APPENDIX C-5

Facility ID #9-089014
UST 42

1B

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

1602W2

Lab Name: GENERAL ENGINEERING LABOR Contract:

Lab Code: Case No.: SAS No.: SDG No.: 69090W

Matrix: (soil/water) GROUNDH2O Lab Sample ID: 9609090-04

Sample wt/vol: 500 (g/mL) mL Lab File ID: 2K214

Level: (low/med) LOW Date Received: 09/08/96

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/09/96

Concentrated Extract Volume: 0.5(mL) Date Analyzed: 09/10/96

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
91-20-3	naphthalene	10.0	U
91-58-7	2-chloronaphthalene	10.0	U
209-96-8	acenaphthylene	10.0	U
83-32-9	acenaphthene	10.0	U
86-73-7	fluorene	10.0	U
85-01-8	phenanthrene	10.0	U
120-12-7	anthracene	10.0	U
206-44-0	fluoranthene	10.0	U
129-00-0	pyrene	10.0	U
56-55-3	benzo(a)anthracene	10.0	U
218-01-9	chrysene	10.0	U
205-99-2	benzo(b)fluoranthene	10.0	U
207-08-9	benzo(k)fluoranthene	10.0	U
50-32-8	benzo(a)pyrene	10.0	U
193-39-5	indeno(1,2,3-cd)pyrene	10.0	U
53-70-3	dibenz(a,h)anthracene	10.0	U
191-24-2	benzo(g,h,i)perylene	10.0	U

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DATA VALIDATION COPY

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1602W2

Lab Name: GENERAL ENGINEERING LABOR Contract:

Lab Code: Case No.: SAS No.: SDG No.: 69092W

Matrix: (soil/water) WATER Lab Sample ID: 9609092-07

Sample wt/vol: 20 (g/ml) ml Lab File ID: 1Z315

Level: (low/med) LOW Date Received: 09/08/96

% Moisture: not dec. _____ Date Analyzed: 09/11/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l		Q	
71-43-2	benzene		0.42	J	J
108-88-3	toluene	5	~~1.5~~	JB	U FB1, FB6
100-41-4	ethylbenzene		2.4	J	J
1330-20-7	xylenes (total)		3.6	J	J

MAP 12/18/96

FORM I VOA OLM03.0

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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1601W2

Name: GENERAL ENGINEERING LABOR Contract:

Lab Code: Case No.: SAS No.: SDG No.: 69090W

Matrix: (soil/water) GROUNDH2O Lab Sample ID: 9609090-09

Sample wt/vol: 500 (g/mL) mL Lab File ID: 2K219

Level: (low/med) LOW Date Received: 09/08/96

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/09/96

Concentrated Extract Volume: 0.5(mL) Date Analyzed: 09/10/96

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
91-20-3	naphthalene	10.0	U
91-58-7	2-chloronaphthalene	10.0	U
209-96-8	acenaphthylene	10.0	U
83-32-9	acenaphthene	8.7	J
86-73-7	fluorene	10.0	U
85-01-8	phenanthrene	10.0	U
120-12-7	anthracene	10.0	U
206-44-0	fluoranthene	10.0	U
129-00-0	pyrene	10.0	U
56-55-3	benzo(a)anthracene	10.0	U
218-01-9	chrysene	10.0	U
205-99-2	benzo(b)fluoranthene	10.0	U
207-08-9	benzo(k)fluoranthene	10.0	U
50-32-8	benzo(a)pyrene	10.0	U
193-39-5	indeno(1,2,3-cd)pyrene	10.0	U
53-70-3	dibenz(a,h)anthracene	10.0	U
191-24-2	benzo(g,h,i)perylene	10.0	U

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DATA VALIDATION COPY

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1601W2

Lab Name: GENERAL ENGINEERING LABOR Contract:

Lab Code: Case No.: SAS No.: SDG No.: 69092W

Matrix: (soil/water) WATER Lab Sample ID: 9609092-02

Sample wt/vol: 20 (g/ml) ml Lab File ID: 1Z310

Level: (low/med) LOW Date Received: 09/08/96

% Moisture: not dec. _____ Date Analyzed: 09/11/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l		Q	
71-43-2	benzene		5.0	U	U
108-88-3	toluene	5	~~0.23~~	JB	U FD1,FD2
100-41-4	ethylbenzene		0.041	J	J
1330-20-7	xylenes (total)		5.0	U	U

MM 11/18/96

FORM I VOA OLM03.0

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An Employee-Owned Company
Science Applications International Corporation
800 Oak Ridge Turnpike, Oak Ridge, TN 37831 (423) 481-4600

CHAIN OF CUSTODY RECORD

COC NO.: G001

PROJECT NAME: Fort Stewart UST Sites

PROJECT NUMBER: 0003

PROJECT MANAGER: Chris Potter

Sampler (Signature): Sh-TSLR (Printed Name): SHARON STALLER

LABORATORY NAME: GEL

LABORATORY ADDRESS: 2040 Savage Road, Charleston, SC 29417

PHONE NO:(803) 556-8171

REQUESTED PARAMETERS

Sample ID	Date Collected	Time Collected	Matrix	BTEX, GRO	BTEX	PAH, Lead, DRO	PAH	Lead	DRO	No. of Bottles/Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
TB0008	9/6/96	0759	WATER		2					2		
1601W2	9/6/96	1500			2					2		
0102W2	9/6/96	1020			2					2		
1506W4	9/6/96	1340			2					2		
1502W2	9/6/96	1535			2					2		sample water only, not product
0202W2	9/6/96	1335			2					2		
1602W2	9/6/96	1638			2					2		
~~0101A~~ SLS 9/8/96												
~~1604W~~ 4001W2	9/6/96	1135			2					2		
1501W2	9/6/96	1006			2					2		
0201W2	9/6/96	1550			2					2		
SLS 9/8/96 1602R6	9/6/96	1550		2	2	SLS						
3904W2	9/6/96	945			2					2		

TOTAL NUMBER OF CONTAINERS: 84

Cooler ID: #237

Cooler Temperature: 5°

RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time
SHARON STALLER	9/8/96 1310		
COMPANY NAME: SAIC		COMPANY NAME:	
RECEIVED BY: Raymond E Reed	Date/Time 9/8/96	RELINQUISHED BY:	Date/Time
COMPANY NAME: G.E.L.	13:10	COMPANY NAME:	
RELINQUISHED BY: Raymond E Reed	Date/Time 9/8/96 1630	RECEIVED BY: [signature]	Date/Time 09-09-96 16:30
COMPANY NAME: GEL		COMPANY NAME: GEL	

SAIC An Employee-Owned Company
Science Applications International Corporation

800 Oak Ridge Turnpike, Oak Ridge, TN 37831 (423) 481-4800

CHAIN OF CUSTODY RECORD

COC NO.: GØØ15

PROJECT NAME: Fort Stewart UST Sites

PROJECT NUMBER: 0003

PROJECT MANAGER: Chris Potter

Sampler (Signature) **(Printed Name)**

LABORATORY NAME: GEL

LABORATORY ADDRESS: 2040 Savage Road, Charleston, SC 29417

PHONE NO: (803) 556-8171

Sample ID	Date Collected	Time Collected	Matrix	BTEX, GRO	BTEX	PAH, Lead, DRO	PAH	Lead	DRO	PAH, LEAD, TPH	PAH, TPH	PAH, DRO	TPH	No. of Bottles/Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
1501W2	9/6/96	1006	WATER				3	1						4	>999 ppm	
Ø201W4	9/6/96	1550	WATER				2							2	Ø ppm	
4001W2	9/6/96	1135	WATER				2							2	52 ppm	
1602W2	9/6/96	1638	WATER				2							2	19.3 ppm	

SCS 9/9/96

RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time
COMPANY NAME: SAIC	9/8/96 1310	COMPANY NAME:	
RECEIVED BY: Raymond E Reed	9/8/96	RELINQUISHED BY:	Date/Time
COMPANY NAME: GEL	13:10	COMPANY NAME:	
RELINQUISHED BY: Raymond E Reed	Date/Time 9/8/96	RECEIVED BY:	Date/Time 9.9.96
COMPANY NAME: GEL	16:30	COMPANY NAME: GEL	16:3

TOTAL NUMBER OF CONTAINERS: 1Ø

Cooler ID: #30

Cooler Temperature: 2°C

Science Applications International Corporation — An Employee-Owned Company

800 Oak Ridge Turnpike, Oak Ridge, TN 37831 (423) 481-4600

CHAIN OF CUSTODY RECORD

COC NO.: G0013

PROJECT NAME: Fort Stewart UST Sites

PROJECT NUMBER: 0003

PROJECT MANAGER: Chris Potter

Sampler (Signature): [signature] **(Printed Name):** SHARON STOLLER

LABORATORY NAME: GEL

LABORATORY ADDRESS: 2040 Savage Road, Charleston, SC 29417

PHONE NO: (803) 556-8171

Sample ID	Date Collected	Time Collected	Matrix	BTEX, GRO	BTEX	PAH, Lead, DRO	PAH	Lead	DRO	PAH, LEAD, TPH	PAH, TPH	PAH, DRO	TPH				No. of Bottles/Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
040125	9/7/96	0840	WATER				2	1					2				4		
0101W2	9/6/96	1205	WATER				2										2		
0102W2	9/6/96	1020	WATER				2										2		
1601W2	9/6/96	1500	WATER				2										2		

TOTAL NUMBER OF CONTAINERS: 11

Cooler ID: #76

Cooler Temperature: 3

	Date/Time		Date/Time
RELINQUISHED BY: [signature]	9/8/96	RECEIVED BY:	
COMPANY NAME: SAIC	1310	COMPANY NAME:	
RECEIVED BY: Raymond E Reed	9/8/96	RELINQUISHED BY:	
COMPANY NAME: GEL	13:10	COMPANY NAME:	
RELINQUISHED BY: Raymond E Reed	9/8/96	RECEIVED BY: [signature]	9-9-96
COMPANY NAME: GEL	16 30	COMPANY NAME: GEL	16:30

FORM 1
FID ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1602B1

Lab Name: GENERAL ENGINEERING LABOR Contract:

Lab Code: Case No.: SAS No.: SDG No.: 69087S

Matrix: (soil/water) SOIL Lab Sample ID: 9609087-06

Sample wt/vol: 30.3 (g/mL) g Lab File ID: 2L20014

Level: (low/med) LOW Date Received: 09/08/96

% Moisture: 11 decanted: (Y/N) N Date Extracted: 09/10/96

Concentrated Extract Volume: 1(mL) Date Analyzed: 09/18/96

Injection Volume: 1.0(uL) Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/Kg	Q	
	----------Diesel Range Organics	16.7		=

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1602B1

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: 69087S

Matrix: (soil/water) SOIL Lab Sample ID: 9609087-06

Sample wt/vol: 5.0 (g/mL) g Lab File ID: A1Z313

Level: (low/med) LOW Date Received: 09/08/96

% Moisture: not dec. 11 Date Analyzed: 09/11/96

GC Column: J&W DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q	
----------	Gasoline Range Organics	112	U	U5 CD5

DATA VALIDATION COPY

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1602B1

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 69087S

Matrix: (soil/water) SOIL Lab Sample ID: 9609087-06

Sample wt/vol: 30.9 (g/mL) g Lab File ID: 2L213

Level: (low/med) LOW Date Received: 09/08/96

% Moisture: 11 decanted: (Y/N) N Date Extracted: 09/10/96

Concentrated Extract Volume: 1(mL) Date Analyzed: 09/17/96

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
91-20-3	naphthalene	364	U
91-58-7	2-chloronaphthalene	364	U
209-96-8	acenaphthylene	364	U
83-32-9	acenaphthene	364	U
86-73-7	fluorene	364	U
85-01-8	phenanthrene	364	U
120-12-7	anthracene	364	U
206-44-0	fluoranthene	1720	
129-00-0	pyrene	2190	
56-55-3	benzo(a)anthracene	682	
218-01-9	chrysene	853	
205-99-2	benzo(b)fluoranthene	810	
207-08-9	benzo(k)fluoranthene	386	
50-32-8	benzo(a)pyrene	727	
193-39-5	indeno(1,2,3-cd)pyrene	448	
53-70-3	dibenz(a,h)anthracene	364	U
191-24-2	benzo(g,h,i)perylene	427	

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DATA VALIDATION COPY

1D

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1602B1

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: 69087S

Matrix: (soil/water) SOIL Lab Sample ID: 9609087-06

Sample wt/vol: 5.0 (g/mL) g Lab File ID: B1Z313

% Moisture: 11 decanted: (Y/N) N Date Received: 09/08/96

Extraction: (SepF/Cont/Sonc) PURGETRAP Date Extracted:N/A

Concentrated Extract Volume: 10(ml) Date Analyzed: 09/11/96

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
71-43-2	Benzene	5.6	U
108-88-3	Toluene	5.6	U
100-41-4	Ethylbenzene	5.6	U
1339-20-70	Xylenes (total)	5.6	U

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FORM 1
FID ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1602A1

Lab Name: GENERAL ENGINEERING LABOR Contract:

Lab Code: Case No.: SAS No.: SDG No.: 69086S

Matrix: (soil/water) SOIL Lab Sample ID: 9609086-05

Sample wt/vol: 30.3 (g/mL) g Lab File ID: 1L20012

Level: (low/med) LOW Date Received: 09/08/96

% Moisture: 6 decanted: (Y/N) N Date Extracted: 09/11/96

Concentrated Extract Volume: 1(mL) Date Analyzed: 09/17/96

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/Kg	Q	
	----------Diesel Range Organics	0.43	JB	UFD1,FDC

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1602A1

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: 69086S

Matrix: (soil/water) SOIL Lab Sample ID: 9609086-05

Sample wt/vol: 5.0 (g/mL) g Lab File ID: A1A39

Level: (low/med) LOW Date Received: 09/08/96

% Moisture: not dec. 6 Date Analyzed: 09/18/96

GC Column: J&W DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q	
	----------Gasoline Range Organics	106	U	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1602A1

Lab Name: GENERAL ENGINEERING LABS. Contract:

Lab Code: Case No.: SAS No.: SDG No.: 69086S

Matrix: (soil/water) SOIL Lab Sample ID: 9609086-05

Sample wt/vol: 30.6 (g/mL) g Lab File ID: 1K617

Level: (low/med) LOW Date Received: 09/08/96

% Moisture: 6 decanted: (Y/N) N Date Extracted:09/12/96

Concentrated Extract Volume: 1(mL) Date Analyzed: 09/15/96

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
91-20-3	naphthalene	348	U
91-58-7	2-chloronaphthalene	348	U
209-96-8	acenaphthylene	348	U
83-32-9	acenaphthene	348	U
86-73-7	fluorene	348	U
85-01-8	phenanthrene	348	U
120-12-7	anthracene	348	U
206-44-0	fluoranthene	348	U
129-00-0	pyrene	348	U
56-55-3	benzo(a)anthracene	348	U
218-01-9	chrysene	348	U
205-99-2	benzo(b)fluoranthene	348	U
207-08-9	benzo(k)fluoranthene	348	U
50-32-8	benzo(a)pyrene	348	U
193-39-5	indeno(1,2,3-cd)pyrene	348	U
53-70-3	dibenz(a,h)anthracene	348	U
191-24-2	benzo(g,h,i)perylene	348	U

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DATA VALIDATION COPY

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1602A1

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: 69086S

Matrix: (soil/water) SOIL Lab Sample ID: 9609086-05

Sample wt/vol: 5.0 (g/mL) g Lab File ID: B2Y112

% Moisture: 6 decanted: (Y/N) N Date Received: 09/08/96

Extraction: (SepF/Cont/Sonc) PURGETRAP Date Extracted:N/A

Concentrated Extract Volume: 10(ml) Date Analyzed: 09/09/96

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
71-43-2	Benzene	5.3	U
108-88-3	Toluene	5.3	U
100-41-4	Ethylbenzene	5.3	U
1330-20-7	Xylenes (total)	5.3	U

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DATA VALIDATION COPY

FORM 1
FID ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1601B1DL1

Lab Name: GENERAL ENGINEERING LABOR Contract:

Lab Code: Case No.: SAS No.: SDG No.: 69087S

Matrix: (soil/water) SOIL Lab Sample ID: 9609087-08

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 2L20032

Level: (low/med) LOW Date Received: 09/08/96

% Moisture: 16 decanted: (Y/N) N Date Extracted:09/10/96

Concentrated Extract Volume: 1(mL) Date Analyzed: 09/18/96

Injection Volume: 1.0(uL) Dilution Factor: 20.0 use

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) mg/Kg	Q	
	----------Diesel Range Organics	37.1		=

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1601B1

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: 69087S

Matrix: (soil/water) SOIL Lab Sample ID: 9609087-08

Sample wt/vol: 5.0 (g/mL) g Lab File ID: A1Z316

Level: (low/med) LOW Date Received: 09/08/96

% Moisture: not dec. 16 Date Analyzed: 09/11/96

GC Column: J&W DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q	
	---------- Gasoline Range Organics	359		J CDS

DATA VALIDATION COPY

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1601B1

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 69087S

Matrix: (soil/water) SOIL Lab Sample ID: 9609087-08

Sample wt/vol: 30.2 (g/mL) g Lab File ID: 2L215

Level: (low/med) LOW Date Received: 09/08/96

% Moisture: 16 decanted: (Y/N) N Date Extracted: 09/10/96

Concentrated Extract Volume: 1(mL) Date Analyzed: 09/17/96

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
91-20-3	naphthalene	394	U
91-58-7	2-chloronaphthalene	394	U
209-96-8	acenaphthylene	394	U
83-32-9	acenaphthene	394	U
86-73-7	fluorene	394	U
85-01-8	phenanthrene	394	U
120-12-7	anthracene	394	U
206-44-0	fluoranthene	394	U
129-00-0	pyrene	394	U
56-55-3	benzo(a)anthracene	394	U
218-01-9	chrysene	394	U
205-99-2	benzo(b)fluoranthene	394	U
207-08-9	benzo(k)fluoranthene	394	U
50-32-8	benzo(a)pyrene	394	U
193-39-5	indeno(1,2,3-cd)pyrene	394	U
53-70-3	dibenz(a,h)anthracene	394	U
191-24-2	benzo(g,h,i)perylene	394	U

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1D

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1601B1

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: 69087S

Matrix: (soil/water) SOIL Lab Sample ID: 9609087-08

Sample wt/vol: 5.0 (g/mL) g Lab File ID: B1Z316

% Moisture: 16 decanted: (Y/N) N Date Received: 09/08/96

Extraction: (SepF/Cont/Sonc) PURGETRAP Date Extracted:N/A

Concentrated Extract Volume: 10(ml) Date Analyzed: 09/11/96

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
71-43-2	Benzene	6.0	U
108-88-3	Toluene	6.0	U
100-41-4	Ethylbenzene	6.0	U
1339-20-70	Xylenes (total)	6.0	U

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SAIC An Employee-Owned Company
Science Applications International Corporation
800 Oak Ridge Turnpike, Oak Ridge, TN 37831 (423) 481-4600

CHAIN OF CUSTODY RECORD

COC NO.: G0008

PROJECT NAME: Fort Stewart UST Sites

PROJECT NUMBER: 0003

PROJECT MANAGER: Chris Potter

Sampler (Signature): [signature] **(Printed Name):** SHARON STOLLER

LABORATORY NAME: GEL

LABORATORY ADDRESS: 2040 Savage Road, Charleston, SC 29417

PHONE NO: (803) 556-8171

Sample ID	Date Collected	Time Collected	Matrix	REQUESTED PARAMETERS: BTEX, GRO	BTEX	PAH, Lead, DRO	PAH	Lead	DRO	PAH, LEAD TPH	PAH, TPH	PAH, DRO				No. of Bottles/Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
1502B1	9/6/96	1526	SOIL	1		1										2	17.4 ppm	
1505A3	9/6/96	1110	SOIL	1								1				2	0 ppm	
1501C1	9/6/96	0950	SOIL	1		1										2	>1999 ppm	
3904C1	9/6/96	0905	SOIL	1								1				2	1999 ppm	OVA readings were questionable
1602B1	9/6/96	1625	SOIL	1		1										2	9.1 ppm	
4001B1	9/6/96	1100	SOIL		1						1					2	24.0 ppm	
1505B3	9/6/96	1115	SOIL	1		1										2	0 ppm	
1601B1	9/6/96	1450	SOIL	1		1										2	141.2 ppm	
1506B1	9/6/96	1320	SOIL	1		1										2	0 ppm	
1501B1	9/6/96	0935	SOIL	1								1				2	0 ppm	
1505B1	9/6/96	1112	SOIL	1		1										2	0 ppm	
0201E1	9/6/96	1535	SOIL		1					1						2	68.5 ppm	
0202A1	9/6/96	1315	SOIL		1					1						2	1999 ppm	

RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time
[signature]	1310		
COMPANY NAME: SAIC	9/8/96	COMPANY NAME:	
RECEIVED BY: Raynal E. Reed	Date/Time 9/8/96	RELINQUISHED BY:	Date/Time
COMPANY NAME: GEL	1310	COMPANY NAME:	
RELINQUISHED BY: Raynal E Reed	Date/Time 9/8/96	RECEIVED BY: [signature]	Date/Time 09-09-96
COMPANY NAME: G	1630	COMPANY NAME: GEL	16:30

TOTAL NUMBER OF CONTAINERS: 52

Cooler ID: #125

Cooler Temperature: 2.0°C

An Employee-Owned Company
Science Applications International Corporation
800 Oak Ridge Turnpike, Oak Ridge, TN 37831 (423) 481-4600

CHAIN OF CUSTODY RECORD

COC NO.: G0004

PROJECT NAME: Fort Stewart UST Sites

PROJECT NUMBER: 0003

PROJECT MANAGER: Chris Potter

Sampler (Signature): Sharon Stoller (Printed Name): Sharon Stoller

LABORATORY NAME: GEL

LABORATORY ADDRESS: 2040 Savage Road, Charleston, SC 29417

PHONE NO:(803) 556-8171

Sample ID	Date Collected	Time Collected	Matrix	BTEX, GRO	BTEX	PAH, Lead, DRO	PAH	Lead	DRO	PAH, LEAD, TPH	PAH, TPH	PAH, D20					No. of Bottles/Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
1504B1	9/7/96	0902	SOIL	1								1					2	0 ppm	
1507B1	9/7/96	1015	SOIL	1								1					2	0 ppm	
1504A1	9/7/96	0900	SOIL	1		1											2	17.4 ppm	
1508A1	9/7/96	1133	SOIL	1		1											2	22.7 ppm	
1508B1	9/7/96	1137	SOIL	1								1					2	23.5 ppm	
0504B1	9/7/96	0845	SOIL		1					1							2	6.8 ppm	
0503B1	9/7/96	1040	SOIL		1						1						2	0 ppm	
0503D1	9/7/96	1100	SOIL		1					1							2	0 ppm	
0504D1	9/7/96	0855	SOIL		1						1						2	2.9 ppm	
1505A1	9/6/96	1109	SOIL	1								1					2	0 ppm	
1602A1	9/6/96	1625	SOIL	1								1					2	3.4 ppm	
3904E1	9/6/96	0920	SOIL	1		1											2	1999 ppm	OVA readings were questionable
1502A1	9/6/96	1522	SOIL	1								1					2	1.5 ppm	

REQUESTED PARAMETERS

RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time	TOTAL NUMBER OF CONTAINERS: 52	Cooler Temperature:
COMPANY NAME: SAIC	9/9/96 1310	COMPANY NAME:		Cooler ID: #125	
RECEIVED BY: Raymle Reed	Date/Time 9/8/96	RELINQUISHED BY:	Date/Time		
COMPANY NAME: GEL	1310	COMPANY NAME:			
RELINQUISHED BY: Raymle Reed	Date/Time 9/8/96	RECEIVED BY:	Date/Time 09-09-96		
COMPANY NAME: GEL	1630	COMPANY NAME: GEL	16:30		

APPENDIX C-4

Facility ID #9-089016
USTs 36 and 37

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1202W2

Lab Name: GENERAL ENGINEERING LABOR Contract:

Lab Code: Case No.: SAS No.: SDG No.: 69348W

Matrix: (soil/water) GROUNDH2O Lab Sample ID: 9609348-17

Sample wt/vol: 500 (g/mL) mL Lab File ID: 4N108

Level: (low/med) LOW Date Received: 09/18/96

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/21/96

Concentrated Extract Volume: 0.5(mL) Date Analyzed: 09/30/96

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
91-20-3	naphthalene	10.0	U
91-58-7	2-chloronaphthalene	10.0	U
209-96-8	acenaphthylene	10.0	U
83-32-9	acenaphthene	10.0	U
86-73-7	fluorene	10.0	U
85-01-8	phenanthrene	10.0	U
120-12-7	anthracene	10.0	U
206-44-0	fluoranthene	10.0	U
129-00-0	pyrene	10.0	U
56-55-3	benzo(a)anthracene	10.0	U
218-01-9	chrysene	10.0	U
205-99-2	benzo(b)fluoranthene	10.0	U
207-08-9	benzo(k)fluoranthene	10.0	U
50-32-8	benzo(a)pyrene	10.0	U
193-39-5	indeno(1,2,3-cd)pyrene	10.0	U
53-70-3	dibenz(a,h)anthracene	10.0	U
191-24-2	benzo(g,h,i)perylene	10.0	U

U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1202W2

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: 69348W

Matrix: (soil/water) WATER Lab Sample ID: 9609348-17

Sample wt/vol: 20 (g/ml) ml Lab File ID: 1A514

Level: (low/med) LOW Date Received: 09/18/96

% Moisture: not dec. _____ Date Analyzed: 09/20/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l		Q	
71-43-2	benzene		5.0	U	U
108-88-3	toluene	5.0	~~0.59~~	JB	U FD1,FD6
100-41-4	ethylbenzene		5.0	U	U
1330-20-7	xylenes (total)	MMP 12/10/96	5.0	U	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1201W2

Name: GENERAL ENGINEERING LABOR Contract:

Code: Case No.: SAS No.: SDG No.: 69348W

Matrix: (soil/water) GROUNDH2O Lab Sample ID: 9609348-18

Sample wt/vol: 500 (g/mL) mL Lab File ID: 4N109

Level: (low/med) LOW Date Received: 09/18/96

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/21/96

Concentrated Extract Volume: 0.5(mL) Date Analyzed: 09/30/96

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
91-20-3	naphthalene	7.0	J
91-58-7	2-chloronaphthalene	10.0	U
209-96-8	acenaphthylene	10.0	U
83-32-9	acenaphthene	10.0	U
86-73-7	fluorene	10.0	U
85-01-8	phenanthrene	10.0	U
120-12-7	anthracene	10.0	U
206-44-0	fluoranthene	10.0	U
129-00-0	pyrene	10.0	U
56-55-3	benzo(a)anthracene	10.0	U
218-01-9	chrysene	10.0	U
205-99-2	benzo(b)fluoranthene	10.0	U
207-08-9	benzo(k)fluoranthene	10.0	U
50-32-8	benzo(a)pyrene	10.0	U
193-39-5	indeno(1,2,3-cd)pyrene	10.0	U
53-70-3	dibenz(a,h)anthracene	10.0	U
191-24-2	benzo(g,h,i)perylene	10.0	U

J U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1201W2

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: 69348W

Matrix: (soil/water) WATER Lab Sample ID: 9609348-18

Sample wt/vol: 20 (g/ml) ml Lab File ID: 1A508

Level: (low/med) LOW DATA VALIDATION COPY Date Received: 09/18/96

% Moisture: not dec. _____ Date Analyzed: 09/20/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l		Q	BTEX ONLY
75-35-4	~~1,1 dichloroethene~~		~~5.0~~	~~U~~	
79-01-6	~~trichloroethene~~		~~5.0~~	~~U~~	
71-43-2	benzene		5.0	U	U
108-88-3	toluene	5.0	~~0.25~~	JB	U F01,F2C
108-90-7	~~chlorobenzene~~		~~5.0~~	~~U~~	
100-41-4	ethylbenzene	MAP 12/10/96	5.0	U	U
1330-20-7	xylenes (total)		5.0	U	U

FORM I VOA OLM03.0

An Employee-Owned Company
Science Applications International Corporation
800 Oak Ridge Turnpike, Oak Ridge, TN 37831 (423) 481-4600

CHAIN OF CUSTODY RECORD

COC NO.: 6000

PROJECT NAME: Fort Stewart UST Sites

PROJECT NUMBER: 0003

PROJECT MANAGER: Chris Potter

Sampler (Signature): [signature] **(Printed Name):** SHARON STOLLER

LABORATORY NAME: GEL

LABORATORY ADDRESS: 2040 Savage Road, Charleston, SC 29417

PHONE NO: (803) 556-8171

REQUESTED PARAMETERS

Sample ID	Date Collected	Time Collected	Matrix	BTEX, GRO	BTEX	PAH, Lead, DRO	PAH	Lead	DRO	PAH, Lead, TPH	PAH, TPH	PAH, DRO	TPH	No. of Bottles/Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
1202W2	9/17/96	0955	WATER		2		2							4	12.2 ppm	9609348-17 .5
1201W2	9/17/96	1055	WATER		2		2							4	16.3 ppm	9609348-18 .5
3804RS	9/17/96	1705	WATER	2										2	N/A	9609348-19 .6
3804W2	9/17/96	1810	WATER		2									2	0 ppm	9609351-01 .7
TB0032	9/17/96	0730	WATER		2									2	N/A	9609351-02
2302W2	9/17/96	1630	WATER		2									2	0 ppm	9609351-03
~~1202W2~~																355 9/18/96
2303W2	9/17/96	1425	WATER		2									2	0 ppm	9609351-04
2301W2	9/17/96	1500	WATER		2									2	23.2	9609351-05
2303RS	9/17/96	1245	WATER		2									2	N/A	9609351-06
3502W2	9/17/96	1640	WATER		2									2	not recorded	9609351-07
5101RS	9/17/96	1355	WATER		2									2	N/A	9609351-08
TB0034	9/17/96	0730	WATER		2									2	N/A	9609351-09

RELINQUISHED BY: [signature]	Date/Time 9/19/96 1325	RECEIVED BY: [signature]	Date/Time 9/18/96 1325	TOTAL NUMBER OF CONTAINERS: 48
COMPANY NAME: SAIC		COMPANY NAME: GEL		Cooler ID: #228
RECEIVED BY:	Date/Time	RELINQUISHED BY: [signature]	Date/Time 9/18/96 1801	Cooler Temperature: 2°
COMPANY NAME:		COMPANY NAME: GEL		
RELINQUISHED BY:	Date/Time	RECEIVED BY: [signature]	Date/Time 1815 09-18-96	
COMPANY NAME:		COMPANY NAME: GEL		

NOTE: THE PAH & LEAD PORTION OF 2301W2 WILL BE COLLECTED ON 9/18/96 DUE TO SLOW RECHARGE OF THE PIEZOMETER.

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow

Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Science Applications International Corp.
P.O. Box 2502
800 Oak Ridge Turnpike
Oak Ridge, Tennessee 37831
Contact: Mr. Nile Luedtke
Project Description: Ft. Stewart UST Sites

cc: SAIC00396

Report Date: October 25, 1996

Sample ID	: 1202D1
Lab ID	: 9609352-06
Matrix	: Soil
Date Collected	: 09/17/96
Date Received	: 09/18/96
Priority	: Routine
Collector	: Client

VALIDATION QUALIFIER

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Organic Prep											
Evaporative Loss @ 105 C		21.0	1.00	1.00	wt%	1.0	DDT	09/26/96	1630	91145	1
General Chemistry											
Total Rec. Petro. Hydrocarbons	B	100 = FOB	8.59	12.7	mg/kg	1.0	EAN	09/22/96	1800	90965	2

M = Method	Method-Description
M 1	EPA 3550
M 2	EPA 418.1 Modified

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

Data reported in mass/mass units is reported as 'dry weight'.

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29414
(803) 556-8171 • Fax (803) 766-1178

9609352-06

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1202D1

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 69352S

Matrix: (soil/water) SOIL Lab Sample ID: 9609352-06

Sample wt/vol: 30.7 (g/mL) g Lab File ID: 4M519

Level: (low/med) LOW Date Received: 09/18/96

% Moisture: 21 decanted: (Y/N) N Date Extracted: 09/23/96

Concentrated Extract Volume: 1(mL) Date Analyzed: 09/27/96

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
91-20-3	naphthalene	412	U
91-58-7	2-chloronaphthalene	412	U
209-96-8	acenaphthylene	412	U
83-32-9	acenaphthene	412	U
86-73-7	fluorene	412	U
85-01-8	phenanthrene	412	U
120-12-7	anthracene	412	U
206-44-0	fluoranthene	412	U
129-00-0	pyrene	412	U
56-55-3	benzo(a)anthracene	412	U
218-01-9	chrysene	412	U
205-99-2	benzo(b)fluoranthene	412	U
207-08-9	benzo(k)fluoranthene	412	U
50-32-8	benzo(a)pyrene	412	U
193-39-5	indeno(1,2,3-cd)pyrene	412	U
53-70-3	dibenz(a,h)anthracene	412	U
191-24-2	benzo(g,h,i)perylene	412	U

U
U
US P02
U

1D

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1202D1

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: 69352S

Matrix: (soil/water) SOIL Lab Sample ID: 9609352-06

Sample wt/vol: 5.0 (g/mL) g Lab File ID: B2B419

% Moisture: 21 decanted: (Y/N) N Date Received: 09/18/96

Extraction: (SepF/Cont/Sonc) PURGETRAP Date Extracted:N/A

Concentrated Extract Volume: 10(ml) Date Analyzed: 09/26/96

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q	
71-43-2	Benzene	6.3	U	U
108-88-3	Toluene	6.3	U	↓
100-41-4	Ethylbenzene	6.3	U	↓
1330-20-7	Xylenes (total)	6.5	B	U F01 F07

Client: Science Applications International Corp.
P.O. Box 2502
800 Oak Ridge Turnpike
Oak Ridge, Tennessee 37831
Contact: Mr. Nile Luedtke
Project Description: Ft. Stewart UST Sites

DATA VALIDATION COPY

cc: SAIC00396 Report Date: October 30, 1996

Sample ID	: 1202B1
Lab ID	: 9609353-10
Matrix	: Soil
Date Collected	: 09/17/96
Date Received	: 09/18/96
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	VALIDATION QUAL.	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Organic Prep												
Evaporative Loss @ 105 C		13.0		1.00	1.00	wt%	1.0	DDT	09/26/96	1730	91147	1
General Chemistry												
Total Rec. Petro. Hydrocarbons		56.7	=	7.77	11.5	mg/kg	1.0	EAN	09/22/96	1800	90965	2

M = Method	Method-Description
M 1	EPA 3550
M 2	EPA 418.1 Modified

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

Data reported in mass/mass units is reported as 'dry weight'.

9609353-10 0199

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1202B1

Lab Name: GENERAL ENGINEERING LABOR Contract:

Lab Code: Case No.: SAS No.: SDG No.: 69353S

Matrix: (soil/water) SOIL Lab Sample ID: 9609353-10

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 1M434

Level: (low/med) LOW Date Received: 09/18/96

% Moisture: 13 decanted: (Y/N) N Date Extracted: 09/24/96

Concentrated Extract Volume: 1(mL) Date Analyzed: 09/26/96

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
91-20-3	naphthalene	383	U
91-58-7	2-chloronaphthalene	383	U
209-96-8	acenaphthylene	383	U
83-32-9	acenaphthene	383	U
86-73-7	fluorene	383	U
85-01-8	phenanthrene	383	U
120-12-7	anthracene	383	U
206-44-0	fluoranthene	383	U
129-00-0	pyrene	383	U
56-55-3	benzo(a)anthracene	383	U
218-01-9	chrysene	383	U
205-99-2	benzo(b)fluoranthene	383	U
207-08-9	benzo(k)fluoranthene	383	U
50-32-8	benzo(a)pyrene	383	U
193-39-5	indeno(1,2,3-cd)pyrene	383	U
53-70-3	dibenz(a,h)anthracene	383	U
191-24-2	benzo(g,h,i)perylene	383	U

U

1D

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1202B1

Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: 69353S

Matrix: (soil/water) SOIL Lab Sample ID: 9609353-10

Sample wt/vol: 5.0 (g/mL) g Lab File ID: B1B423

% Moisture: 13 decanted: (Y/N) N Date Received: 09/18/96

Extraction: (SepF/Cont/Sonc) PURGETRAP Date Extracted:N/A

Concentrated Extract Volume: 10(ml) Date Analyzed: 09/26/96

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q	
71-43-2	Benzene	5.7	U	C
108-88-3	Toluene	5.7	U	C
100-41-4	Ethylbenzene	9.3		C
1330-20-7	Xylenes (total)	5.7	U	C

Client: Science Applications International Corp.
P.O. Box 2502
800 Oak Ridge Turnpike
Oak Ridge, Tennessee 37831
Contact: Mr. Nile Luedtke
Project Description: Ft. Stewart UST Sites

DATA VALIDATION COPY

cc: SAIC00396

Report Date: October 30, 1996

Sample ID	: 1201B1
Lab ID	: 9609353-11
Matrix	: Soil
Date Collected	: 09/17/96
Date Received	: 09/18/96
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	VALIDATION QUAL.	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Organic Prep												
Evaporative Loss @ 105 C		18.0		1.00	1.00	wt%	1.0	DDT	09/26/96	1730	91147	1
General Chemistry												
Total Rec. Petro. Hydrocarbons	U	7.60	U	8.25	12.2	mg/kg	1.0	EAN	09/22/96	1800	90965	2

M = Method	Method-Description
M 1	EPA 3550
M 2	EPA 418.1 Modified

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

Data reported in mass/mass units is reported as 'dry weight'.

9609353-11 0200

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1201B1

Name: GENERAL ENGINEERING LABOR Contract:

Lab Code: Case No.: SAS No.: SDG No.: 69353S

Matrix: (soil/water) SOIL Lab Sample ID: 9609353-11

Sample wt/vol: 29.8 (g/mL) g Lab File ID: 1M435

Level: (low/med) LOW Date Received: 09/18/96

% Moisture: 18 decanted: (Y/N) N Date Extracted: 09/24/96

Concentrated Extract Volume: 1(mL) Date Analyzed: 09/26/96

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
91-20-3	naphthalene	409	U
91-58-7	2-chloronaphthalene	409	U
209-96-8	acenaphthylene	409	U
83-32-9	acenaphthene	409	U
86-73-7	fluorene	409	U
85-01-8	phenanthrene	409	U
120-12-7	anthracene	409	U
206-44-0	fluoranthene	409	U
129-00-0	pyrene	409	U
56-55-3	benzo(a)anthracene	409	U
218-01-9	chrysene	409	U
205-99-2	benzo(b)fluoranthene	409	U
207-08-9	benzo(k)fluoranthene	409	U
50-32-8	benzo(a)pyrene	409	U
193-39-5	indeno(1,2,3-cd)pyrene	409	U
53-70-3	dibenz(a,h)anthracene	409	U
191-24-2	benzo(g,h,i)perylene	409	U

U

1D

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1201B1

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: 69353S

Matrix: (soil/water) SOIL Lab Sample ID: 9609353-11

Sample wt/vol: 5.0 (g/mL) g Lab File ID: B1B424

% Moisture: 18 decanted: (Y/N) N Date Received: 09/18/96

Extraction: (SepF/Cont/Sonc) PURGETRAP Date Extracted:N/A

Concentrated Extract Volume: 10(ml) Date Analyzed: 09/26/96

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q	
71-43-2	Benzene	6.1	U	U
108-88-3	Toluene	6.1	U	
100-41-4	Ethylbenzene	6.1	U	
1330-20-7	Xylenes (total)	6.1	U	

GENERAL ENGINEERING LABORATORIES

Client: Science Applications International Corp.
P.O. Box 2502
800 Oak Ridge Turnpike
Oak Ridge, Tennessee 37831
Contact: Mr. Nile Luedtke

Project Description: Ft. Stewart UST Sites

cc: SAIC00396 Report Date: October 28, 1996

Sample ID : 1201A1
Lab ID : 9609352-07
Matrix : Soil
Date Collected : 09/17/96
Date Received : 09/18/96
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	VALIDATION QUALIFIER	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Organic Prep												
Evaporative Loss @ 105 C		15.0		1.00	1.00	wt%	1.0	DDT	09/26/96	1630	91145	1
General Chemistry												
Total Rec. Petro. Hydrocarbons	U	7.78	U	7.98	11.8	mg/kg	1.0	EAN	09/22/96	1800	90965	2

M = Method	Method-Description
M 1	EPA 3550
M 2	EPA 418.1 Modified

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

Data reported in mass/mass units is reported as 'dry weight'.

