



IMA

COMPLETION REPORT

FINAL



3d Inf Div (Mech)

**Former Underground Storage Tank 117
Building 7002, Release #1
Bulk Fuel Facility (HAA-09)
Facility ID #9-025113*1
Hunter Army Airfield, Georgia**

Prepared for



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

**Contract No. DACA21-02-D-0004
Delivery Order 0054**

July 2006



FINAL

**COMPLETION REPORT
FOR
FORMER UNDERGROUND STORAGE TANK 117
BUILDING 7002, RELEASE #1
BULK FUEL FACILITY (HAA-09)
FACILITY ID #9-025113*1

HUNTER ARMY AIRFIELD, GEORGIA**

Prepared for

**U. S. Army Corps of Engineers, Savannah District
Under Contract Number DACA21-02-D-0004
Delivery Order 0054**

Prepared by

**Science Applications International Corporation
151 Lafayette Drive
Oak Ridge, TN 37830**

July 2006

FINAL COMPLETION REPORT

Facility Name: Former UST 117, Release #1 Street Address: Bulk Fuel Facility, Building 7002
Facility ID: 9-025113*1 City: Savannah County: Chatham Zip Code: 31409
Latitude: 32°01'43" Longitude: 81°08'37"

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,
Building 1137
1550 Frank Cochran Drive
City: Fort Stewart State: GA
Zip Code: 31314-4927
Telephone: (912) 767-2010

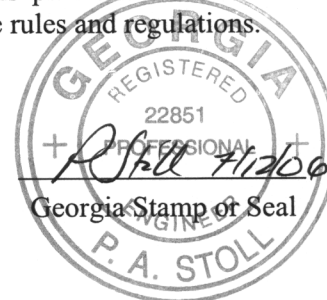
Prepared by Consultant/Contractor:

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

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: 7/12/06



CERTIFICATE OF COMPLETION

I hereby certify that the Corrective Action Plan-Part B, July 2001, for Former UST 117, Building 7002, Facility ID #: 9-025113*1, including any and all certified amendments thereto, had been implemented in accordance with the schedules, specifications, sampling programs, and conditions contained therein, and that the plan's stated objectives have been met.

Signature (Owner/Operator)

The objective of the monitored natural attenuation corrective action implemented at Former Underground Storage Tank (UST) 117, Release #1, at the Bulk Fuel Facility (BFF) was to reduce the concentrations of benzene and naphthalene in groundwater to below the alternate concentration limit (ACL) of 634 and 820 µg/L, respectively. The results of the semiannual monitoring only program for Release #1 were documented in the First Annual Monitoring Only Report (SAIC 2003). The remedial action was conducted in accordance with Section III of the Corrective Action Plan (CAP)-Part B Report (SAIC 2001). Georgia Environmental Protection Division (GA EPD) Underground Storage Tank Management Program (USTMP) provided comments on the CAP-Part B Report in correspondence dated September 28, 2001. Termination conditions in the CAP-Part B Report indicated that termination would be requested once the measured benzene and naphthalene concentrations were below their respective ACL.

Fort Stewart Directorate of Public Works requested a No Further Action Required (NFAR) status for Release #1 in the First Annual Monitoring Only Report (SAIC 2003), which was submitted to GA EPD USTMP on September 3, 2003. In correspondence dated October 6, 2003, GA EPD USTMP granted the request for NFAR at UST 117, Release #1, Building 7002, Facility ID #9-025113*1. However, a second release was discovered at Building 7009 during the semiannual sampling and, as a result, monitoring and free product removal activities have been conducted at Release #2 since July 2004.

On February 15, 2006, the 23 monitoring wells that are located throughout the BFF, but not associated with the activities that are being conducted with respect to Release #2, were abandoned. The wells abandoned in February 2006 include MW-01, -02, -03, -06, -07, -08, -09, -10, -11, -12, -13, -14, -17, -18, -20, -21R, -22, -23, -28, -29, -30, -31, and -32. Six monitoring wells located around the perimeter of the bermed area could not be located either due to destruction by construction activities or due to the over growth of vegetation. These wells include MW-15, -16, -19, -24, -33, and -34. The wells around the perimeter of Building 7009 remain intact for the monitoring of Release #2. The well abandonment logs are provided in [Appendix A](#) and photographs of the abandoned well locations are provided in [Appendix B](#).

APPENDIX A
MONITORING WELL ABANDONMENT LOGS

MONITORING WELL ABANDONMENT LOG		WELL NO MW-01
OWNER/FACILITY OPERATOR [] Fort Stewart [x] Hunter Army Airfield		ABANDONMENT DATE 2/15/06
LOCATION [] Hinesville, Liberty County, Georgia [x] Savannah, Chatham County, Georgia		
SITE UST 117 (Bulk Fuel Facility)		
DEPTH TO WATER (FT. LOC) TOC 3.19	DEPTH TO BOTTOM OF WELL ≈ 15 BLS	
WELL CONSTRUCTION MATERIAL slotted screen 3/4" SCH 40 PVC	SURFACE COMPLETION TYPE concrete flush manifold ≈ 15 BLS	
GROUT MIXTURE Cement/Bentonite/P	QUANTITY OF GROUND GROUT (GALLONS) GROUT 5	
GROUT PLACEMENT METHOD Pour from top	SURFACE PATCH concrete	

SITE MAP

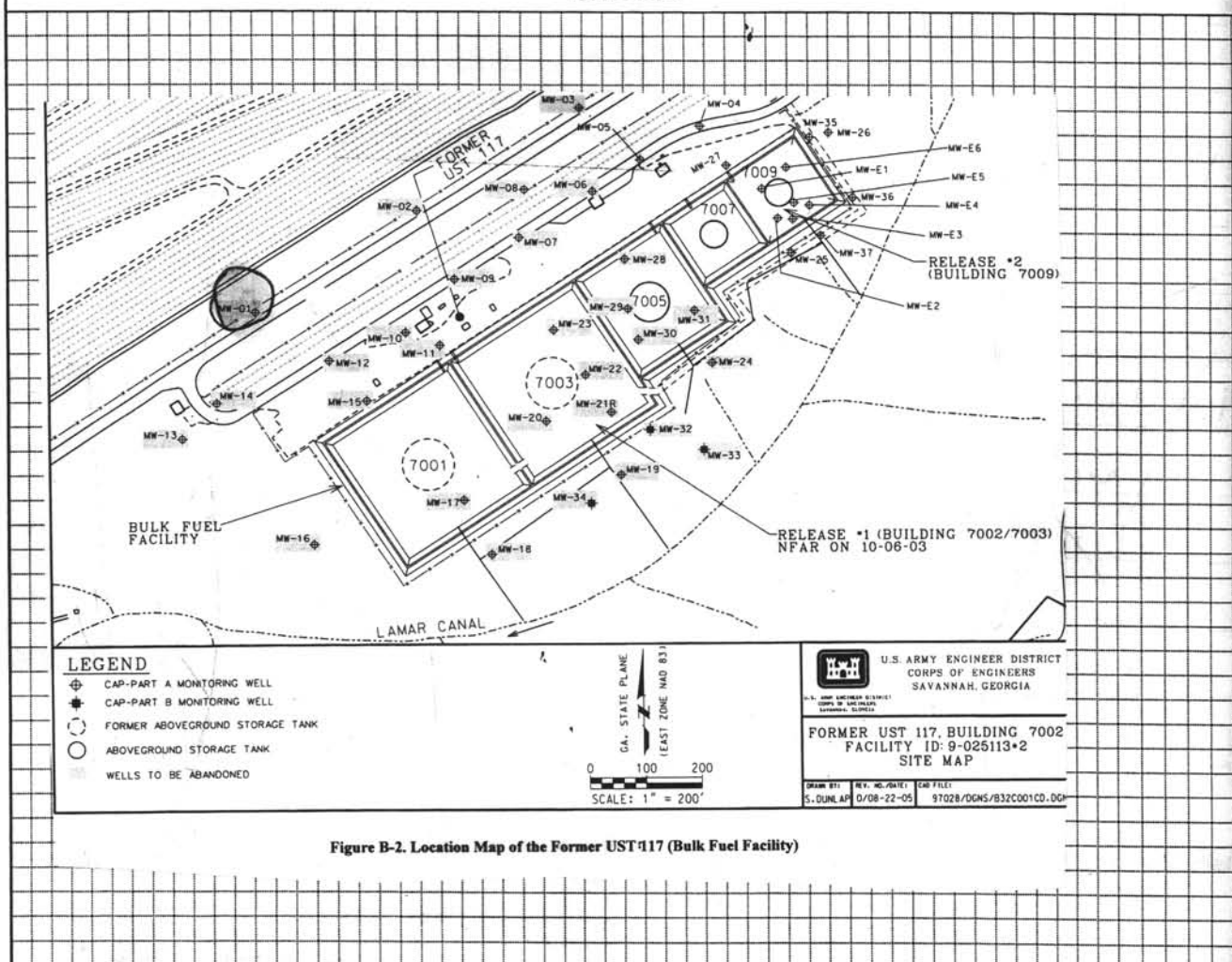


Figure B-2. Location Map of the Former UST #117 (Bulk Fuel Facility)

4

MONITORING WELL ABANDONMENT LOG		WELL NO <i>MW-02</i>
OWNER/FACILITY OPERATOR [] Fort Stewart [✓] Hunter Army Airfield		ABANDONMENT DATE <i>2/15/06</i>
LOCATION [] Hinesville, Liberty County, Georgia [✓] Savannah, Chatham County, Georgia		
SITE <i>UST 117 (Bulk Fuel Facility)</i>		
DEPTH TO WATER (FT. BGS): <i>TOL 1.80</i>	DEPTH TO BOTTOM OF WELL <i>~ 15 BLS</i>	
WELL CONSTRUCTION MATERIAL <i>3/4" SCH 40 PVC slotted screen</i>	SURFACE COMPLETION TYPE <i>concrete pad Fresh manhole</i>	
GROUT MIXTURE <i>Portland / Bentonite</i>	QUANTITY OF GROUT USED (GALLONS) <i>5</i>	
GROUT PLACEMENT METHOD <i>Pour from Top</i>	SURFACE PATCH <i>concrete</i>	

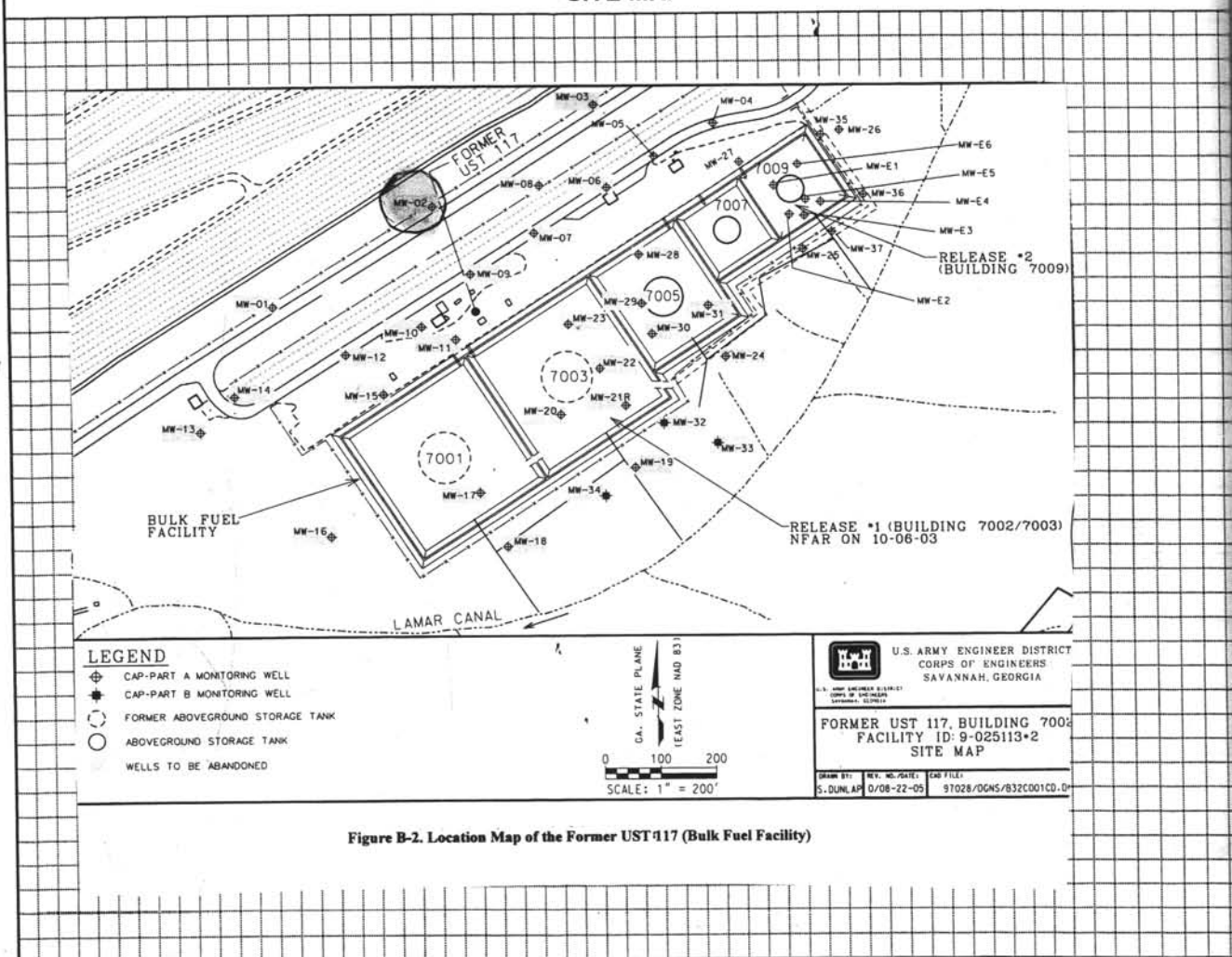
SITE MAP

Figure B-2. Location Map of the Former UST 117 (Bulk Fuel Facility)

