

Air Force Real Property Agency

I n t e g r i t y - S e r v i c e - E x c e l l e n c e

Galena Restoration Advisory Board



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AFRPA/CIOC
16 Nov 2011

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Overview

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- **Welcome**
 - **Remembering Norman “Buckets” Burgett**
 - **Overview of Environmental Restoration Strategy**
 - **2011 Accomplishments**
 - **Plans for winter 2011-2012**
 - **Planned field activities for 2012**
 - **Remarks from ADEC**
 - **Real Estate Update**
 - **Public Involvement Update**
 - **Remarks from Stakeholders**
 - **Suggested Agenda Items for next RAB**
 - **General Discussion and Closing Remarks**
 - **Adjournment**
-



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Remembering Norman “Buckets” Burgett

- **Service to the Air Force began in 1952**
- **Stationed at Galena Air Force Base by request in 1954**
- **A wealth of knowledge for the Air Force restoration program and a valued member of the Galena RAB**

Buckets' years of dedication in assisting the Air Force in its continued commitment to protect human health and the environment will not be forgotten and will be forever appreciated.





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Overview of Environmental Restoration Strategy

- **2011 Accomplishments**
- **Plans for winter 2011-2012**
- **Planned field activities for 2012**
- **Interim Removal Action**



We Started in the Snow...

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Digging to the Monitoring Wells

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Well Sampling in the Airfield





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River Breakup





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And Ended Up in the Snow





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GPS Surveying





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Tree Clearing for Future Landfarm





Moving Trees and Brush

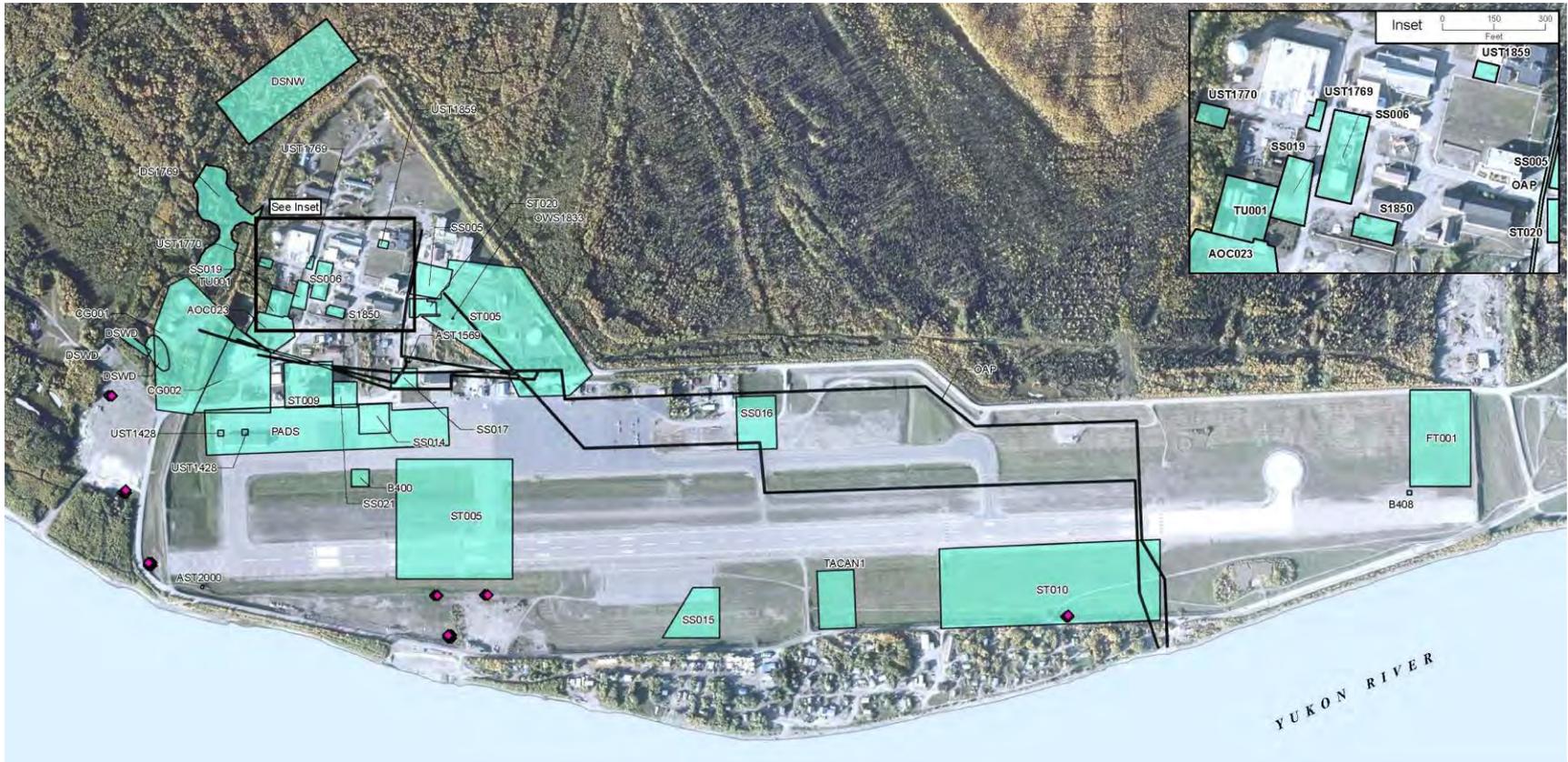
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Areas Investigated





