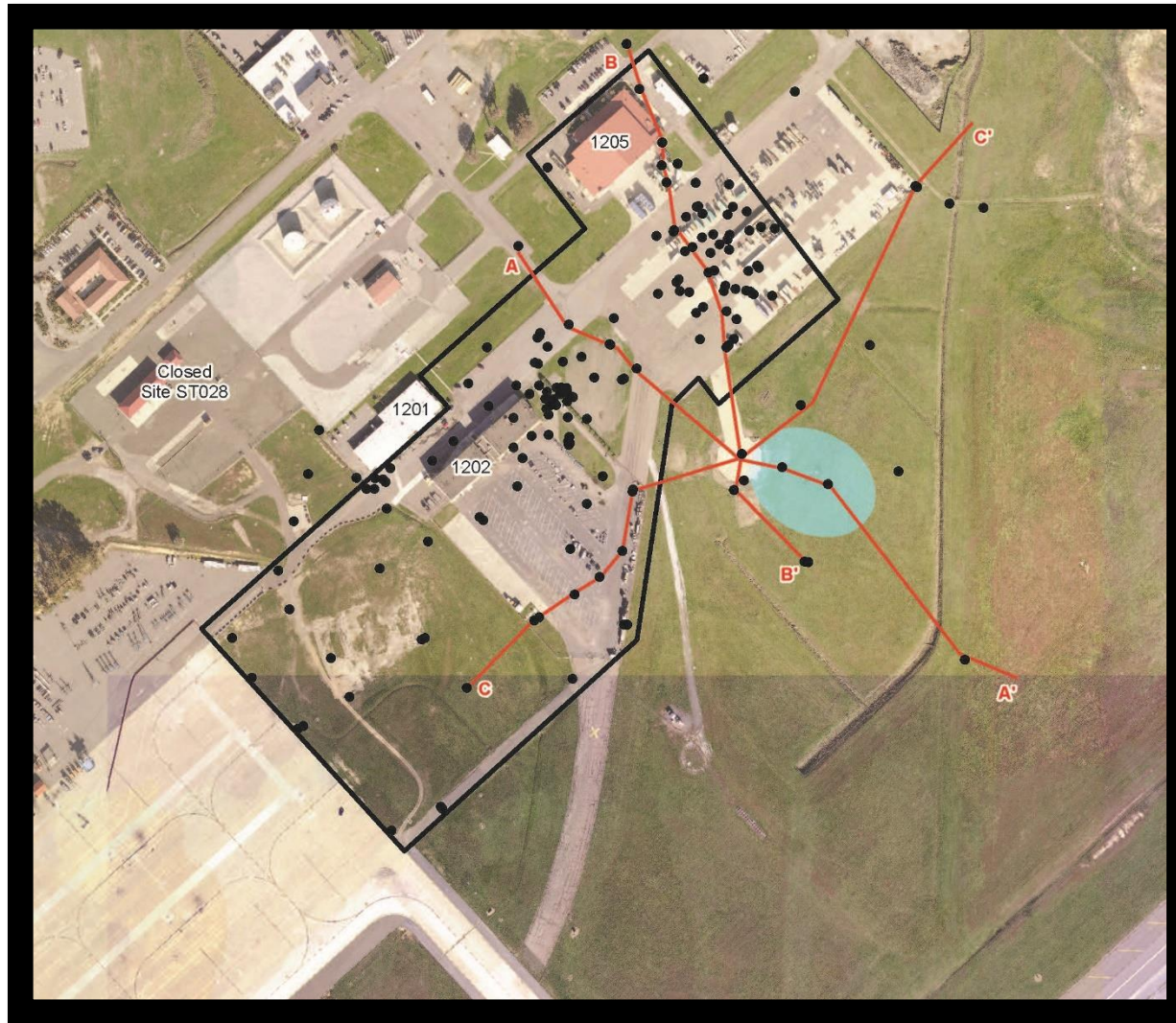
## LEGEND

- HISTORICAL SAMPLING LOCATION
- A—A' CROSS SECTION LINE
- TPH-D IN GROUNDWATER >100 µg/L (2020)
- TPH-D IN SOIL >260 mg/kg (1993-2020)
- ERP SITE BOUNDARY





# Site Background



- 1,1-DCE contamination extent

## LEGEND

- HISTORICAL SAMPLING LOCATION
- A-A' CROSS SECTION LINE
- 1,1-DCE IN GROUNDWATER >6 µg/L (2020)
- ERP SITE BOUNDARY

Note: all 1,1-DCE soil and soil gas detections were below screening levels





# DGI Objectives

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- Further refine extent of TPH-D in soil and groundwater at Site SD031.
- Locate the source of TPH-D in soil northwest of Former Facility 1202.
- Locate the source of 1,1-DCE in groundwater in the southern portion of the site.
- Further refine the downgradient extent of 1,1-DCE in soil and groundwater.
- Support selection of quantitative sampling locations for the subsequent RI.