MW-01

MW-02

MW-03

MONITORING WELL ABANDONMENT LOG		WELL NO MW-03
OWNER/FACILITY OPERATOR [] Fort Stewart [x] Hunter Army Airfield		ABANDONMENT DATE 2/15/06
LOCATION [] Hinesville, Liberty County, Georgia [x] Savannah, Chatham County, Georgia		
SITE UST 117 (Bulk Fuel Facility)		
DEPTH TO WATER (FT. BGS) TOC 2.45	DEPTH TO BOTTOM OF WELL ≈ 15	
WELL CONSTRUCTION MATERIAL sch 40 pvc slotted screen 3/4"	SURFACE COMPLETION TYPE concrete pad flush mound	
GROUT MIXTURE Portland / Bentonite	QUANTITY OF GROUT USED (GALLONS) 5	
GROUT PLACEMENT METHOD Pour from TOP	SURFACE PATCH concrete	

SITE MAP

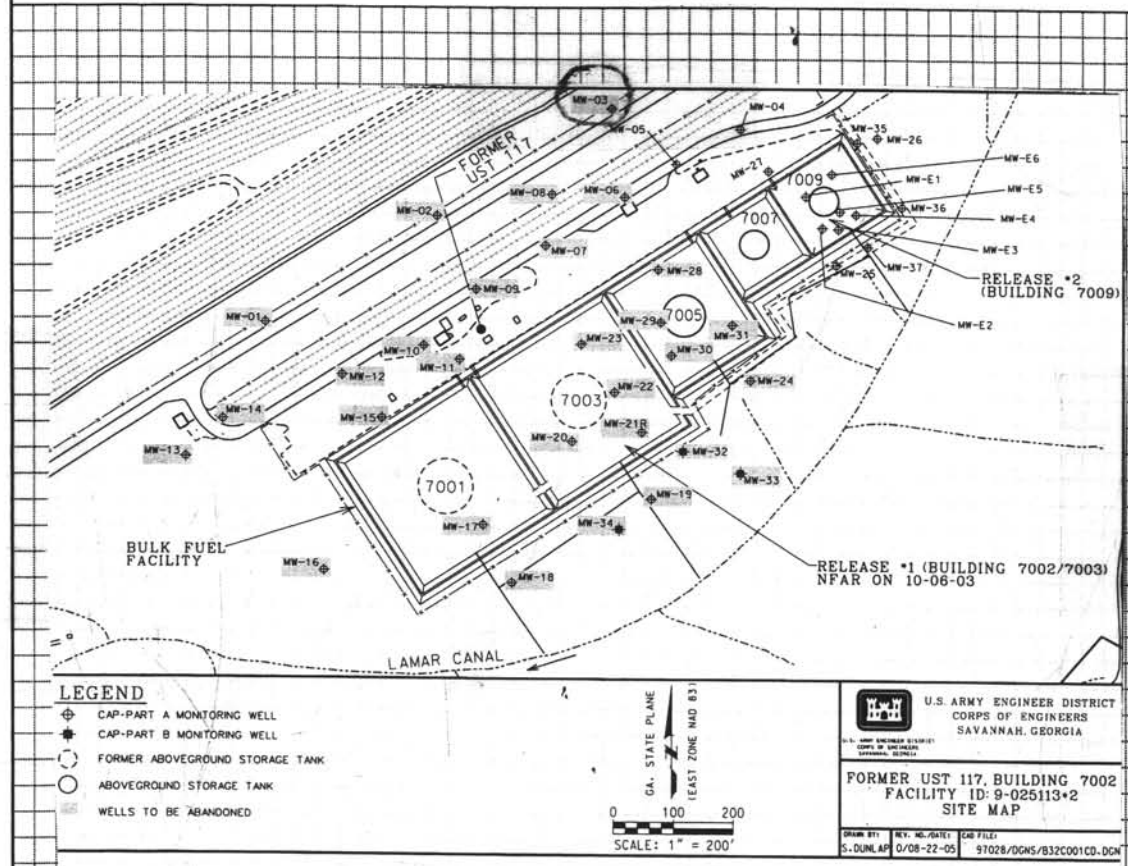


Figure B-2. Location Map of the Former UST 117 (Bulk Fuel Facility)

MONITORING WELL ABANDONMENT LOG

WELL NO

MW-06

OWNER/FACILITY OPERATOR

[] Fort Stewart

[✓] Hunter Army Airfield

ABANDONMENT DATE

2/15/06

LOCATION

[] Hinesville, Liberty County, Georgia

[✓] Savannah, Chatham County, Georgia

SITE

UST 117 (Bulk Fuel Facility)

DEPTH TO WATER (FT. ~~003~~):

TO

3.30

DEPTH TO BOTTOM OF WELL

≈ 15 BLS

WELL CONSTRUCTION MATERIAL

SCH 40 PVC slotted screen 3/4"

SURFACE COMPLETION TYPE

concrete pad flush manhole

GROUT MIXTURE

Portland/Bentonite

QUANTITY OF GROUT USED (GALLONS)

grout 5

GROUT PLACEMENT METHOD

Pour from top

SURFACE PATCH

concrete

SITE MAP

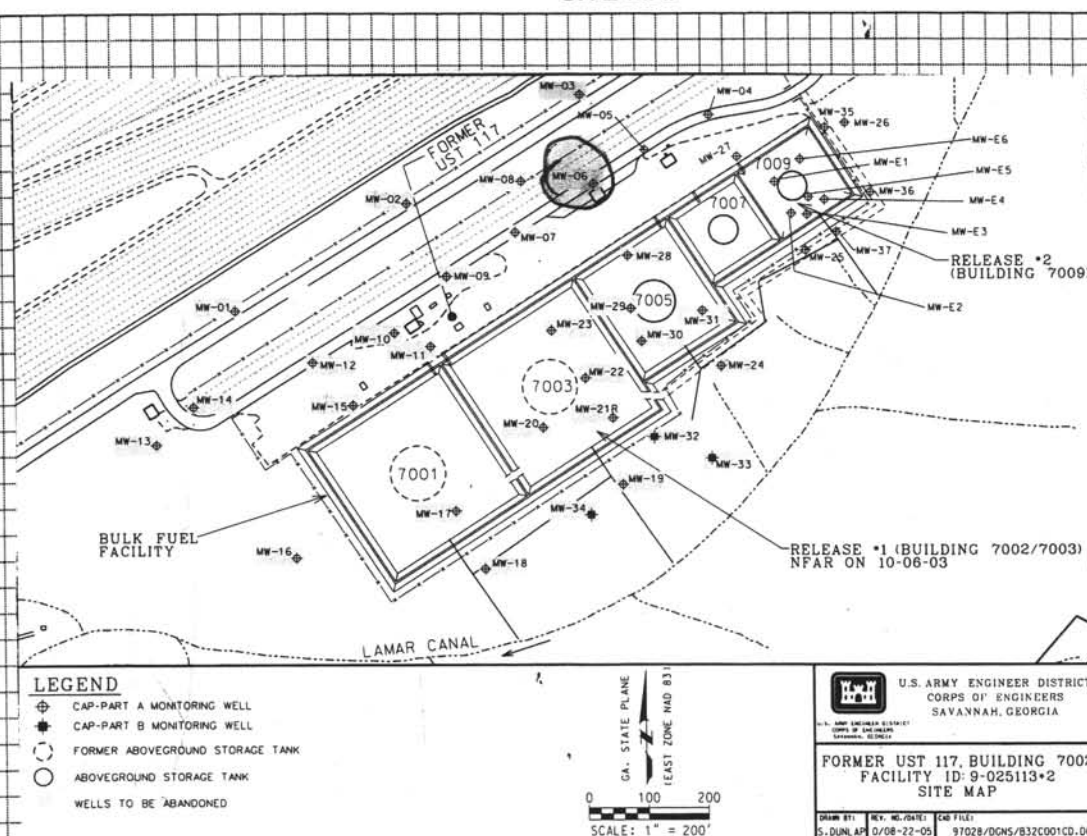


Figure B-2. Location Map of the Former UST 117 (Bulk Fuel Facility)

10

MONITORING WELL ABANDONMENT LOG		WELL NO <i>MW-07</i>
OWNER/FACILITY OPERATOR [] Fort Stewart [<input checked="" type="checkbox"/>] Hunter Army Airfield		ABANDONMENT DATE <i>2/15/06</i>
LOCATION [] Hinesville, Liberty County, Georgia [<input checked="" type="checkbox"/>] Savannah, Chatham County, Georgia		
SITE <i>UST 117 (Bulk Fuel Facility)</i>		
DEPTH TO WATER (FT BGS) <i>BTOC 3.55</i>		DEPTH TO BOTTOM OF WELL <i>~ 15 BL</i>
WELL CONSTRUCTION MATERIAL <i>SCIT 40 PVC slotted screen 3/4"</i>		SURFACE COMPLETION TYPE <i>concrete pad flush man hole</i>
GROUT MIXTURE <i>Portland/Bentonite</i>		QUANTITY OF GROUT USED (GALLONS) <i>groat</i>
GROUT PLACEMENT METHOD <i>Pour From Top</i>		SURFACE PATCH <i>concrete</i>

SITE MAP

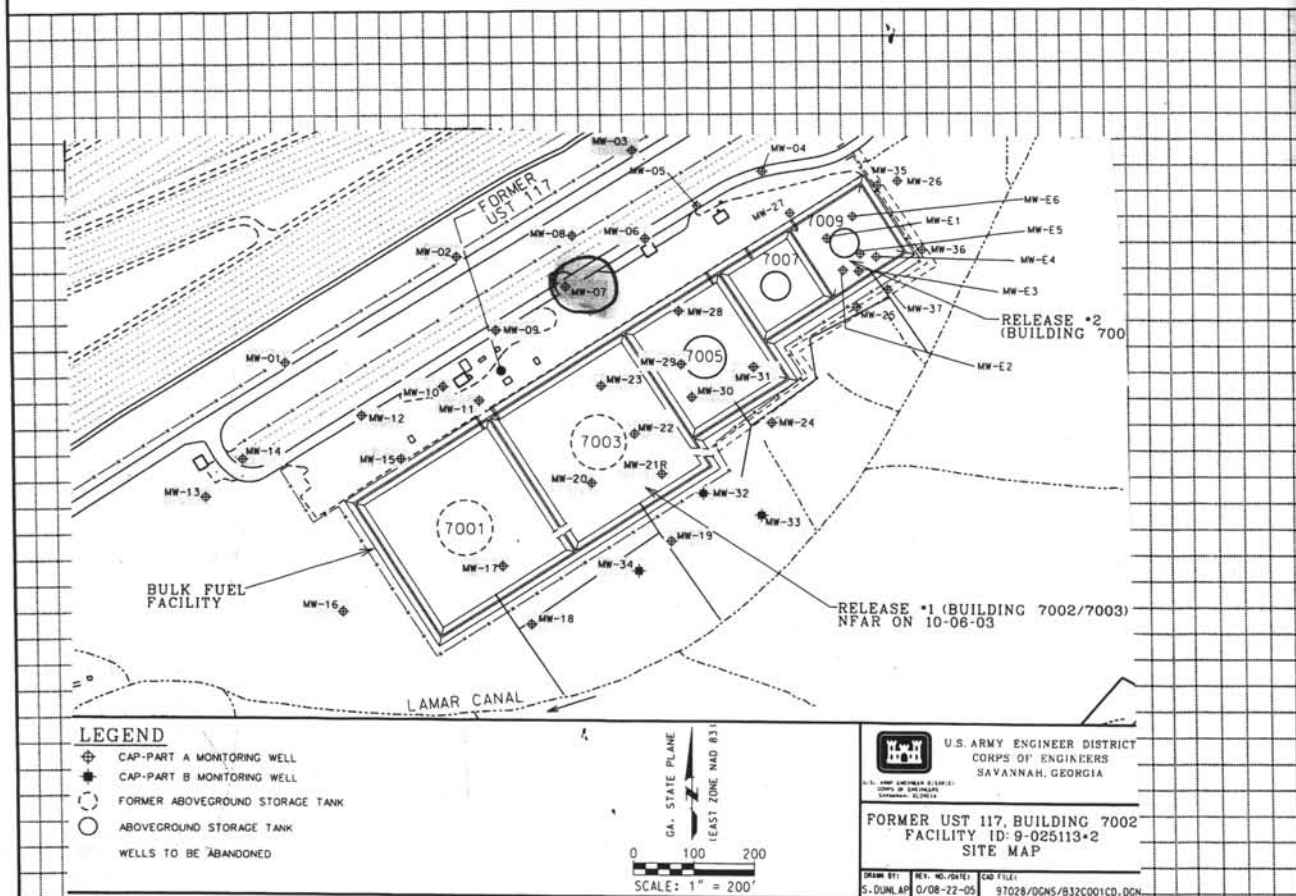


Figure B-2. Location Map of the Former UST 117 (Bulk Fuel Facility)

