

FINAL



IMA

COMPLETION REPORT



3d Inf Div (Mech)

**Former Building 728
Facility ID #9-025049
Hunter Army Airfield, Georgia**

Prepared for



**U.S. ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT**

**Contract No. DACA21-02-D-0004
Delivery Order 0066**

September 2008



FINAL

**COMPLETION REPORT
FORMER BUILDING 728
FACILITY ID #9-025049
HUNTER ARMY AIRFIELD, GEORGIA**

Prepared for

**U. S. Army Corps of Engineers, Savannah District
and
Fort Stewart Directorate of Public Works
Under Contract Number DACA21-02-D-0004
Delivery Order 0066**

Prepared by

**Science Applications International Corporation
301 Laboratory Road
Oak Ridge, TN 37830**

September 2008

COMPLETION REPORT

Facility Name: Former Building 728 Street Address: Douglas Street and Duncan Drive
Hunter Army
Facility ID: 9-025085 City: Airfield County: Chatham Zip Code: 31409
Latitude: 32° 01' 50" Longitude: 81° 08' 04"

Submitted by UST Owner/Operator:

Name: Thomas C. Fry/ Environmental Branch
Company: U. S. Army/HQ 3d, Inf. Div. (Mech)
Address: Directorate of Public Works, Bldg. 1137
1550 Frank Cochran Drive
City: Fort Stewart State: GA
Zip Code: 31314-4927
Telephone: (912) 767-2010

Prepared by Consultant/Contractor:

Name: Patricia A. Stoll
Company: SAIC
Address: P.O. Box 2501
City: Oak Ridge State: TN
Zip Code: 37831
Telephone: (865) 481-8792

I. REGISTERED PROFESSIONAL ENGINEER OR PROFESSIONAL GEOLOGIST CERTIFICATION

I hereby certify that I have directed and supervised the fieldwork and preparation of this plan in accordance with State Rules and Regulations. As a registered professional geologist and/or professional engineer, I certify that I am a qualified groundwater professional, as defined by the Georgia State Board of Professional Geologists. All of the information and laboratory data in this plan and in all of the attachments are true, accurate, complete, and in accordance with applicable State Rules and Regulations.

Name: Patricia A. Stoll
Signature: *Patricia A. Stoll*
Date: 9/18/08



The objective of the corrective action and subsequent monitored natural attenuation implemented at the Former Building 728 site was to reduce the contaminant concentrations in soil and groundwater to concentrations below the alternate threshold levels and alternate concentration limits. The remedial action was conducted in accordance with the *Corrective Action Plan (CAP)–Part B Addendum #1 and First Annual Pilot Study Progress Report, Former Building 728, Facility ID #9-025049, Hunter Army Airfield, Georgia* (SAIC 2000). The report documented the changes to the corrective action proposed in the CAP–Part B Report (Metcalf & Eddy 1997) and summarized the results of the remediation pilot study associated with the corrective action at the Northern Fuel Battery portion of the Former Building 728 site. Georgia Environmental Protection Division (GA EPD) provided technical comments on this document in correspondence dated April 30, 2001 (Logan 2001a). Fort Stewart provided comment responses in correspondence dated August 6, 2001 (Stanley 2001), and the CAP–Part B Addendum #1 Report was approved by GA EPD in correspondence dated October 31, 2001 (Logan 2001b). The results of the groundwater sampling during the remedial action were documented in several annual progress reports.

The *Fifth Annual Pilot Study Progress Report, Former Building 728, Facility ID #9-025049, Hunter Army Airfield, Georgia* (SAIC 2004) documented the results of the corrective action from July 2003 to July 2004 and the decommissioning of the system in July 2004. Construction of buildings for Phase III of the MCA Barracks and Special Operations Facility Battalion Headquarters took place at the site in 2004 through 2007. As recommended in the *Fifth Annual Pilot Study Progress Report* (SAIC 2004), wells were installed around the new building in May 2007 and were sampled for benzene, toluene, ethylbenzene, and xylenes (BTEX) using U. S. Environmental Protection Agency (EPA) Method 8021B/8260B on a semiannual basis for a period of 1 year to confirm that any remaining groundwater contamination had not migrated beyond the footprint of the building. The results of the year of confirmatory sampling were documented in the *Sixth Annual Monitoring Only Report, Former Building 728, Facility ID #9-025049, Hunter Army Airfield, Georgia* (SAIC 2008).

