



December 2025 RAB Questions/Action Items

Actions Items/Questions:

- **AFCEC/Brice to Evaluate alternate access routes south of the runway during April sampling event to reduce impact on trails/paths used by the community**
- **AFCEC to share new BRAC Environmental Coordinator (BEC) contact information**
- **AFCEC has programmed for and is in the process of contracting a new project for dealing with known drums and drums discovered in the future**

Air Force Civil Engineer Center

Integrity - Service - Excellence

Environmental Restoration Update



**Remedial Process Optimization (RPO) and
Site CS001 Remedy Implementation
(Contract: FA8903-24-C-0030)**

and

**Remedial Action-Operations (RA-O) and
Landfarm Operations
(Contract: FA8903-24-C-0031)**

**Former Galena Forward Operating
Location (FOL), Galena, Alaska
Restoration Advisory Board Meeting**

**Brice Integrated
2 June 2026**



Remedial Process Optimization (RPO) and Site CS001 Remedy Implementation

(Contract: FA8903-24-C-0030)



RPO and Site CS001 Remedy

Project Team – Brice and Parsons

Scope includes:

- Implementation of remedy at Site CS001 located on Million Gallon Hill
- Excavation of “Hot Spots” of petroleum-contaminated soil at 3 sites and Sampling soil in excavation areas for per and polyfluoroalkyl substances (PFAS)

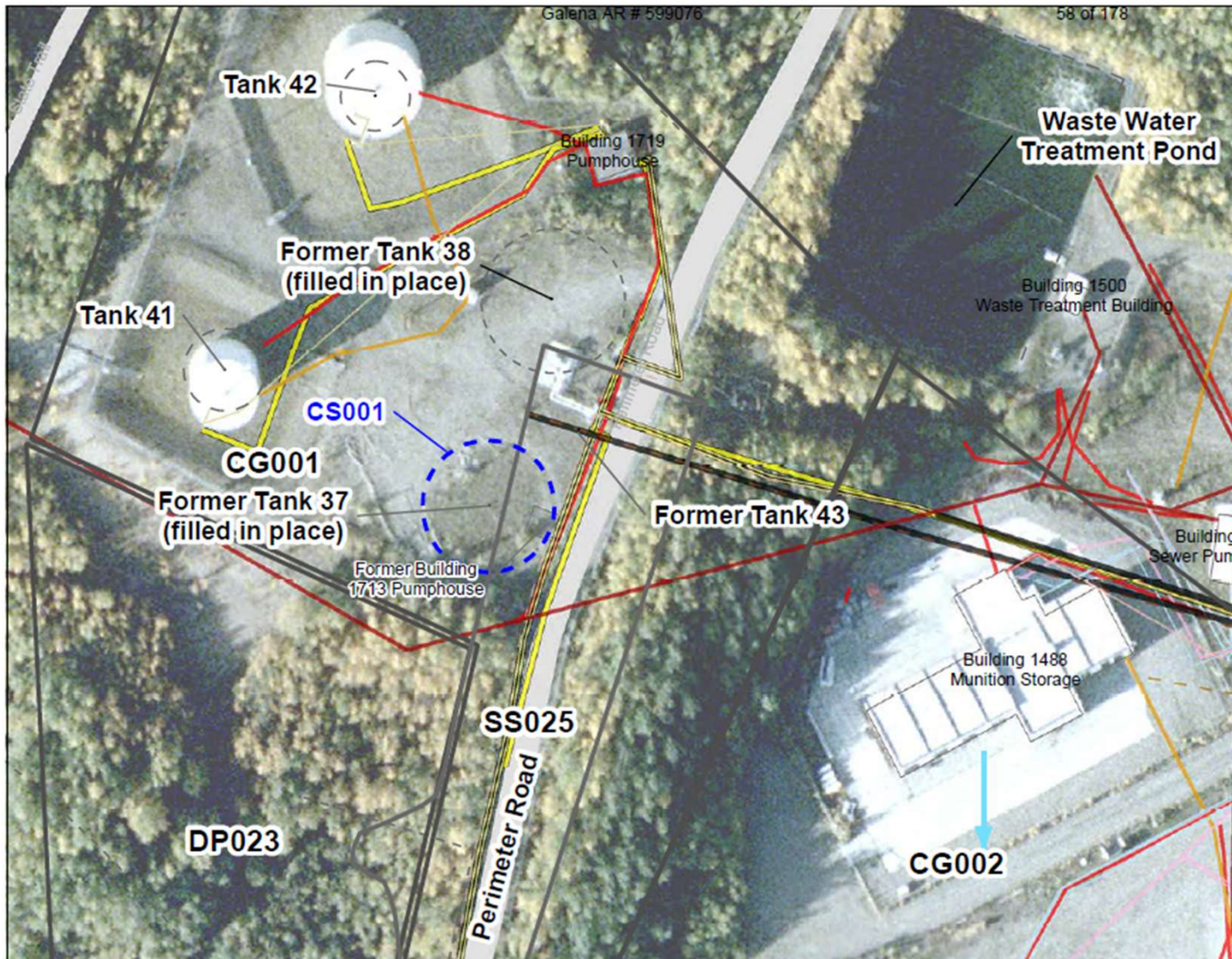


- Sample soil at Site ST005 to verify if ready for closeout
- Repair of existing remediation systems



