

Air Force Civil Engineer Center



Former Chanute Air Force Base (AFB) Restoration Advisory Board Meeting

Paul Carroll

AFCEC/CIBE

16 November 2017



Welcome & Introductions



- **Welcome**
- **Restoration Advisory Board (RAB) Rules**
- **Introduction**
 - **RAB Members**
 - **Guests**



Agenda



- **Action Items**
- **Environmental Cleanup and Property Transfer Updates**
- **Public Comments**
- **Meeting Wrap-Up**
- **Adjourn**



Action Items



#	Action	OPR	Open Date	Status
1.	Approve Transcripts from May 18, 2017 Meeting	RAB	05/18/2017	Open
2.	Paul Carroll to provide summary of newspaper archives on CS Gas (tear gas)	RAB	05/18/2017	Closed
3.				
4.				
5.				

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Environmental Cleanup & Property Transfer Updates

Air Force Civil Engineer Center



Environmental Cleanup

Howard Sparrow
Amar Bumb

Aptim Federal Services, LLC
Project Managers

&

Paul Carroll

AFCEC/CIBE

BRAC Environmental
Coordinator



Groundwater Cleanup Progress



- **Accomplished since the last RAB (5/18/2017)**
 - **Remedial process optimization**
 - Additional injections for in-situ bioremediation (7 sites)
 - **Conducted performance monitoring for groundwater treatment (9 sites) (October 2017)**
 - **Met cleanup and confirmation monitoring requirements for CERCLA Sites SS035, ST037, ST051, and SS073, and non-CERCLA Site ST081**
 - Closure documentation submitted for approval to the Illinois EPA in September 2017
 - **Received approval of Corrective Action Completion Report for Site ST081 (last non-CERCLA site)**



Groundwater Cleanup Progress



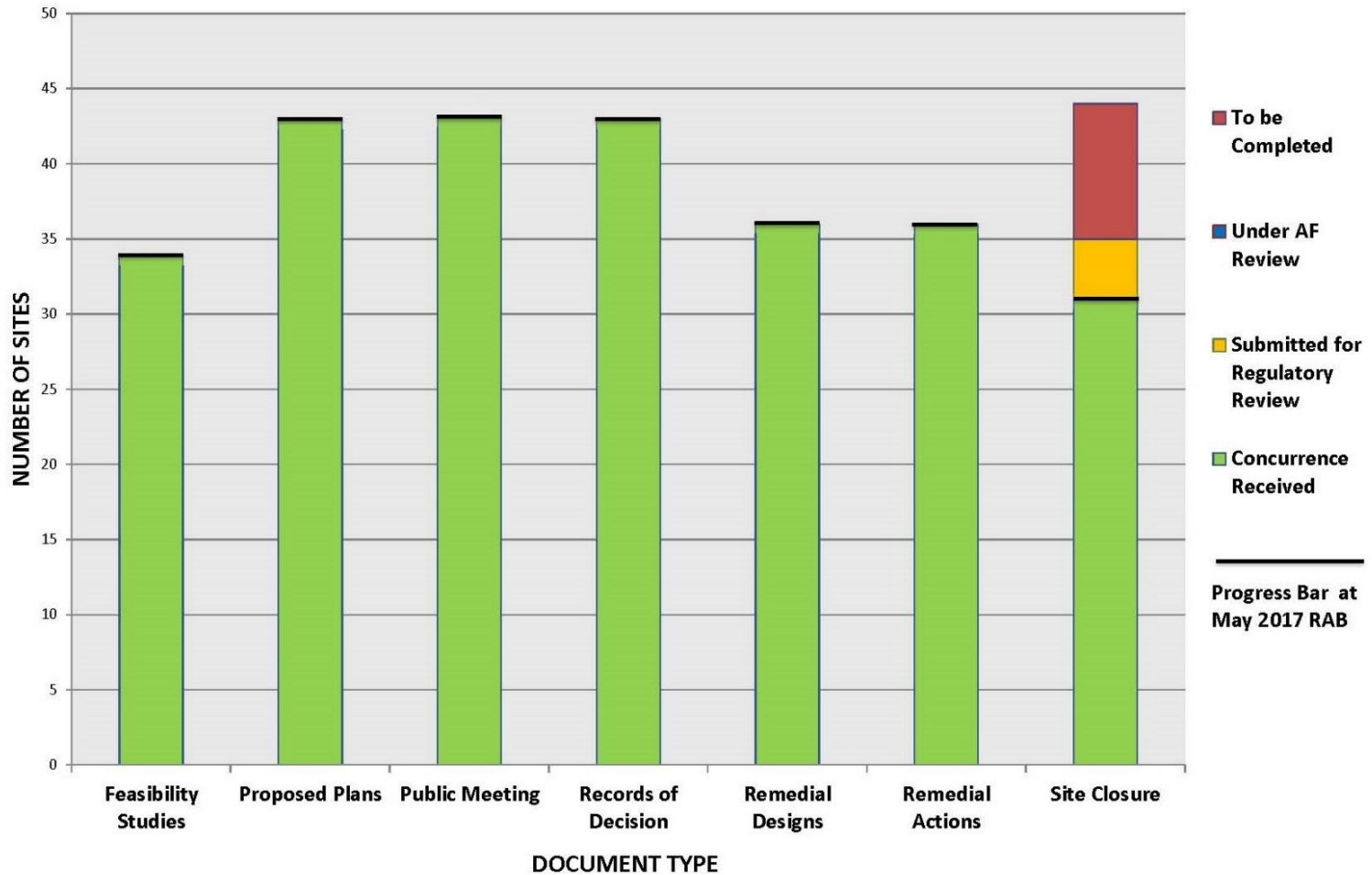
- **Accomplished since the last RAB (5/18/2017)**
 - **Received approval of Explanation of Significant Differences for Site SS041**
 - Implemented institutional controls for potential vapor intrusion until groundwater is remediated
 - **Received approval of Operating Properly and Successfully (OPS) for 9 Sites**
 - Approval was needed to continue with property transfer