# DGI Approach

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- Perform Membrane Interface Probe (MIP) and Ultra-Violet Optical Screening Tool (UVOST) survey.
- MIP will screen for VOCs and TPH and the UVOST will screen for TPH-D non-aqueous phase liquid (NAPL) in the vadose zone and aquifer.
- Up to 40 borings will be advanced to 30 feet below ground surface (bgs), unless refusal is met.
- If the MIP or UVOST response remains elevated at a depth of 30 feet, the boring will be extended to delineate vertical impacts.





# DGI Approach

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- Locations where TPH concentrations are suspected to be highest will be surveyed by UVOST first.
  - If there is no UVOST response there, only MIP would be used for the rest of the UVOST/MIP locations in the area.
- Initial screening locations have been identified; step-outs will follow an iterative process.
- After the initial set of borings is completed, the locations of subsequent borings will be determined by detector response.
- An elevated response indicates the need to step out for further delineation.



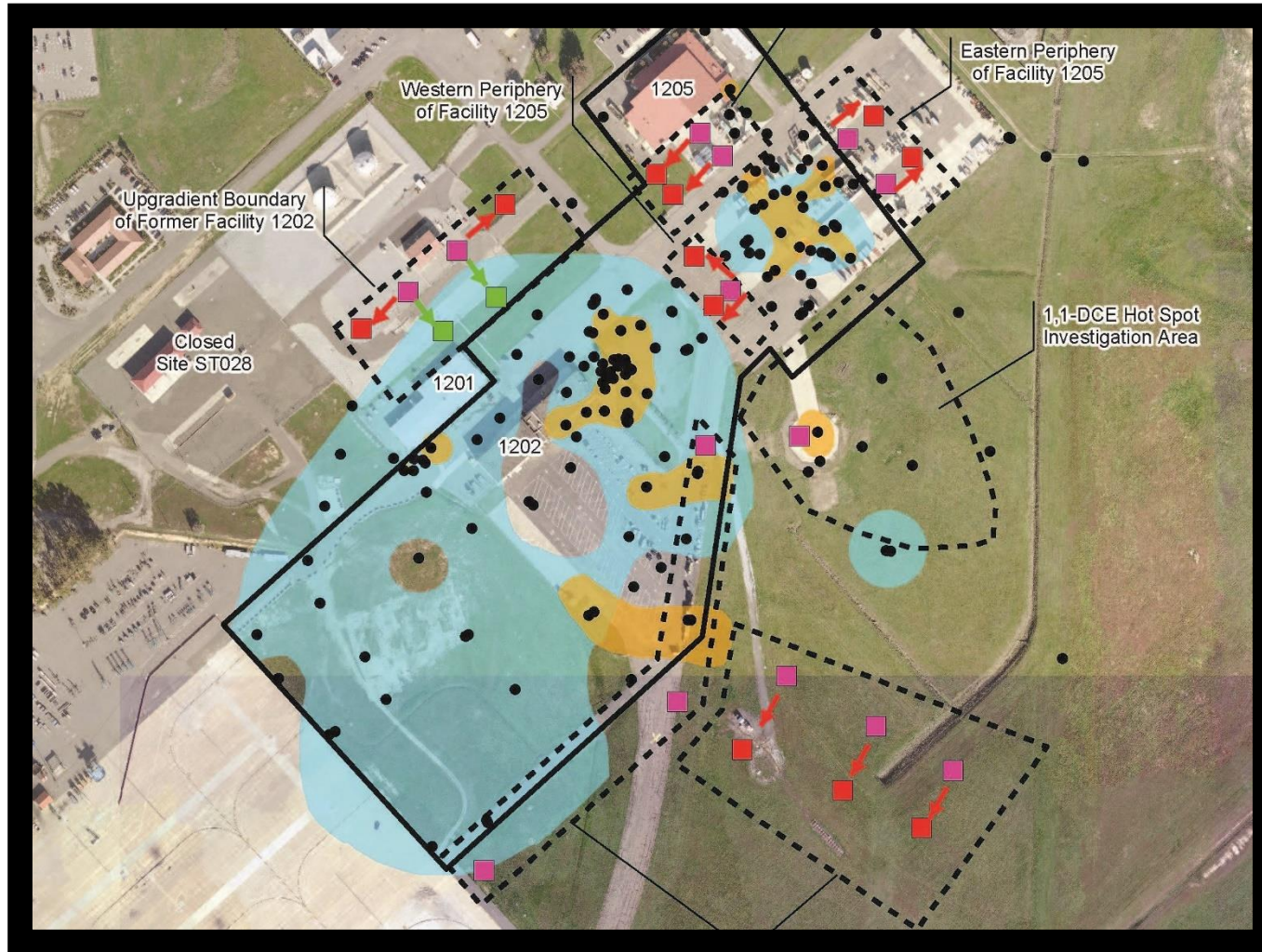
# DGI Approach

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- At most locations, a negligible response does not require a step out; however, at a few UVOST/MIP locations, a negligible response may require a step in to better define the extent of contamination.