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2011 Field Activities

- Groundwater sampling of **164** wells in April/May and **218** wells in September/October
- Installation of **56** new monitoring wells to further define the groundwater contaminant plumes
- Well pump tests to measure the aquifer properties that affect groundwater flow



2011 Field Activities (cont'd)

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- Soil sampling at all known contamination areas with the goal of completing the delineation of the contaminant “nature and extent”
- Soil sampling around the existing soil vapor extracting and bioventing systems to evaluate cleanup to date and provide information for future system optimization



2011 Field Activities (cont'd)

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- Operated the solar-powered Bioreactor from May to October at the SS015 TCE Source Area
- Quarterly monitoring of two private wells in Old Town downgradient of SS015
- Installed activated charcoal filters at these two private wells
- Continued operating and monitoring the Million Gallon Hill, POL Tank Farm, and GAVTC remediation systems



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Soil Sampling





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Soil Sampling





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Well Installation





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Well Installation





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Well Installation





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Well Sampling





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Well Sampling





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Well Sampling





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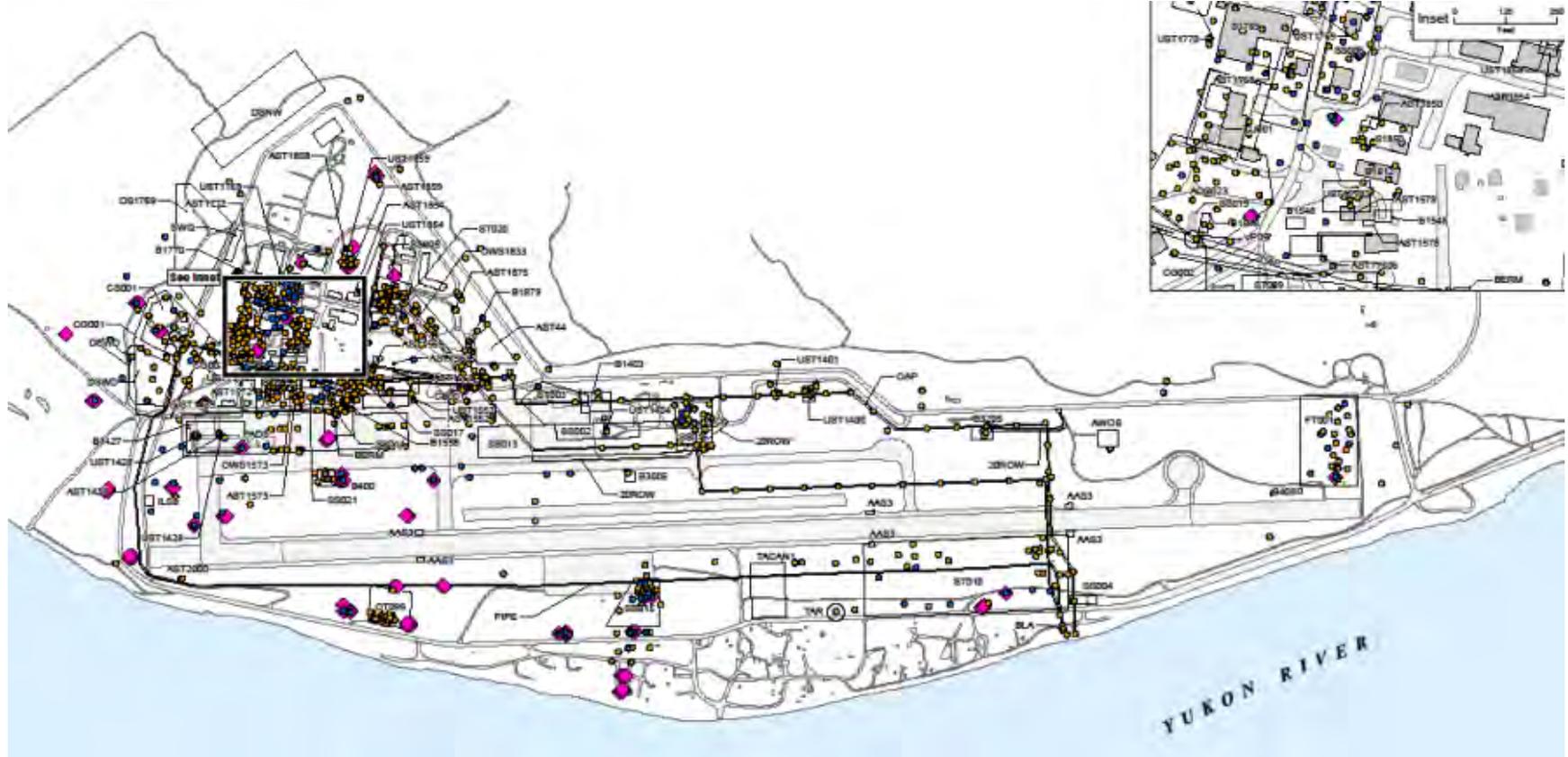
Bioreactor Startup