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29414
(803) 556-8171 • Fax (803) 766-1178

9609352-07

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1201A1

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 69352S

Matrix: (soil/water) SOIL Lab Sample ID: 9609352-07

Sample wt/vol: 30.7 (g/mL) g Lab File ID: 4M520

Level: (low/med) LOW Date Received: 09/18/96

% Moisture: 15 decanted: (Y/N) N Date Extracted: 09/23/96

Concentrated Extract Volume: 1(mL) Date Analyzed: 09/27/96

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
91-20-3	naphthalene	383	U
91-58-7	2-chloronaphthalene	383	U
209-96-8	acenaphthylene	383	U
83-32-9	acenaphthene	383	U
86-73-7	fluorene	383	U
85-01-8	phenanthrene	383	U
120-12-7	anthracene	383	U
206-44-0	fluoranthene	383	U
129-00-0	pyrene	383	U
56-55-3	benzo(a)anthracene	383	U
218-01-9	chrysene	383	U
205-99-2	benzo(b)fluoranthene	383	U
207-08-9	benzo(k)fluoranthene	383	U
50-32-8	benzo(a)pyrene	383	U
193-39-5	indeno(1,2,3-cd)pyrene	383	U
53-70-3	dibenz(a,h)anthracene	383	U
191-24-2	benzo(g,h,i)perylene	383	U

U
U
U SPDL
U

1D

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1201A1

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: 69352S

Matrix: (soil/water) SOIL Lab Sample ID: 9609352-07

Sample wt/vol: 5.0 (g/mL) g Lab File ID: B2B420

% Moisture: 15 decanted: (Y/N) N Date Received: 09/18/96

Extraction: (SepF/Cont/Sonc) PURGETRAP Date Extracted:N/A

Concentrated Extract Volume: 10(ml) Date Analyzed: 09/26/96

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q	
71-43-2	Benzene	5.9	U	U = U
108-88-3	Toluene	17		
100-41-4	Ethylbenzene	5.9	U	U
1330-20-7	Xylenes (total)	7.2	B	U F01, F07

SAIC An Employee-Owned Company
Science Applications International Corporation
800 Oak Ridge Turnpike, Oak Ridge, TN 37831 (423) 481-4600

CHAIN OF CUSTODY RECORD

COC NO.: G0059

PROJECT NAME: Fort Stewart UST Sites

PROJECT NUMBER: 0003

PROJECT MANAGER: Chris Potter

Sampler (Signature) (Printed Name) Shannon Stoller

LABORATORY NAME: GEL

LABORATORY ADDRESS: 2040 Savage Road, Charleston, SC 29417

PHONE NO:(803) 556-8171

Sample ID	Date Collected	Time Collected	Matrix	BTEX, GRO	BTEX	PAH, Lead, DRO	PAH	Lead	DRO	PAH, Lead, TPH	PAH, TPH	PAH, DRO	TPH			No. of Bottles/Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS	
2601H1	9/17/96	1020	SOIL		1						1					2	15 ppm	9609352-04	.8
2601J1	9/17/96	1035	SOIL		1					1						2	17 ppm	9609353-09	.9
4803B1	9/17/96	1345	SOIL	1		1										2	335 ppm	9609353-13	.10
4803D1	9/17/96	1400	SOIL	1								1				2	0 ppm	9609352-09	.11
4804A1	9/17/96	1510	SOIL	1		1										2	3.5 ppm	9609353-14	.10
4804C1	9/17/96	1520	SOIL	1								1				2	0 ppm	9609352-10	.11
5002B1	9/17/96	0905	SOIL		1						1					2	0 ppm	9609352-05	.8
1202D1	9/17/96	0945	SOIL		1						1					2	4.7 ppm	9609352-06	.8
1202B1	9/17/96	0940	SOIL		1					1						2	67.8 ppm	9609353-10	.9
1201B1	9/17/96	1045	SOIL		1					1						2	33.2 ppm	9609353-11	↓
1201A1	9/17/96	1045	SOIL		1						1					2	7.9 ppm	9609352-07	.8
		9/18/96																	

RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time
S. Stoller	9/18/96 1325	B. Lochbaum	9/18/96 1330
COMPANY NAME: SAIC		COMPANY NAME: GEL	
RECEIVED BY:	Date/Time	RELINQUISHED BY: B. Lochbaum	Date/Time 9/18/96 1850
COMPANY NAME:		COMPANY NAME: GEL	
RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time 1815 09-18-96
COMPANY NAME:		COMPANY NAME: GEL	

TOTAL NUMBER OF CONTAINERS: 48

Cooler ID: #24

Cooler Temperature: 3°

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1102W2

Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 69220W

Matrix: (soil/water) GROUNDH2O Lab Sample ID: 9609220-01

Sample wt/vol: 500 (g/mL) mL Lab File ID: 1L508

Level: (low/med) LOW Date Received: 09/12/96

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 09/14/96

Concentrated Extract Volume: 0.5(mL) Date Analyzed: 09/20/96

Injection Volume: 1(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
91-20-3	naphthalene	10.0	U
91-58-7	2-chloronaphthalene	10.0	U
209-96-8	acenaphthylene	10.0	U
83-32-9	acenaphthene	10.0	U
86-73-7	fluorene	10.0	U
85-01-8	phenanthrene	10.0	U
120-12-7	anthracene	10.0	U
206-44-0	fluoranthene	10.0	U
129-00-0	pyrene	10.0	U
56-55-3	benzo(a)anthracene	10.0	U
218-01-9	chrysene	10.0	U
205-99-2	benzo(b)fluoranthene	10.0	U
207-08-9	benzo(k)fluoranthene	10.0	U
50-32-8	benzo(a)pyrene	10.0	U
193-39-5	indeno(1,2,3-cd)pyrene	10.0	U
53-70-3	dibenz(a,h)anthracene	10.0	U
191-24-2	benzo(g,h,i)perylene	10.0	U

DATA VALIDATION COPY

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1102W2

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: 69222W

Matrix: (soil/water) WATER Lab Sample ID: 9609222-06

Sample wt/vol: 20 (g/ml) ml Lab File ID: 1A416

Level: (low/med) LOW Date Received: 09/12/96

% Moisture: not dec. _____ Date Analyzed: 09/19/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q	
71-43-2	benzene	5.0	U	U
108-88-3	toluene	5.0 ~~0.45~~	JB	U, FB1,FB2
100-41-4	ethylbenzene	3.0	J	J, ~~FB6~~
1330-20-7	xylenes (total)	4.2	J	J, ~~FB6~~

MLS 1/8/97

FORM I VOA OLM03.0

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1101W2

Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 69220W

Matrix: (soil/water) GROUNDH2O Lab Sample ID: 9609220-18

Sample wt/vol: 500 (g/mL) mL Lab File ID: 1M106

Level: (low/med) LOW Date Received: 09/12/96

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/14/96

Concentrated Extract Volume: 0.5(mL) Date Analyzed: 09/23/96

Injection Volume: 1(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
121-14-2	~~2,4-dinitrotoluene~~	~~10.0~~	~~U~~
106-46-7	~~1,4-dichlorobenzene~~	~~10.0~~	~~U~~
621-64-7	~~N-nitroso-di-n-propylamine~~	~~10.0~~	~~U~~
120-82-1	~~1,2,4-trichlorobenzene~~	~~10.0~~	~~U~~
91-20-3	naphthalene	10.0	U
91-58-7	2-chloronaphthalene	10.0	U
209-96-8	acenaphthylene	10.0	U
83-32-9	acenaphthene	10.0	U
86-73-7	fluorene	10.0	U
85-01-8	phenanthrene	10.0	U
120-12-7	anthracene	10.0	U
206-44-0	fluoranthene	10.0	U
129-00-0	pyrene	10.0	U
56-55-3	benzo(a)anthracene	10.0	U
218-01-9	chrysene	10.0	U
205-99-2	benzo(b)fluoranthene	10.0	U
207-08-9	benzo(k)fluoranthene	10.0	U
50-32-8	benzo(a)pyrene	10.0	U
193-39-5	indeno(1,2,3-cd)pyrene	10.0	U
53-70-3	dibenz(a,h)anthracene	10.0	U
191-24-2	benzo(g,h,i)perylene	10.0	U

PAH ONLY

MMP 1/21/97

U

DATA VALIDATION COPY

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1101W2

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: 69222W

Matrix: (soil/water) WATER Lab Sample ID: 9609222-04

Sample wt/vol: 20 (g/ml) ml Lab File ID: 1A415

Level: (low/med) LOW Date Received: 09/12/96

% Moisture: not dec. _____ Date Analyzed: 09/19/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l		Q	
71-43-2	benzene		0.27	J	J, ~~F6~~
108-88-3	toluene	5.0	~~0.61~~	JB	U, F1, F2
100-41-4	ethylbenzene		1.2	J	J, ~~F6~~
1330-20-7	xylenes (total)		0.26	J	J, ~~F6~~

MAF
1/8/97

FORM I VOA OLM03.0

An Employee-Owned Company
Science Applications International Corporation
800 Oak Ridge Turnpike, Oak Ridge, TN 37831 (423) 481-6800

CHAIN OF CUSTODY RECORD

COC NO.: 6000520

PROJECT NAME: Fort Stewart UST Sites

PROJECT NUMBER: 0003

PROJECT MANAGER: Chris Potter

Sampler (Signature): [signature] (Printed Name): Sharon Stoller

LABORATORY NAME: GEL

LABORATORY ADDRESS: 2040 Savage Road, Charleston, SC 29417

PHONE NO: (803) 556-8171

REQUESTED PARAMETERS

Sample ID	Date Collected	Time Collected	Matrix	BTEX, GRO	BTEX	PAH, Lead, DRO	PAH	Lead	DRO	Cal, rpH, Lead	pH, TPH	PAH, DRO	TPH			No. of Bottles/Vials	OVA SCREENING	OBSERVATIONS, COMMENTS SPECIAL INSTRUCTIONS
1002W2	9/11/96	0900	WATER		X											2	10.5 ppm	9609222-01 .4
1001W2	9/11/96	1100			X											2	31.5 ppm	-02
TB0029	9/11/96	0730			X											2	N/A	-03
1101W2	9/11/96	1645			X											2	10.0 ppm	-04
1001R5	9/11/96	1075			X											2	N/A	-05
1102W2	9/11/96	1430			X											2	0.2 ppm	-06
0902W2	9/11/96	0935			X											2	27.9 ppm	-07
4304W2	9/11/96	1415			X											2	0 ppm	analyze water, not soil
4303W2	9/11/96	1530			X											2	57.0 ppm	analyze water, not soil
5502W2	9/11/96	0930			X											2	0 ppm	-10
4301W2	9/11/96	1105			X											2	764 ppm	analyze water, not soil
4302W2	9/11/96	1005			X											2	5.3 ppm	analyze water, not soil
4304R6	9/11/96	1405	↓		X											2	N/A	-13

RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time	TOTAL NUMBER OF CONTAINERS:	Cooler Temperature:
[signature]	9/12/96	[signature]	9/12/96	76	
COMPANY NAME: SAIC	1300	COMPANY NAME: GEL	1300	Cooler ID: 224 DRG 9-12-96	
RECEIVED BY:	Date/Time	RELINQUISHED BY:	Date/Time		
COMPANY NAME:		COMPANY NAME:			
RELINQUISHED BY:	Date/Time	RECEIVED BY: [signature]	Date/Time 9-12-96		
COMPANY NAME:		COMPANY NAME: GEL	1330		

25

SAIC An Employee-Owned Company
Science Applications International Corporation
800 Oak Ridge Turnpike, Oak Ridge, TN 37831 (423) 481-4800

CHAIN OF CUSTODY RECORD

COC NO.: G00038

PROJECT NAME: Fort Stewart UST Sites

PROJECT NUMBER: 0003

PROJECT MANAGER: Chris Potter

Sampler (Signature): [signature] (Printed Name): SHARON STOLLER

LABORATORY NAME: GEL

LABORATORY ADDRESS: 2040 Savage Road, Charleston, SC 29417

PHONE NO:(803) 556-8171

REQUESTED PARAMETERS

Sample ID	Date Collected	Time Collected	Matrix	BTEX, GRO	BTEX	PAH, Lead, DRO	PAH	Lead	DRO	PAH, Lead, TPH	PAH, TPH	PAH, DRO	TPH	No. of Bottles/Vials	OVA SCREENING	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
110WZ	9/11/96	1645	WATER				X							3	10.6 ppm	9609720-18 .2
1102WZ	9/11/96	1430	WATER				X							3	0.2 ppm	9609220-61 .1
1002WZ	9/11/96	1300	WATER				X							3	10.5 ppm	-02
1002RB	9/11/96	1220	WATER				X							3	n/a	-03
4303WZ	9/11/96	1530	WATER				X	1						3	57.0 ppm	analyze water, not soil

515 9/12/96

RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time	TOTAL NUMBER OF CONTAINERS: 12	Cooler Temperature:
COMPANY NAME: SAIC	9/12/96 1300	COMPANY NAME: GEL	9/12/96 515	Cooler ID: #36	3
RECEIVED BY:	Date/Time	RELINQUISHED BY:	Date/Time		
COMPANY NAME:		COMPANY NAME:			
RELINQUISHED BY:	Date/Time	RECEIVED BY: [signature]	Date/Time 9-12-96 1315		
COMPANY NAME:		COMPANY NAME: GEL			

FROM: 09-12-1996 13:53 P. 2

Client: Science Applications International Corp.
P.O. Box 2502
800 Oak Ridge Turnpike
Oak Ridge, Tennessee 37831
Contact: Mr. Nile Luedtke
Project Description: Ft. Stewart UST Sites

cc: SAIC00396 Report Date: October 26, 1996

Sample ID : 1102B1
Lab ID : 9609226-15
Matrix : Soil
Date Collected : 09/11/96
Date Received : 09/12/96
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	VAL QUAL	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Organic Prep												
Evaporative Loss @ 105 C		17.0		1.00	1.00	wt%	1.0	DDT	09/23/96	1540	90959	1
General Chemistry												
Total Rec. Petro. Hydrocarbons	U	4.75	UJ P01	8.11	12.0	mg/kg	1.0	EAN	09/19/96	1100	90769	2

M = Method	Method-Description
M 1	EPA 3550
M 2	EPA 418.1 Modified

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

Data reported in mass/mass units is reported as 'dry weight'.

0237

9609226-15

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1102B1

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 69226S

Matrix: (soil/water) SOIL Lab Sample ID: 9609226-15

Sample wt/vol: 30.9 (g/mL) g Lab File ID: 1M172

Level: (low/med) LOW Date Received: 09/12/96

% Moisture: 17 decanted: (Y/N) N Date Extracted: 09/20/96

Concentrated Extract Volume: 1(mL) Date Analyzed: 09/24/96

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
91-20-3	naphthalene	390	U
91-58-7	2-chloronaphthalene	390	U
209-96-8	acenaphthylene	390	U
83-32-9	acenaphthene	390	U
86-73-7	fluorene	390	U
85-01-8	phenanthrene	390	U
120-12-7	anthracene	390	U
206-44-0	fluoranthene	390	U
129-00-0	pyrene	390	U
56-55-3	benzo(a)anthracene	390	U
218-01-9	chrysene	390	U
205-99-2	benzo(b)fluoranthene	390	U
207-08-9	benzo(k)fluoranthene	390	U
50-32-8	benzo(a)pyrene	390	U
193-39-5	indeno(1,2,3-cd)pyrene	390	U
53-70-3	dibenz(a,h)anthracene	390	U
191-24-2	benzo(g,h,i)perylene	390	U

U

1D

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1102B1

Lab Name: GENERAL ENGINEERING LABS. Contract:

Lab Code: Case No.: SAS No.: SDG No.: 69226S

Matrix: (soil/water) SOIL Lab Sample ID: 9609226-15

Sample wt/vol: 5.0 (g/mL) g Lab File ID: B2A720

% Moisture: 17 decanted: (Y/N) N Date Received: 09/12/96

Extraction: (SepF/Cont/Sonc) PURGETRAP Date Extracted:N/A

Concentrated Extract Volume:_____(uL) Date Analyzed: 09/23/96

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q	
71-43-2	Benzene	6.0	U	U
108-88-3	Toluene	6.0	U	|
100-41-4	Ethylbenzene	6.0	U	|
1330-20-7	Xylenes (total)	6.0	U	V

DATA VALIDATION COPY

Client: Science Applications International Corp.
P.O. Box 2502
800 Oak Ridge Turnpike
Oak Ridge, Tennessee 37831
Contact: Mr. Nile Luedtke
Project Description: Ft. Stewart UST Sites

cc: SAIC00396 Report Date: October 26, 1996

Sample ID	: 1101B1
Lab ID	: 9609226-16
Matrix	: Soil
Date Collected	: 09/11/96
Date Received	: 09/12/96
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	VAL SUBL	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Organic Prep												
Evaporative Loss @ 105 C		8.00		1.00	1.00	wt%	1.0	DDT	09/23/96	1540	90959	1
General Chemistry												
Total Rec. Petro. Hydrocarbons	B	117 J PQL, FD		7.37	10.9	mg/kg	1.0	EAN	09/19/96	1100	90769	2

M = Method	Method-Description
M 1	EPA 3550
M 2	EPA 418.1 Modified

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

Data reported in mass/mass units is reported as 'dry weight'.