Fort Stewart Directorate of Public Works requested a No Further Action Required (NFAR) status for the *Sixth Annual Monitoring Only Report* (SAIC 2008), which was submitted to GA EPD Underground Storage Tank Management Program (USTMP) on June 30, 2008. In correspondence dated July 15, 2008, GA EPD USTMP granted the request for NFAR at Former Building 728, Facility ID #9-025049 (Lewis 2008).

On July 18, 2008, six monitoring wells located around the Former Building 728 site were abandoned. The wells abandoned in July 2008 include 728-MW-01, -02, -03, -04, -05, and -06. The well abandonment logs are provided in Appendix A and photographs of the abandoned well locations are provided in Appendix B.

References:

- Lewis, Lisa L. 2008. Letter to Thomas C. Fry (Fort Stewart Directorate of Public Works, Environmental Branch), “Corrective Action Plan (CAP) Part B – No Further Action Required,” July 15.
- Logan, William E. 2001a. Letter to Thomas C. Fry (Fort Stewart Directorate of Public Works, Environmental Branch), “Review Comment on the CAP–Part B Addendum #1 Report,” April 30.
- Logan, William E. 2001b. Letter to Colonel Gregory V. Stanley (Fort Stewart Directorate of Public Works, Environmental Branch), “Notice to Implement CAP–Part B,” October 31.
- Metcalf & Eddy 1997. *Final Corrective Action Plan–Part B Report for Former Building 728, EPD Facility ID: 9-025035 and 9-025049, Hunter Army Airfield, Georgia*, December.

SAIC (Science Applications International Corporation) 2000. *Corrective Action Plan–Part B Addendum #1 and First Annual Pilot Study Progress Report, Former Building 728, Facility ID #9-025049, Hunter Army Airfield, Georgia*, August.

SAIC 2004. *Fifth Annual Pilot Study Progress Report, Former Building 728, Facility ID #9-025049, Hunter Army Airfield, Georgia*, October.

SAIC 2008. *Sixth Annual Monitoring Only Report, Former Building 728, Facility ID #9-025049, Hunter Army Airfield, Georgia*, June.

Stanley, Gregory V. 2001. Letter to William Logan (Georgia Environmental Protection Division, Underground Storage Tank Management Program), “Response to CAP–Part B Addendum #1 Review Comments,” August 6.

APPENDIX A

MONITORING WELL ABANDONMENT LOGS

MONITORING WELL ABANDONMENT LOG		WELL NO 728-MW-01
OWNER/FACILITY OPERATOR [] Fort Stewart [X] Hunter Army Airfield		ABANDONMENT DATE 7/18/08
LOCATION [] Hinesville, Liberty County, Georgia [X] Savannah, Chatham County, Georgia		
SITE Former Building 728		
DEPTH TO WATER (FT BGS): 10.35 ft BTOC	DEPTH TO BOTTOM OF WELL 19.1 ft bgs	
WELL CONSTRUCTION MATERIAL 2-in PVC	SURFACE COMPLETION TYPE Flush mount box	
GROUT MIXTURE Portland cement	QUANTITY OF GROUT USED (GALLONS) ~9 lbs	
GROUT PLACEMENT METHOD Tremie	SURFACE PATCH Dirt	
SITE MAP LEGEND: - - - - - FORMER CHAIN-LINK FENCE ● WELL LOCATION U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS SAVANNAH, GEORGIA FORMER BUILDING 728 FACILITY ID: 9-025049 SITE LOCATION MAP DRAWN BY: DUNLAP REV. NO./DATE: 01/04-08-08 CWD FILE: /87028/00NS/F7LL.DCA-01		