MONITORING WELL ABANDONMENT LOG		WELL NO <i>MW-08</i>
OWNER/FACILITY OPERATOR [] Fort Stewart [x] Hunter Army Airfield		ABANDONMENT DATE <i>2/15/06</i>
LOCATION [] Hinesville, Liberty County, Georgia [x] Savannah, Chatham County, Georgia		
SITE <i>VST 117 (Bulk Fuel Facility)</i>		
DEPTH TO WATER (FT BGS): <i>BTOC 3.29</i>	DEPTH TO BOTTOM OF WELL <i>≈ 15 BLS</i>	
WELL CONSTRUCTION MATERIAL <i>3/4" SCH 40 PVC slotted screen</i>	SURFACE COMPLETION TYPE <i>concrete pad flush manhole</i>	
GROUT MIXTURE <i>Portland/Bentonite</i>	QUANTITY OF GROUND GROUT USED (GALLONS) <i>5</i>	
GROUT PLACEMENT METHOD <i>Pour from TOP</i>	SURFACE PATCH <i>concrete</i>	

SITE MAP

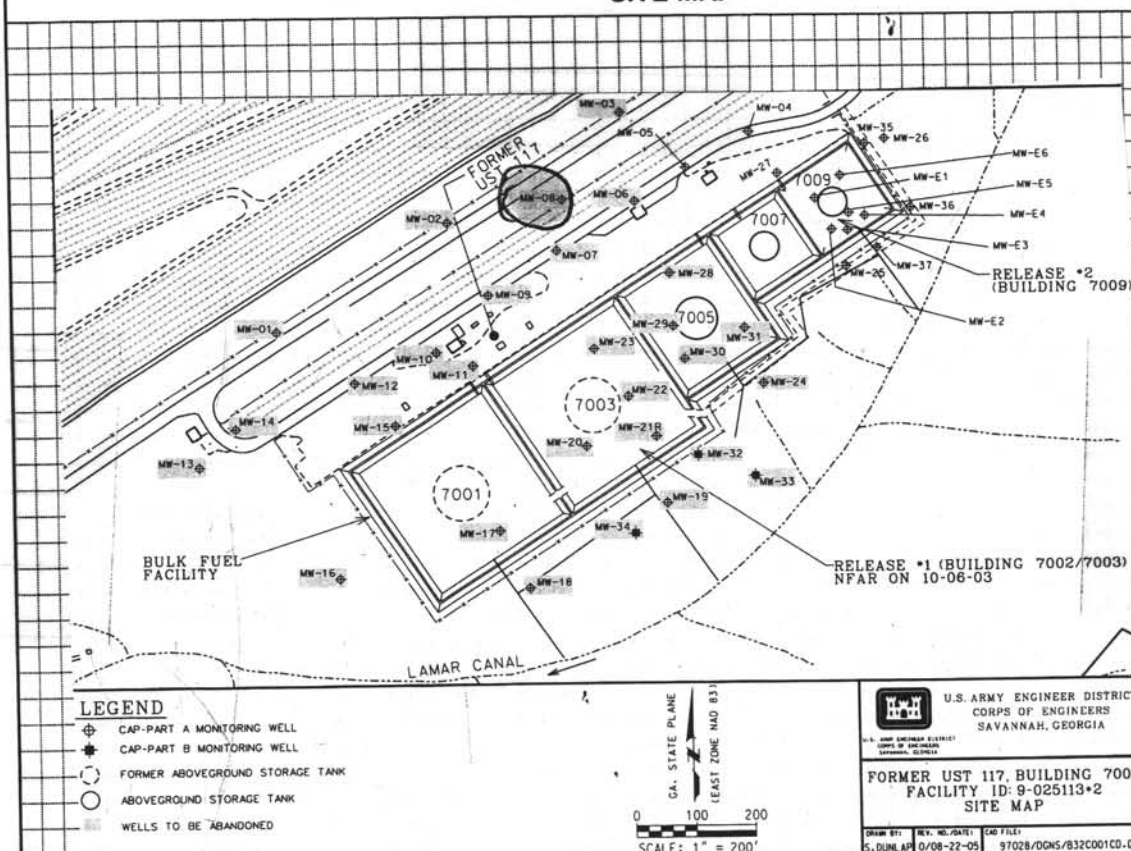


Figure B-2. Location Map of the Former UST 117 (Bulk Fuel Facility)

14

MONITORING WELL ABANDONMENT LOG		WELL NO <i>MW-09</i>
OWNER/FACILITY OPERATOR [] Fort Stewart [✓] Hunter Army Airfield		ABANDONMENT DATE <i>2/15/06</i>
LOCATION [] Hinesville, Liberty County, Georgia [✓] Savannah, Chatham County, Georgia		
SITE <i>UST 117 (Bulk Fuel Facility)</i>		
DEPTH TO WATER (FT. SS) <i>BTOC 3.63</i>	DEPTH TO BOTTOM OF WELL <i>15</i>	
WELL CONSTRUCTION MATERIAL <i>SCH 40 PVC slotted screen 3/4"</i>	SURFACE COMPLETION TYPE <i>concrete pad flush manhole</i>	
GROUT MIXTURE <i>Portland / bentonite</i>	QUANTITY OF GROUND USED (GALLONS) <i>5</i>	
GROUT PLACEMENT METHOD <i>Pour from top</i>	SURFACE PATCH <i>concrete</i>	

SITE MAP

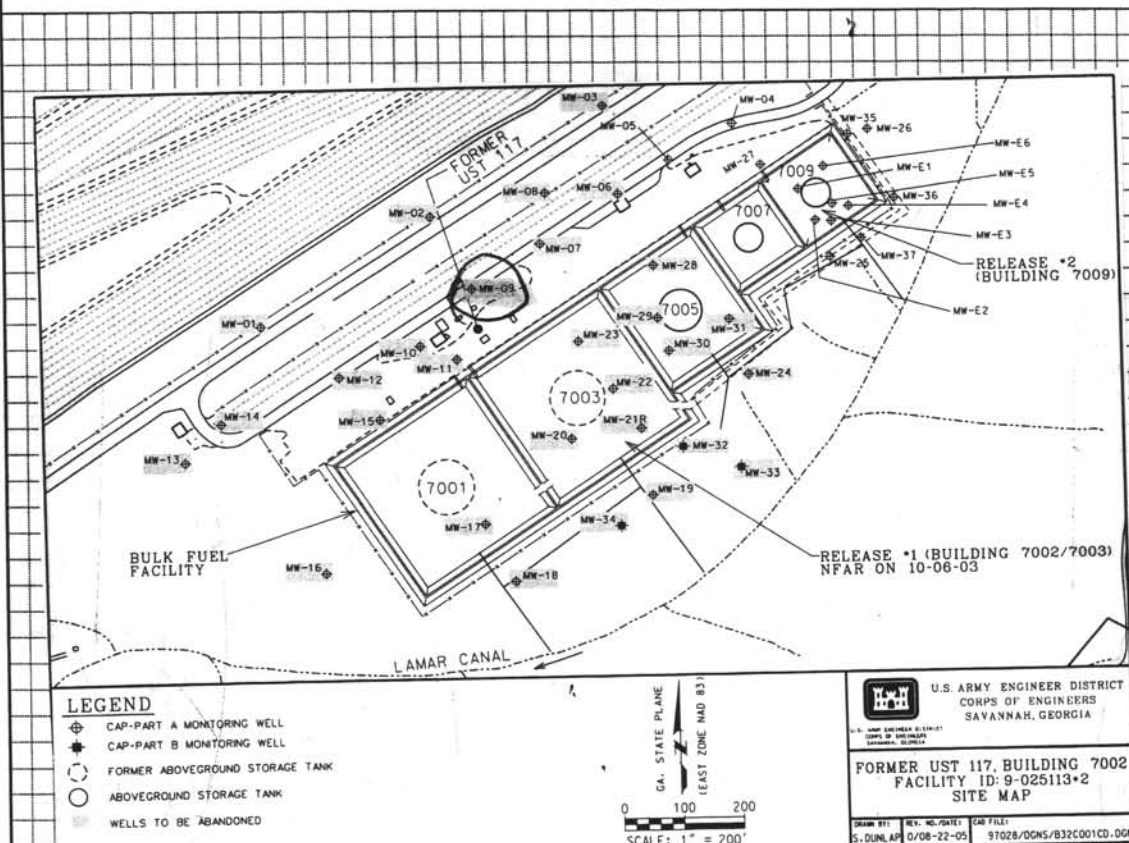


Figure B-2. Location Map of the Former UST 117 (Bulk Fuel Facility)

MONITORING WELL ABANDONMENT LOG

WELL NO

MW-10

OWNER/FACILITY OPERATOR

[] Fort Stewart

[x] Hunter Army Airfield

ABANDONMENT DATE

2/15/05

LOCATION

[] Hinesville, Liberty County, Georgia

[x] Savannah, Chatham County, Georgia

SITE

UST 117 (Bulk Fuel Facility)

DEPTH TO WATER (FT. BGS)

870C

2.44

DEPTH TO BOTTOM OF WELL

~ 15

WELL CONSTRUCTION MATERIAL

50ft 40 pvc slotted screen 3/4"

SURFACE COMPLETION TYPE

concrete pad flush manifold

GROUT MIXTURE

Portland/Bentonite P

QUANTITY OF GROUND USED (GALLONS)

5

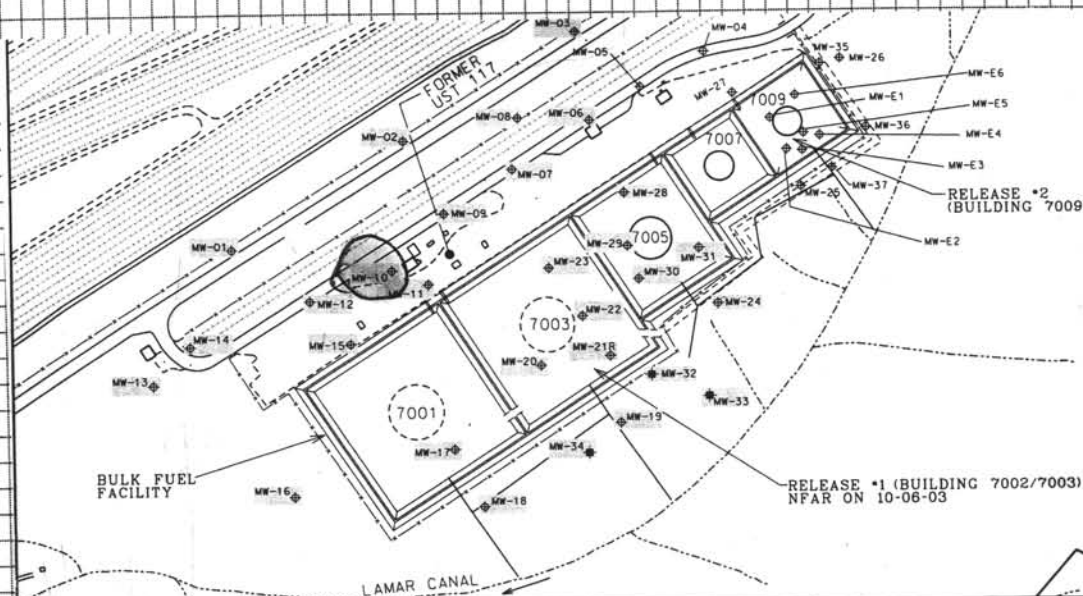
GROUT PLACEMENT METHOD

Pump from top

SURFACE PATCH

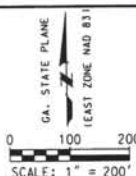
concrete

SITE MAP



LEGEND

- ⊕ CAP-PART A MONITORING WELL
- ⊙ CAP-PART B MONITORING WELL
- FORMER ABOVEGROUND STORAGE TANK
- ABOVEGROUND STORAGE TANK
- WELLS TO BE ABANDONED



U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
SAVANNAH, GEORGIA

FORMER UST 117, BUILDING 7002
FACILITY ID: 9-025113-2
SITE MAP

DRAWN BY: S. DUNLAP REV. NO./DATE: 0/08-22-05 CAD FILE: 97028/DGNS/B32C001CD.DGN

Figure B-2. Location Map of the Former-UST117 (Bulk Fuel Facility)

MONITORING WELL ABANDONMENT LOG		WELL NO <i>MW-11</i>
OWNER/FACILITY OPERATOR [] Fort Stewart [✓] Hunter Army Airfield		ABANDONMENT DATE <i>02/15/06</i>
LOCATION [] Hinesville, Liberty County, Georgia [✓] Savannah, Chatham County, Georgia		
SITE <i>UST 117 (Bulk Fuel Facility)</i>		
DEPTH TO WATER (FT. BGS) <i>BTOC 0.70</i>	DEPTH TO BOTTOM OF WELL <i>~ 15</i>	
WELL CONSTRUCTION MATERIAL <i>sch 40 pvc slotted screen 7/8"</i>	SURFACE COMPLETION TYPE <i>concrete rad flush manhole</i>	
GROUT MIXTURE <i>Portland / Bentonite</i>	QUANTITY OF GROUND USED (GALLONS) <i>5</i>	
GROUT PLACEMENT METHOD <i>Pour from Top</i>	SURFACE PATCH <i>concrete</i>	