Groundwater Cleanup Progress



Former Chanute AFB Remedial Progress November 2017
CERCLA Sites (42)

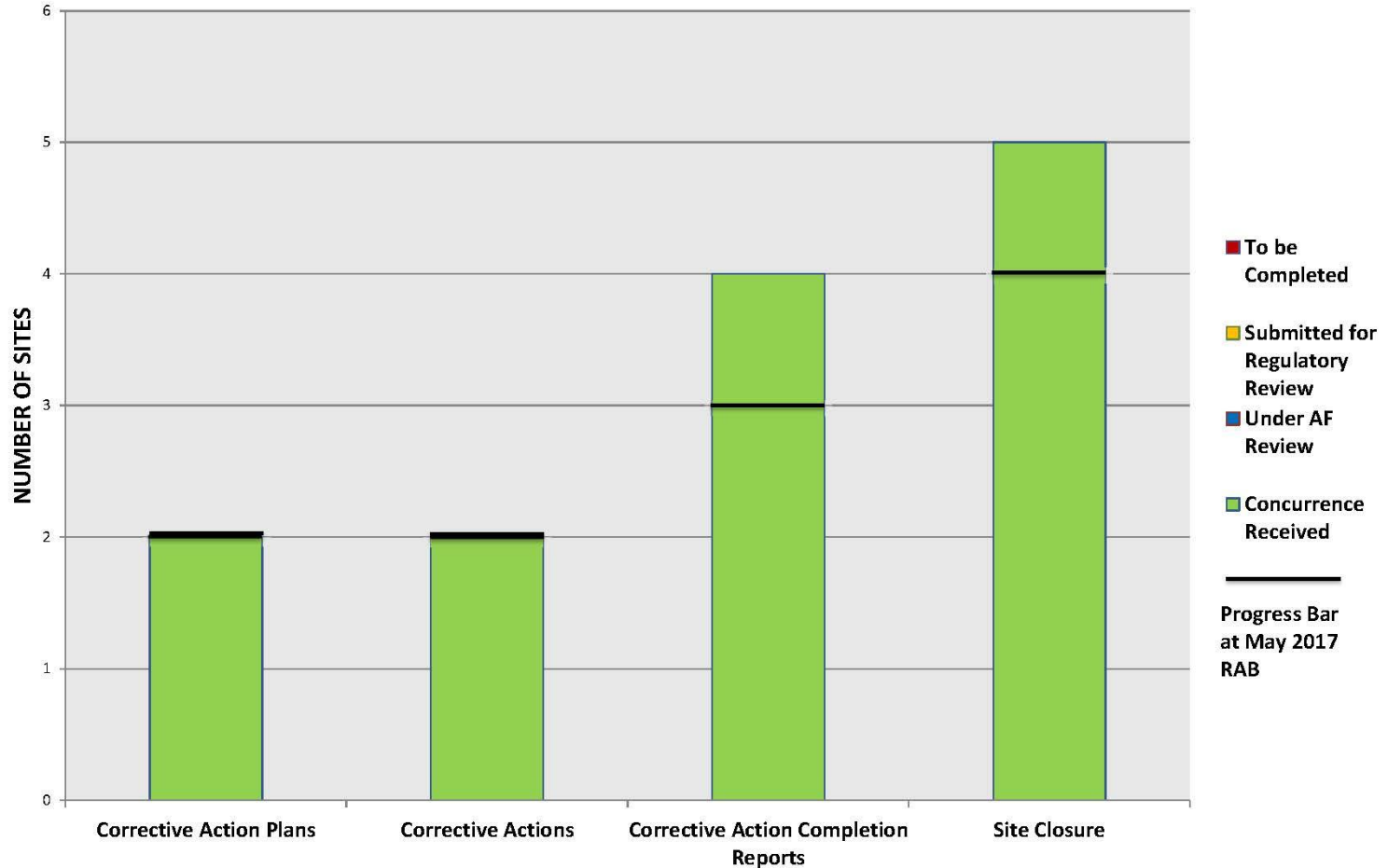




Groundwater Cleanup Progress



Former Chanute AFB Remedial Progress - November 2017
Non-CERCLA Sites (5)