MONITORING WELL ABANDONMENT LOG		WELL NO 728-MW-02
OWNER/FACILITY OPERATOR [] Fort Stewart [X] Hunter Army Airfield		ABANDONMENT DATE 7/18/08
LOCATION [] Hinesville, Liberty County, Georgia [X] Savannah, Chatham County, Georgia		
SITE Former Building 728		
DEPTH TO WATER (FT BGS): 10.65 ft BTOC	DEPTH TO BOTTOM OF WELL 19.1 ft bgs	
WELL CONSTRUCTION MATERIAL 2-in PVC	SURFACE COMPLETION TYPE Flush mount box	
GROUT MIXTURE Portland cement	QUANTITY OF GROUT USED (GALLONS) ~8 lbs	
GROUT PLACEMENT METHOD Tremie	SURFACE PATCH Dirt	
SITE MAP LEGEND: - - - - - FORMER CHAIN-LINK FENCE ● WELL LOCATION U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS SAVANNAH, GEORGIA FORMER BUILDING 728 FACILITY ID: 9-025049 SITE LOCATION MAP SCALE: 1" = 60' U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS SAVANNAH, GEORGIA FORMER BUILDING 728 FACILITY ID: 9-025049 SITE LOCATION MAP DRAWN BY: DUNLAP REV. NO./DATE: 01/04-08-08 CNO FILE: /87028/00NS/F7LL.DCA-01		

MONITORING WELL ABANDONMENT LOG		WELL NO 728-MW-03
OWNER/FACILITY OPERATOR [] Fort Stewart [X] Hunter Army Airfield		ABANDONMENT DATE 7/18/08
LOCATION [] Hinesville, Liberty County, Georgia [X] Savannah, Chatham County, Georgia		
SITE Former Building 728		
DEPTH TO WATER (FT BGS): 10.11 ft BTOC	DEPTH TO BOTTOM OF WELL 17.1 ft bgs	
WELL CONSTRUCTION MATERIAL 2-in PVC	SURFACE COMPLETION TYPE Flush mount box	
GROUT MIXTURE Portland cement	QUANTITY OF GROUT USED (GALLONS) ~7 lbs	
GROUT PLACEMENT METHOD Tremie	SURFACE PATCH Dirt	
SITE MAP LEGEND: - - - - - FORMER CHAIN-LINK FENCE ● WELL LOCATION U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS SAVANNAH, GEORGIA FORMER BUILDING 728 FACILITY ID: 9-025049 SITE LOCATION MAP SCALE: 1" = 60' U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS SAVANNAH, GEORGIA FORMER BUILDING 728 FACILITY ID: 9-025049 SITE LOCATION MAP DRAWN BY: DUNLAP REV. NO./DATE: 01/04-08-08 CNO FILE: /87028/00NS/F7LL.DCA-01		

MONITORING WELL ABANDONMENT LOG		WELL NO 728-MW-04
OWNER/FACILITY OPERATOR [] Fort Stewart [X] Hunter Army Airfield		ABANDONMENT DATE 7/18/08
LOCATION [] Hinesville, Liberty County, Georgia [X] Savannah, Chatham County, Georgia		
SITE Former Building 728		
DEPTH TO WATER (FT BGS): 9.40 ft BTOC	DEPTH TO BOTTOM OF WELL 16.1 ft bgs	
WELL CONSTRUCTION MATERIAL 2-in PVC	SURFACE COMPLETION TYPE Flush mount box	
GROUT MIXTURE Portland cement	QUANTITY OF GROUT USED (GALLONS) ~8 lbs	
GROUT PLACEMENT METHOD Tremie	SURFACE PATCH Dirt	
SITE MAP LEGEND: - - - - - FORMER CHAIN-LINK FENCE ● WELL LOCATION U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS SAVANNAH, GEORGIA FORMER BUILDING 728 FACILITY ID: 9-025049 SITE LOCATION MAP SCALE: 1" = 60' U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS SAVANNAH, GEORGIA FORMER BUILDING 728 FACILITY ID: 9-025049 SITE LOCATION MAP DRAWN BY: DUNLAP REV. NO./DATE: 01/04-08-08 CNO FILE: /87028/00NS/F7LL.DCA-01		