SITE MAP

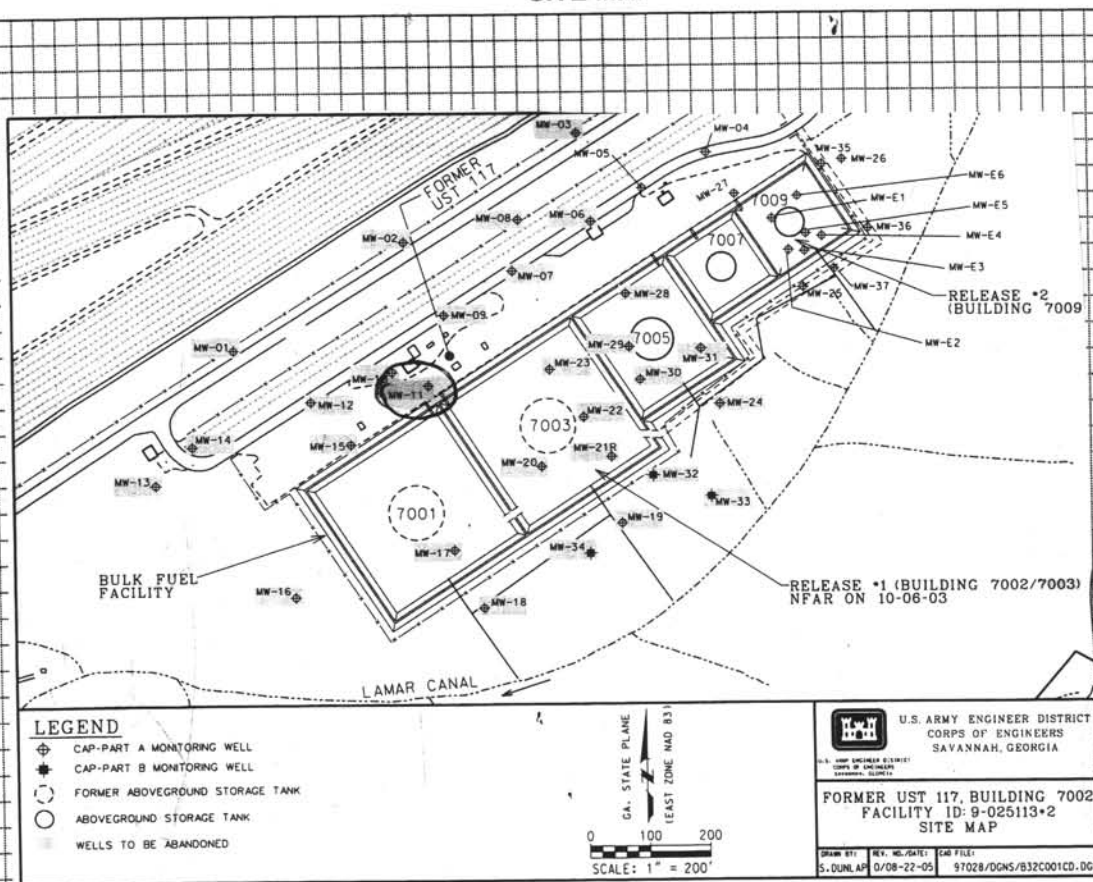


Figure B-2. Location Map of the Former UST 117 (Bulk Fuel Facility)

20

MW-08

MW-09

MW-10

MW-11

MW-12

MONITORING WELL ABANDONMENT LOG		WELL NO MW-12
OWNER/FACILITY OPERATOR [] Fort Stewart [x] Hunter Army Airfield		ABANDONMENT DATE 2/15/06
LOCATION [] Hinesville, Liberty County, Georgia [x] Savannah, Chatham County, Georgia		
SITE UST 117 (Bulk Fuel Facility)		
DEPTH TO WATER (FT. BGS): BLOC 3.16	DEPTH TO BOTTOM OF WELL ≈ 15.0' b/s	
WELL CONSTRUCTION MATERIAL sch 40 pvc slotted screen 3/4 inch	SURFACE COMPLETION TYPE Flush mount concrete manhole	
GROUT MIXTURE Cement/bentonite	QUANTITY OF GROUT USED (GALLONS) ≈ 5	
GROUT PLACEMENT METHOD pour from top	SURFACE PATCH concrete	

SITE MAP

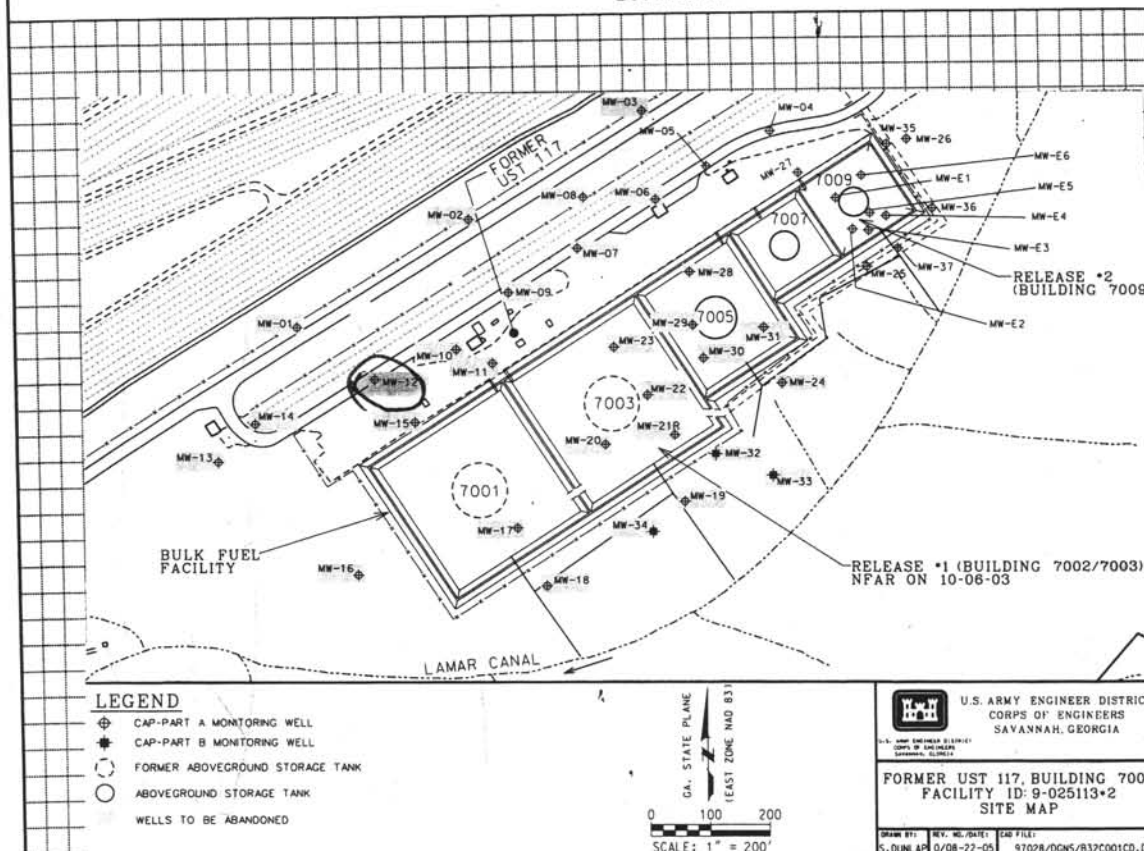


Figure B-2. Location Map of the Former UST117 (Bulk Fuel Facility)

22

MONITORING WELL ABANDONMENT LOG		WELL NO MW13
OWNER/FACILITY OPERATOR [] Fort Stewart [X] Hunter Army Airfield		ABANDONMENT DATE 2/15/06
LOCATION [] Hinesville, Liberty County, Georgia [X] Savannah, Chatham County, Georgia		
SITE UST 117 (Bulk Fuel Facility)		
DEPTH TO WATER (FT BGS): Ground surface	DEPTH TO BOTTOM OF WELL ≈ 15.0' b1s	
WELL CONSTRUCTION MATERIAL sch 40 pvc	SURFACE COMPLETION TYPE flushmount	
GROUT MIXTURE cement/bentonite	QUANTITY OF ^{grout} GROUT USED (GALLONS) ≈ 5	
GROUT PLACEMENT METHOD pour from top	SURFACE PATCH concrete	

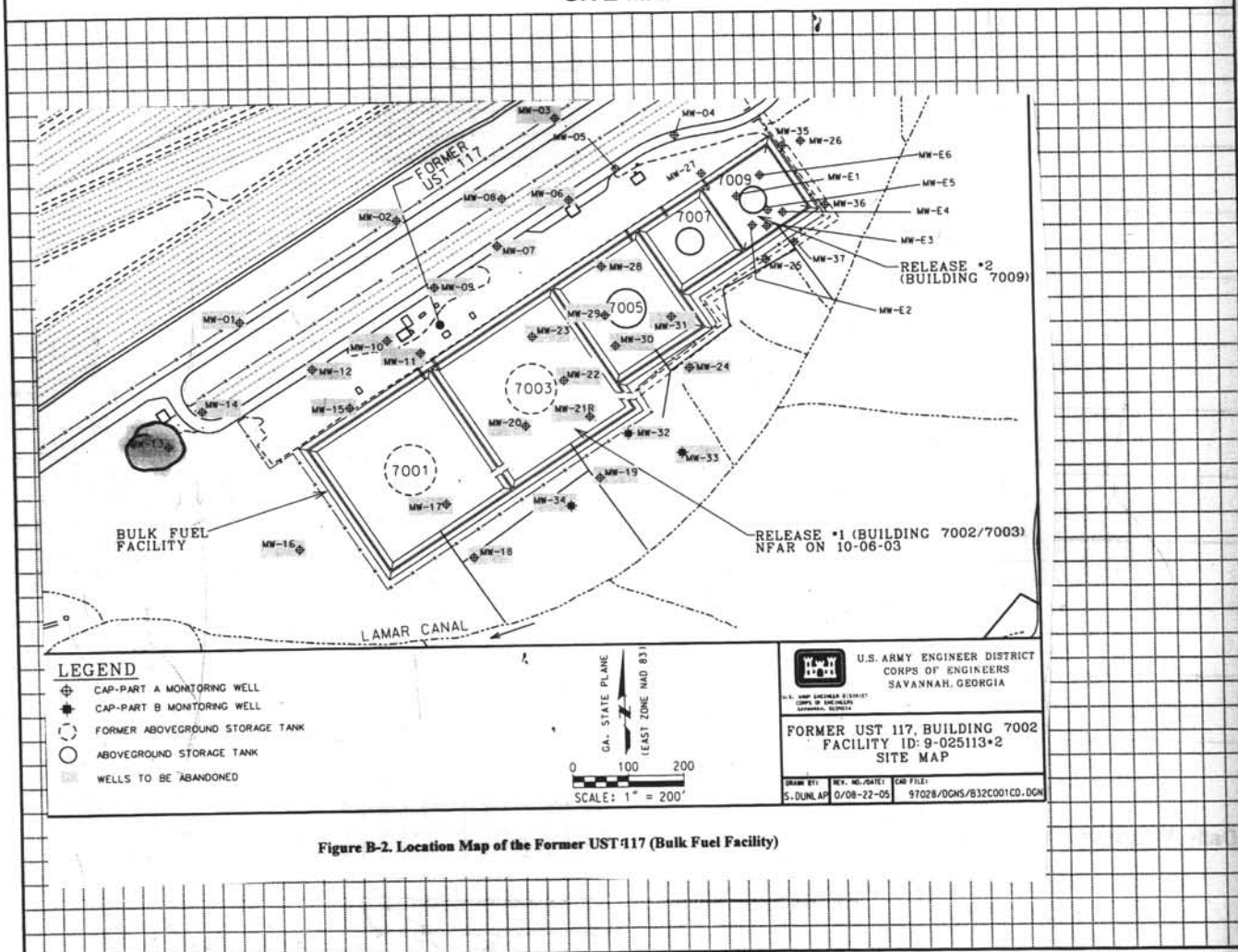
SITE MAP

Figure B-2. Location Map of the Former UST117 (Bulk Fuel Facility)

24

MW-13

MW-14

MW-11

MW-12

MONITORING WELL ABANDONMENT LOG		WELL NO <i>MW-14</i>
OWNER/FACILITY OPERATOR [] Fort Stewart [x] Hunter Army Airfield		ABANDONMENT DATE <i>2/15/06</i>
LOCATION [] Hinesville, Liberty County, Georgia [x] Savannah, Chatham County, Georgia		
SITE <i>UST 117 (Bulk Fuel Facility)</i>		
DEPTH TO WATER (FT) <i>B10C</i> <i>2.82</i>	DEPTH TO BOTTOM OF WELL <i>~ 15</i>	
WELL CONSTRUCTION MATERIAL <i>3/4" SCH 40 PVC slotted screen</i>	SURFACE COMPLETION TYPE <i>Concrete Pad Flush manhole</i>	
GROUT MIXTURE <i>Portland/Bentonite P</i>	QUANTITY OF GROUND USED (GALLONS) <i>5</i>	
GROUT PLACEMENT METHOD <i>Pour from Top</i>	SURFACE PATCH <i>concrete</i>	
<p align="center">SITE MAP</p> <p>LEGEND</p> <ul style="list-style-type: none"> ⊕ CAP-PART A MONITORING WELL ⊙ CAP-PART B MONITORING WELL ○ FORMER ABOVEGROUND STORAGE TANK ○ ABOVEGROUND STORAGE TANK □ WELLS TO BE ABANDONED <p>Figure B-2. Location Map of the Former UST 117 (Bulk Fuel Facility)</p>		