Site CS001 Remedy

Site Location and Vicinity





Site CS001 Background

Tank 37 – Former 1-million-gallon capacity former underground storage tank located on Million Gallon Hill

1997 - Biocell constructed in Tank 37:

- Bottom 2 feet – pesticide-contaminated soil
- Upper ~18 feet – petroleum-contaminated
- Air injection piping and vapor monitoring points were installed

Operated as a bioventing system from June - October in 1998 & 1999

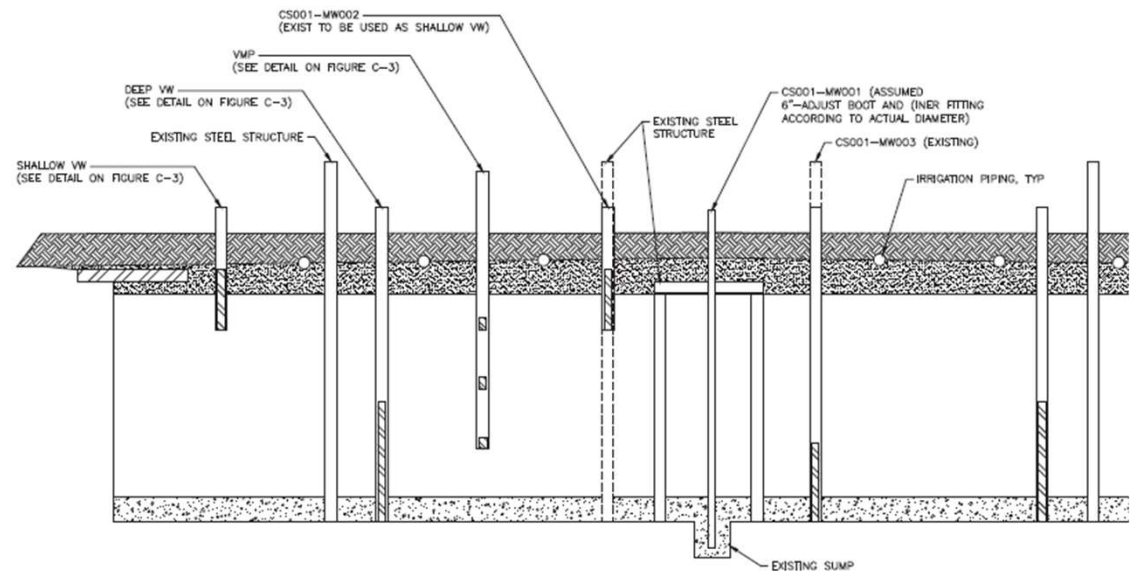




Site CS001 Remedial Approach

Remedy selected in the Record of Decision (2020):

- Remove and treat tank water
- Replace cover
- Treat pesticide-contaminated soil with sulfate injections
- Treat petroleum-contaminated soil with bioventing
- Establish Land Use Controls
- Ongoing Operations and Maintenance





Site CS001

Remedy Implementation – 2025

July to August 2025 – Began Implementing Remedy

- Removed old tank cover and began dewatering tank
- Sampled soil
- Installed wells, vent wells, and monitoring points



Issues encountered:

- Pooled water around upper edge of tank
- Dewatering rates lower than expected



Site CS001

Remedy Implementation – 2025

Collected 19 soil samples from 10 borings



Installed:

- 8 vent wells and piping
- 3 vapor monitoring points
- Irrigation piping
- Added 30-mil PVC liner



Removed 51,000 gallons of water from the tank

- Treated with bag filters and granular activated carbon before sampling and discharge





Site CS001 Path Forward Remedy Implementation – 2026

Complete Dewatering:

- Use vacuum-enhanced pumping to increase dewatering rate
- Install additional dewatering wells



Complete Installation:

- Place soil cover over PVC liner
- Complete electrical and piping
- Startup bioventing system
- Inject sulfate solution into tank bottom



Sites CST011, SS016, and SS018 Hot-Spot Excavations PFAS Pre-Sampling

- In 2025, 5 soil borings were completed in hot-spot excavation areas
 - Analyzed soil samples for PFAS and analyzed concrete for lead/PCBs
 - PFAS present in soil at all 3 sites
- Excavations anticipated in Fall 2026; ~810 total cubic yards will be excavated
- Soil will be stockpiled at the Galena Landfarm to evaluate treatment/disposal



Excavations will remove “hot spots” of petroleum soil at the edges of treatment areas and push the sites towards cleanup complete



RPO and Site CS001 Remedy Upcoming Mobilizations

- **Spring 2026** – Resume CS001 Remedy Implementation
- **Summer 2026** – Drilling at ST005 Area C and Remediation System Repairs
- **Summer/Fall 2026** – Hot Spot Excavations at CST011, SS016, and SS018
- **June 2026 to June 2027** – Start CS001 Active Remediation System and monitor with monthly visits