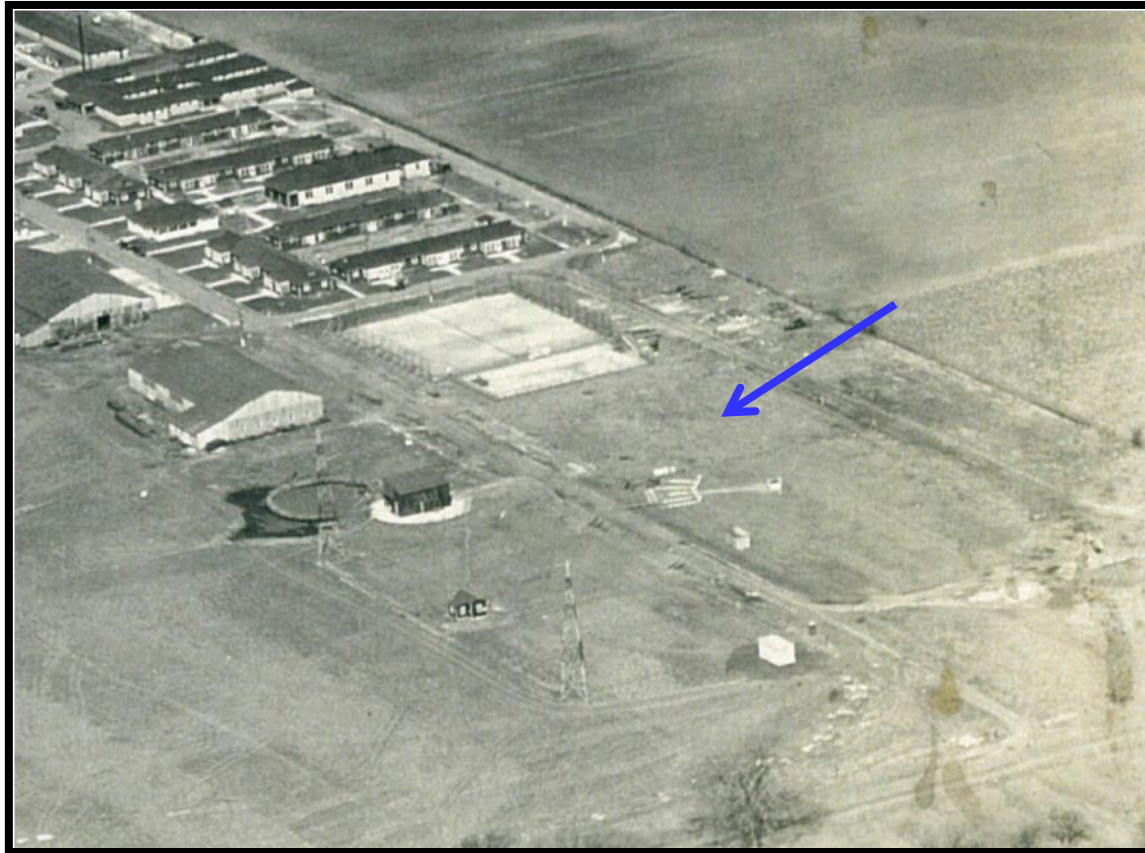


Activities Planned for 2018



- **Groundwater sites**
 - Semiannual groundwater monitoring (spring and fall events)
- **Remedial process optimization**
 - Based on groundwater sampling results