- Locations of step-outs will be decided in real time by the field team, in consultation with the Jacobs site manager and Senior Technical Consultant (STC).
- The fieldwork is expected to last 2 weeks.
- Fieldwork planned for August 2022, when the runway construction will decrease airfield activity in this area, allowing flexible site access.



# Initial UVOST/MIP Locations



- LEGEND**
- HISTORICAL SAMPLING LOCATION
  - INITIAL UVOST/MIP LOCATION
  - STEP OUT UVOST/MIP LOCATION IF INITIAL LOCATION IS BELOW SCREENING LEVEL
  - STEP OUT UVOST/MIP LOCATION IF INITIAL LOCATION EXCEEDS SCREENING LEVEL
  - INVESTIGATION AREA
  - TPH-D IN GROUNDWATER >100 µg/L (2020)
  - TPH-D IN SOIL >260 mg/kg (1993-2020)
  - ERP SITE BOUNDARY
  - GROUNDWATER FLOW DIRECTION





# Initial MIP Locations



## LEGEND

- HISTORICAL SAMPLING LOCATION
- INITIAL MIP LOCATION
- ➡ STEP OUT MIP LOCATION IF INITIAL LOCATION EXCEEDS SCREENING LEVEL
- INVESTIGATION AREA
- 1,1-DCE IN GROUNDWATER >6 µg/L (2020)
- ▭ ERP SITE BOUNDARY

Note: all 1,1-DCE soil and soil gas detections were below screening levels





# DGI Reporting Schedule

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- The results of the SD031 DGI will be presented in the Site SD031 DGI Technical Memorandum.
  - Will include recommendations for the 2023/2023 RI.
- Draft submitted in February 2023.

# Air Force Civil Engineer Center

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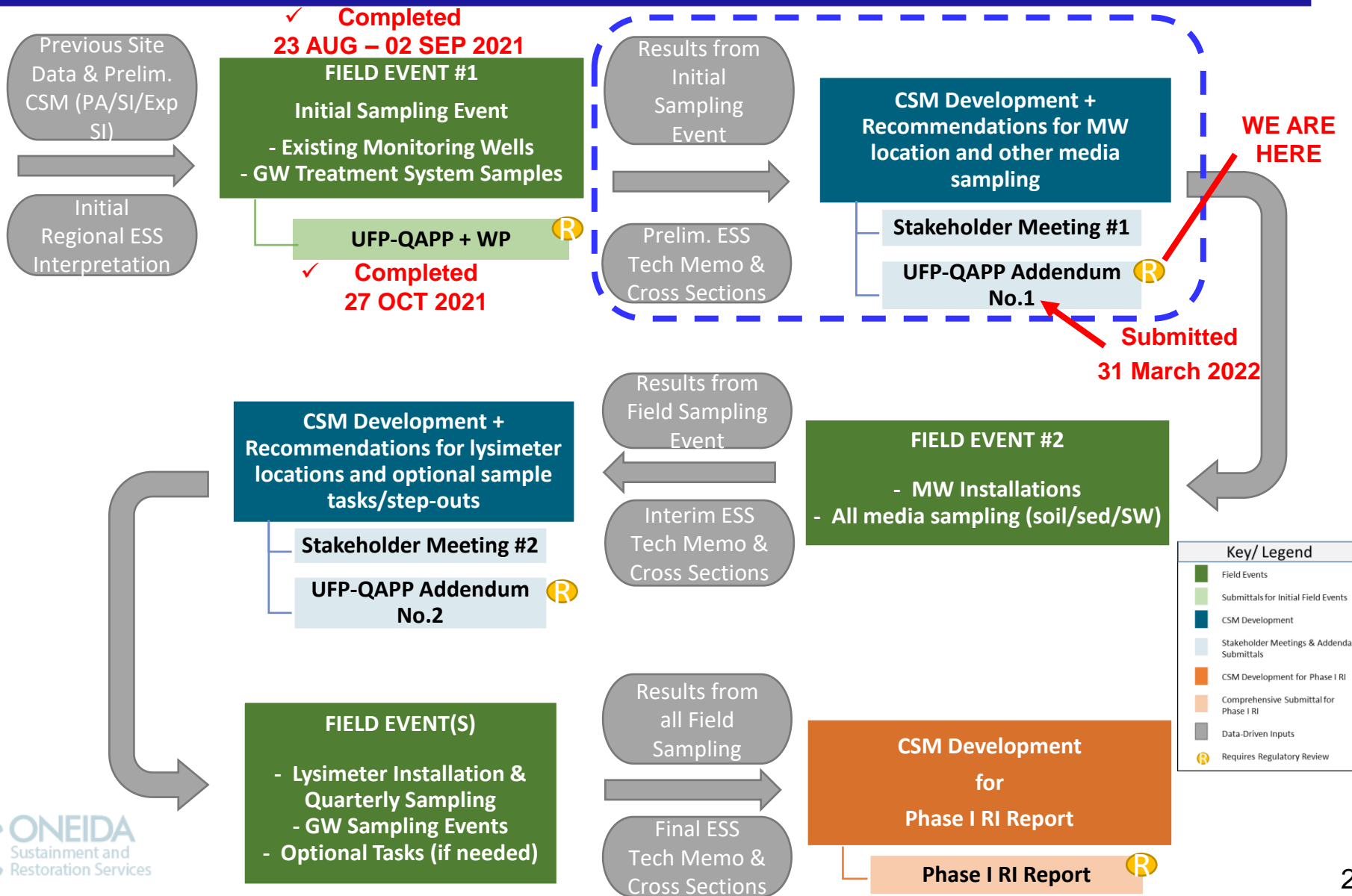
## Travis Air Force Base Phase I Remedial Investigation of AFFF Areas