Remedial Action-Operations (RA-O) and Landfarm Operations

(Contract: FA8903-24-C-0031)



RA-O and Landfarm Operations

- **Operation, monitoring, and maintenance of active remediation systems:**
 - Bioventing
 - Air Sparging
 - Soil Vapor Extraction (SVE)

- **Monitoring performance of remedies:**
 - Groundwater sampling
 - Soil vapor monitoring
 - SVE effluent sampling
 - Ambient air monitoring

- **Sampling public and private wells**

- **Operation and monitoring of landfarm**



RA-O System Monitoring

- FY2025 operations December 2024 through April 2025
- Restarted systems in September and October 2025
- Monthly operation of systems and sampling during the winter of 2025/2026
- Systems shut down late May and early April 2026





RA-O O&M Activities

Monthly Operations and Maintenance:

- Collecting air samples
- Monitoring ambient air
- Evaluating system performance
- Repairs - CG001, SS019, ST005 and ST005 Area C had significant repairs in Winter 2025-2026





RA-O Groundwater Sampling

Groundwater Sampling

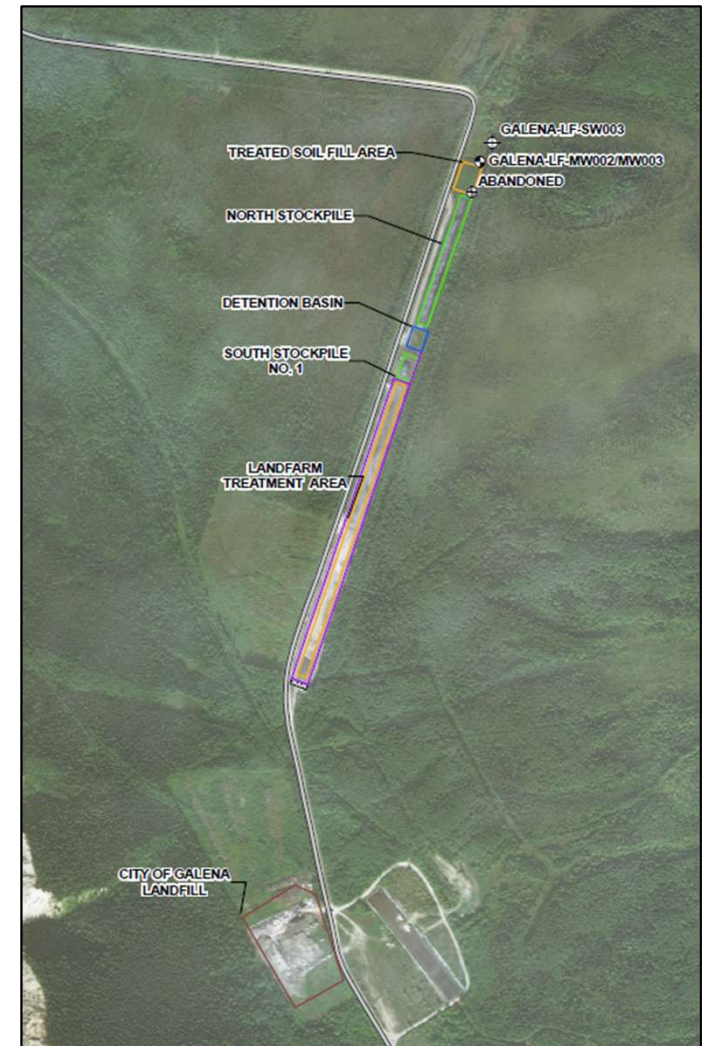
- 90 groundwater monitoring wells
- 1 private and 3 public wells sampled for PFAS
- Well inspections

2026 groundwater sampling scheduled for late summer. Sample results will be compared to past years' results to track progress for reporting in annual Performance Monitoring Reports



Landfarm Operations

- June 2025 – annual uncovering
- Berms repaired, sign repaired, fencing inspected
- Irrigation system was installed
- Water treatment system set up to treat and discharge excess water
- Brown Bear tiller on site
- 2026 annual uncovering is planned for early June





Landfarm Operations

- Samples collected June - July 2025 for presence of PFAS
- Landfarm currently winterized
- Landfarm tilling planned for soil in treatment area
- PFAS-containing soil will be stockpiled after tilling





RA-O and Landfarm Operations Upcoming Mobilizations

- Annual Landfarm uncovering (June)
- Annual Groundwater Sampling Events (late summer)
- Summer – Remediation System Repairs As Needed
- Summer – Landfarm Maintenance



Public Participation

Robert Estrada, BRAC Environmental Coordinator

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Air Force RAB Website

- RAB Meeting Materials are posted on this website
- <https://www.afcec.af.mil/What-We-Do/BRAC/Restoration-Advisory-Boards/>

Air Force Project Documents

- Final project documents are available by searching the Administrative Record
- <https://ar.cce.af.mil/>