Chanute Field Trap Range 1



- Operated in 1920s
- Electromagnetic survey completed in December 2016



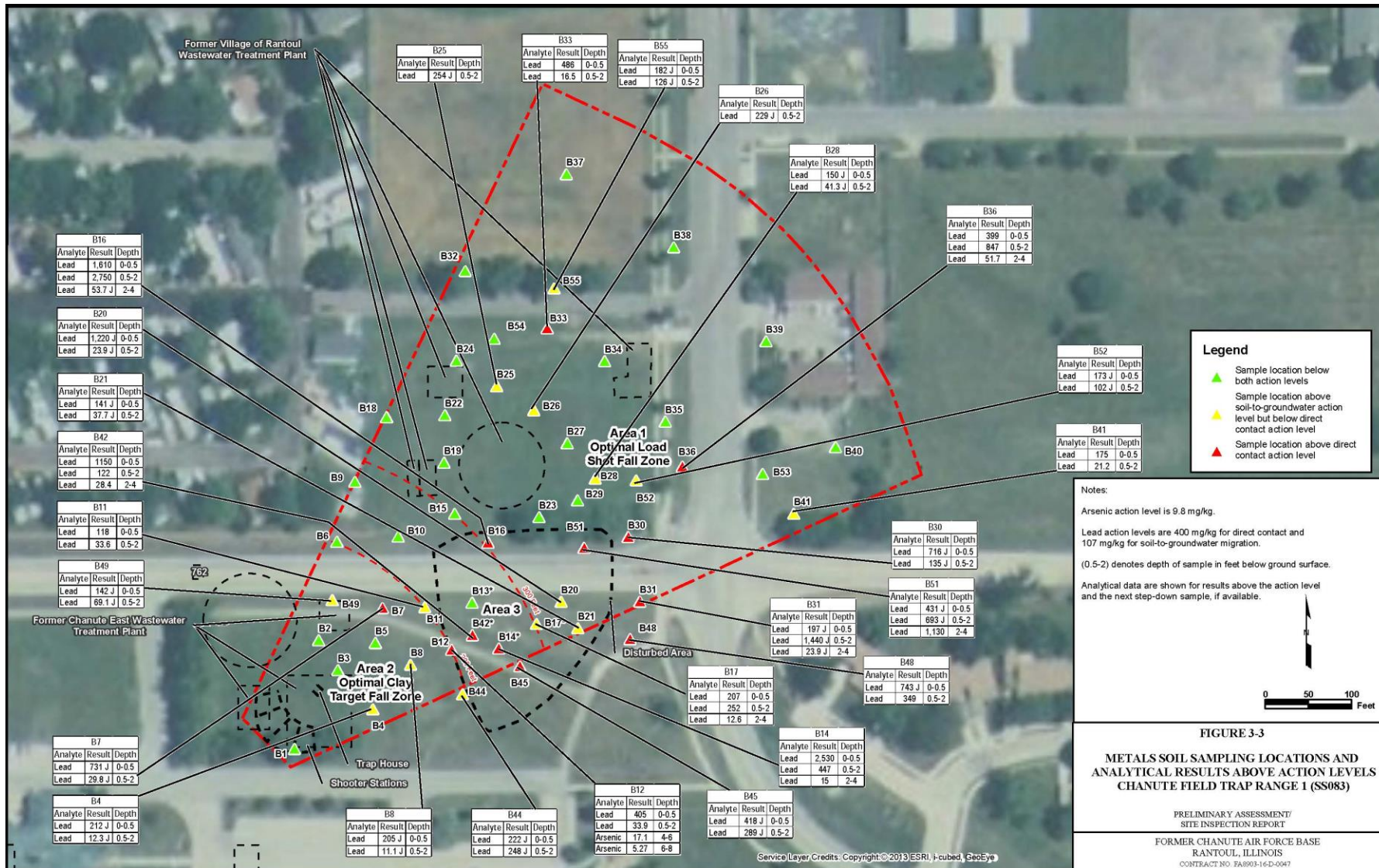
Chanute Field Trap Range 1



- **Initial sampling June 2017**
 - **Soil samples collected at 45 locations**
 - Small areas with levels of lead and/or polynuclear aromatic hydrocarbons (PAHs) above action levels
- **Preliminary Assessment/Site Inspection (SI) Report to be completed by December 2017**
- **A remedial investigation for further evaluation is programmed for 2018**