Presented by  
Megan Duly, PM

20 April 2022



# Phase I Remedial Investigation Data-Driven Process







# UFP-QAPP Addendum No. 1

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- **16 February 2022**, Stakeholder Meeting 1 (part 1) – Preliminary data from Field Event #1 and CSM implications
- **2 March 2022**, Stakeholder Meeting 1 (part 2) – Technical approach for recommended sampling locations for Field Event #2 and final data from Field Event #1
- **31 March 2022**, UFP-QAPP Addendum No. 1 – submitted to stakeholder team via SharePoint upload
  - Review input anticipated by 30 April 2022





# Next Steps

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- **Preparation for Field Event #2 – April/May 2022**
  - Technical airfield construction waiver (TACW)
  - Secure access to on- and off-Base areas
  - Updated Bio PA – submittal to FWS
  - Resource coordination and planning
  - Coordination with team – drilling, lab, bio, etc.
- **Further CSM development with results from Field Event #2 – April/May 2022**
  - Update ESS
- **Field Activities – May – October 2022**



# Field Event #2

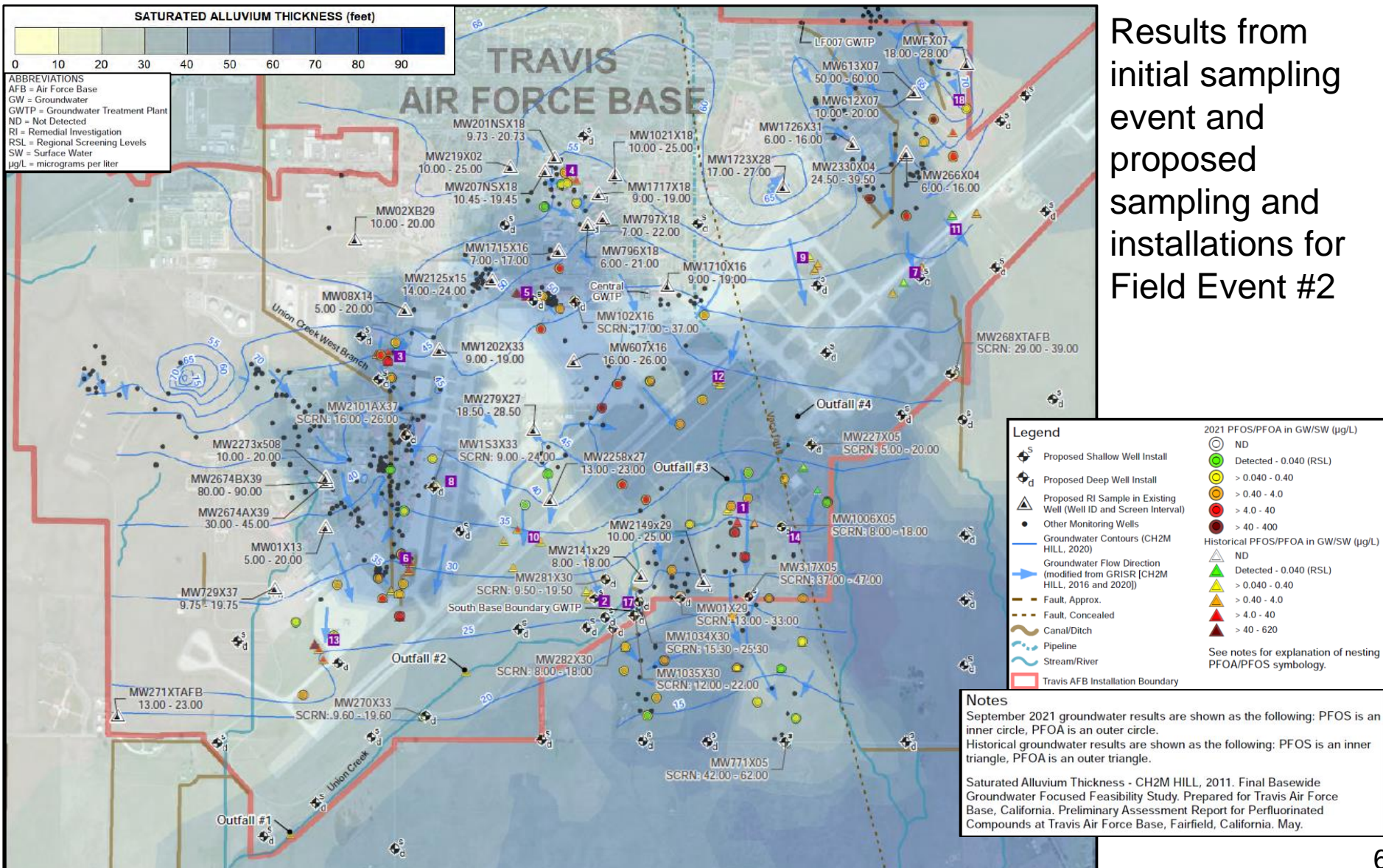
- **Groundwater monitoring well installation**
  - Support the delineation of the vertical and lateral extent of PFAS constituents in groundwater (deep/shallow) and soils (surface/sub-surface)
- **Groundwater sample collection – new and existing monitoring wells**
- **Soil sample collection**
  - Monitoring well soil boring sample collection