2010 and 2011 Sampling Locations

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2010 and 2011 Field Work Summary

- Total soil borings drilled: **856**
- Total number of soil samples: **3,631**
- Total new monitoring wells installed: **72**
- Total number of groundwater samples: **1,175**



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Field Staff





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Field Staff





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Field Staff





Demobilizing the Drilling Rigs

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■ Questions or Comments?



- **IRA Approach**
- **Sites Excavated in 2011**
- **SS005 Excavation**
- **AST1569 Excavation**
- **SS014 Excavation**
- **SS017 Excavation**
- **Stockpiling Soil at Former Campion Airstrip**



Sites Excavated in 2011

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IRA Approach

- Targeted sites with highest petroleum contamination in soil
 - SS014
 - SS016
 - SS017
 - SS021
 - Two sites (SS005 and AST 1569) were added with the intent to remove all contaminated POL soil to achieve cleanup levels
 - Site SS021 was removed from the planned removal action based upon low levels of POL in shallow soils
 - Excavate soil during seasonal low-water (late Summer) to maximize depth of soil removal
-



IRA Approach (cont'd)

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- SS005 and AST1569 were excavated early to ensure completion prior to start of 2011/2012 school year
- Backfill excavations using borrow soil purchased from the community
- Unable to excavate soil at SS016 due to over-excavation from other sites and field season time constraints
- Contaminated soil was stockpiled at the former Campion airstrip
- Re-grade the road to Campion



Summary of SS005 Excavation Activities

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- Area of former above ground fuel storage tanks and pipeline at location of the Former Wilderness Hall
 - 744 yds³ of concrete foundation removed to facilitate soil removal action
 - Planned excavation volume 3,100 yds³; Actual excavation volume 4,400 yds³
 - Encountered more petroleum contamination in the northern section of the excavation than anticipated
 - Average excavation depth 15 ft bgs
 - Some residual contamination was left in place above screening levels in northern portion of site due to time constraints
-



SS005 Excavation (cont'd)

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Sample Collection during Excavation





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Sample Screening Analysis at On-Site Lab





Backfilling SS005 Excavation

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SS005 Excavation Complete





AST1569 Excavation

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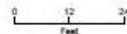
Approximate location of Elmendorf AFB, Alaska
1465534, 1465534, 1465534, 1465534, 1465534

LEGEND

- AST1569
- Adjacent Site
- Approximate Location of Former Feature
- Structure
- Excavation Boundary
- Contour Elevations



Note:
1. Aerial photography courtesy Alaska Department of Commerce, Community and Economic Development, Division of Community and Regional Affairs, July 7, 2009. Pixel size 6 inch.