Chanute Field Trap Range 1 – Lead Results





Chanute Field Trap Range 1 – PAH Results

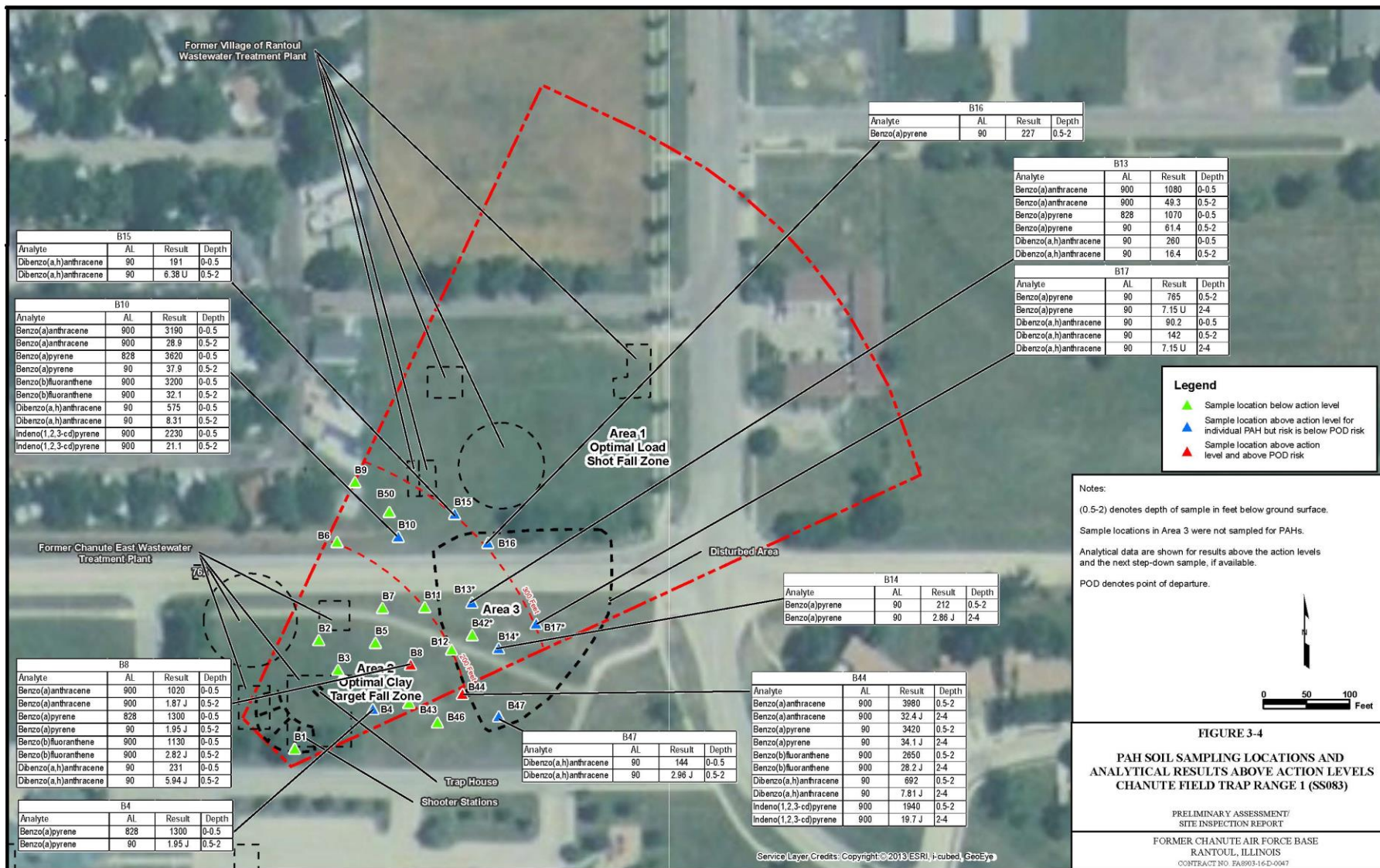


FIGURE 3-4

PAH SOIL SAMPLING LOCATIONS AND ANALYTICAL RESULTS ABOVE ACTION LEVELS CHANUTE FIELD TRAP RANGE 1 (SS083)

PRELIMINARY ASSESSMENT/
SITE INSPECTION REPORT

FORMER CHANUTE AIR FORCE BASE
RANTOUL, ILLINOIS
CONTRACT NO. FA8903-16-D-0047

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Former Building 107 Trap Range



- **Investigation**

- Multiple rounds of sampling completed in May 2016, July 2016, and March 2017
- Small areas with levels of lead and/or PAHs above action levels
- PAHs at greater than 1.6-foot depth in the playground area of the Multicultural Community Center (children not exposed)
- SI Report under Air Force Review