26

MW-13
MW-14
MW-17
MW-11
MW-12

MONITORING WELL ABANDONMENT LOG		WELL NO MW-17
OWNER/FACILITY OPERATOR [] Fort Stewart [x] Hunter Army Airfield		ABANDONMENT DATE 2/15/06
LOCATION [] Hinesville, Liberty County, Georgia [x] Savannah, Chatham County, Georgia		
SITE UST 117 (Bulk Fuel Facility)		
DEPTH TO WATER (FL BGS) 870C 1.33	DEPTH TO BOTTOM OF WELL ≈ 15	
WELL CONSTRUCTION MATERIAL 3/4" SCH 40 PVC Slotted Screen	SURFACE COMPLETION TYPE Concrete pad flush manhole	
GROUT MIXTURE Portland / Bentonite P	QUANTITY OF GROUND USED (GALLONS) 5	
GROUT PLACEMENT METHOD Pour from TOP	SURFACE PATCH concrete	

SITE MAP

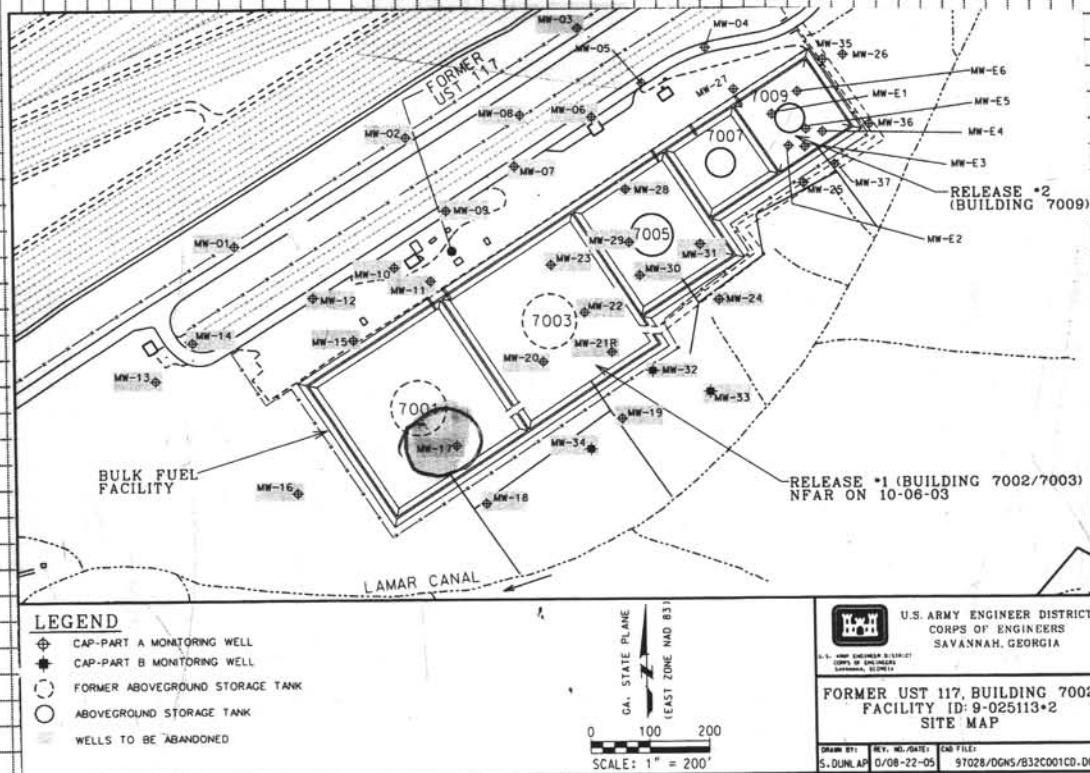


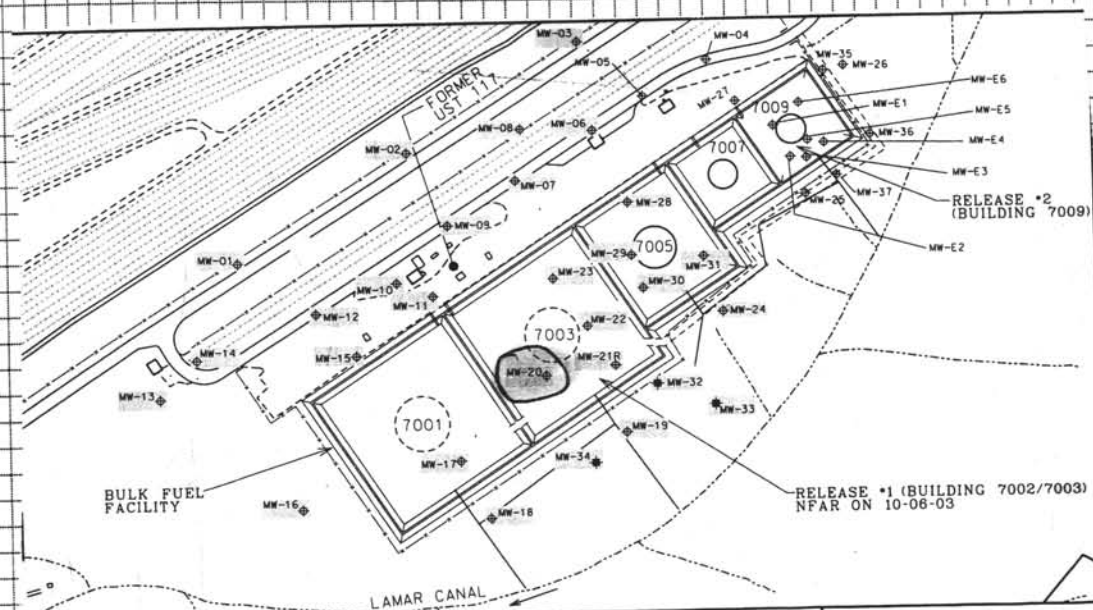
Figure B-2. Location Map of the Former UST 117 (Bulk Fuel Facility)

28

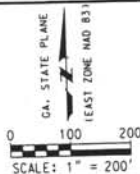
MONITORING WELL ABANDONMENT LOG		WELL NO <i>MW-18</i>
OWNER/FACILITY OPERATOR [] Fort Stewart [x] Hunter Army Airfield		ABANDONMENT DATE <i>02/15/06</i>
LOCATION [] Hinesville, Liberty County, Georgia [x] Savannah, Chatham County, Georgia		
SITE <i>UST 117 (Bulk Fuel Facility)</i>		
DEPTH TO WATER (FT. BOB) <i>BTOC Ground Level</i>	DEPTH TO BOTTOM OF WELL <i>~ 15 BLS</i>	
WELL CONSTRUCTION MATERIAL <i>3/4" SCH 40 PVC slotted screen</i>	SURFACE COMPLETION TYPE <i>concrete pad flush manhole</i>	
GROUT MIXTURE <i>Portland / Bentonite</i>	QUANTITY OF GROUT USED (GALLONS) <i>grout 5</i>	
GROUT PLACEMENT METHOD <i>pour from top</i>	SURFACE PATCH <i>concrete</i>	
SITE MAP		
<p>LEGEND</p> <ul style="list-style-type: none"> ⊕ CAP-PART A MONITORING WELL ⊙ CAP-PART B MONITORING WELL ○ FORMER ABOVEGROUND STORAGE TANK ○ ABOVEGROUND STORAGE TANK □ WELLS TO BE ABANDONED <p>SCALE: 1" = 200'</p> <p>U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS SAVANNAH, GEORGIA</p> <p>FORMER UST 117, BUILDING 7002 FACILITY ID: 9-025113*2 SITE MAP</p> <p>DATE: 07/08-22-05 FILE: 97028/DGNS/B32C001CD.DGN</p>		

Figure B-2. Location Map of the Former UST117 (Bulk Fuel Facility)

MONITORING WELL ABANDONMENT LOG		WELL NO <i>MW-20</i>
OWNER/FACILITY OPERATOR [] Fort Stewart [✓] Hunter Army Airfield		ABANDONMENT DATE <i>2/15/06</i>
LOCATION [] Hinesville, Liberty County, Georgia [✓] Savannah, Chatham County, Georgia		
SITE <i>UST 117 (Bulk Fuel Facility)</i>		
DEPTH TO WATER (FT. BGS) <i>DTWC</i>	DEPTH TO BOTTOM OF WELL <i>≈ 15 BLS</i>	
WELL CONSTRUCTION MATERIAL <i>3/4 SCH 40 PVC fitted screen</i>	SURFACE COMPLETION TYPE <i>concrete Rd flush man hole</i>	
GROUT MIXTURE <i>Portland/Bentonite</i>	QUANTITY OF GROUT USED (GALLONS) <i>Grout 5</i>	
GROUT PLACEMENT METHOD <i>Pour from top</i>	SURFACE PATCH <i>concrete</i>	

SITE MAP**LEGEND**

- ⊕ CAP-PART A MONITORING WELL
- ⊙ CAP-PART B MONITORING WELL
- FORMER ABOVEGROUND STORAGE TANK
- ABOVEGROUND STORAGE TANK
- WELLS TO BE ABANDONED



U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
SAVANNAH, GEORGIA

FORMER UST 117, BUILDING 7002
FACILITY ID: 9-025113-2
SITE MAP

DRAWN BY: S. DUNKLAP REV. NO./DATE: 0/08-22-05 JOB FILE: 97028/DCNS/832C001CD.DGN

Figure B-2. Location Map of the Former UST 117 (Bulk Fuel Facility)

[illegible]

MONITORING WELL ABANDONMENT LOG		WELL NO MW-21F
OWNER/FACILITY OPERATOR [] Fort Stewart [✓] Hunter Army Airfield		ABANDONMENT DATE 2/15/06
LOCATION [] Hinesville, Liberty County, Georgia [✓] Savannah, Chatham County, Georgia		
SITE VST 117 (Bulk Fuel Facility)		
DEPTH TO WATER (ET-003): BTOC 2.38	DEPTH TO BOTTOM OF WELL ~ 15 BLS	
WELL CONSTRUCTION MATERIAL 3/4" SCH 40 pre slotted screen	SURFACE COMPLETION TYPE concrete Rd Flush manhole	
GROUT MIXTURE Portland/Bentonite	QUANTITY OF GROUT USED (GALLONS) grout 5	
GROUT PLACEMENT METHOD Pour from TOP	SURFACE PATCH concrete	

SITE MAP

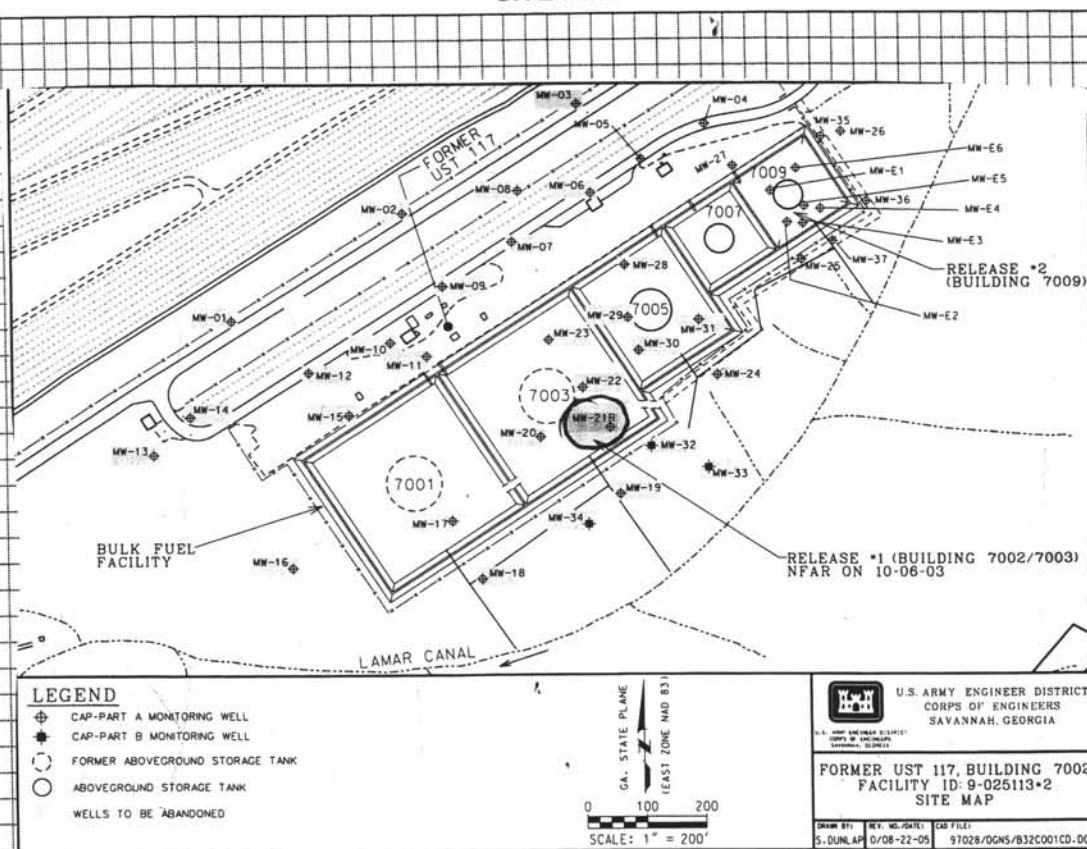


Figure B-2. Location Map of the Former UST #117 (Bulk Fuel Facility)