0238

9609226-16

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1101B1

Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 69226S

Matrix: (soil/water) SOIL Lab Sample ID: 9609226-16

Sample wt/vol: 30.6 (g/mL) g Lab File ID: 1M204

Level: (low/med) LOW Date Received: 09/12/96

% Moisture: 8 decanted: (Y/N) N Date Extracted: 09/20/96

Concentrated Extract Volume: 1(mL) Date Analyzed: 09/24/96

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
91-20-3	naphthalene	355	U
91-58-7	2-chloronaphthalene	355	U
209-96-8	acenaphthylene	355	U
83-32-9	acenaphthene	355	U
86-73-7	fluorene	355	U
85-01-8	phenanthrene	355	U
120-12-7	anthracene	355	U
206-44-0	fluoranthene	355	U
129-00-0	pyrene	355	U
56-55-3	benzo(a)anthracene	355	U
218-01-9	chrysene	355	U
205-99-2	benzo(b)fluoranthene	355	U
207-08-9	benzo(k)fluoranthene	355	U
50-32-8	benzo(a)pyrene	355	U
193-39-5	indeno(1,2,3-cd)pyrene	355	U
53-70-3	dibenz(a,h)anthracene	355	U
191-24-2	benzo(g,h,i)perylene	355	U

U

DATA VALIDATION COPY

1D

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1101B1

Lab Name: GENERAL ENGINEERING LABS. Contract:

Lab Code: Case No.: SAS No.: SDG No.: 69226S

Matrix: (soil/water) SOIL Lab Sample ID: 9609226-16

Sample wt/vol: 5.0 (g/mL) g Lab File ID: B2A721

% Moisture: 0 decanted: (Y/N) N Date Received: 09/12/96

Extraction: (SepF/Cont/Sonc) PURGETRAP Date Extracted:N/A

Concentrated Extract Volume:_____(uL) Date Analyzed: 09/23/96

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q	
71-43-2	Benzene	5.0	U	U
108-88-3	Toluene	5.0		
100-41-4	Ethylbenzene	5.0	U	U
1330-20-7	Xylenes (total)	5.2		

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CHAIN OF CUSTODY RECORD

COC NO.: 60047

PROJECT NAME: Fort Stewart UST Sites

PROJECT NUMBER: 0003

PROJECT MANAGER: Chris Potter

Sampler (Signature): [signature]

(Printed Name): SHARON STOLLER

REQUESTED PARAMETERS

Sample ID	Date Collected	Time Collected	Matrix	BTEX, GRO	BTEX	PAH, Lead, DRO	PAH	Lead	DRO	TPH, GRO	TPH, DRO	TPH, DRO	TPH				No. of Bottles/Vials	OVA SCREENING	OBSERVATIONS, COMMENTS SPECIAL INSTRUCTIONS
550A1	9/10/96	1900	SOIL		X		X		X		X		X				2	2 ppm	228-07 .6
490 2C1	9/10/96	0915	SOIL		X		X		X		X		X				2	4.4 ppm	228-08 ↓
490 2A1	9/10/96	0910	SOIL		X		X		X		X		X				2	15.6 ppm	226-12 .5
870 2B1	9/10/96	0910	SOIL		X		X		X		X		X				2	6.3 ppm	-13
870 1B1	9/10/96	1105	SOIL		X		X		X		X		X				2	149.7 ppm	-14
1102B1	9/11/96	1420	SOIL		X		X		X		X		X				2	0 ppm	-15
1101 B1	9/11/96	1620	SOIL		X		X		X		X		X				2	12.2 ppm	-16
1002B1	9/11/96	1245	SOIL		X		X		X		X		X				2	7.8 ppm	-17 ↓
4503C1	9/11/96	1515	SOIL		X		X		X		X		X				2	9 ppm	228-09 .6
4303B1	9/11/96	1450	SOIL		X		X		X		X		X				2	26.2 ppm	226-18 .5
4304D1	9/11/96	1350	SOIL		X		X		X		X		X				2	6 ppm	-19 .5
		GS 9/12/96																	

LABORATORY NAME: GEL

LABORATORY ADDRESS: 2040 Savage Road, Charleston, SC 29417

PHONE NO:(803) 556-8171

RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time
[signature]	9/11/96	[signature]	9/12/96
COMPANY NAME: SAIC	1300	COMPANY NAME: GEL	1315
RECEIVED BY:	Date/Time	RELINQUISHED BY:	Date/Time
COMPANY NAME:		COMPANY NAME:	
RELINQUISHED BY:	Date/Time	RECEIVED BY: [signature]	Date/Time 9-12-96
COMPANY NAME:		COMPANY NAME: GEL	1300

TOTAL NUMBER OF CONTAINERS: 48

Cooler ID: #202

Cooler Temperature: 3°

DATA VALIDATION COPY

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0902W2

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 69220W

Matrix: (soil/water) GROUNDH2O Lab Sample ID: 9609220-05

Sample wt/vol: 500 (g/mL) mL Lab File ID: 1L512

Level: (low/med) LOW Date Received: 09/12/96

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 09/14/96

Concentrated Extract Volume: 0.5(mL) Date Analyzed: 09/20/96

Injection Volume: 1(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
91-20-3	naphthalene	10.0	U
91-58-7	2-chloronaphthalene	10.0	U
209-96-8	acenaphthylene	10.0	U
83-32-9	acenaphthene	10.0	U
86-73-7	fluorene	10.0	U
85-01-8	phenanthrene	10.0	U
120-12-7	anthracene	10.0	U
206-44-0	fluoranthene	10.0	U
129-00-0	pyrene	10.0	U
56-55-3	benzo(a)anthracene	10.0	U
218-01-9	chrysene	10.0	U
205-99-2	benzo(b)fluoranthene	10.0	U
207-08-9	benzo(k)fluoranthene	10.0	U
50-32-8	benzo(a)pyrene	10.0	U
193-39-5	indeno(1,2,3-cd)pyrene	10.0	U
53-70-3	dibenz(a,h)anthracene	10.0	U
191-24-2	benzo(g,h,i)perylene	10.0	U

U

DATA VALIDATION
SITE

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0902W2

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: 69222W

Matrix: (soil/water) WATER Lab Sample ID: 9609222-07

Sample wt/vol: 20 (g/ml) ml Lab File ID: 1A417

Level: (low/med) LOW Date Received: 09/12/96

% Moisture: not dec. _____ Date Analyzed: 09/19/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q	
71-43-2	benzene	5.0	U	U
108-88-3	toluene	Sω ~~0.28~~	JB	U, F01, FDL
100-41-4	ethylbenzene	5.0	U	U
1330-20-7	xylenes (total)	5.0	U	U

MMS
1/8/97

FORM I VOA OLM03.0

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0901W2

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 69220W

Matrix: (soil/water) GROUNDH2O Lab Sample ID: 9609220-13

Sample wt/vol: 500 (g/mL) mL Lab File ID: 1L520

Level: (low/med) LOW Date Received: 09/12/96

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/14/96

Concentrated Extract Volume: 0.5(mL) Date Analyzed: 09/20/96

Injection Volume: 1(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
91-20-3	naphthalene	10.0	U
91-58-7	2-chloronaphthalene	10.0	U
209-96-8	acenaphthylene	10.0	U
83-32-9	acenaphthene	10.0	U
86-73-7	fluorene	10.0	U
85-01-8	phenanthrene	10.0	U
120-12-7	anthracene	10.0	U
206-44-0	fluoranthene	10.0	U
129-00-0	pyrene	10.0	U
56-55-3	benzo(a)anthracene	10.0	U
218-01-9	chrysene	10.0	U
205-99-2	benzo(b)fluoranthene	10.0	U
207-08-9	benzo(k)fluoranthene	10.0	U
50-32-8	benzo(a)pyrene	10.0	U
193-39-5	indeno(1,2,3-cd)pyrene	10.0	U
53-70-3	dibenz(a,h)anthracene	10.0	U
191-24-2	benzo(g,h,i)perylene	10.0	U

U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0901W2

Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: 69223W

Matrix: (soil/water) WATER Lab Sample ID: 9609223-12

Sample wt/vol: 20 (g/ml) ml Lab File ID: 1A223

Level: (low/med) LOW Date Received: 09/12/96

% Moisture: not dec. _____ Date Analyzed: 09/17/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

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CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q	
71-43-2	benzene	5.0	U	U
108-88-3	toluene	5.0 ~~0.17~~	JB	U, F01, F06
100-41-4	ethylbenzene	0.19	J	J, ~~F06~~
1330-20-7	xylenes (total)	5.0	U	U

MAP
1/7/97

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Page 3 of 4

CHAIN OF CUSTODY RECORD

COC NO.: G0052

PROJECT NAME: Fort Stewart UST Sites

PROJECT NUMBER: 0003

PROJECT MANAGER: Chris Potter

Sampler (Signature): [illegible signature] (Printed Name): Sharon Stoller

LABORATORY NAME: GEL

LABORATORY ADDRESS: 2040 Savage Road, Charleston, SC 29417

PHONE NO: (803) 556-8171

Sample ID	Date Collected	Time Collected	Matrix	BTEX, DRO	BTEX	PAH, Lead, DRO	PAH	Lead	DRO	OA11, LEAD, TPH	PAH, TPH	PAH, DRO	TPH				No. of Bottles/Vials	OVA Screening	Observations, Comments, Special Instructions
0702W2	9/10/96	2935	WATER		2												2	90.5 ppm	223-07.4
5502W2	9/10/96	1330			2												2	0 ppm	-08
5401W2	9/10/96	0920			2												2	24.3 ppm	-09
5604W2	9/10/96	1115			2												2	0 ppm	-10
5604W4	9/10/96	1115			2												2	0 ppm	-11
0901W2	9/10/96	1700			2												2	0 ppm	-12
0801W2	9/10/96	1620			2												2	10.6 ppm	+13
0802W2	9/10/96	1330			2												2	0 ppm	-14
2802W4	9/10/96	1330			2												2	0 ppm	-15
5002W2	9/10/96	1645			2												2	0 ppm	-16
4902W2	9/10/96	0930			2												2	23.8 ppm	-17
5504W2	9/10/96	1515			2												2	73.0 ppm	-18
4902W4	9/10/96	0930			2												2	23.9 ppm	-19

RELINQUISHED BY: [illegible signature]	Date/Time: 9/12/96 1300	RECEIVED BY: [illegible signature]	Date/Time: 9/12/96 1300	TOTAL NUMBER OF CONTAINERS:	Cooler Temperature:
COMPANY NAME: SAIC		COMPANY NAME: GEL		Cooler ID: #76	
RECEIVED BY:	Date/Time	RELINQUISHED BY:	Date/Time		
COMPANY NAME:		COMPANY NAME:			
RELINQUISHED BY:	Date/Time	RECEIVED BY: [illegible signature]	Date/Time: 9-12-96 13[illegible]		
COMPANY NAME:		COMPANY NAME: [illegible]			

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CHAIN OF CUSTODY RECORD

COC NO.: 60050

PROJECT NAME: Fort Stewart UST Sites

PROJECT NUMBER: 0003

PROJECT MANAGER: Chris Potter

Sampler (Signature): Steve Stoller (Printed Name): Steve Stoller

LABORATORY NAME: GEL

LABORATORY ADDRESS: 2040 Savage Road, Charleston, SC 29417

PHONE NO: (803) 556-8171

Sample ID	Date Collected	Time Collected	Matrix	BTEX, GRO	BTEX	PAH, Lead, DRO	PAH	Lead	DRO	CAM, RPH, LEAD	CAM, TAL	PAH, DRO	TPH			No. of Bottles/Vials	OVA SCREENING	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
1002W2	9/11/96	1300	WATER		X		X		X				X			2	10.5 ppm	9609222-01 .4
1001W2	9/11/96	1100			X		X		X				X			2	31.5 ppm	-02
TB0029	9/11/96	0730			X		X		X				X			2	N/A	-03
1101W2	9/11/96	1645			X		X		X				X			2	10.0 ppm	-04
1001R5	9/11/96	1075			X		X		X				X			2	N/A	-05
1102W2	9/11/96	1430			X		X		X				X			2	0.2 ppm	-06
0902W2	9/11/96	0935			X		X		X				X			2	27.9 ppm	-07
4304W2	9/11/96	1415			X		X		X				X			2	0 ppm	analyze water, not filtered/lab
4303W2	9/11/96	1530			X		X		X				X			2	57.0 ppm	analyze water, TOC filtered/lab
5502W2	9/10/96	0230			X		X		X				X			2	0 ppm	-10
4301W2	9/11/96	1105			X		X		X				X			2	764 ppm	analyze water, not filtered/lab
4302W2	9/11/96	1005			X		X		X				X			2	0.2 ppm	analyze water, not filtered/lab
4304R6	9/11/96	1405	↓		X		X		X				X			2	N/A	-13

RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time
[signature]	9/12/96	[signature] Buckhart	9/12/96
COMPANY NAME: SAIC	1300	COMPANY NAME: GEL	1300
RECEIVED BY:	Date/Time	RELINQUISHED BY:	Date/Time
COMPANY NAME:		COMPANY NAME:	
RELINQUISHED BY:	Date/Time	RECEIVED BY: [signature]	Date/Time 9-12-96
COMPANY NAME:		COMPANY NAME: GEL	1330

TOTAL NUMBER OF CONTAINERS: 76

Cooler ID: 224 Dtd. 9-12-96

Cooler Temperature: -

25

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CHAIN OF CUSTODY RECORD

COC NO.: G0043

PROJECT NAME: Fort Stewart UST Sites

PROJECT NUMBER: 0003

PROJECT MANAGER: Chris Potter

Sampler (Signature): Sharon Stoller (Printed Name)

LABORATORY NAME: GEL

LABORATORY ADDRESS: 2040 Savage Road, Charleston, SC 29417

PHONE NO: (803) 556-8171

REQUESTED PARAMETERS

Sample ID	Date Collected	Time Collected	Matrix	BTEX, DRO	BTEX	PAH, Lead, DRO	PAH	Lead	DRO	PAH, Lead, TPH	PAH, TPH	PAH, DRO	TPH	No. of Bottles/Vials	DVA SCREENING	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
SS02W2	9/10/96	1320	WATER				2							2	0 ppm	-11
SS03W2	9/10/96	1330	WATER				2							2	0 ppm	-12
SS04W2	9/10/96	1340	WATER				2							2	0 ppm	-13
SS01W2	9/10/96	1300	WATER				2							2	0 ppm	
SS05W2	9/10/96	1330	WATER				2	1						6	0 ppm	221-12 thru -13

cc: 9/12/96

DVA SCREENING: 10.6 ppm (SS01W2); 221-10 thru -11

RELINQUISHED BY: [signature]	Date/Time: 9/12/96 1300	RECEIVED BY: [signature]	Date/Time: 9/12/96 1300	TOTAL NUMBER OF CONTAINERS: 12
COMPANY NAME: SAIC		COMPANY NAME: GEL		Cooler ID: #215
RECEIVED BY:	Date/Time	RELINQUISHED BY:	Date/Time	Cooler Temperature: 2°
COMPANY NAME:		COMPANY NAME:		
RELINQUISHED BY:	Date/Time	RECEIVED BY: [signature]	Date/Time: 9.12.96 1320	
COMPANY:		COMPANY NAME: GEL		

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Science Applications International Corporation
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CHAIN OF CUSTODY RECORD

COC NO.: 60040

PROJECT NAME: Fort Stewart UST Sites

PROJECT NUMBER: 0003

PROJECT MANAGER: Chris Potter

Sampler (Signature): [signature] (Printed Name): SARAH STALLER

REQUESTED PARAMETERS

Sample ID	Date Collected	Time Collected	Matrix	BTEX, GRO	BTEX	PAH, Lead, DRO	PAH	Lead	DRO	PAH, LEAD, TPH	PAH, TPH	PAH, DRO	TPH	No. of Bottles/Vials	OVA SCREENING	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
409.W2	9/11/96	1340	WATER				X							3	not recorded	220-04.1
5592W2	9/11/96	0930	WATER				X	1						3	Ø ppm	221-05.3
4332W2	9/11/96	1005	WATER				X	1						3	Ø.3ppm	analyze w/ 8270 product list
4301W2	9/11/96	1105	WATER				X	1						3	Ø ppm	analyze w/ 8270 product list
0902W2	9/11/96	2935	WATER				X							3	22.9ppm	220-05.1

SIS 9/11/96

LABORATORY NAME: GEL

LABORATORY ADDRESS: 2040 Savage Road, Charleston, SC 29417

PHONE NO: (803) 556-8171

RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time
[signature]	9/12/96	[signature]	9/12/96
COMPANY NAME: SAIC	1300	COMPANY NAME: GEL	1300
RECEIVED BY:	Date/Time	RELINQUISHED BY:	Date/Time
COMPANY NAME:		COMPANY NAME:	
RELINQUISHED BY:	Date/Time	RECEIVED BY: [signature]	Date/Time 9-12-96
COMPANY NAME:		COMPANY NAME: GEL	1310

TOTAL NUMBER OF CONTAINERS: 13

Cooler ID: #177

Cooler Temperature: 4.0

GENERAL ENGINEERING LABORATORIES

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Client: Science Applications International Corp.
P.O. Box 2502
800 Oak Ridge Turnpike
Oak Ridge, Tennessee 37831
Contact: Mr. Nile Luedtke
Project Description: Ft. Stewart UST Sites

cc: SAIC00396 Report Date: October 28, 1996

Sample ID	: 0902B1
Lab ID	: 9609227-02
Matrix	: Soil
Date Collected	: 09/11/96
Date Received	: 09/12/96
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Organic Prep											
Evaporative Loss @ 105 C		13.0	1.00	1.00	wt%	1.0	DDT	09/23/96	1540	90959	1
General Chemistry											
Total Rec. Petro. Hydrocarbons	JB	8.37	7.77	11.5	mg/kg U	1.0	EAN	09/19/96	1100	90769	2

M = Method	Method-Description
M 1	EPA 3550
M 2	EPA 418.1 Modified

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

Data reported in mass/mass units is reported as 'dry weight'.

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29414
(803) 556-8171 • Fax (803) 766-1178

9609227-02

1B

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

0902B1

Lab Name: GENERAL ENGINEERING LABOR Contract:

Lab Code: Case No.: SAS No.: SDG No.: 69227S

Matrix: (soil/water) SOIL Lab Sample ID: 9609227-02

Sample wt/vol: 30.3 (g/mL) g Lab File ID: 1M458

Level: (low/med) LOW Date Received: 09/12/96

% Moisture: 13 decanted: (Y/N) N Date Extracted: 09/20/96

Concentrated Extract Volume: 1(mL) Date Analyzed: 09/26/96

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
121-14-2	~~2,4-dinitrotoluene~~	~~380~~	~~U~~
106-46-7	~~1,4-dichlorobenzene~~	~~380~~	~~U~~
621-64-7	~~N-nitroso-di-n-propylamine~~	~~380~~	~~U~~
120-82-1	~~1,2,4-trichlorobenzene~~	~~380~~	~~U~~
91-20-3	naphthalene	380	U
91-58-7	2-chloronaphthalene	380	U
209-96-8	acenaphthylene	380	U
83-32-9	acenaphthene	380	U
86-73-7	fluorene	380	U
85-01-8	phenanthrene	380	U
120-12-7	anthracene	380	U
206-44-0	fluoranthene	380	U
129-00-0	pyrene	380	U
56-55-3	benzo(a)anthracene	380	U
218-01-9	chrysene	380	U
205-99-2	benzo(b)fluoranthene	380	U
207-08-9	benzo(k)fluoranthene	380	U
50-32-8	benzo(a)pyrene	380	U
193-39-5	indeno(1,2,3-cd)pyrene	380	U
53-70-3	dibenz(a,h)anthracene	380	U
191-24-2	benzo(g,h,i)perylene	380	U

PAH only

µ/kg 11/7/97

U

DATA VALIDATION COPY

1D

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0902B1

Lab Name: GENERAL ENGINEERING LABS. Contract:

Lab Code: Case No.: SAS No.: SDG No.: 69227S

Matrix: (soil/water) SOIL Lab Sample ID: 9609227-02

Sample wt/vol: 5.0 (g/mL) g Lab File ID: B1A514

% Moisture: 13 decanted: (Y/N) N Date Received: 09/12/96

Extraction: (SepF/Cont/Sonc) PURGETRAP Date Extracted:N/A

Concentrated Extract Volume:_____(uL) Date Analyzed: 09/20/96

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q	
71-43-2	Benzene	5.7	U	u
108-88-3	Toluene	5.7	U	u
100-41-4	Ethylbenzene	17		=
1330-20-7	Xylenes (total)	5.7	U	u

Client: Science Applications International Corp.
P.O. Box 2502
800 Oak Ridge Turnpike
Oak Ridge, Tennessee 37831
Contact: Mr. Nile Luedtke
Project Description: Ft. Stewart UST Sites

DATA VALIDATION COPY

cc: SAIC00396 Report Date: October 26, 1996

Sample ID	: 0901B1
Lab ID	: 9609226-07
Matrix	: Soil
Date Collected	: 09/10/96
Date Received	: 09/12/96
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	VAL QUAL	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Organic Prep												
Evaporative Loss @ 105 C		20.0		1.00	1.00	wt%	1.0	DDT	09/20/96	1725	90858	1
neral Chemistry												
otal Rec. Petro. Hydrocarbons	J B	28.0	U F01, F07	8.45	12.5	mg/kg	1.0	SDW	09/16/96	1100	90586	2

M = Method	Method-Description
M 1	EPA 3550
M 2	EPA 418.1 Modified

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

Data reported in mass/mass units is reported as 'dry weight'.