  - Source area soil boring sample collection
- **Sediment/Surface water sample collection**
  - Assess potential PFOS, PFOA, and PFBS impacts within Union Creek



# Field Event #2 Proposed Locations



Results from  
initial sampling  
event and  
proposed  
sampling and  
installations for  
Field Event #2







# AFFF Remedial Investigation Areas



## Legend

- Remedial Investigation Area
- Monitoring Well Network
- Fence
- Stream/River
- Pipeline
- General Locations of Aircraft Crash/Fire Sites (CH2M HILL, 2016)
- ERP Sites
- Ditch
- Freshwater Marsh
- Pond
- Seasonal Wetland
- Vernal Pool
- Wetland Swale
- Travis AFB Installation Boundary

## Remedial Investigation Area Locations

- 1: Former Fire Training Area - 4 [FT005P-SUB]
- 2: Current Fire Training Area [SS030P-SUB]
- 3: Building 811 (Aircraft Maintenance) [SD034P-SUB]
- 4: Former Fire Station 1 (Building 175) [SS209P]
- 5: Former Fire Station 2 (Building 560) [SS205P]
- 6: Former Fire Station 4 (Building 895) [SS202P]
- 7: 1982/1983 C-5 Transport Aircraft Crash [SS208P]
- 8: 1986 C-141B Transport Aircraft Crash [SS203P]
- 9: 1988 C-5 Transport Aircraft Fire [SS207P]
- 10: Late 1980s C-141B Transport Aircraft Crash [SS204P]
- 11: 2001 Aircraft Crash [SS208P]
- 12: 2014 E75 Biplane Air Show Crash [SS206P]
- 13: Nozzle Spray Test Area 900 Ramp [SS201P]
- 14: Former STP and Sludge Disposal Area [ST100P]
- 17: South Base Boundary GWTP [SS030P]
- 18: Fire Station 3 (Building 1380)



Questions?