MONITORING WELL ABANDONMENT LOG		WELL NO 728-MW-05
OWNER/FACILITY OPERATOR [] Fort Stewart [X] Hunter Army Airfield		ABANDONMENT DATE 7/18/08
LOCATION [] Hinesville, Liberty County, Georgia [X] Savannah, Chatham County, Georgia		
SITE Former Building 728		
DEPTH TO WATER (FT BGS): 10.99 ft BTOC	DEPTH TO BOTTOM OF WELL 17.1 ft bgs	
WELL CONSTRUCTION MATERIAL 2-in PVC	SURFACE COMPLETION TYPE Flush mount box	
GROUT MIXTURE Portland cement	QUANTITY OF GROUT USED (GALLONS) ~7 lbs	
GROUT PLACEMENT METHOD Tremie	SURFACE PATCH High strength concrete	
SITE MAP LEGEND: - - - - - FORMER CHAIN-LINK FENCE ● WELL LOCATION U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS SAVANNAH, GEORGIA FORMER BUILDING 728 FACILITY ID: 9-025049 SITE LOCATION MAP SCALE: 1" = 60' DRAWN BY: DUNLAP REV. NO/DATE: 01/04-08-08 CNO FILE: /87028/00NS/F7LL.DCA-01		

MONITORING WELL ABANDONMENT LOG		WELL NO 728-MW-06
OWNER/FACILITY OPERATOR [] Fort Stewart [X] Hunter Army Airfield		ABANDONMENT DATE 7/18/08
LOCATION [] Hinesville, Liberty County, Georgia [X] Savannah, Chatham County, Georgia		
SITE Former Building 728		
DEPTH TO WATER (FT BGS): 11.40 ft BTOC	DEPTH TO BOTTOM OF WELL 18.1 ft bgs	
WELL CONSTRUCTION MATERIAL 2-in PVC	SURFACE COMPLETION TYPE Flush mount box	
GROUT MIXTURE Portland cement	QUANTITY OF GROUT USED (GALLONS) ~7 lbs	
GROUT PLACEMENT METHOD Tremie	SURFACE PATCH High strength concrete	
SITE MAP		
LEGEND: - - - - - FORMER CHAIN-LINK FENCE ● WELL LOCATION U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS SAVANNAH, GEORGIA FORMER BUILDING 728 FACILITY ID: 9-025049 SITE LOCATION MAP DRAWN BY: DUNLAP REV. NO/DATE: 01/04-08-08 CNO FILE: /87028/00NS/F7LL.DCA-01		

APPENDIX B

PHOTOGRAPHS OF ABANDONED WELL LOCATIONS



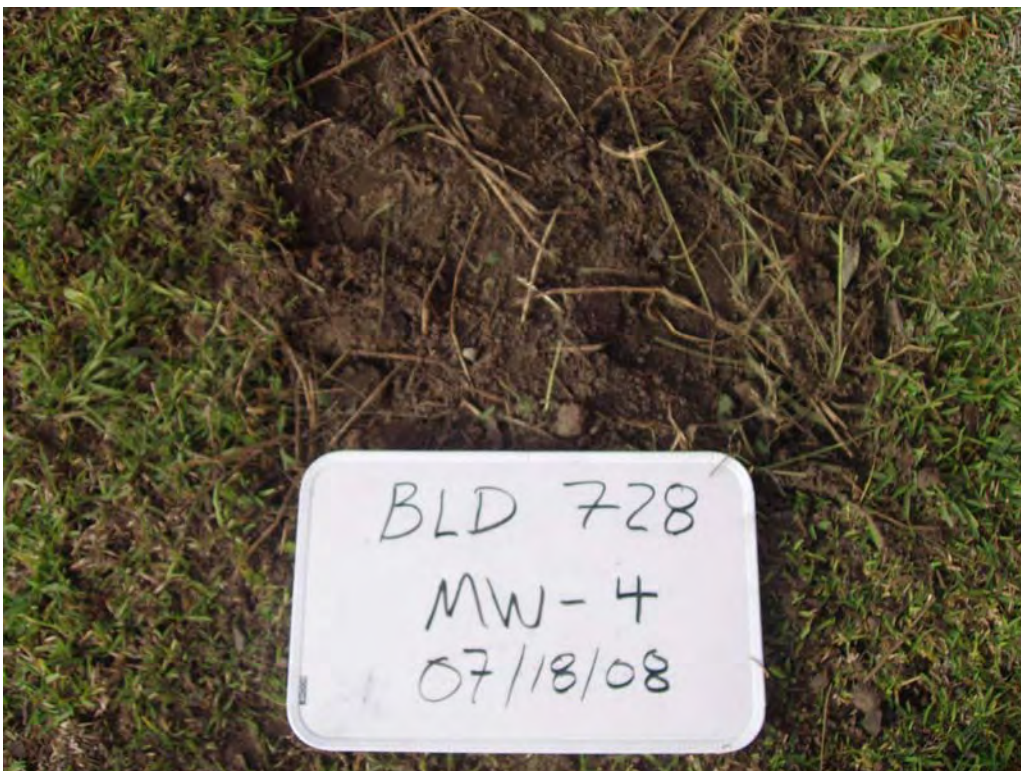
Former Building 728: Well Abandonment – 728-MW-01