0230

9609226-07

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0901B1

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 69226S

Matrix: (soil/water) SOIL Lab Sample ID: 9609226-07

Sample wt/vol: 30.5 (g/mL) g Lab File ID: 1M164

Level: (low/med) LOW Date Received: 09/12/96

% Moisture: 20 decanted: (Y/N) N Date Extracted: 09/20/96

Concentrated Extract Volume: 1(mL) Date Analyzed: 09/24/96

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
91-20-3	naphthalene	410	U
91-58-7	2-chloronaphthalene	410	U
209-96-8	acenaphthylene	410	U
83-32-9	acenaphthene	410	U
86-73-7	fluorene	410	U
85-01-8	phenanthrene	410	U
120-12-7	anthracene	410	U
206-44-0	fluoranthene	410	U
129-00-0	pyrene	410	U
56-55-3	benzo(a)anthracene	410	U
218-01-9	chrysene	410	U
205-99-2	benzo(b)fluoranthene	410	U
207-08-9	benzo(k)fluoranthene	410	U
50-32-8	benzo(a)pyrene	410	U
193-39-5	indeno(1,2,3-cd)pyrene	410	U
53-70-3	dibenz(a,h)anthracene	410	U
191-24-2	benzo(g,h,i)perylene	410	U

U

DATA VALIDATION COPY

1D

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0901B1

Lab Name: GENERAL ENGINEERING LABS. Contract:

Lab Code: Case No.: SAS No.: SDG No.: 69226S

Matrix: (soil/water) SOIL Lab Sample ID: 9609226-07

Sample wt/vol: 5.0 (g/mL) g Lab File ID: B2A712

% Moisture: 20 decanted: (Y/N) N Date Received: 09/12/96

Extraction: (SepF/Cont/Sonc) PURGETRAP Date Extracted:N/A

Concentrated Extract Volume: _____(uL) Date Analyzed: 09/22/96

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q	
71-43-2	Benzene	6.2	U	U
108-88-3	Toluene	19		=
100-41-4	Ethylbenzene	6.2	U	U
1330-20-7	Xylenes (total)	6.2	U	U

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Science Applications International Corporation
800 Oak Ridge Turnpike, Oak Ridge, TN 37831 (423) 481-8800

CHAIN OF CUSTODY RECORD

COC NO.: 6048

PROJECT NAME: Fort Stewart UST Sites

PROJECT NUMBER: 0003

PROJECT MANAGER: Chris Potter

Sampler (Signature): [signature] (Printed Name): SHARON STOLLER

LABORATORY NAME: GEL

LABORATORY ADDRESS: 2040 Savage Road, Charleston, SC 29417

PHONE NO: (803) 556-8171

REQUESTED PARAMETERS

Sample ID	Date Collected	Time Collected	Matrix	BTEX, GRO	BTEX	PAH, Lead, DRO	PAH	Lead	DRO	TPH-DRO (418.1)	TPH, 418.1	TPH-DRO	TPH	No. of Bottles/Vials	OVA SCREENING	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
4304B1	9/11/96	1320	SOIL											2	0 ppm	228-17 .6
4901D1	9/11/96	1323	SOIL							1				2	0 ppm	226-20 .5
4902B1	9/11/96	1453	SOIL	1		1								2	0 ppm	227-08 .7
4902A1	9/11/96	1450	SOIL	1								1		2	0 ppm	227-09 .8
4302D1	9/11/96	0940	SOIL											2	0 ppm	228-13 .6
4302B1	9/11/96	0985	SOIL							1				2	203 ppm	227-05 .5
4301C1	9/11/96	1100	SOIL							1				2	516 ppm	227-06 ↓
4301B1	9/11/96	1050	SOIL											2	40.2 ppm	228-14 .6
1001B1	9/11/96	1056	SOIL							1				2	1737 ppm	227-01 .5
0902B1	9/11/96	0925	SOIL							1				2	0 ppm	-02 .5
4601D1	9/11/96	1034	SOIL							1				2	0 ppm	-03
4602B1	9/11/96	0920	SOIL							1				2	0 ppm	-04 ↓
5603C1	9/11/96	1427	SOIL											2	0 ppm	228-15 .6

RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time
[signature]	9/12/96	[signature]	9/12/96
COMPANY NAME: SAIC	1300	COMPANY NAME: GEL	1305
RECEIVED BY:	Date/Time	RELINQUISHED BY:	Date/Time
COMPANY NAME:		COMPANY NAME:	
RELINQUISHED BY:	Date/Time	RECEIVED BY: [signature]	Date/Time
COMPANY NAME:		COMPANY NAME: SAIC	9-12-96 1305

TOTAL NUMBER OF CONTAINERS: 32

Cooler ID: #748

Cooler Temperature: 3°

Change sample #15 discription to 5603C3 instead of 5603C1

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a International Corporation
800 Oak Ridge Turnpike, Oak Ridge, TN 37831 (423) 481-4800

CHAIN OF CUSTODY RECORD

COC NO.: G00046

PROJECT NAME: Fort Stewart UST Sites

PROJECT NUMBER: 0003

PROJECT MANAGER: Chris Potter

Sampler (Signature): [signature] (Printed Name): SHARON SOWER

LABORATORY NAME: GEL

LABORATORY ADDRESS: 2040 Savage Road, Charleston, SC 29417

PHONE NO:(803) 556-8171

REQUESTED PARAMETERS

Sample ID	Date Collected	Time Collected	Matrix	BTEX, GRO	BTEX	PAH, Lead, DRO	PAH	Lead	DRO	TCLP, TCLP, TPH	TCLP, TPH	PAH, DRO	TPH	-	-	No. of Bottles/Vials	OVA SCREENING	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
5602E3	9/10/96	1043	SOIL							1						2	0 ppm	226-03 .5
5603E1	9/10/96	1443	SOIL							1						2	0 ppm	-04
2602B1	9/10/96	1320	SOIL							1						2	132 ppm	-05
0801B1	9/10/96	1435	SOIL							1						2	5264 ppm	-06
0801A1	9/10/96	1435	SOIL													2	514 ppm	228-03 .6
0801B1	9/10/96	1610	SOIL							1						2	0 ppm	226-07 .5
5504D1	9/10/96	1475	SOIL							1						2	13 ppm	-08
5504A1	9/10/96	1410	SOIL													2	0 ppm	228-04 .6
5503B1	9/10/96	1155	SOIL													2	0 ppm	228-05
5503C1	9/10/96	1145	SOIL							1						2	0 ppm	226-09 .5
5502D1	9/10/96	1545	SOIL							1						2	0 ppm	226-10
5502B1	9/10/96	1530	SOIL													2	0 ppm	228-06.6
5501C1	9/10/96	1045	SOIL							1						2	340 ppm	226-11 .5

	Date/Time		Date/Time	
RELINQUISHED BY: [signature]	9/10/96 1300	RECEIVED BY: [signature]	9-12-96 1310	TOTAL NUMBER OF CONTAINERS: 48
COMPANY NAME: SOIL		COMPANY NAME: GEL		Cooler ID: #202
RECEIVED BY:	Date/Time	RELINQUISHED BY:	Date/Time	Cooler Temperature: 3.0
COMPANY NAME:		COMPANY NAME:		
RELINQUISHED BY:	Date/Time	RECEIVED BY: [signature]	Date/Time 9-12-96 1330	
COMPANY NAME:		COMPANY NAME: GEL		

DATA VALIDATION COPY

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0702W2

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 69220W

Matrix: (soil/water) GROUNDH2O Lab Sample ID: 9609220-17

Sample wt/vol: 500 (g/mL) mL Lab File ID: 1M105

Level: (low/med) LOW Date Received: 09/12/96

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/14/96

Concentrated Extract Volume: 0.5(mL) Date Analyzed: 09/23/96

Injection Volume: 1(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
91-20-3	naphthalene	10.0	U
91-58-7	2-chloronaphthalene	10.0	U
209-96-8	acenaphthylene	10.0	U
83-32-9	acenaphthene	10.0	U
86-73-7	fluorene	10.0	U
85-01-8	phenanthrene	10.0	U
120-12-7	anthracene	10.0	U
206-44-0	fluoranthene	10.0	U
129-00-0	pyrene	10.0	U
56-55-3	benzo(a)anthracene	10.0	U
218-01-9	chrysene	10.0	U
205-99-2	benzo(b)fluoranthene	10.0	U
207-08-9	benzo(k)fluoranthene	10.0	U
50-32-8	benzo(a)pyrene	10.0	U
193-39-5	indeno(1,2,3-cd)pyrene	10.0	U
53-70-3	dibenz(a,h)anthracene	10.0	U
191-24-2	benzo(g,h,i)perylene	10.0	U

U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0702W2

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: 69223W

Matrix: (soil/water) WATER Lab Sample ID: 9609223-07

Sample wt/vol: 20 (g/ml) ml Lab File ID: 1A219

Level: (low/med) LOW Date Received: 09/12/96

% Moisture: not dec. _____ Date Analyzed: 09/17/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

DATA VALIDATION COPY

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q	
71-43-2	benzene	5.0	U	U
108-88-3	toluene	~~0.56~~ 5.0	JB	U, FB1, FB6
100-41-4	ethylbenzene	5.0	U	U
1330-20-7	xylenes (total)	5.0	U	U

MAP 1/7/97

FORM I VOA OLM03.0

DATA VALIDATION COPY

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0701W2

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 69220W

Matrix: (soil/water) GROUNDH2O Lab Sample ID: 9609220-16

Sample wt/vol: 500 (g/mL) mL Lab File ID: 1M104

Level: (low/med) LOW Date Received: 09/12/96

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/14/96

Concentrated Extract Volume: 0.5(mL) Date Analyzed: 09/23/96

Injection Volume: 1(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
91-20-3	naphthalene	10.0	U
91-58-7	2-chloronaphthalene	10.0	U
209-96-8	acenaphthylene	10.0	U
83-32-9	acenaphthene	10.0	U
86-73-7	fluorene	10.0	U
85-01-8	phenanthrene	10.0	U
120-12-7	anthracene	10.0	U
206-44-0	fluoranthene	10.0	U
129-00-0	pyrene	10.0	U
56-55-3	benzo(a)anthracene	10.0	U
218-01-9	chrysene	10.0	U
205-99-2	benzo(b)fluoranthene	10.0	U
207-08-9	benzo(k)fluoranthene	10.0	U
50-32-8	benzo(a)pyrene	10.0	U
193-39-5	indeno(1,2,3-cd)pyrene	10.0	U
53-70-3	dibenz(a,h)anthracene	10.0	U
191-24-2	benzo(g,h,i)perylene	10.0	U

U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0701W2

Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: 69223W

Matrix: (soil/water) WATER Lab Sample ID: 9609223-05

Sample wt/vol: 20 (g/ml) ml Lab File ID: 1A304

Level: (low/med) LOW DATA VALIDATION COPY Date Received: 09/12/96

% Moisture: not dec. _____ Date Analyzed: 09/18/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q	
71-43-2	benzene	5.0	U	u
108-88-3	toluene	5.0 ~~0.55~~	JB	u, FD1, FD6
100-41-4	ethylbenzene	5.0	U	u
1330-20-7	xylenes (total)	5.0	U	u

USE MRP 11/7/97

FORM I VOA OLM03.0

SAIC An Employee-Owned Company
Science Applications International Corporation
800 Oak Ridge Turnpike, Oak Ridge, TN 37831 (423) 481-4600

CHAIN OF CUSTODY RECORD

COC NO.: G0052

PROJECT NAME: Fort Stewart UST Sites

PROJECT NUMBER: 0003

PROJECT MANAGER: Chris Potter

Sampler (Signature): [signature] (Printed Name): Sharon Stoller

LABORATORY NAME: GEL

LABORATORY ADDRESS: 2040 Savage Road Charleston, SC 29417

PHONE NO: (803) 556-8171

Sample ID	Date Collected	Time Collected	Matrix	BTEX, GRO	BTEX	PAH, Lead, DRO	PAH	Lead	DRO	PAH, LEAD, TPH	PAH, TPH	PAH, DRO	TPH				No. of Bottles/Vials	OVA Screening	Observations, Comments, Special Instructions
0702W2	9/10/96	0935	WATER		2												2	90.5 ppm	223-07.4
5503W2	9/10/96	1330			2												2	0 ppm	-08
5401W2	9/10/96	0920			2												2	31.3 ppm	-09
5604W2	9/10/96	1115			2												2	0 ppm	-10
5604W4	9/10/96	1115			2												2	0 ppm	-11
0901W2	9/10/96	1700			2												2	0 ppm	-12
0601W2	9/10/96	1620			2												2	10.6 ppm	-13
0802W2	9/10/96	1330			2												2	0 ppm	-14
0802W4	9/10/96	1330			2												2	0 ppm	-15
5002W2	9/10/96	1645			2												2	0 ppm	-16
4902W2	9/10/96	0930			2												2	23.8 ppm	-17
5504W2	9/10/96	1515															2	73.0 ppm	-18
4902W4	9/10/96	0930			2												2	23.9 ppm	-19

RELINQUISHED BY: [signature]	Date/Time: 9/10/96 1300	RECEIVED BY: B. [signature]	Date/Time: 9/12/96 1300
COMPANY NAME: SAIC		COMPANY NAME: GEL	
RECEIVED BY:	Date/Time	RELINQUISHED BY:	Date/Time
COMPANY NAME:		COMPANY NAME:	
RELINQUISHED BY:	Date/Time	RECEIVED BY: [signature]	Date/Time: 9-12-96 13:00
COMPANY NAME:		COMPANY NAME: RDEL	

TOTAL NUMBER OF CONTAINERS:

Cooler ID: #76

Cooler Temperature:

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800 Oak Ridge Turnpike, Oak Ridge, TN 37831 (423) 481-8600

CHAIN OF CUSTODY RECORD

COC NO.: G6051

PROJECT NAME: Fort Stewart UST Sites

PROJECT NUMBER: 0003

PROJECT MANAGER: Chris Potter

Sampler (Signature): [signature] (Printed Name): SHARON SAUER

LABORATORY NAME: GEL

LABORATORY ADDRESS: 2040 Savage Road, Charleston, SC 29417

PHONE NO:(803) 556-8171

REQUESTED PARAMETERS

Sample ID	Date Collected	Time Collected	Matrix	BTEX, GRO	BTEX	PAH, Lead, DRO	PAH	Lead	DRO	TPH, LEAD, TPH	PAH, TPH	PAH, DRO	TPH			No. of Bottles/Vials	OVA SCREENING	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
TB0029	9/11/96	0730	WATER		2											2	N/A	222-14
10286	9/11/96	1750			2											2	N/A	-15
430325	9/11/96	1585			2											2	N/A	-16
4701W2	9/11/96	1340			2											2	nd recorded	-17
4601W2	9/11/96	1050			2											2	0 ppm	-18
4602W2	9/11/96	0910			2											2	nd recorded	-19
4602W4	9/11/96	0940			2											2	0 ppm	-20
TB0030	9/11/96	0730			2												N/A	9609223-01
4902W2	9/11/96	1500			2											2	0 ppm	-02
5504RS	9/10/96	1360			2											2	N/A	-03
TB0026	9/10/96	0730			2												N/A	-04
0701W2	9/11/96	1135			2											2	154.5 ppm	-05
TB0027	9/11/96	0730															N/A	-06

RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time	TOTAL NUMBER OF CONTAINERS:	Cooler Temperature:
[signature]	9/11/96	[signature]	9/12/96		
COMPANY NAME: SAIC	1300	COMPANY NAME:	1750	Cooler ID: #76	
RECEIVED BY:	Date/Time	RELINQUISHED BY:	Date/Time		
COMPANY NAME:		COMPANY NAME:			
RELINQUISHED BY:	Date/Time	RECEIVED BY: [signature]	Date/Time 9.12.96		
COMPANY NAME:		COMPANY NAME: GEL	1300		

SAIC — An Employee-Owned Company
Science Applications International Corporation
*800 Oak Ridge Turnpike, Oak Ridge, TN 37831 (423) 481-4000

CHAIN OF CUSTODY RECORD

COC NO.: G0045

PROJECT NAME: Fort Stewart UST Sites

PROJECT NUMBER: 0003

PROJECT MANAGER: Chris Potter

Sampler (Signature): [signature] (Printed Name): Shannon Stowe

LABORATORY NAME: GEL

LABORATORY ADDRESS: 2040 Savage Road, Charleston, SC 29417

PHONE NO:(803) 556-8171

Sample ID	Date Collected	Time Collected	Matrix	BTEX, GRO	BTEX	PAH, Lead, DRO	PAH	Lead	DRO	PAH, Lead, TPH	PAH, TPH	PAH, DRO	TPH				No. of Bottles/Vials	OVA SCREENING	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
490GW4	9/10/96	2930	WATER				2										2	29.3 ppm	220-15.1
340 W2	9/10/96	0920	WATER				2	1									2	84.3 ppm	221-15.3
0701W2	9/10/96	1135	WATER				2										2	154.5 ppm	220-16 .1
0702W2	9/10/96	2035	WATER				2										2	48.5 ppm	220-17 ↓
S60 2 D1	9/10/96	1622	SOIL		1				1								2	2.5 ppm	226-01 .5
S60 2 E1	9/10/96	1630	SOIL		1						1						2	0 ppm	228-01 .6
S60 2 B1	9/10/96	1757	SOIL		1						1						2	0 ppm	228-02 ↓
S60 1 C1	9/10/96	1306	SOIL		1				1								2	0 ppm	226-02.5
		SLS	9/12/96																

RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time	TOTAL NUMBER OF CONTAINERS: 17	Cooler Temperature:
[signature]	9/12/96 1300	[signature]	9/12/96 1500	Cooler ID: #161	3.6
COMPANY NAME: SAIC		COMPANY NAME: SAIC			
RECEIVED BY:	Date/Time	RELINQUISHED BY:	Date/Time		
COMPANY NAME:		COMPANY NAME:			
RELINQUISHED BY:	Date/Time	RECEIVED BY: [signature]	Date/Time 9-12-96 1300		
COMPANY NAME:		COMPANY NAME: GEL			

F-FOR

09-12-1996 13:31

P. 1

23

DATA VALIDATION
PAPER

Client: Science Applications International Corp.
P.O. Box 2502
800 Oak Ridge Turnpike
Oak Ridge, Tennessee 37831
Contact: Mr. Nile Luedtke
Project Description: Ft. Stewart UST Sites

cc: SAIC00396 Report Date: October 26, 1996

Sample ID : 0702B1
Lab ID : 9609226-13
Matrix : Soil
Date Collected : 09/10/96
Date Received : 09/12/96
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	VAL QUAL	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Organic Prep												
Evaporative Loss @ 105 C		18.0		1.00	1.00	wt%	1.0	DDT	09/23/96	1540	90959	1
General Chemistry												
Total Rec. Petro. Hydrocarbons	U	7.69	UJ P01	8.25	12.2	mg/kg	1.0	EAN	09/19/96	1100	90769	2

M = Method	Method-Description
M 1	EPA 3550
M 2	EPA 418.1 Modified

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

Data reported in mass/mass units is reported as 'dry weight'.