34

112-MW-21K
22-MW-22
11-MW-23
21-MW-24
22-MW-25

MONITORING WELL ABANDONMENT LOG		WELL NO <i>MW-22</i>
OWNER/FACILITY OPERATOR [] Fort Stewart [X] Hunter Army Airfield		ABANDONMENT DATE <i>02/15/06</i>
LOCATION [] Hinesville, Liberty County, Georgia [X] Savannah, Chatham County, Georgia		
SITE <i>UST 117 (Bulk Fuel Facility)</i>		
DEPTH TO WATER (FT. BGS): <i>BtoC 1.42</i>	DEPTH TO BOTTOM OF WELL <i>~ 15</i>	
WELL CONSTRUCTION MATERIAL <i>3/4" SCH 40 PVC slotted screen</i>	SURFACE COMPLETION TYPE <i>concrete pad flush manhole</i>	
GROUT MIXTURE <i>Portland/Bentonite</i>	QUANTITY OF GROUND USED (GALLONS) <i>5</i>	
GROUT PLACEMENT METHOD <i>Pour from TOP</i>	SURFACE PATCH <i>concrete</i>	

SITE MAP

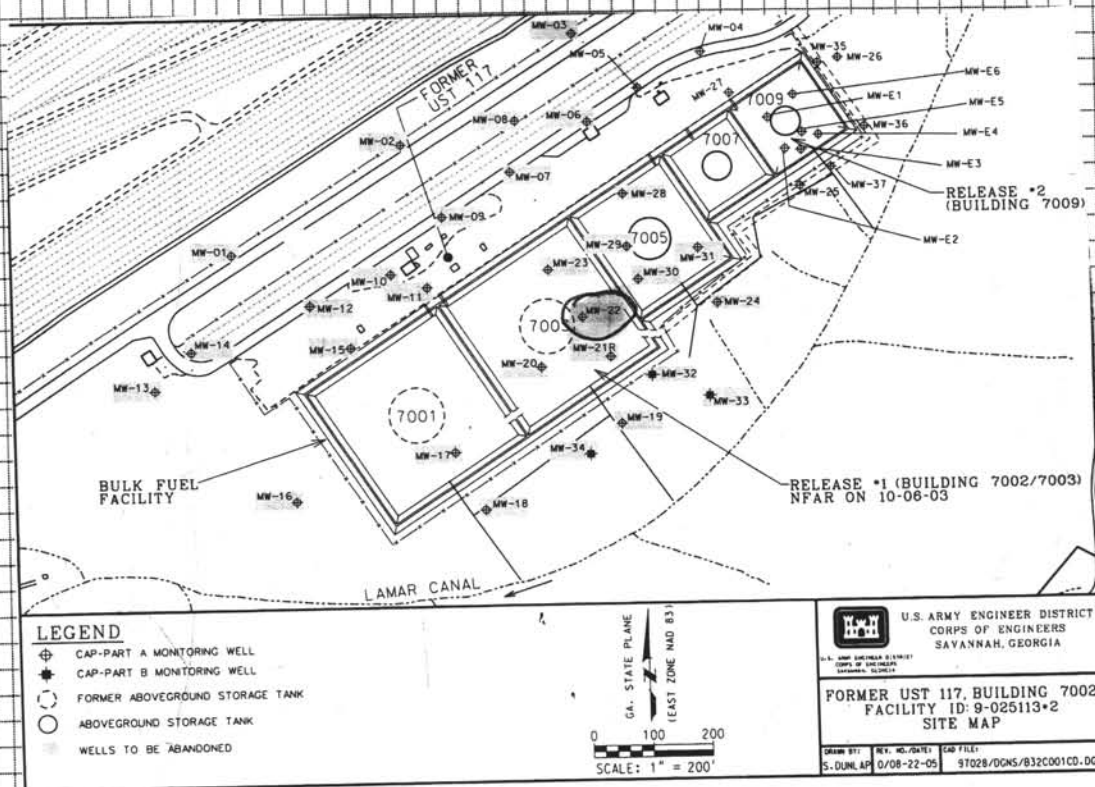


Figure B-2. Location Map of the Former UST117 (Bulk Fuel Facility)

MONITORING WELL ABANDONMENT LOG

WELL NO

MW-23

OWNER/FACILITY OPERATOR

[] Fort Stewart

[x] Hunter Army Airfield

ABANDONMENT DATE

02/15/06

LOCATION

[] Hinesville, Liberty County, Georgia

[x] Savannah, Chatham County, Georgia

SITE

UST 117 (Bulk Fuel Facility)

DEPTH TO WATER (FT-888)

B70C 2.22

DEPTH TO BOTTOM OF WELL

≈ 15 BLS

WELL CONSTRUCTION MATERIAL

3/4 SCH 40 PVC slotted screen

SURFACE COMPLETION TYPE

Concrete Pad Flush manhole

GROUT MIXTURE

Portland / Bentonite

QUANTITY OF GROUT USED (GALLONS)

grout 5

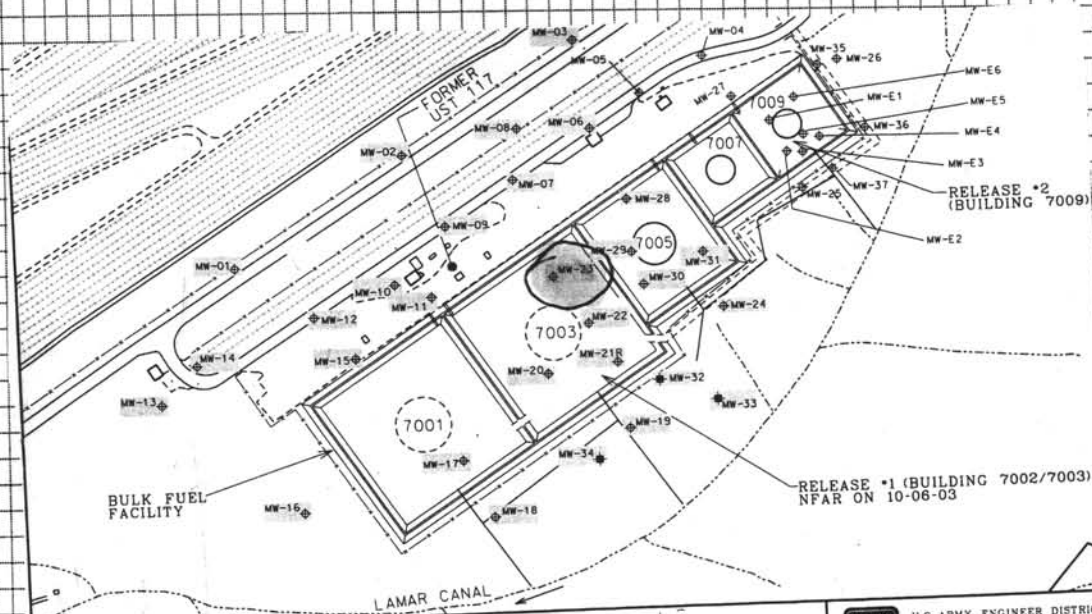
GROUT PLACEMENT METHOD

Pour from top

SURFACE PATCH

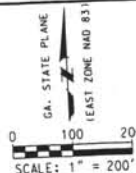
concrete

SITE MAP



LEGEND

- ⊕ CAP-PART A MONITORING WELL
- ⊗ CAP-PART B MONITORING WELL
- FORMER ABOVEGROUND STORAGE TANK
- ABOVEGROUND STORAGE TANK
- WELLS TO BE ABANDONED



U.S. ARMY ENGINEER DISTRICT
 CORPS OF ENGINEERS
 SAVANNAH, GEORGIA

FORMER UST 117, BUILDING 7002
 FACILITY ID: 9-025113-2
 SITE MAP

DRAWN BY: S. DUNLAP
 REV. NO.: 0/08-22-05
 DATE: 97028/DGNS/B32C001CD.DGN

Figure B-2. Location Map of the Former UST 117 (Bulk Fuel Facility)

MONITORING WELL ABANDONMENT LOG		WELL NO <i>MW-28</i>
OWNER/FACILITY OPERATOR [] Fort Stewart [✓] Hunter Army Airfield		ABANDONMENT DATE <i>02/15/06</i>
LOCATION [] Hinesville, Liberty County, Georgia [✓] Savannah, Chatham County, Georgia		
SITE <i>UST 117 (Bulk Fuel Facility)</i>		
DEPTH TO WATER (FT) <i>BTOC</i> <i>2.30</i>	DEPTH TO BOTTOM OF WELL <i>≈ 15</i>	
WELL CONSTRUCTION MATERIAL <i>3/4" SCH 40 pvc slotted screen</i>	SURFACE COMPLETION TYPE <i>concrete pad flush manhole</i>	
GROUT MIXTURE <i>Portland / Bentonite</i>	QUANTITY OF GROUT USED (GALLONS) <i>grout 5</i>	
GROUT PLACEMENT METHOD <i>Pour from TO</i>	SURFACE PATCH <i>concrete</i>	

SITE MAP

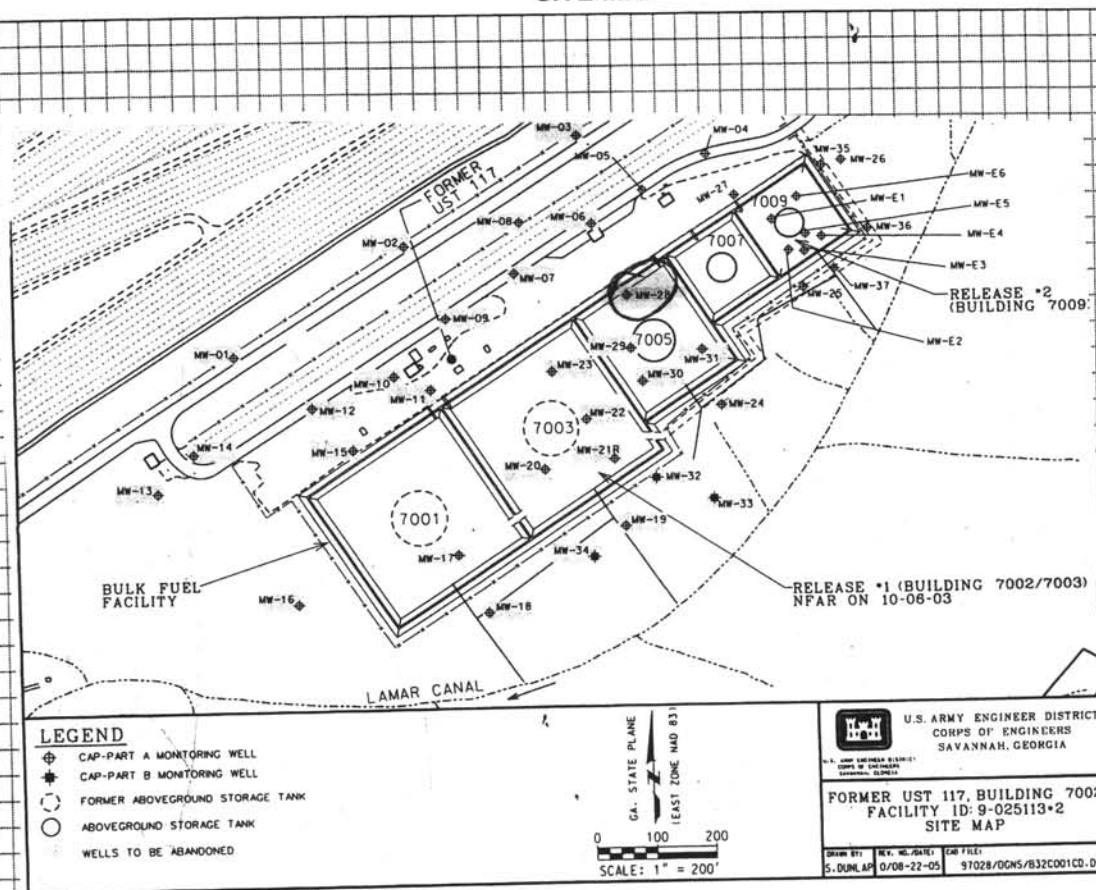


Figure B-2. Location Map of the Former UST 117 (Bulk Fuel Facility)

MONITORING WELL ABANDONMENT LOG		WELL NO <i>MW-29</i>
OWNER/FACILITY OPERATOR [] Fort Stewart [<input checked="" type="checkbox"/>] Hunter Army Airfield		ABANDONMENT DATE <i>02/15/06</i>
LOCATION [] Hinesville, Liberty County, Georgia [<input checked="" type="checkbox"/>] Savannah, Chatham County, Georgia		
SITE <i>UST 117 (Bulk Fuel Facility)</i>		
DEPTH TO WATER (FT BSF) <i>BTWC 1.45</i>	DEPTH TO BOTTOM OF WELL <i>≈ 15</i>	
WELL CONSTRUCTION MATERIAL <i>3" SCH 40 PVC slotted screen</i>	SURFACE COMPLETION TYPE <i>Concrete pad flush manhole</i>	
GROUT MIXTURE <i>Portland / Bentonite</i>	QUANTITY OF GROUND USED (GALLONS) <i>5</i>	
GROUT PLACEMENT METHOD <i>Pour from top</i>	SURFACE PATCH <i>concrete</i>	
SITE MAP		
<p>LEGEND</p> <ul style="list-style-type: none"> ⊕ CAP-PART A MONITORING WELL ⊙ CAP-PART B MONITORING WELL ○ FORMER ABOVEGROUND STORAGE TANK ○ ABOVEGROUND STORAGE TANK □ WELLS TO BE ABANDONED <p style="text-align: center;">SCALE: 1" = 200'</p> <p style="text-align: right;">U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS SAVANNAH, GEORGIA</p> <p style="text-align: right;">FORMER UST 117, BUILDING 7002 FACILITY ID: 9-025113-2 SITE MAP</p> <p style="text-align: right; font-size: small;">DRAWN BY: S. DUNLAP REV. NO./DATE: 07-08-22-05 CAD FILE: 97028/DGNS/B32C001CD.DGN</p>		