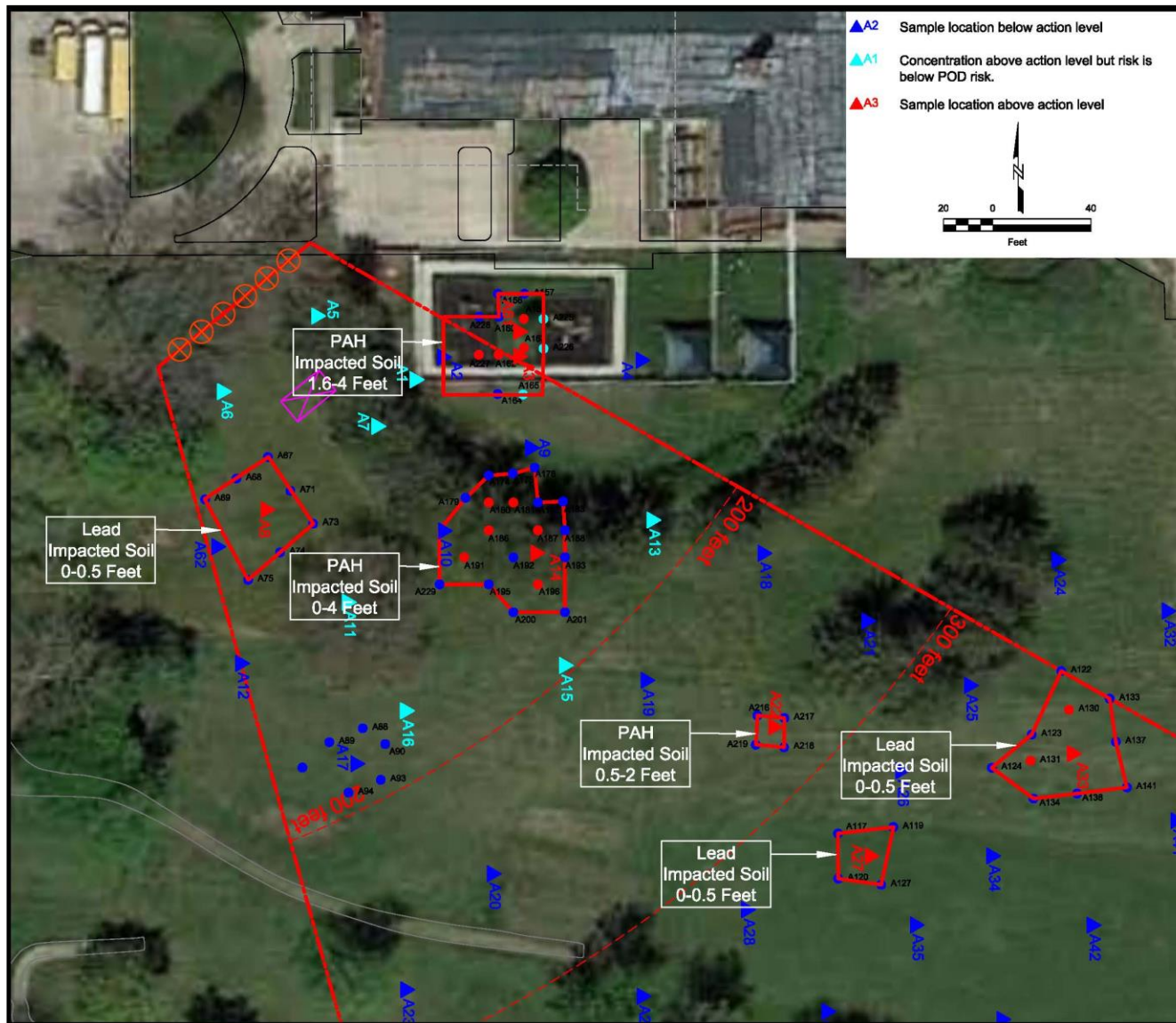
Former Building 107 Trap Range



- **Activities Planned for 2018**
 - **A Removal Action is planned**
 - Action Memorandum under Air Force Review
 - Prepare Removal Action Work Plan
 - Excavate contaminated soil (anticipated in Spring 2018)
 - No Further Action Proposed Plan
 - Record of Decision



Former Building 107 Trap Range





Emerging Contaminants – 1,4-Dioxane



- **Site Inspection**

- **1,4-Dioxane may have been used as a stabilizer with trichloroethene**
- **Objective is to determine presence or absence of the emerging contaminant 1,4-dioxane resulting from former base activities**
- **Groundwater sampling was conducted in October 2017**
 - A total of 28 monitoring well samples were collected from nine sites (FT021, ST024, SD027, ST036, SS041, SS074, SS075, SS076, and WP080)
- **Sample results due mid-November 2017**



1,4-Dioxane Next Steps



- **If groundwater sample results are below screening levels**
 - **Continue to monitor sites according to the current monitoring plan**
- **If groundwater sample results are above screening levels**
 - **Evaluate sites for additional investigation**



Chemical Warfare Training Area (CWTA) Site Inspection



- **Site Inspection**
 - Objective is to determine presence or absence of chemical agent training components and contamination resulting from former training activities
- **Geophysical survey conducted in November 2016**
- **Intrusive investigation completed in April 2017**
 - All 100 anomalies excavated and visibly inspected
 - No evidence of former training activities or chemical agent training components found

CWTA Intrusive Investigation Findings



All 100 anomalies were dug up, identified, documented, and photographed. The vast majority of anomaly digs turned up typical construction debris like this sewer and water piping.



CWTA Soil Sampling



- **Soil Sampling Completed in April 2017**
 - **35 soil samples collected and analyzed for:**
 - Chemical Agents
 - Chemical Agent Breakdown Products
 - Volatile Organic Compounds (VOCs)
 - Metals
 - Explosives
 - **All sample results for chemical agents and their breakdown products non-detect**
 - **All sample results for VOCs, metals, and explosives non-detect or below project action levels**

Report to document unrestricted use and site closure expected in late November 2017



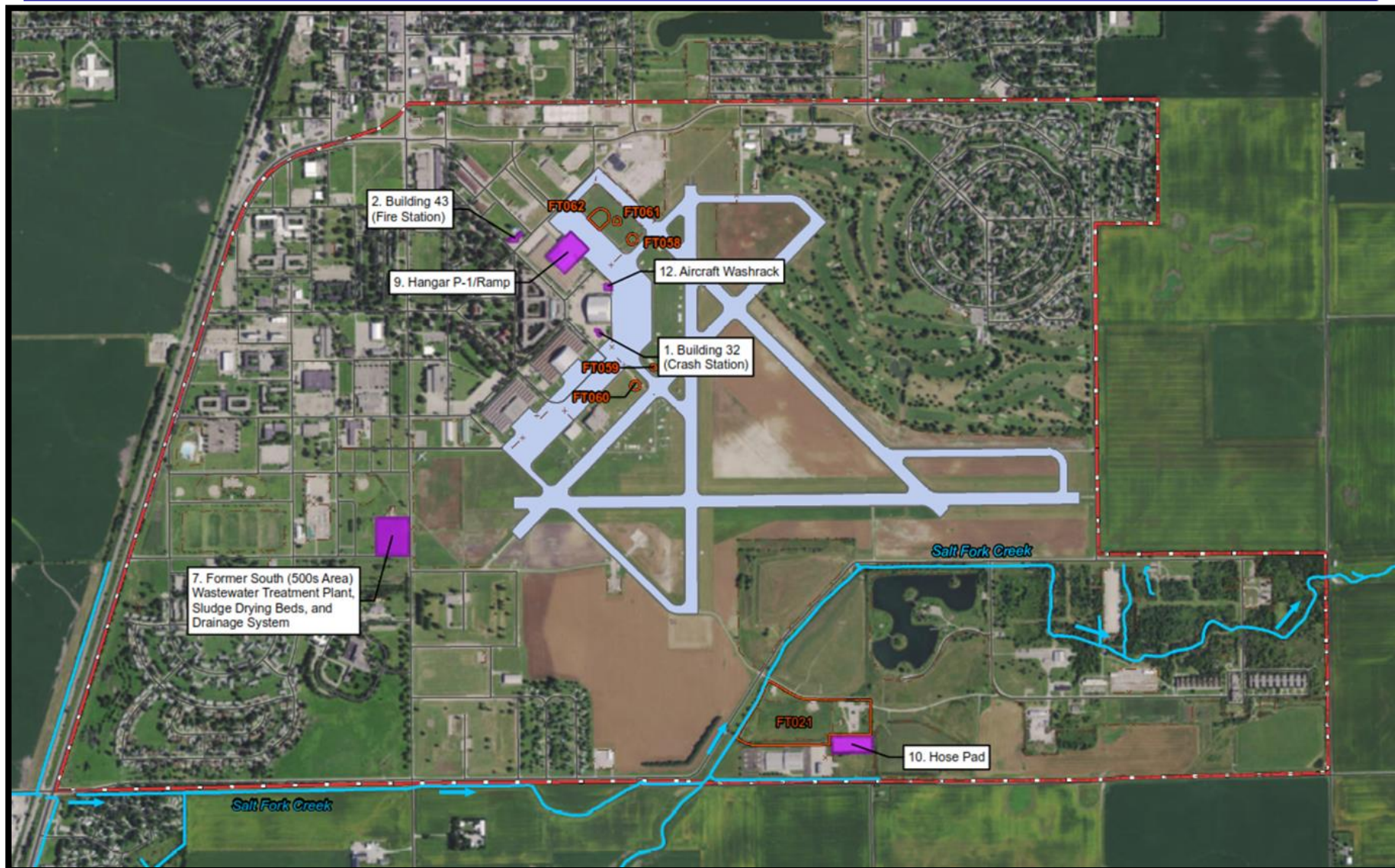
Emerging Contaminants – Per- and Polyfluoroalkyl Substances (PFAS)