02358

9609226-13

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0702B1

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 69226S

Matrix: (soil/water) SOIL Lab Sample ID: 9609226-13

Sample wt/vol: 30.5 (g/mL) g Lab File ID: 1M170

Level: (low/med) LOW Date Received: 09/12/96

% Moisture: 18 decanted: (Y/N) N Date Extracted: 09/20/96

Concentrated Extract Volume: 1(mL) Date Analyzed: 09/24/96

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
91-20-3	naphthalene	399	U
91-58-7	2-chloronaphthalene	399	U
209-96-8	acenaphthylene	399	U
83-32-9	acenaphthene	399	U
86-73-7	fluorene	399	U
85-01-8	phenanthrene	399	U
120-12-7	anthracene	399	U
206-44-0	fluoranthene	399	U
129-00-0	pyrene	399	U
56-55-3	benzo(a)anthracene	399	U
218-01-9	chrysene	399	U
205-99-2	benzo(b)fluoranthene	399	U
207-08-9	benzo(k)fluoranthene	399	U
50-32-8	benzo(a)pyrene	399	U
193-39-5	indeno(1,2,3-cd)pyrene	399	U
53-70-3	dibenz(a,h)anthracene	399	U
191-24-2	benzo(g,h,i)perylene	399	U

U

DATA VALIDATION

1D

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0702B1

Lab Name: GENERAL ENGINEERING LABS. Contract:

Lab Code: Case No.: SAS No.: SDG No.: 69226S

Matrix: (soil/water) SOIL Lab Sample ID: 9609226-13

Sample wt/vol: 5.0 (g/mL) g Lab File ID: B2A718

% Moisture: 18 decanted: (Y/N) N Date Received: 09/12/96

Extraction: (SepF/Cont/Sonc) PURGETRAP Date Extracted:N/A

Concentrated Extract Volume: _____(uL) Date Analyzed: 09/22/96

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q	
71-43-2	Benzene	6.1	U	U
108-88-3	Toluene	8.5		=
100-41-4	Ethylbenzene	6.1	U	U
1330-20-7	Xylenes (total)	10		=

DATA VALIDATION COPY

Client: Science Applications International Corp.
P.O. Box 2502
800 Oak Ridge Turnpike
Oak Ridge, Tennessee 37831
Contact: Mr. Nile Luedtke
Project Description: Ft. Stewart UST Sites

cc: SAIC00396 Report Date: October 26, 1996

Sample ID	: 0701B1
Lab ID	: 9609226-14
Matrix	: Soil
Date Collected	: 09/10/96
Date Received	: 09/12/96
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	VAL QUAL	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Organic Prep												
Evaporative Loss @ 105 C		11.0		1.00	1.00	wt%	1.0	DDT	09/23/96	1540	90959	1
General Chemistry												
Total Rec. Petro. Hydrocarbons	B	77.5	J P01, F08	7.57	11.2	mg/kg	1.0	EAN	09/19/96	1100	90769	2

M = Method	Method-Description
M 1	EPA 3550
M 2	EPA 418.1 Modified

Notes:
The qualifiers in this report are defined as follows:
ND indicates that the analyte was not detected at a concentration greater than the detection limit.
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

Data reported in mass/mass units is reported as 'dry weight'.

0236

9609226-14

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0701B1

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 69226S

Matrix: (soil/water) SOIL Lab Sample ID: 9609226-14

Sample wt/vol: 30.6 (g/mL) g Lab File ID: 1M171

Level: (low/med) LOW Date Received: 09/12/96

% Moisture: 11 decanted: (Y/N) N Date Extracted: 09/20/96

Concentrated Extract Volume: 1(mL) Date Analyzed: 09/24/96

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
91-20-3	naphthalene	367	U
91-58-7	2-chloronaphthalene	367	U
209-96-8	acenaphthylene	367	U
83-32-9	acenaphthene	367	U
86-73-7	fluorene	367	U
85-01-8	phenanthrene	367	U
120-12-7	anthracene	367	U
206-44-0	fluoranthene	367	U
129-00-0	pyrene	367	U
56-55-3	benzo(a)anthracene	367	U
218-01-9	chrysene	367	U
205-99-2	benzo(b)fluoranthene	367	U
207-08-9	benzo(k)fluoranthene	367	U
50-32-8	benzo(a)pyrene	367	U
193-39-5	indeno(1,2,3-cd)pyrene	367	U
53-70-3	dibenz(a,h)anthracene	367	U
191-24-2	benzo(g,h,i)perylene	367	U

U

DATA VALIDATION COPY

1D

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0701B1

Lab Name: GENERAL ENGINEERING LABS. Contract:

Lab Code: Case No.: SAS No.: SDG No.: 69226S

Matrix: (soil/water) SOIL Lab Sample ID: 9609226-14

Sample wt/vol: 5.0 (g/mL) g Lab File ID: B2A719

% Moisture: 11 decanted: (Y/N) N Date Received: 09/12/96

Extraction: (SepF/Cont/Sonc) PURGETRAP Date Extracted:N/A

Concentrated Extract Volume: _____(uL) Date Analyzed: 09/23/96

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q	
71-43-2	Benzene	5.6	U	U
108-88-3	Toluene	5.6	U	U
100-41-4	Ethylbenzene	5.6	U	U
1330-20-7	Xylenes (total)	5.9		=

An Employee-Owned Company
Science Applications International Corporation
800 Oak Ridge Turnpike, Oak Ridge, TN 37831 (423) 481-4000

CHAIN OF CUSTODY RECORD

COC NO.: 60047

PROJECT NAME: Fort Stewart UST Sites

PROJECT NUMBER: 0003

PROJECT MANAGER: Chris Potter

Sampler (Signature): [signature] (Printed Name): SHARON STOLLE

LABORATORY NAME: GEL

LABORATORY ADDRESS: 2040 Savage Road, Charleston, SC 29417

PHONE NO:(803) 556-8171

REQUESTED PARAMETERS

Sample ID	Date Collected	Time Collected	Matrix	BTEX, ORO	BTEX	PAH, Lead, DRO	PAH	Lead	DRO	GRO, LRO, TPH	PAH, TPH	PAH, DRO	TPH				No. of Bottles/Vials	OVA SCREENING	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
X 550A1	9/10/96	1040	SOIL		1												2	2 ppm	228-07 .6
X 4902C1	9/10/96	0915	SOIL		1												2	4.4 ppm	228-08 ↓
X 4902A1	9/10/96	0910	SOIL		1					1							2	15.6 ppm	226-12 .5
X 0702B1	9/10/96	0910	SOIL		1					1							2	6.3 ppm	-13
X 0701B1	9/10/96	1105	SOIL		1					1							2	49.7 ppm	-14
X 1102B1	9/11/96	1420	SOIL		1					1							2	0 ppm	-15
X 1101B1	9/11/96	1620	SOIL		1					1							2	12.2 ppm	-16
X 1002B1	9/11/96	1245	SOIL		1					1							2	7.8 ppm	-17 ↓
X 4303C1	9/11/96	1515	SOIL		1						1						2	0 ppm	228-09-6
X 4303B1	9/11/96	1450	SOIL		1					1							2	20.2 ppm	226-18 .5
X 4304D1	9/11/96	1350	SOIL		1					1							2	6 ppm	-19 .5
		SS 9/12/96																	

RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time	TOTAL NUMBER OF CONTAINERS: 48	Cooler Temperature:
[signature]	9/12/96	[signature]	9/12/96	Cooler ID: #202	3.0
COMPANY NAME: SAIC	1309	COMPANY NAME: GEL	1315		
RECEIVED BY:	Date/Time	RELINQUISHED BY:	Date/Time		
COMPANY NAME:		COMPANY NAME:			
RELINQUISHED BY:	Date/Time	RECEIVED BY: [signature]	Date/Time 9-12-96		
COMPANY NAME:		COMPANY NAME: GEL	1300		

FORM 12

APPENDIX C-3

Facility ID #9-089011
USTs 17, 19, 21, and 23

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0402W2

Name: GENERAL ENGINEERING LABOR Contract:

Lab Code: Case No.: SAS No.: SDG No.: 69090W

Matrix: (soil/water) GROUNDH2O Lab Sample ID: 9609090-14

Sample wt/vol: 500 (g/mL) mL Lab File ID: 2K228

Level: (low/med) LOW Date Received: 09/08/96

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/09/96

Concentrated Extract Volume: 0.5(mL) Date Analyzed: 09/11/96

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

USE

11/7/97

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
		PAH ONLY	
121-14-2	~~2,4-dinitrotoluene~~	~~10.0~~	~~U~~
106-46-7	~~1,4-dichlorobenzene~~	~~10.0~~	~~U~~
621-64-7	~~N-nitroso-di-n-propylamine~~	~~10.0~~	~~U~~
120-82-1	~~1,2,4-trichlorobenzene~~	~~10.0~~	~~U~~
91-20-3	naphthalene	10.0	U
91-58-7	2-chloronaphthalene	10.0	U
209-96-8	acenaphthylene	10.0	U
83-32-9	acenaphthene	10.0	U
86-73-7	fluorene	10.0	U
85-01-8	phenanthrene	10.0	U
120-12-7	anthracene	10.0	U
206-44-0	fluoranthene	10.0	U
129-00-0	pyrene	10.0	U
56-55-3	benzo(a)anthracene	10.0	U
218-01-9	chrysene	10.0	U
205-99-2	benzo(b)fluoranthene	10.0	U
207-08-9	benzo(k)fluoranthene	10.0	U
50-32-8	benzo(a)pyrene	10.0	U
193-39-5	indeno(1,2,3-cd)pyrene	10.0	U
53-70-3	dibenz(a,h)anthracene	10.0	U
191-24-2	benzo(g,h,i)perylene	10.0	U

DATA VALIDATION COPY

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0402W2

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: 69093W

Matrix: (soil/water) WATER Lab Sample ID: 9609093-10

Sample wt/vol: 20 (g/ml) ml Lab File ID: 1Z424

Level: (low/med) LOW Date Received: 09/08/96

% Moisture: not dec. _____ Date Analyzed: 09/12/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q	
71-43-2	benzene	5.0	U	U
108-88-3	toluene	5.0	U	U
100-41-4	ethylbenzene	0.70	J	J
1330-20-7	xylenes (total)	0.15	J	J

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0401W2

Lab Name: GENERAL ENGINEERING LABOR Contract:

Lab Code: Case No.: SAS No.: SDG No.: 69090W

Matrix: (soil/water) GROUNDH2O Lab Sample ID: 9609090-11

Sample wt/vol: 500 (g/mL) mL Lab File ID: 2K221

Level: (low/med) LOW Date Received: 09/08/96

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 09/09/96

Concentrated Extract Volume: 0.5(mL) Date Analyzed: 09/10/96

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
91-20-3	naphthalene	18.6	
91-58-7	2-chloronaphthalene	10.0	U
209-96-8	acenaphthylene	10.0	U
83-32-9	acenaphthene	10.0	U
86-73-7	fluorene	10.0	U
85-01-8	phenanthrene	10.0	U
120-12-7	anthracene	6.0	J
206-44-0	fluoranthene	10.0	U
129-00-0	pyrene	10.0	U
56-55-3	benzo(a)anthracene	10.0	U
218-01-9	chrysene	10.0	U
205-99-2	benzo(b)fluoranthene	10.0	U
207-08-9	benzo(k)fluoranthene	10.0	U
50-32-8	benzo(a)pyrene	10.0	U
193-39-5	indeno(1,2,3-cd)pyrene	10.0	U
53-70-3	dibenz(a,h)anthracene	10.0	U
191-24-2	benzo(g,h,i)perylene	10.0	U

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DATA VALIDATION COPY

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0401W2DL2

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: 69093W

Matrix: (soil/water) WATER Lab Sample ID: 9609093-14

Sample wt/vol: 20 (g/ml) ml Lab File ID: 1Z507

Level: (low/med) LOW Date Received: 09/08/96

% Moisture: not dec. _____ Date Analyzed: 09/13/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 10.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q	
71-43-2	benzene	50.0	U	U
108-88-3	toluene	50 ~~3.1~~	JB	U FD1, FD2
100-41-4	ethylbenzene	2.0	J	J
1330-20-7	xylenes (total)	2.0	J	J

NAP 12/17/96

USE

FORM I VOA OLM03.0

DATA VALIDATION COPY

PAGE 30

An Employee-Owned Company
Science Applications International Corporation
800 Oak Ridge Turnpike, Oak Ridge, TN 37831 (423) 481-4800

CHAIN OF CUSTODY RECORD

COC NO.: 0002

PROJECT NAME: Fort Stewart UST Sites

PROJECT NUMBER: 0003

PROJECT MANAGER: Chris Potter

Sampler (Signature): [signature] (Printed Name): Shannon Sowell

LABORATORY NAME: GEL

LABORATORY ADDRESS: 2040 Savage Road, Charleston, SC 29417

PHONE NO:(803) 556-8171

Sample ID	Date Collected	Time Collected	Matrix	REQUESTED PARAMETERS: BTEX, GRO	BTEX	PAH, Lead, DRO	PAH	Lead	DRO	No. of Bottles/Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
1508W2	9/7/96	1200	WATER		2					2		
0503W2	9/7/96	1110			2					2		
1504W2	9/7/96	0910			2					2		
0504W2	9/7/96	0930			2					2		
0301RS	9/7/96	1440		2						2		
0302W2	9/7/96	1600			2					2		
0402W2	9/7/96	1015			2					2		
0302RS	9/7/96	1510			2					2		
2001W2	9/7/96	1230			2					2		
0304W2	9/7/96	1630			2					2		
0401W2	9/7/96	0925			2					2		
0401RS	9/7/96	0840			2					2		
TB0410	9/7/96	0730			2					2		

RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time	TOTAL NUMBER OF CONTAINERS: 34	Cooler Temperature:
[signature]	9/8/96			Cooler ID: 0237	5.0
COMPANY NAME: SAIC	SAIC	COMPANY NAME:			
RECEIVED BY: Raymond E Reed	Date/Time 9/8/96	RELINQUISHED BY:	Date/Time		
COMPANY NAME: G.E.L.	1310	COMPANY NAME:			
RELINQUISHED BY: Raymond E Reed	Date/Time 9/8/96	RECEIVED BY: [signature]	Date/Time 9-09-96		
COMPANY NAME: GEL	1630	COMPANY NAME: GEL	1630		

SAIC — An Employee-Owned Company
Science Applications International Corporation
800 Oak Ridge Turnpike, Oak Ridge, TN 37831 (423) 481-4800

CHAIN OF CUSTODY RECORD

COC NO.: 0012

PROJECT NAME: Fort Stewart UST Sites

PROJECT NUMBER: 0003

PROJECT MANAGER: Chris Potter

Sampler (Signature): Sharon Stoller (Printed Name): SHARON STOLLER

LABORATORY NAME: GEL

LABORATORY ADDRESS: 2040 Savage Road, Charleston, SC 29417

PHONE NO:(803) 556-8171

Sample ID	Date Collected	Time Collected	Matrix	BTEX, GRO	BTEX	PAH, Lead, DRO	PAH	Lead	DRO	No. of Bottles/Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
0402W2	9/7/96	1015	WATER				3			3		
0302R6	9/7/96	1510	WATER				2	1		3		
0201W2	9/7/96	1230	WATER				2			2		
0304W2	9/7/96	1630	WATER				1	1		2		low recharge, only 1 1/2 PAH
0401W2	9/7/96	0925	WATER				2			2		

SCS 9/8/96

RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time
COMPANY NAME: SAIC	9/8/96 1340	COMPANY NAME:	
RECEIVED BY: Raymond E Reed	9/8/96	RELINQUISHED BY:	Date/Time
COMPANY NAME: GEL	1310	COMPANY NAME:	
RELINQUISHED BY: Raymond E Reed	9/8/96	RECEIVED BY:	Date/Time 09-09-96
COMPANY NAME: GEL	1630	COMPANY NAME: GEL	10:?

TOTAL NUMBER OF CONTAINERS: 12

Cooler ID: #161 2°C

Cooler Temperature:

Chain says 0201W2 bottle 2001W2 we used what was on bottle.

Client: Science Applications International Corporation
P.O. Box 2502
800 Oak Ridge Turnpike
Oak Ridge, Tennessee 37831

Date: 10/10/96

Contact: Mr. Chris Potter
ProjectDescription: Ft. Stewart UST Sites

Client Code: SAIC00396

Project Manager: Linda Darrington

Page: 1

Sample I.D.:	0402B1
Lab I.D.:	9609088-05
Sample Matrix:	Soil
Date Collected:	09/07/96
Date Received:	09/08/96
Priority:	Routine
Collected by:	Client

Parameter	Analyte:	Qualifier	Result	Units	Method	Analyst	DateTime
Total Rec. Petro.Hydrocarbons		JB	10.4 U, F01 F07	mg/kg	EPA 418.1 Mod.	EAN	09/09/961100
Evaporative Loss			8	%			

DATA VALIDATION COPY

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0402B1

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 69088S

Matrix: (soil/water) SOIL Lab Sample ID: 9609088-05

Sample wt/vol: 30.1 (g/mL) g Lab File ID: 1L312

Level: (low/med) LOW Date Received: 09/08/96

% Moisture: 8 decanted: (Y/N) N Date Extracted: 09/11/96

Concentrated Extract Volume: 1(mL) Date Analyzed: 09/18/96

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
121-14-2	~~2,4-dinitrotoluene~~	~~361~~	~~U~~
106-46-7	~~1,4-dichlorobenzene~~	~~361~~	~~U~~
621-64-7	~~N-nitroso-di-n-propylamine~~	~~361~~	~~U~~
120-82-1	~~1,2,4-trichlorobenzene~~	~~361~~	~~U~~
91-20-3	naphthalene	361	U
91-58-7	2-chloronaphthalene	361	U
209-96-8	acenaphthylene	361	U
83-32-9	acenaphthene	361	U
86-73-7	fluorene	361	U
85-01-8	phenanthrene	361	U
120-12-7	anthracene	361	U
206-44-0	fluoranthene	361	U
129-00-0	pyrene	361	U
56-55-3	benzo(a)anthracene	361	U
218-01-9	chrysene	361	U
205-99-2	benzo(b)fluoranthene	63.5	J
207-08-9	benzo(k)fluoranthene	29.5	J
50-32-8	benzo(a)pyrene	361	U
193-39-5	indeno(1,2,3-cd)pyrene	361	U
53-70-3	dibenz(a,h)anthracene	361	U
191-24-2	benzo(g,h,i)perylene	361	U

PAH ONLY

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DATA VALIDATION COPY

1D

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0402B1

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: 69088S

Matrix: (soil/water) SOIL Lab Sample ID: 9609088-05

Sample wt/vol: 5.0 (g/mL) g Lab File ID: B2Z312

% Moisture: 8 decanted: (Y/N) N Date Received: 09/08/96

Extraction: (SepF/Cont/Sonc) PURGETRAP Date Extracted:N/A

Concentrated Extract Volume: 10(ml) Date Analyzed: 09/11/96

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q	
71-43-2	Benzene	5.4	U	U
108-88-3	Toluene	5.4	U	↓
100-41-4	Ethylbenzene	5.4	U	=
1330-20-7	Xylenes (total)	9.3		

DATA VALIDATION COPY

Client: Science Applications International Corporation
P.O. Box 2502
800 Oak Ridge Turnpike
Oak Ridge, Tennessee 37831

Date: 10/10/96

Contact: Mr. Chris Potter
ProjectDescription: Ft. Stewart UST Sites

Client Code: SAIC00396

Project Manager: Linda Darrington

Sample I.D.:	0401B1
Lab I.D.:	9609088-06
Sample Matrix:	Soil
Date Collected:	09/07/96
Date Received:	09/08/96
Priority:	Routine
Collected by:	Client

Parameter	Qualifier	Result	Units	Method	Analyst	DateTime
Total Rec. Petro.Hydrocarbons	B	201 = F08	mg/kg	EPA 418.1 Mod.	EAN	09/09/961100
Evaporative Loss		11	%			

DATA VALIDATION COPY

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0401B1

Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 69088S

Matrix: (soil/water) SOIL Lab Sample ID: 9609088-06

Sample wt/vol: 30.6 (g/mL) g Lab File ID: 1L313

Level: (low/med) LOW Date Received: 09/08/96

% Moisture: 11 decanted: (Y/N) N Date Extracted: 09/11/96

Concentrated Extract Volume: 1(mL) Date Analyzed: 09/18/96

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
91-20-3	naphthalene	367	U
91-58-7	2-chloronaphthalene	367	U
209-96-8	acenaphthylene	367	U
83-32-9	acenaphthene	367	U
86-73-7	fluorene	367	U
85-01-8	phenanthrene	367	U
120-12-7	anthracene	367	U
206-44-0	fluoranthene	367	U
129-00-0	pyrene	367	U
56-55-3	benzo(a)anthracene	367	U
218-01-9	chrysene	367	U
205-99-2	benzo(b)fluoranthene	32.2	J
207-08-9	benzo(k)fluoranthene	11.3	J
50-32-8	benzo(a)pyrene	367	U
193-39-5	indeno(1,2,3-cd)pyrene	367	U
53-70-3	dibenz(a,h)anthracene	367	U
191-24-2	benzo(g,h,i)perylene	367	U