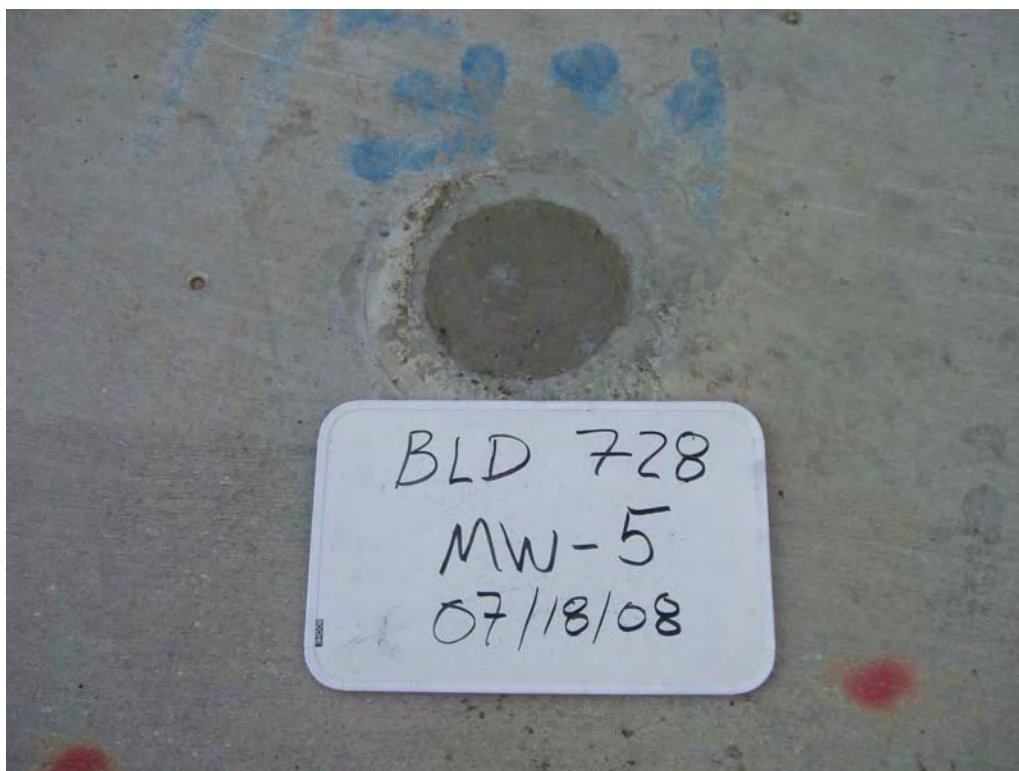
Former Building 728: Well Abandonment – 728-MW-02



Former Building 728: Well Abandonment – 728-MW-03



Former Building 728: Well Abandonment – 728-MW-04



Former Building 728: Well Abandonment – 728-MW-05



Former Building 728: Well Abandonment – 728-MW-06