Figure B-2. Location Map of the Former UST 117 (Bulk Fuel Facility)

MONITORING WELL ABANDONMENT LOG		WELL NO <i>MW-30</i>
OWNER/FACILITY OPERATOR [] Fort Stewart [<input checked="" type="checkbox"/>] Hunter Army Airfield		ABANDONMENT DATE
LOCATION [] Hinesville, Liberty County, Georgia [<input checked="" type="checkbox"/>] Savannah, Chatham County, Georgia		
SITE <i>3/4" SCH 40 PVC slotted screen</i> <i>UST 117 Bulk Fuel</i>		
DEPTH TO WATER (FT. BOC) <i>BTWC 1.73</i>	DEPTH TO BOTTOM OF WELL <i>~ 15</i>	
WELL CONSTRUCTION MATERIAL <i>3/4" SCH 40 PVC slotted screen</i>	SURFACE COMPLETION TYPE <i>concrete pad flush grade</i>	
GROUT MIXTURE <i>Portland / Bentonite</i>	QUANTITY OF GROUT USED (GALLONS) <i>grout 5</i>	
GROUT PLACEMENT METHOD <i>Pour from top</i>	SURFACE PATCH <i>concrete</i>	

SITE MAP

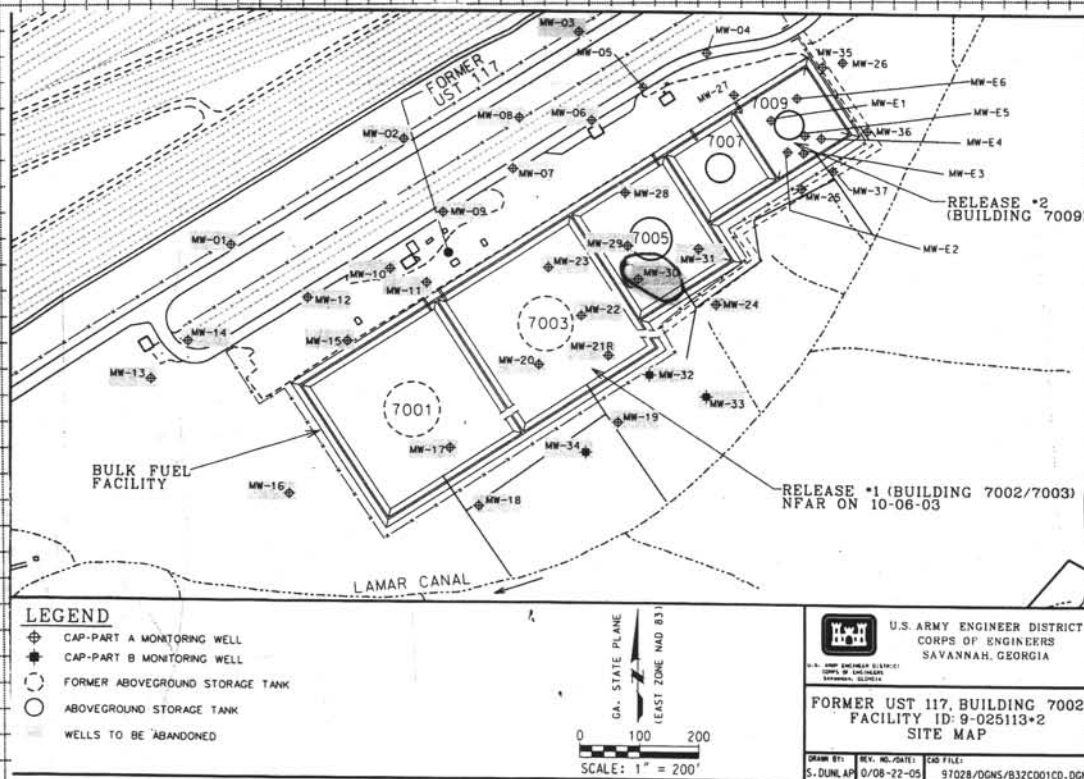


Figure B-2. Location Map of the Former UST 117 (Bulk Fuel Facility)

MONITORING WELL ABANDONMENT LOG

WELL NO

MW31

OWNER/FACILITY OPERATOR

☒ Fort Stewart

☒ Hunter Army Airfield

ABANDONMENT DATE

2/15/06

LOCATION

☒ Hinesville, Liberty County, Georgia

☒ Savannah, Chatham County, Georgia

SITE

Bulk Fuel Facility
Hunter Army Airfield

DEPTH TO WATER (FT BGS):

2.45

DEPTH TO BOTTOM OF WELL

≈ 15.0' bgs

WELL CONSTRUCTION MATERIAL

Sch 40 PVC

SURFACE COMPLETION TYPE

flushmount, concrete

GROUT MIXTURE

cement / bentonite

QUANTITY OF GROUT USED (GALLONS)

5

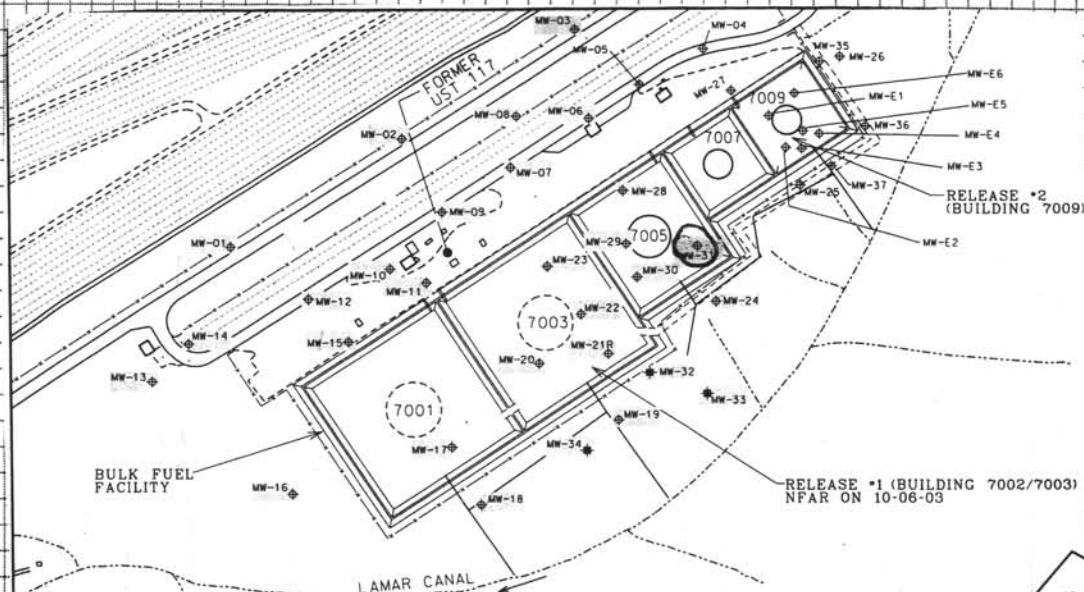
GROUT PLACEMENT METHOD

gravity fed

SURFACE PATCH

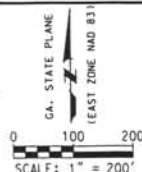
concrete

SITE MAP



LEGEND

- ⊕ CAP-PART A MONITORING WELL
- ⊗ CAP-PART B MONITORING WELL
- FORMER ABOVEGROUND STORAGE TANK
- ABOVEGROUND STORAGE TANK
- WELLS TO BE ABANDONED



U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
SAVANNAH, GEORGIA

FORMER UST 117, BUILDING 7002
FACILITY ID: 9-025113-2
SITE MAP

DESIGN BY: S. DUNLAP
REV. NO./DATE: 0/08-22-05
JOB FILE: 97028/DGNS/B32C001C0.DGN

Figure B-2. Location Map of the Former UST 117 (Bulk Fuel Facility)

4

MONITORING WELL ABANDONMENT LOG		WELL NO MW32
OWNER/FACILITY OPERATOR <input checked="" type="checkbox"/> Fort Stewart <input checked="" type="checkbox"/> Hunter Army Airfield		ABANDONMENT DATE 2/15/06
LOCATION <input checked="" type="checkbox"/> Hinesville, Liberty County, Georgia <input checked="" type="checkbox"/> Savannah, Chatham County, Georgia		
SITE Bulk Fuel Facility Hunter Army Airfield		
DEPTH TO WATER (FT-BGS): 1.57 BTOC	DEPTH TO BOTTOM OF WELL ~ 15.0' bgs	
WELL CONSTRUCTION MATERIAL Sch 40 PVC	SURFACE COMPLETION TYPE flushmount, concrete	
GROUT MIXTURE cement/Bentonite	QUANTITY OF ^{grout} GROUT USED (GALLONS) 5	
GROUT PLACEMENT METHOD Gravity Fed	SURFACE PATCH concrete	

SITE MAP

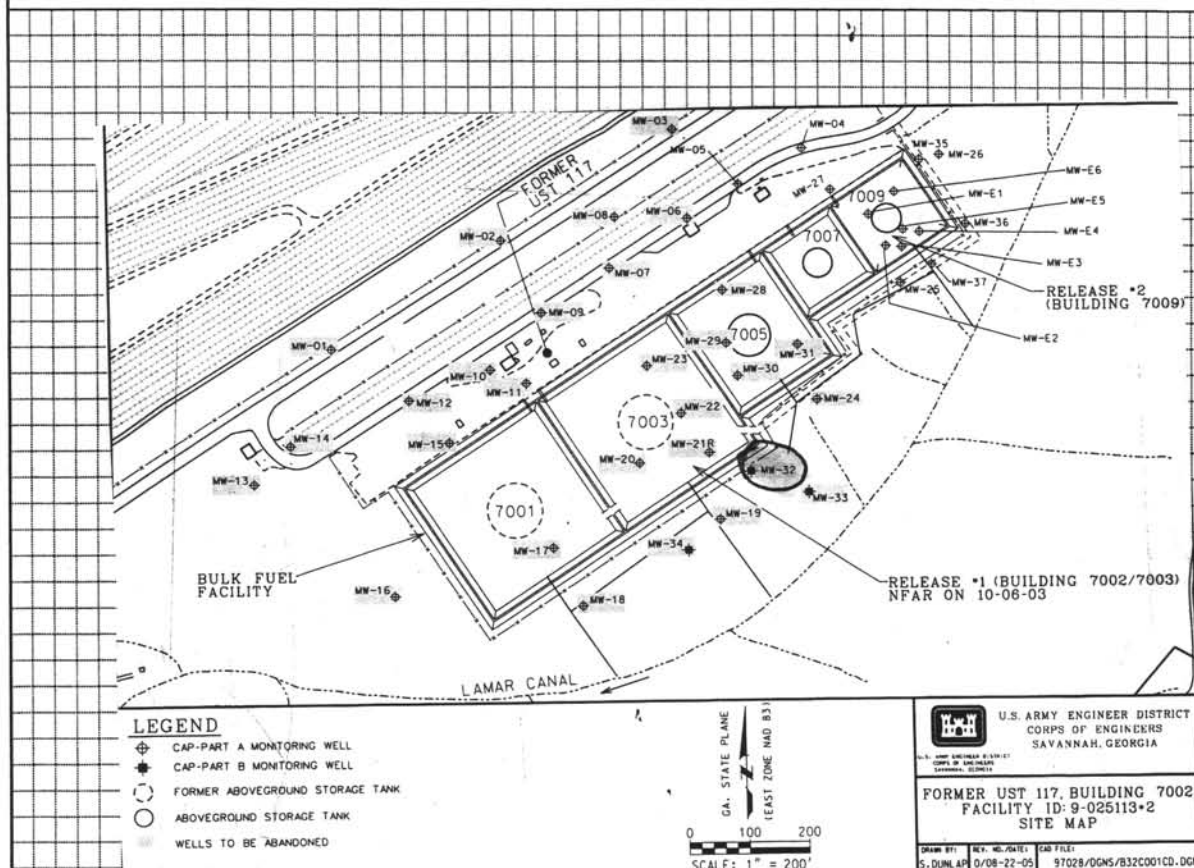


Figure B-2. Location Map of the Former UST 117 (Bulk Fuel Facility)