- **Site Inspection (SI)**
 - Objective is to determine presence or absence of perfluorooctane sulfonic acid (PFOS) and perfluorooctanoic acid (PFOA) contamination resulting from former use of aqueous film-forming foam (AFFF) during firefighting, training, and equipment maintenance
- **SI Report for Fire Training Areas and Fire Demonstration Areas finalized in September 2016**
- **SI for 6 additional areas conducted in November/December 2016 and February/March 2017**



Emerging Contaminants – PFAS Site Inspection Locations





Emerging Contaminants – PFAS

SI Summary



- **Site Inspection Results**
 - Wisconsin groundwater contained PFOS and PFOA above the EPA Lifetime Health Advisory (HA) level for drinking water of 0.07 micrograms per liter at all locations except one (Aircraft Washrack)
 - Illinoisan groundwater did not contain PFOS and PFOA
 - Soil contained PFOS and PFOA at levels below the calculated screening levels except at one area (Fire Training Area 2)
 - PFOS and PFOA detected in Salt Fork Creek surface water and sediment
 - No drinking water impacts were identified

Report to document results expected in December 2017



Landfills Operations, Maintenance, and Monitoring



- **Activities Since Last RAB**
 - **Completed monitoring activities at all landfills, landfill cap inspections and land use control inspections in May (no deficiencies found)**
 - Ecolotree conducted an inspection of the Evapotranspiration (ET) buffers in August. Overall, the ET buffers are in good shape, but several small areas require pruning, re-planting, and treatments
 - **Collected influent and effluent samples from Landfill 2 Leachate Treatment System**
 - **Drafted 2016 Operations, Maintenance, & Monitoring (OM&M) Report for Air Force review**



Landfills Operations, Maintenance and Monitoring



Landfill 2 has complete tree survival in deep swale



West side has some trees missing and thin areas that will be replanted



Landfills Operations, Maintenance and Monitoring



Landfill 3 shows healthy tree establishment



Trees with borer damage will be cut to regrow



Landfills Operations, Maintenance, and Monitoring



- **Activities to be Completed in 2018:**
 - **Complete 2017 OM&M Report**
 - **Maintenance of ET Buffers (removal of volunteer trees and re-planting of dead buffer trees)**
 - **Continue operation of Landfill 2 Leachate Treatment System**
 - **Conduct monitoring, sampling, and inspection activities at landfill sites**

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Property Transfer

Mr. Paul Carroll
AFCEC/CIBE BRAC
Environmental
Coordinator



Property Transfer



- **Parcels D2, D3, D5 – Negotiated Sale to Village of Rantoul (69.4 acres)**
 - Land Use Control Environmental Covenant approved by Illinois EPA and Village of Rantoul
 - Findings of Suitability to Transfer signed
 - Deed planned for 2017



Property Transfer



- **Majority of remaining property (288 acres) pending Operating Properly and Successfully (OPS) Determination approval**
 - **Illinois EPA concurred with 11 sites in October 2014**
 - **U.S. EPA Region 5 concurred with nine sites in July 2017**
 - **Other two sites achieved closure**
 - **Submitted OPS Determination to Illinois EPA and U.S. EPA for last two sites in April 2016 – review pending**