U

J J U

Lab Duplicate Copy

1D

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0401B1

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: 69088S

Matrix: (soil/water) SOIL Lab Sample ID: 9609088-06

Sample wt/vol: 5.0 (g/mL) g Lab File ID: B2Z313

% Moisture: 11 decanted: (Y/N) N Date Received: 09/08/96

Extraction: (SepF/Cont/Sonc) PURGETRAP Date Extracted:N/A

Concentrated Extract Volume: 10(ml) Date Analyzed: 09/11/96

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q	
71-43-2	Benzene	5.6	U	U
108-88-3	Toluene	5.6	U	↓
100-41-4	Ethylbenzene	5.6	U	=
1330-20-7	Xylenes (total)	8.0		

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Science Applications International Corporation
An Employee-Owned Company
800 Oak Ridge Turnpike, Oak Ridge, TN 37831 (423) 481-4600

CHAIN OF CUSTODY RECORD

COC NO.: 0002

PROJECT NAME: Fort Stewart UST Sites

PROJECT NUMBER: 0003

PROJECT MANAGER: Chris Potter

Sampler (Signature): Sharon Stoller (Printed Name): SHARON STOLLER

LABORATORY NAME: GEL

LABORATORY ADDRESS: 2040 Savage Road, Charleston, SC 29417

PHONE NO:(803) 556-8171

Sample ID	Date Collected	Time Collected	Matrix	REQUESTED PARAMETERS: STEX, GRO	STEX	PAH, Lead, DRO	PAH	Lead	DRO	PAH, LEAD, TPH	PAH, TPH	PAH, DRO				No. of Bottles/Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
0302A1	9/7/96	1545	SOIL	1								1				2	0 ppm	
0302B1	9/7/96	1550	SOIL	1		1										2	19.8 ppm	
2002D1	9/7/96	1440	SOIL	1								1				2	2.3 ppm	
2001B1	9/7/96	1200	SOIL	1		1										2	3.2 ppm	
2002A1	9/7/96	1430	SOIL	1		1										2	3.6 ppm	
0301B1	9/7/96	1453	SOIL	1		1										2	24.8 ppm	
2001D1	9/7/96	1213	SOIL	1								1			1	2	2.7 ppm	
0402B1	9/7/96	1005	SOIL		1					1						2	31.0 ppm	
0401B1	9/7/96	0900	SOIL		1					1						2	22.1 ppm	
1507A1 SLS 9/8/96	9/7/96	1009	SOIL	1		1										2	4.7 ppm	
		SLS 9/8/96																

RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time	TOTAL NUMBER OF CONTAINERS: 46	Cooler Temperature:
COMPANY NAME: SAIC	9/8/96 1310	COMPANY NAME:		Cooler ID: #151	5°
RECEIVED BY: Raymond E Reed	Date/Time 9/8/96	RELINQUISHED BY:	Date/Time		
COMPANY NAME: GEL	1310	COMPANY NAME:			
RELINQUISHED BY: Raymond E Reed	Date/Time 9/8/96	RECEIVED BY:	Date/Time 09-09-96		
COMPANY NAME:	1630	COMPANY NAME: GEL	16:30		

APPENDIX C-2

Facility ID #9-089068
UST 13

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0202W2

Name: GENERAL ENGINEERING LABOR Contract:

Lab Code: Case No.: SAS No.: SDG No.: 69090W

Matrix: (soil/water) GROUNDH2O Lab Sample ID: 9609090-05

Sample wt/vol: 500 (g/mL) mL Lab File ID: 2K215

Level: (low/med) LOW Date Received: 09/08/96

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/09/96

Concentrated Extract Volume: 0.5(mL) Date Analyzed: 09/10/96

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
91-20-3	naphthalene	10.0	U
91-58-7	2-chloronaphthalene	10.0	U
209-96-8	acenaphthylene	10.0	U
83-32-9	acenaphthene	10.0	U
86-73-7	fluorene	10.0	U
85-01-8	phenanthrene	10.0	U
120-12-7	anthracene	10.0	U
206-44-0	fluoranthene	10.0	U
129-00-0	pyrene	10.0	U
56-55-3	benzo(a)anthracene	10.0	U
218-01-9	chrysene	10.0	U
205-99-2	benzo(b)fluoranthene	10.0	U
207-08-9	benzo(k)fluoranthene	10.0	U
50-32-8	benzo(a)pyrene	10.0	U
193-39-5	indeno(1,2,3-cd)pyrene	10.0	U
53-70-3	dibenz(a,h)anthracene	10.0	U
191-24-2	benzo(g,h,i)perylene	10.0	U

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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0202W2

Lab Name: GENERAL ENGINEERING LABOR Contract:

Lab Code: Case No.: SAS No.: SDG No.: 69092W

Matrix: (soil/water) WATER Lab Sample ID: 9609092-06

Sample wt/vol: 20 (g/ml) ml Lab File ID: 1Z314

Level: (low/med) LOW Date Received: 09/08/96

% Moisture: not dec. _____ Date Analyzed: 09/11/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
71-43-2	benzene	5.0	U
108-88-3	toluene	5.0	U
100-41-4	ethylbenzene	5.0	U
1330-20-7	xylenes (total)	5.0	U

FORM I VOA OLM03.0

DATA VALIDATION COPY

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0201W2

Name: GENERAL ENGINEERING LABOR Contract:

Lab Code: Case No.: SAS No.: SDG No.: 69090W

Matrix: (soil/water) GROUNDH2O Lab Sample ID: 9609090-06

Sample wt/vol: 500 (g/mL) mL Lab File ID: 2K216

Level: (low/med) LOW Date Received: 09/08/96

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/09/96

Concentrated Extract Volume: 0.5(mL) Date Analyzed: 09/10/96

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
91-20-3	naphthalene	10.0	U
91-58-7	2-chloronaphthalene	10.0	U
209-96-8	acenaphthylene	10.0	U
83-32-9	acenaphthene	10.0	U
86-73-7	fluorene	10.0	U
85-01-8	phenanthrene	10.0	U
120-12-7	anthracene	10.0	U
206-44-0	fluoranthene	10.0	U
129-00-0	pyrene	10.0	U
56-55-3	benzo(a)anthracene	10.0	U
218-01-9	chrysene	10.0	U
205-99-2	benzo(b)fluoranthene	10.0	U
207-08-9	benzo(k)fluoranthene	10.0	U
50-32-8	benzo(a)pyrene	10.0	U
193-39-5	indeno(1,2,3-cd)pyrene	10.0	U
53-70-3	dibenz(a,h)anthracene	10.0	U
191-24-2	benzo(g,h,i)perylene	10.0	U

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DATA VALIDATION
COPY

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0201W2

Lab Name: GENERAL ENGINEERING LABOR Contract:

Lab Code: Case No.: SAS No.: SDG No.: 69092W

Matrix: (soil/water) WATER Lab Sample ID: 9609092-10

Sample wt/vol: 20 (g/ml) ml Lab File ID: 1Z317

Level: (low/med) LOW Date Received: 09/08/96

% Moisture: not dec. _____ Date Analyzed: 09/11/96

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
71-43-2	benzene	5.0	U
108-88-3	toluene	5.0	U
100-41-4	ethylbenzene	5.0	U
1330-20-7	xylenes (total)	5.0	U

Science Applications International Corporation — An Employee-Owned Company

800 Oak Ridge Turnpike, Oak Ridge, TN 37831 (423) 481-4600

CHAIN OF CUSTODY RECORD

COC NO.: GØØ

PROJECT NAME: Fort Stewart UST Sites	LABORATORY NAME: GEL
PROJECT NUMBER: 0003	LABORATORY ADDRESS: 2040 Savage Road, Charleston, SC 29417
PROJECT MANAGER: Chris Potter	PHONE NO:(803) 556-8171
Sampler (Signature): Scott Stoller (Printed Name): Scottie Stoller	

Sample ID	Date Collected	Time Collected	Matrix	BTEX, GRO	BTEX	PAH, Lead, DRO	PAH	Lead	DRO	No. of Bottles/Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
TBØØØ8	9/6/96	Ø759	WATER		2					2		
16Ø1W2	9/6/96	1500			2					2		
Ø1Ø2W2	9/6/96	1Ø2Ø			2					2		
15Ø6W4	9/6/96	1340			2					2		
15Ø2W2	9/6/96	1535			2					2		sample water only, not product
Ø2Ø2W2	9/6/96	1335			2					2		
16Ø2W2	9/6/96	1638			2					2		
~~Ø1ØA1~~ Scs 9/6/96												
40Ø1W2	9/6/96	1135			2					2		
15Ø1W2	9/6/96	1Ø6Ø			2					2		
Ø2Ø1W2	9/6/96	1550			2					2		
16Ø2R6 Scs 9/6/96	9/6/96	1550		2	2					3		
3904W2	9/6/96	945			2					2		

RELINQUISHED BY: Scott Stoller	Date/Time 9/8/96 1310	RECEIVED BY:	Date/Time	TOTAL NUMBER OF CONTAINERS: 84	Cooler Temperature: 5°
COMPANY NAME: SAIC		COMPANY NAME:		Cooler ID: #237	
RECEIVED BY: Raymond E Reed	Date/Time 9/8/96 1310	RELINQUISHED BY:	Date/Time		
COMPANY NAME: G E L.		COMPANY NAME:			
RELINQUISHED BY: Raymond E Reed	Date/Time 9/8/96 1630	RECEIVED BY:	Date/Time 09-09-96 16:30		
COMPANY NAME: GEL		COMPANY NAME: GEL			

6

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Science Applications International Corporation
800 Oak Ridge Turnpike, Oak Ridge, TN 37831 (423) 481-4600

CHAIN OF CUSTODY RECORD

COC NO.: GØØ14

PROJECT NAME: Fort Stewart UST Sites

PROJECT NUMBER: 0003

PROJECT MANAGER: Chris Potter

Sampler (Signature): Simpson Stacker (Printed Name)

LABORATORY NAME: GEL

LABORATORY ADDRESS: 2040 Savage Road, Charleston, SC 29417

PHONE NO:(803) 556-8171

REQUESTED PARAMETERS

Sample ID	Date Collected	Time Collected	Matrix	BTEX, GRO	BTEX	PAH, Lead, DRO	PAH	Lead	DRO	PAH, LEAD, TPH	PAH, TPH	PAH, D20	TPH	No. of Bottles/Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
1502W2	9/6/96	1535	WATER				2	1						3	150 ppm	sample water layer not product
1506W4	9/6/96	1340	WATER				2	1						3	Ø ppm	
1506W2	9/6/96	1330	WATER				2	1						3	Ø ppm	
Ø202W2	9/6/96	1335	WATER				2							3	Ø ppm	
Ø242W2		SLS 9/8/96														
Ø201W1	9/6/96	1550	WATER				2							2		
		SLS 9/8/96														

RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time	TOTAL NUMBER OF CONTAINERS: 13	Cooler Temperature:
COMPANY NAME: SAIC	9/8/96 1310	COMPANY NAME:		Cooler ID: #224	3°
RECEIVED BY: Raymond E Reed	9/8/96	RELINQUISHED BY:	Date/Time	Chain says 0202W2 bottle says 0201W2 we used what was on bottle.	
COMPANY NAME: GEL	13:10	COMPANY NAME:			
RELINQUISHED BY: Raymond E Reed	9/8/96	RECEIVED BY:	09.09.96		
COMPANY NAME: GEL	16:30	COMPANY NAME: GEL	16:30		

Client: Science Applications International Corporation
P.O. Box 2502
800 Oak Ridge Turnpike
Oak Ridge, Tennessee 37831

Date: 10/10/96

Contact: Mr. Chris Potter
ProjectDescription: Ft. Stewart UST Sites

Client Code: SAIC00396

Project Manager: Linda Darrington

Sample I.D.:	0202B1
Lab I.D.:	9609088-13
Sample Matrix:	Soil
Date Collected:	09/06/96
Date Received:	09/08/96
Priority:	Routine
Collected by:	Client

Parameter	Analyte:	Qualifier	Result	Units	Method	Analyst	DateTime
Total Rec. Petro.Hydrocarbons		JB	11.3 U FQ1 FQ-1	mg/kg	EPA 418.1 Mod.	EAN	09/09/961100
Evaporative Loss			19	%			

MRP
1/7/96

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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0202B1

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 69088S

Matrix: (soil/water) SOIL Lab Sample ID: 9609088-13

Sample wt/vol: 30.4 (g/mL) g Lab File ID: 1L320

Level: (low/med) LOW Date Received: 09/08/96

% Moisture: 19 decanted: (Y/N) N Date Extracted: 09/11/96

Concentrated Extract Volume: 1(mL) Date Analyzed: 09/19/96

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
91-20-3	naphthalene	407	U
91-58-7	2-chloronaphthalene	407	U
209-96-8	acenaphthylene	407	U
83-32-9	acenaphthene	407	U
86-73-7	fluorene	407	U
85-01-8	phenanthrene	407	U
120-12-7	anthracene	407	U
206-44-0	fluoranthene	407	U
129-00-0	pyrene	407	U
56-55-3	benzo(a)anthracene	407	U
218-01-9	chrysene	407	U
205-99-2	benzo(b)fluoranthene	407	U
207-08-9	benzo(k)fluoranthene	407	U
50-32-8	benzo(a)pyrene	407	U
193-39-5	indeno(1,2,3-cd)pyrene	407	U
53-70-3	dibenz(a,h)anthracene	407	U
191-24-2	benzo(g,h,i)perylene	407	U

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1D

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0202B1

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: 69088S

Matrix: (soil/water) SOIL Lab Sample ID: 9609088-13

Sample wt/vol: 5.0 (g/mL) g Lab File ID: B2Z320

% Moisture: 19 decanted: (Y/N) N Date Received: 09/08/96

Extraction: (SepF/Cont/Sonc) PURGETRAP Date Extracted:N/A

Concentrated Extract Volume: 10(ml) Date Analyzed: 09/11/96

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q	
71-43-2	Benzene	6.2	U	U
108-88-3	Toluene	19		=
100-41-4	Ethylbenzene	6.2	U	U
1330-20-7	Xylenes (total)	6.2	U	U

DATA VALIDATION COPY

Client: Science Applications International Corporation
P.O. Box 2502
800 Oak Ridge Turnpike
Oak Ridge, Tennessee 37831

Date: 10/10/96

Contact: Mr. Chris Potter
ProjectDescription: Ft. Stewart UST Sites

Client Code: SAIC00396

Project Manager: Linda Darrington

Sample I.D.:	0202A1
Lab I.D.:	9609088-04
Sample Matrix:	Soil
Date Collected:	09/06/96
Date Received:	09/08/96
Priority:	Routine
Collected by:	Client

Parameter	Qualifier	Result	Units	Method	Analyst	DateTime
Total Rec. Petro.Hydrocarbons	JB	~~7.4~~ 6	mg/kg	EPA 418.1 Mod.	EAN	09/09/961100
Evaporative Loss			%			

10 U F$1, F$6

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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0202A1

Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 69088S

Matrix: (soil/water) SOIL Lab Sample ID: 9609088-04

Sample wt/vol: 30.5 (g/mL) g Lab File ID: 1L311

Level: (low/med) LOW Date Received: 09/08/96

% Moisture: 6 decanted: (Y/N) N Date Extracted: 09/11/96

Concentrated Extract Volume: 1(mL) Date Analyzed: 09/18/96

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
91-20-3	naphthalene	349	U
91-58-7	2-chloronaphthalene	349	U
209-96-8	acenaphthylene	349	U
83-32-9	acenaphthene	349	U
86-73-7	fluorene	349	U
85-01-8	phenanthrene	349	U
120-12-7	anthracene	349	U
206-44-0	fluoranthene	349	U
129-00-0	pyrene	349	U
56-55-3	benzo(a)anthracene	349	U
218-01-9	chrysene	349	U
205-99-2	benzo(b)fluoranthene	349	U
207-08-9	benzo(k)fluoranthene	349	U
50-32-8	benzo(a)pyrene	349	U
193-39-5	indeno(1,2,3-cd)pyrene	349	U
53-70-3	dibenz(a,h)anthracene	349	U
191-24-2	benzo(g,h,i)perylene	349	U

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1D

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0202A1

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: 69088S

Matrix: (soil/water) SOIL Lab Sample ID: 9609088-04

Sample wt/vol: 5.0 (g/mL) g Lab File ID: B2Z311

% Moisture: 6 decanted: (Y/N) N Date Received: 09/08/96

Extraction: (SepF/Cont/Sonc) PURGETRAP Date Extracted:N/A

Concentrated Extract Volume: 10(ml) Date Analyzed: 09/11/96

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q	
71-43-2	Benzene	5.3	U	U
108-88-3	Toluene	5.3	U	
100-41-4	Ethylbenzene	5.3	U	
1330-20-7	Xylenes (total)	5.3	U	

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Client: Science Applications International Corporation
P.O. Box 2502
800 Oak Ridge Turnpike
Oak Ridge, Tennessee 37831

Date: 10/10/96

Contact: Mr. Chris Potter
ProjectDescription: Ft. Stewart UST Sites

Client Code: SAIC00396

Project Manager: Linda Darrington

Sample I.D.:	0201E1
Lab I.D.:	9609088-03
Sample Matrix:	Soil
Date Collected:	09/06/96
Date Received:	09/08/96
Priority:	Routine
Collected by:	Client

Parameter

Analyte:	Qualifier	Result	Units	Method	Analyst	DateTime
Total Rec. Petro.Hydrocarbons	JB	~~7.33~~	mg/kg	EPA 418.1 Mod.	EAN	09/09/961100
Evaporative Loss		24	%			

10 U F01, F06

DATA VALIDATION COPY

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0201E1

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 69088S

Matrix: (soil/water) SOIL Lab Sample ID: 9609088-03

Sample wt/vol: 30.2 (g/mL) g Lab File ID: 1L310

Level: (low/med) LOW Date Received: 09/08/96

% Moisture: 24 decanted: (Y/N) N Date Extracted:09/11/96

Concentrated Extract Volume: 1(mL) Date Analyzed: 09/18/96

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
91-20-3	naphthalene	436	U
91-58-7	2-chloronaphthalene	436	U
209-96-8	acenaphthylene	436	U
83-32-9	acenaphthene	436	U
86-73-7	fluorene	436	U
85-01-8	phenanthrene	436	U
120-12-7	anthracene	436	U
206-44-0	fluoranthene	436	U
129-00-0	pyrene	436	U
56-55-3	benzo(a)anthracene	436	U
218-01-9	chrysene	436	U
205-99-2	benzo(b)fluoranthene	436	U
207-08-9	benzo(k)fluoranthene	436	U
50-32-8	benzo(a)pyrene	436	U
193-39-5	indeno(1,2,3-cd)pyrene	436	U
53-70-3	dibenz(a,h)anthracene	436	U
191-24-2	benzo(g,h,i)perylene	436	U

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1D

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0201E1

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: 69088S

Matrix: (soil/water) SOIL Lab Sample ID: 9609088-03

Sample wt/vol: 5.0 (g/mL) g Lab File ID: B2Z310

% Moisture: 24 decanted: (Y/N) N Date Received: 09/08/96

Extraction: (SepF/Cont/Sonc) PURGETRAP Date Extracted:N/A

Concentrated Extract Volume: 10(ml) Date Analyzed: 09/11/96

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
71-43-2	Benzene	6.6	U
108-88-3	Toluene	6.6	U
100-41-4	Ethylbenzene	6.6	U
1330-20-7	Xylenes (total)	6.6	U

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DATA VALIDATION COPY

Client: Science Applications International Corporation
P.O. Box 2502
800 Oak Ridge Turnpike
Oak Ridge, Tennessee 37831

Date: 10/10/96

Contact: Mr. Chris Potter
ProjectDescription: Ft. Stewart UST Sites

Client Code: SAIC00396

Project Manager: Linda Darrington

Sample I.D.:	0201C1
Lab I.D.:	9609089-08
Sample Matrix:	Soil
Date Collected:	09/07/96
Date Received:	09/08/96
Priority:	Routine
Collected by:	Client

Analyte:	Qualifier	Result	Units	Method	Analyst	DateTime
Parameter						
Total Rec. Petro.Hydrocarbons	B	11.7 U F91,F97	mg/kg	EPA 418.1 Mod.	EAN	09/09/961100
Evaporative Loss		11	%			

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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0201C1