APPENDIX B

PHOTOGRAPHS OF ABANDONED WELL LOCATIONS



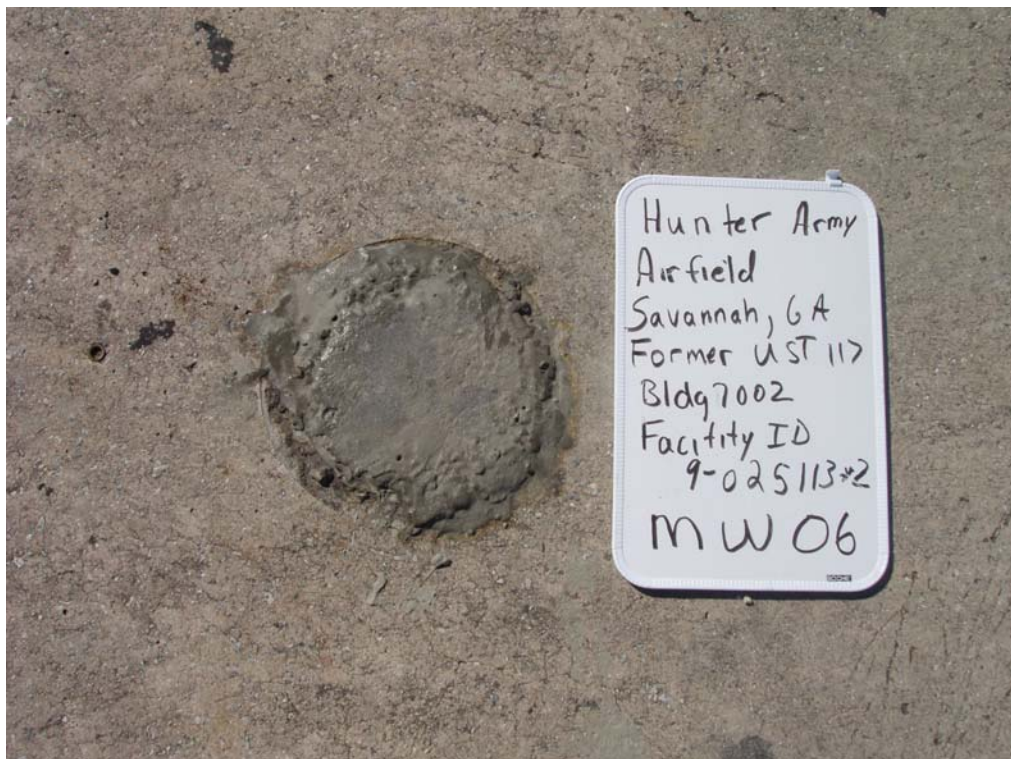
Bulk Fuel Facility (UST 117): Well Abandonment – MW-01



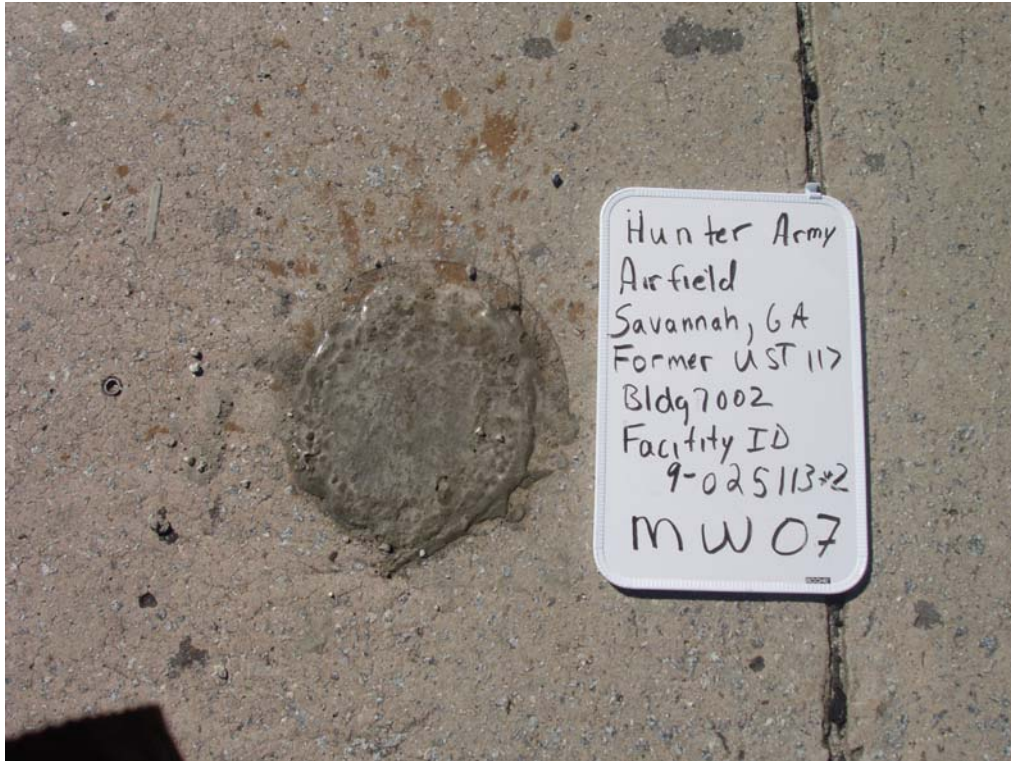
Bulk Fuel Facility (UST 117): Well Abandonment – MW-02



Bulk Fuel Facility (UST 117): Well Abandonment – MW-03



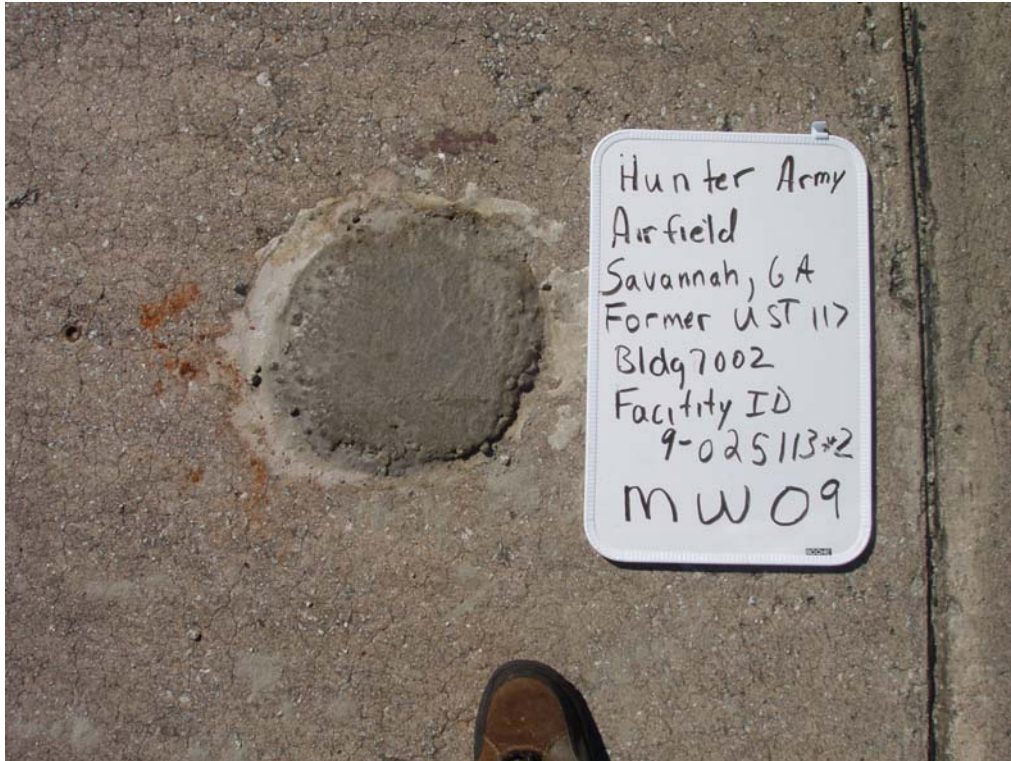
Bulk Fuel Facility (UST 117): Well Abandonment – MW-06



Bulk Fuel Facility (UST 117): Well Abandonment – MW-07



Bulk Fuel Facility (UST 117): Well Abandonment – MW-08



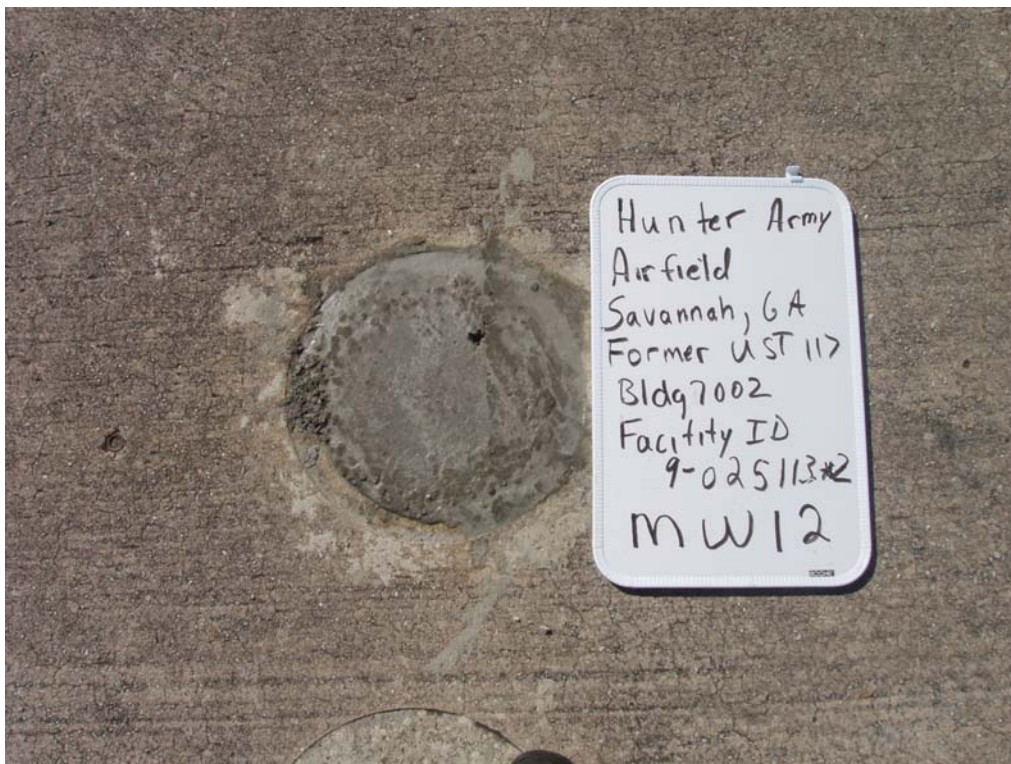
Bulk Fuel Facility (UST 117): Well Abandonment – MW-09



Bulk Fuel Facility (UST 117): Well Abandonment – MW-10



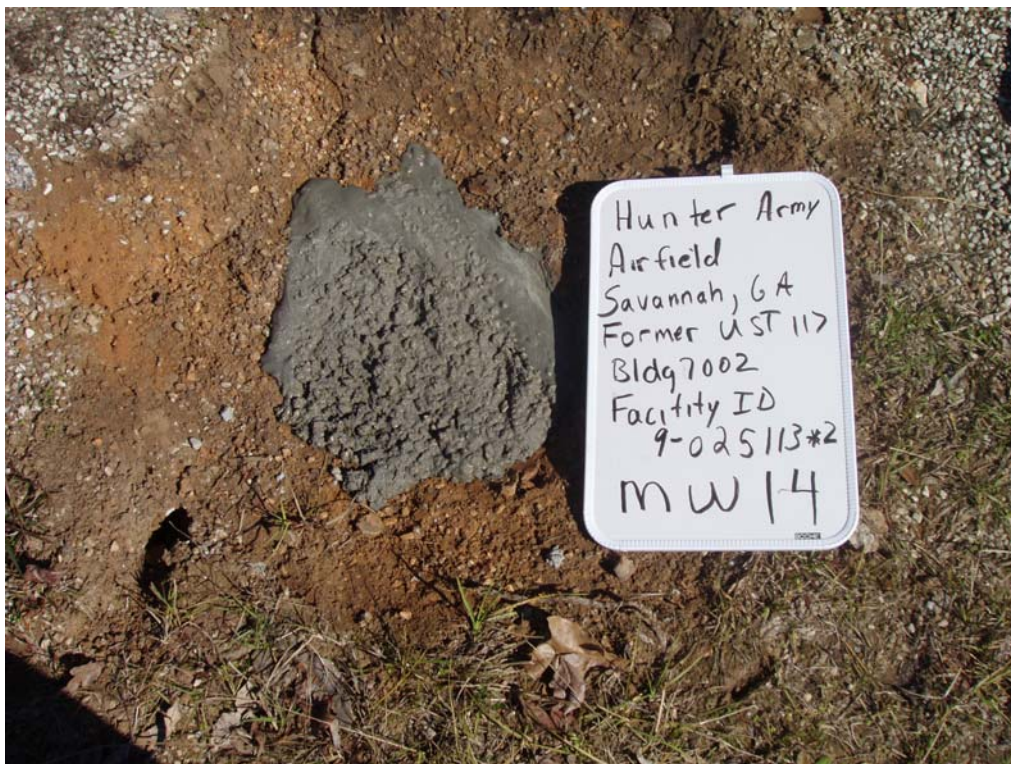
Bulk Fuel Facility (UST 117): Well Abandonment – MW-11



Bulk Fuel Facility (UST 117): Well Abandonment – MW-12



Bulk Fuel Facility (UST 117): Well Abandonment – MW-13



Bulk Fuel Facility (UST 117): Well Abandonment – MW-14



Bulk Fuel Facility (UST 117): Well Abandonment – MW-17



Bulk Fuel Facility (UST 117): Well Abandonment – MW-18



Bulk Fuel Facility (UST 117): Well Abandonment – MW-20



Bulk Fuel Facility (UST 117): Well Abandonment – MW-21R



Bulk Fuel Facility (UST 117): Well Abandonment – MW-22



Bulk Fuel Facility (UST 117): Well Abandonment – MW-23



Bulk Fuel Facility (UST 117): Well Abandonment – MW-28



Bulk Fuel Facility (UST 117): Well Abandonment – MW-29



Bulk Fuel Facility (UST 117): Well Abandonment – MW-30



Bulk Fuel Facility (UST 117): Well Abandonment – MW-31



Bulk Fuel Facility (UST 117): Well Abandonment – MW-32