Public Comments



- **Public comments (from the floor)**



Meeting Wrap-Up

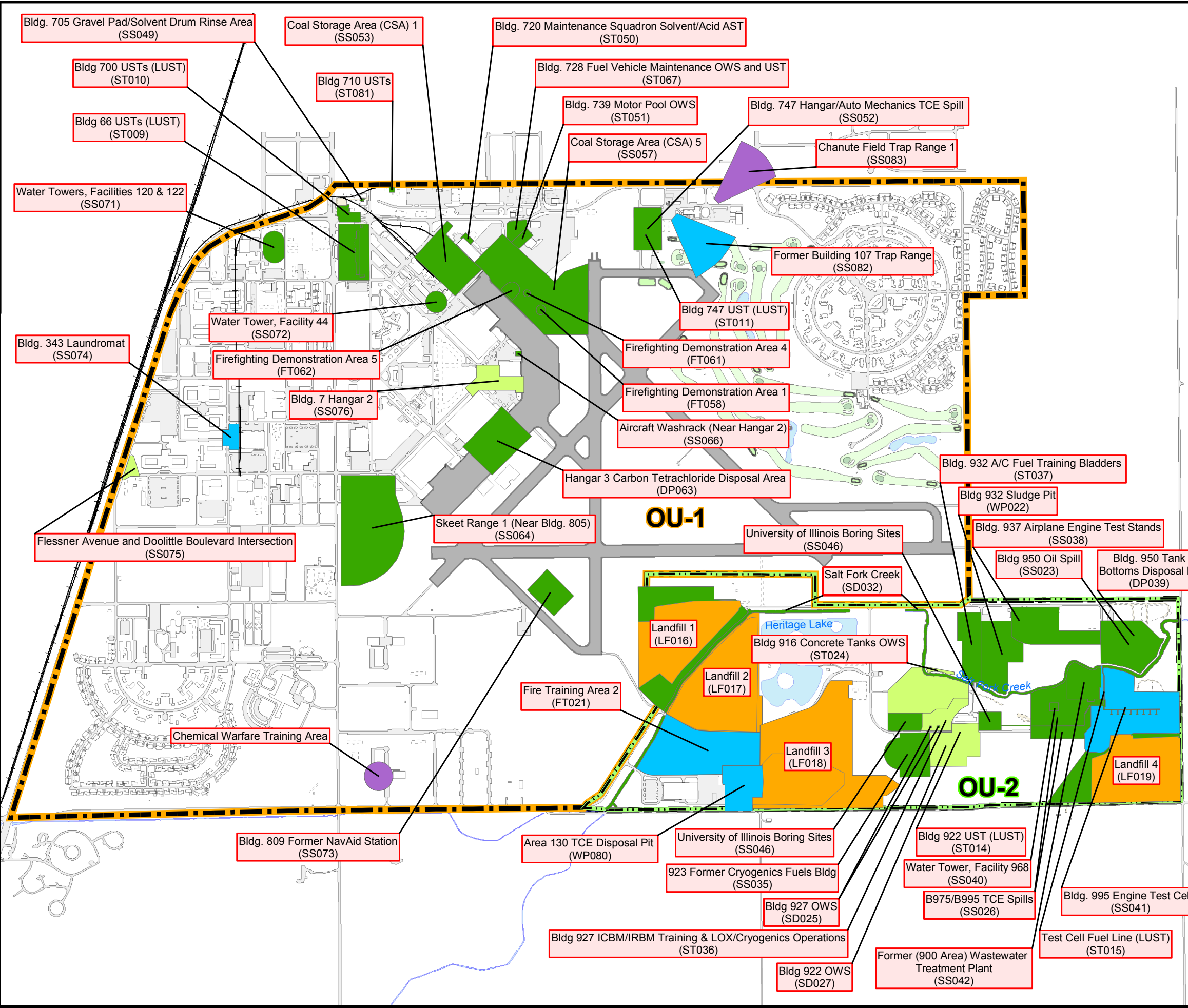


- **Review action items for next meeting**
- **Proposed agenda items for next meeting**
- **Proposed next RAB Meeting:**
 - **Date: May 17, 2018**
 - **Time: 12:00pm**
 - **Location: Rantoul Business Center, Main Conference Room**

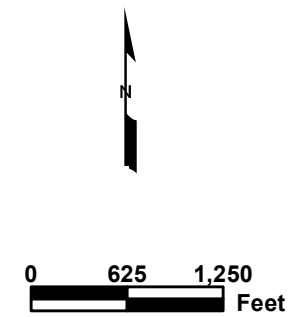


APPROVED BY: A. Bumb DATE: 11/12/2017
 CHECKED BY: H. Sparrow REV: 0
 DRAWN BY: M.Hall DOC DGN:

H:\Chanute_AFB\GIS_Documents\Project_Maps\Chanute_Field_Trap_Range_1\1RAB_Meeting_Nov2017\Environ_Rest_Progress_V2.mxd



- Legend**
- OU-1 Boundary
 - OU-2 Boundary
 - Closed
 - Rebound Monitoring
 - OM&M
 - Ongoing Remedial Action
 - PA/SI
 - Railroad
 - Golf Course Fairway
 - Paved
 - Unpaved
 - Existing Facility
 - Former Structures
 - Airfield
 - River/Stream
 - Lake/Pond



**ENVIRONMENTAL RESTORATION PROGRESS
 FORMER CHANUTE AFB
 NOVEMBER 2017**

FORMER CHANUTE AIR FORCE BASE
 RANTOUL, ILLINOIS
 CONTRACT NO. FA4890-06-D-0010