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Summary of AST1569 Excavation Activities

- Area near the standby generator at former RAPCON Building
- Planned excavation volume 140 yds³; Actual excavation volume 200 yds³
- Average excavation depth 8 ft bgs



AST1569 Excavation (cont'd)

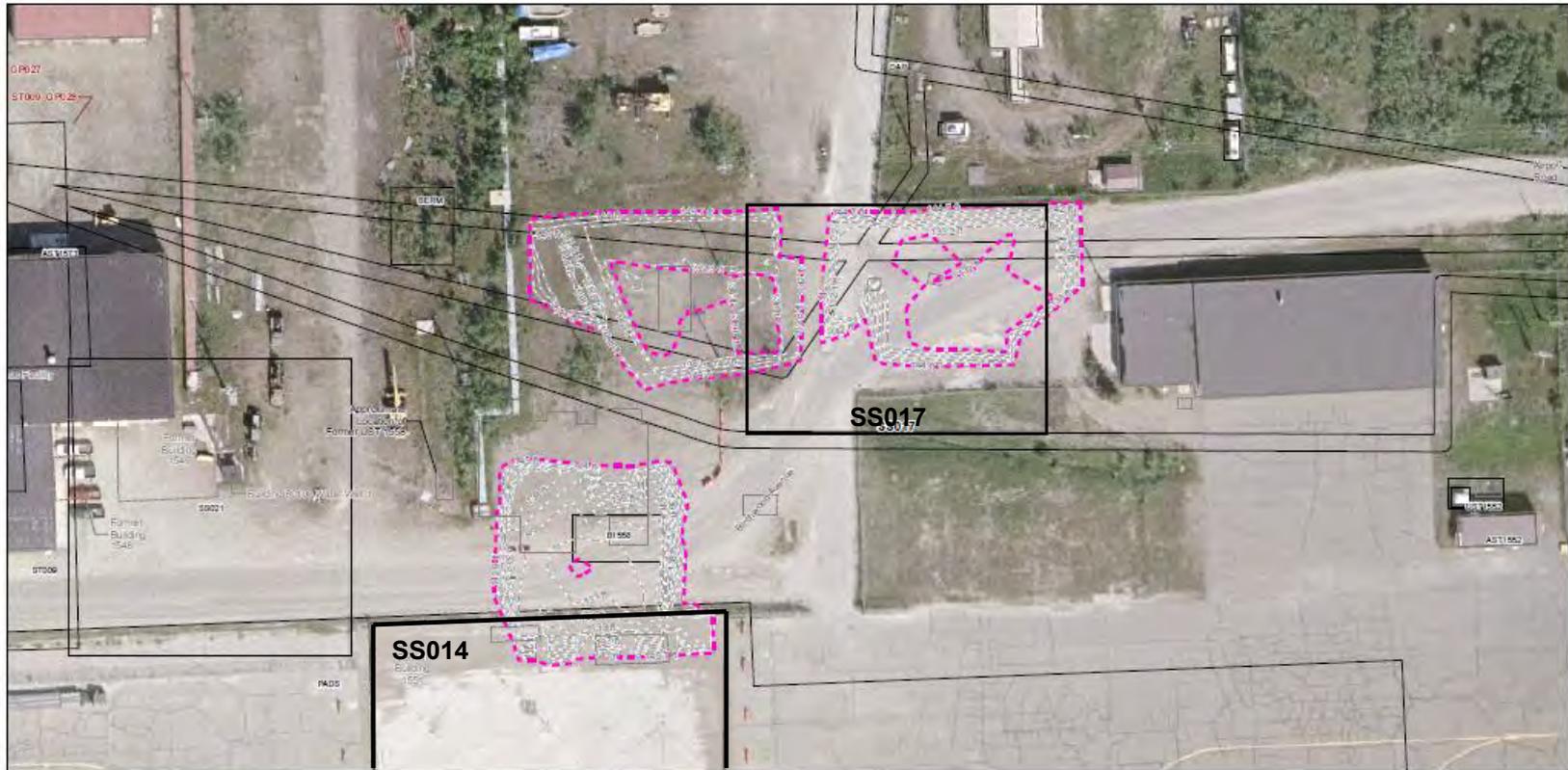
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SS014 Excavation

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LEGEND

- SS014/SS017
- Adjacent Site
- Approximate Location of Former Feature
- Structure
- Excavation Boundary
- Excavation Contour Elevations



Note:
 1. Aerial photography courtesy Alaska Department of Commerce, Community and Economic Development, Division of Community and Regional Affairs. July 7, 2009. Pixel size 6 inch.





Summary of SS014 Excavation Activities

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- Area North of the former Birchwood Hangar (Site SS014)
- Planned excavation volume 2,725 yds³; Actual excavation volume 4,700 yds³
- Average excavation depth 12 ft bgs
- Abandoned asbestos wrapped buried fuel lines were encountered and removed (~200 ft)
- ~300 ft of pipe, conduit, or cable were removed
- ~200 yds³ of concrete/asphalt debris removed



SS014 Excavation (cont'd)

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Abandoned Fueline Removal at SS014

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Covered Piping Material at SS014

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Concrete Wall at SS014

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SS014 Excavation Complete

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Summary of SS017 Excavation Activities

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- Area where former diesel truck fill stand and valve pit was located
- Planned excavation volume 5,100 yds³; Actual excavation volume 8,400 yds³
- Average excavation depth 12 ft bgs in the eastern portion and 9 ft bgs in the western portion
- Abandoned asbestos wrapped buried fuel lines were encountered and removed (~180 ft)
- ~500 ft of pipe, conduit or cable was removed
- ~110 yds³ of concrete/asphalt debris removed



SS017 Excavation (cont'd)

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SS017 Excavation (cont'd)

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Backfilling SS017 Excavation

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Stockpiling Soil at Former Campion Airstrip





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Stockpiling Soil at Former Campion Airstrip (cont'd)





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Decontamination of Dump Trucks at Former Campion Airstrip





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Air Monitoring at Champion Airstrip Stockpile





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Regrading the Road to Campion





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Covering Stockpiled Soil at Former Campion Airstrip





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Covered Stockpiled Soil at Former Campion Airstrip





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Tree Clearing for Future Landfarm





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Tree Clearing for Future Landfarm





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■ Questions or Comments?



Public Involvement Update

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- **The Air Force is building a Community Relations Plan to identify community concerns and planned actions by the Air Force to address those concerns**
 - **Greg Gangnuss and Rachel Fish (AFRPA Public Affairs) are available through Thursday, 17 Nov for interviews**
 - **If you would prefer, questionnaires are available for you to fill out and return to us**
 - **The Air Force wants to hear what you have to say**
-



Public Involvement Update

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- Galena Newsletter
 - Created to keep stakeholders informed of the status of environmental cleanup activities
 - AFRPA works with BEC, contractors and regulators for newsletter content
 - Second edition is available for you to pick up around the community



The Former Galena FOL Environmental Update

Published to keep the Galena community informed of the Air Force's environmental cleanup progress | Vol 1, Issue 2 | November 2011

Looking Back on 2011 and Ahead to 2012

2011 was a productive year for the Air Force Real Property Agency's environmental restoration program for Galena, AK. We will continue the momentum in 2012 as the environmental cleanup continues. This issue contains updates on activities completed to date and plans for next year.



Interim Removal Action

This year, AFRPA's contractor, CH2M Hill, removed 17,700 cubic yards of petroleum-contaminated soils from four sites – the former Wilderness Hall (SS005), the former Birchwood Hangar (SS014), the former truck fill-stand (SS017) and the former RAPCON above-ground storage tank (AST1569). AFRPA also built a pedestrian walkway for Galena residents and students prior to excavation of sites SS014 and SS017 to ensure the safety of pedestrians during the interim removal actions next to the flightline.



(Top) AFRPA completed Interim Removal Actions on four sites this year, and (above) conducted soil sampling on the sites.

In Memoriam: Norm (Buckets) Burgett 1934-2011

Condolences go out to the family and friends of Norm (Buckets) Burgett of Galena, who passed away November 1, 2011 in Fairbanks.

Buckets was born in Indianapolis and joined the U.S. Air Force in 1952. At his request he was stationed at Galena Air Force Base in 1954. There he met his wife of 56 years, Cecelia, and together they had eight children. Buckets was devoted to their 25 grandchildren and 12 great-grandchildren.

Buckets had several careers throughout his life, working much of that time at Galena AFB where he was actively involved in the Air Force environmental program.

He was a wealth of knowledge for the Air Force restoration program and a valued member of the Galena Restoration Advisory Board. He will be greatly missed.

pg2 PROGRESS TO DATE
FIELD INVESTIGATIONS COMPLETE
PERFORMANCE BASED CONTRACT UPDATE

pg3 AHEAD IN 2012
LANDMARK UPDATE
STILL TO COME

pg4 CONTACT INFORMATION
POINTS OF CONTACT FOR AIR FORCE
PERFORMANCE AND COMMENT CARD

In addition, AFRPA completed excavation activities at SS005 prior to the students' return for the 2011/2012 school year to avoid any disruption to the community, and to ensure the safety of the Alaskan students who rely on the Galena community for their educational needs.



Prior to End of Meeting

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- **Suggested Agenda Items for Next RAB**
- **General Discussion and Closing Remarks**





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