Name: Contract:

ab Code: Case No.: SAS No.: SDG No.: 69089S

atrix: (soil/water) SOIL Lab Sample ID: 9609089-08

ample wt/vol: 30.2 (g/mL) g Lab File ID: 2L306

evel: (low/med) LOW Date Received: 09/08/96

Moisture: 11 decanted: (Y/N) N Date Extracted:09/11/96

oncentrated Extract Volume: 1(mL) Date Analyzed: 09/18/96

njection Volume: 1.0(uL) Dilution Factor: 1.0

PC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
91-20-3	naphthalene	372	U
91-58-7	2-chloronaphthalene	372	U
209-96-8	acenaphthylene	372	U
83-32-9	acenaphthene	372	U
86-73-7	fluorene	372	U
85-01-8	phenanthrene	372	U
120-12-7	anthracene	372	U
206-44-0	fluoranthene	372	U
129-00-0	pyrene	372	U
56-55-3	benzo(a)anthracene	372	U
218-01-9	chrysene	372	U
205-99-2	benzo(b)fluoranthene	372	U
207-08-9	benzo(k)fluoranthene	372	U
50-32-8	benzo(a)pyrene	372	U
193-39-5	indeno(1,2,3-cd)pyrene	372	U
53-70-3	dibenz(a,h)anthracene	372	U
191-24-2	benzo(g,h,i)perylene	372	U

U

1D

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0201C1

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: 69089S

Matrix: (soil/water) SOIL Lab Sample ID: 9609089-08

Sample wt/vol: 5.0 (g/mL) g Lab File ID: B2Z334

% Moisture: 11 decanted: (Y/N) N Date Received: 09/08/96

Extraction: (SepF/Cont/Sonc) PURGETRAP Date Extracted:N/A

Concentrated Extract Volume: 10(ml) Date Analyzed: 09/12/96

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q	
71-43-2	Benzene	5.6	U	U = 5.6
108-88-3	Toluene	7.9		
100-41-4	Ethylbenzene	5.6	U	
1330-20-7	Xylenes (total)	5.6	U	

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800 Oak Ridge Turnpike, Oak Ridge, TN 37831 (423) 481-4600

CHAIN OF CUSTODY RECORD

COC NO.: GØØ17

PROJECT NAME: Fort Stewart UST Sites

PROJECT NUMBER: 0003

PROJECT MANAGER: Chris Potter

Sampler (Signature): Sharon Stoller **(Printed Name):** Sharon Stoller

LABORATORY NAME: GEL

LABORATORY ADDRESS: 2040 Savage Road, Charleston, SC 29417

PHONE NO: (803) 556-8171

Sample ID	Date Collected	Time Collected	Matrix	BTEX, GRO	BTEX	PAH, Lead, DRO	PAH	Lead	DRO	PAH, LEAD, TPH	PAH, TPH	PAH, DRO	TPH			No. of Bottles/Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
3904W3	9/6/96	~~0945~~ 1145	WATER				2	1								3		
Ø3Ø1W2	9/6/96	1500	WATER				2	1								3		
Ø1Ø1A1	9/6/96	1145	SOIL		1					1	1					2	59.9 ppm	
Ø1Ø1B3	9/6/96	1145	SOIL		1											2	3.6 ppm	
1506A1	9/6/96	1317	SOIL	1								1				2	Oppm	
Ø2Ø2B1	9/6/96	1315	SOIL		1					1						2	1999 ppm	
Ø1Ø1B1	9/6/96	1145	SOIL		1						1					2	3.6 ppm	
		45	9/6/96															

RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time	TOTAL NUMBER OF CONTAINERS:	Cooler Temperature:
COMPANY NAME: SAIC	9/8/96 1310	COMPANY NAME:		Cooler ID: #248	3°
RECEIVED BY: Raymond E Reed	Date/Time 9/8/96	RELINQUISHED BY:	Date/Time		
COMPANY NAME: GEL	1310	COMPANY NAME:			
RELINQUISHED BY: Raymond E Reed	Date/Time 9/8/96	RECEIVED BY:	Date/Time 9.9.96		
COMPANY NAME: GEL	1630	COMPANY NAME: GEL	16.30		

Chain says 3904W3 bottle says 3904W2 used what was on bottle.

62

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800 Oak Ridge Turnpike, Oak Ridge, TN 37831 (423) 481-4800

CHAIN OF CUSTODY RECORD

COC NO.: GØØ1Ø

PROJECT NAME: Fort Stewart UST Sites

PROJECT NUMBER: 0003

PROJECT MANAGER: Chyle Potter

Sampler (Signature) Sharon Stoller **(Printed Name)** SHARON STOLLER

LABORATORY NAME: GEL

LABORATORY ADDRESS: 2040 Savage Road, Charleston, SC 29417

PHONE NO: (803) 556-8171

Sample ID	Date Collected	Time Collected	Matrix	BTEX, GRO	BTEX	PAH, Lead, DRO	PAH	Lead	DRO	PAH, LEAD, TPH	PAH, TPH	PAH, DRO				No. of Bottles/Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
2ØØ2W2	9/7/96	1525	WATER				1									2	2.9 ppm	
1507W2	9/7/96	1Ø25	WATER				1	1								3	not recorded	
15ØBW2	9/7/96	12ØØ	WATER				1	1								3	6.7 ppm	
Ø5Ø3W2	9/7/96	111Ø	WATER				1	1								3	not recorded	
Ø2Ø1C1	9/6/96	1515	SOIL		1						1					2	1999 ppm	
Ø1Ø1A3	9/6/96	1145	SOIL		1					1						2	59.9 ppm	

SCS 9/8/96

REQUESTED PARAMETERS

RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time
COMPANY NAME: SAIC	9/8/96 1310	COMPANY NAME:	
RECEIVED BY: Raymond E Reed	9/8/96 1310	RELINQUISHED BY:	Date/Time
COMPANY NAME: GEL		COMPANY NAME:	
RELINQUISHED BY: Raymond E Reed	9/8/96 1630	RECEIVED BY:	09-09-96 1631
COMPANY NAME:		COMPANY NAME: GEL	

TOTAL NUMBER OF CONTAINERS: 15

Cooler ID: #2Ø8

Cooler Temperature: 2°

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Science Applications International Corporation
800 Oak Ridge Turnpike, Oak Ridge, TN 37831 (423) 481-4800

CHAIN OF CUSTODY RECORD

COC NO.: 0002

PROJECT NAME: Fort Stewart UST Sites

PROJECT NUMBER: 0003

PROJECT MANAGER: Chris Potter

Sampler (Signature) Sharon Stoller **(Printed Name)** SHARON STOLLER

LABORATORY NAME: GEL

LABORATORY ADDRESS: 2040 Savage Road, Charleston, SC 29417

PHONE NO: (803) 556-8171

Sample ID	Date Collected	Time Collected	Matrix	REQUESTED PARAMETERS: BTEX, GRO	BTEX	PAH, Lead, DRO	PAH	Lead	DRO	PAH, LEAD, TPH	PAH, TPH	PAH, DRO					No. of Bottles/Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
1502B1	9/6/96	1526	SOIL	1		1											2	17.4 ppm	
1505A3	9/6/96	1110	SOIL	1								1					2	0 ppm	
1501C1	9/6/96	0950	SOIL	1		1											2	>1999 ppm	
3904C1	9/6/96	0905	SOIL	1								1					2	1999 ppm	OVA readings were questionable
1602B1	9/6/96	1625	SOIL	1		1											2	9.1 ppm	
4001B1	9/6/96	1100	SOIL		1						1						2	29.0 ppm	
1505B3	9/6/96	1115	SOIL	1		1											2	0 ppm	
1601B1	9/6/96	1450	SOIL	1		1											2	141.2 ppm	
1506B1	9/6/96	1320	SOIL	1		1											2	0 ppm	
1501B1	9/6/96	0935	SOIL	1								1					2	0 ppm	
1505B1	9/6/96	1112	SOIL	1		1											2	0 ppm	
0201E1	9/6/96	1535	SOIL	Strong	1					1							2	68.5 ppm	
0202A1	9/6/96	1315	SOIL		1					1							2	1999 ppm	

RELINQUISHED BY: Sharon Stoller	**Date/Time** 1310 9/6/96	**RECEIVED BY:**	**Date/Time**	**TOTAL NUMBER OF CONTAINERS:** 52	**Cooler Temperature:** 4.0°C
COMPANY NAME: SAIC		**COMPANY NAME:**		**Cooler ID:** #125	
RECEIVED BY: Raynal E Reed	**Date/Time** 9/8/96 1310	**RELINQUISHED BY:**	**Date/Time**		
COMPANY NAME: GEL		**COMPANY NAME:**			
RELINQUISHED BY: Raynal E Reed	**Date/Time** 9/8/96 1630	**RECEIVED BY:** [signature]	**Date/Time** 09-09-96 16:30		
COMPANY NAME: GEL		**COMPANY NAME:** GEL			

APPENDIX C-1

Facility ID #9-089067
UST 7

APPENDIX C

Analytical Data Sheets
for
No Further Action UST Sites

Investigation: 52

	Station	52-01	52-02
	Sample ID	5201W2	5202W2
	Date Collected	9/8/96	9/8/96
	Depth	4.0 - 9.0 FT	4.0 - 9.0 FT
Polynuclear Aromatic Hydrocarbons	**EPA MCL UG/L**	**UG/L**	**UG/L**
2-Chloronaphthalene	NA	10 UJ	10 U
Acenaphthene	NA	10 UJ	10 U
Acenaphthylene	NA	10 UJ	10 U
Anthracene	NA	10 UJ	10 U
Benzo(a)anthracene	NA	10 UJ	10 U
Benzo(a)pyrene	0.2	10 UJ	10 U
Benzo(b)fluoranthene	NRC	10 UJ	10 U
Benzo(g,h,i)perylene	NA	10 UJ	10 U
Benzo(k)fluoranthene	NRC	10 UJ	10 U
Chrysene	NRC	10 UJ	10 U
Dibenzo(a,h)anthracene	NRC	10 UJ	10 U
Fluoranthene	NA	10 UJ	10 U
Fluorene	NA	10 UJ	10 U
Indeno(1,2,3-cd)pyrene	NRC	10 UJ	10 U
Naphthalene	NA	10 UJ	10 U
Phenanthrene	NA	10 UJ	10 U
Pyrene	NA	10 UJ	10 U
Volatile Organics	**EPA MCL UG/L**	**UG/L**	**UG/L**
Benzene	5	5 U	5 U
Ethylbenzene	700	5 U	5 U
Toluene	1000	5 U	5 U
Xylenes, Total	10000	5 U	5 U

NRC - No Regulatory Criteria
NA - Not Applicable, the health based threshold level would be exceeded only if free product conditions existed

U - Indicates the compound was not detected at the concentration reported.
J - Indicates that the value for the compound is an estimated value.
UJ - Indicates the compound was not detected at the reported concentration and the concentration was estimated.
= - Indicates the compound was detected at the concentration reported.

Investigation: 52

	Station	52-01	52-01	52-02	52-02
	Sample ID	5201A1	5201C1	5202A1	5202C1
	Date Collected	9/8/96	9/8/96	9/8/96	9/8/96
	Depth	0.5 - 2.5 FT	5.0 - 7.5 FT	0.6 - 2.5 FT	5.0 - 7.5 FT
	GDNR Level				
Polynuclear Aromatic Hydrocarbons	**MG/KG**	**MG/KG**	**MG/KG**	**MG/KG**	**MG/KG**
2-Chloronaphthalene	NA	0.414 U	0.379 U	0.401 U	0.387 U
Acenaphthene	NA	0.414 U	0.379 U	0.401 U	0.387 U
Acenaphthylene	NA	0.414 U	0.379 U	0.401 U	0.387 U
Anthracene	NA	0.414 U	0.379 U	0.401 U	0.387 U
Benzo(a)anthracene	NA	0.414 U	0.379 U	0.401 U	0.387 U
Benzo(a)pyrene	NA	0.414 U	0.379 U	0.401 U	0.387 U
Benzo(b)fluoranthene	NA	0.414 U	0.379 U	0.401 U	0.387 U
Benzo(g,h,i)perylene	NA	0.414 U	0.379 U	0.401 U	0.387 U
Benzo(k)fluoranthene	NA	0.414 U	0.379 U	0.401 U	0.387 U
Chrysene	NA	0.414 U	0.379 U	0.401 U	0.387 U
Dibenzo(a,h)anthracene	NA	0.414 U	0.379 U	0.401 U	0.387 U
Fluoranthene	NA	0.414 U	0.379 U	0.401 U	0.387 U
Fluorene	NA	0.414 U	0.379 U	0.401 U	0.387 U
Indeno(1,2,3-cd)pyrene	NA	0.414 U	0.379 U	0.401 U	0.387 U
Naphthalene	NA	0.414 U	0.379 U	0.401 U	0.387 U
Phenanthrene	NA	0.414 U	0.379 U	0.401 U	0.387 U
Pyrene	NA	0.414 U	0.379 U	0.401 U	0.387 U
	GDNR Level				
Petroleum Hydrocarbons	**MG/KG**	**MG/KG**	**MG/KG**	**MG/KG**	**MG/KG**
Total Petroleum Hydrocarbons	NRC	15.9 U	29 U	9.09 U	24.9 U
	GDNR Level				
Volatile Organics	**MG/KG**	**MG/KG**	**MG/KG**	**MG/KG**	**MG/KG**
Benzene	0.008	0.0062 U	0.0058 U	0.0061 U	0.0058 U
Ethylbenzene	10	0.0062 U	0.0058 U	0.0061 U	0.0058 U
Toluene	6	0.0062 U	0.0058 U	0.0061 U	0.0058 U
Xylenes, Total	700	0.0062 U	0.0058 U	0.0061 U	0.0058 U

NRC - No Regulatory Criteria
NA - Not Applicable, the health based threshold level would be exceeded only if free product conditions existed

U - Indicates the compound was not detected at the concentration reported.
J - Indicates that the value for the compound is an estimated value.
UJ - Indicates the compound was not detected at the reported concentration and the concentration was estimated.
= - Indicates the compound was detected at the concentration reported.

Soil Analytical Results for the
Facility ID #9-089061, UST 231, Site Investigation

Investigation: 51

	Station	51-01	51-02
	Sample ID	5101W2	5102W2
	Date Collected	9/17/96	9/17/93
	Depth	9.0 - 12.0 FT	4.0 - 9.0 FT
Polynuclear Aromatic Hydrocarbons	**EPA MCL UG/L**	**UG/L**	**UG/L**
2-Chloronaphthalene	NA	10 U	10 UJ
Acenaphthene	NA	10 U	10 UJ
Acenaphthylene	NA	10 U	10 UJ
Anthracene	NA	10 U	10 UJ
Benzo(a)anthracene	NA	10 U	10 UJ
Benzo(a)pyrene	0.2	10 U	10 UJ
Benzo(b)fluoranthene	NRC	10 U	10 UJ
Benzo(g,h,i)perylene	NA	10 U	10 UJ
Benzo(k)fluoranthene	NRC	10 U	10 UJ
Chrysene	NRC	10 U	10 UJ
Dibenzo(a,h)anthracene	NRC	10 U	10 UJ
Fluoranthene	NA	10 U	10 UJ
Fluorene	NA	10 U	10 UJ
Indeno(1,2,3-cd)pyrene	NRC	10 U	10 UJ
Naphthalene	NA	10 U	10 UJ
Phenanthrene	NA	10 U	10 UJ
Pyrene	NA	10 U	10 UJ
Volatile Organics	**EPA MCL UG/L**	**UG/L**	**UG/L**
Benzene	5	5 U	5 U
Ethylbenzene	700	5 U	5 U
Toluene	1000	5 U	5 U
Xylenes, Total	10000	5 U	5 U

NRC - No Regulatory Criteria
NA - Not Applicable, the health based threshold level would be exceeded only if free product conditions existed

U - Indicates the compound was not detected at the concentration reported.
J - Indicates that the value for the compound is an estimated value.
UJ - Indicates the compound was not detected at the reported concentration and the concentration was estimated.
= - Indicates the compound was detected at the concentration reported.

Groundwater Analytical Results for the
Facility ID #9-089061, UST 230, Site Investigation

Investigation: 51

	Station	51-01	51-02
	Sample ID	5101C1	5102C1
	Date Collected	9/17/96	9/17/96
	Depth	5.0 - 7.5 FT	5.0 - 7.5 FT
	GDNR Level		
Polynuclear Aromatic Hydrocarbons	**MG/KG**	**MG/KG**	**MG/KG**
2-Chloronaphthalene	NA	0.384 U	0.384 U
Acenaphthene	NA	0.384 U	0.384 U
Acenaphthylene	NA	0.384 U	0.384 U
Anthracene	NA	0.384 U	0.384 U
Benzo(a)anthracene	NA	0.384 U	0.384 U
Benzo(a)pyrene	NA	0.384 U	0.384 U
Benzo(b)fluoranthene	NA	0.384 U	0.384 U
Benzo(g,h,i)perylene	NA	0.384 U	0.384 U
Benzo(k)fluoranthene	NA	0.384 U	0.384 U
Chrysene	NA	0.384 U	0.384 U
Dibenzo(a,h)anthracene	NA	0.384 U	0.384 U
Fluoranthene	NA	0.384 U	0.384 U
Fluorene	NA	0.384 U	0.384 U
Indeno(1,2,3-cd)pyrene	NA	0.384 U	0.384 U
Naphthalene	NA	0.384 U	0.384 U
Phenanthrene	NA	0.384 U	0.384 U
Pyrene	NA	0.384 U	0.384 U
	GDNR Level		
Petroleum Hydrocarbons	**MG/KG**	**MG/KG**	**MG/KG**
Total Petroleum Hydrocarbons	NRC	26.9 =	26.1 =
	GDNR Level		
Volatile Organics	**MG/KG**	**MG/KG**	**MG/KG**
Benzene	0.008	0.0057 U	0.0059 U
Ethylbenzene	10	0.0057 U	0.0059 U
Toluene	6	0.0057 U	0.0059 U
Xylenes, Total	700	0.0057 U	0.0059 U

NRC - No Regulatory Criteria
NA - Not Applicable, the health based threshold level would be exceeded only if free product conditions existed

U - Indicates the compound was not detected at the concentration reported.
J - Indicates that the value for the compound is an estimated value.
UJ - Indicates the compound was not detected at the reported concentration and the concentration was estimated.
= - Indicates the compound was detected at the concentration reported.

Investigation: 50

	Station	50-01	50-02
	Sample ID	5001W2	5002W2
	Date Collected	9/17/93	9/17/93
	Depth	10.0 - 13.0 FT	5.0 - 10.0 FT
Polynuclear Aromatic Hydrocarbons	**EPA MCL UG/L**	**UG/L**	**UG/L**
2-Chloronaphthalene	NA	10 U	10 U
Acenaphthene	NA	10 U	10 U
Acenaphthylene	NA	10 U	10 U
Anthracene	NA	10 U	10 U
Benzo(a)anthracene	NA	10 U	10 U
Benzo(a)pyrene	0.2	10 U	10 U
Benzo(b)fluoranthene	NRC	10 U	10 U
Benzo(g,h,i)perylene	NA	10 U	10 U
Benzo(k)fluoranthene	NRC	10 U	10 U
Chrysene	NRC	10 U	10 U
Dibenzo(a,h)anthracene	NRC	10 U	10 U
Fluoranthene	NA	10 U	10 U
Fluorene	NA	10 U	10 U
Indeno(1,2,3-cd)pyrene	NRC	10 U	10 U
Naphthalene	NA	10 U	10 U
Phenanthrene	NA	10 U	10 U
Pyrene	NA	10 U	10 U
Volatile Organics	**EPA MCL UG/L**	**UG/L**	**UG/L**
Benzene	5	5 U	5 U
Ethylbenzene	700	5 U	0.34 J
Toluene	1000	5 U	5 U
Xylenes, Total	10000	5 U	0.69 J

NRC - No Regulatory Criteria
NA - Not Applicable, the health based threshold level would be exceeded only if free product conditions existed

U - Indicates the compound was not detected at the concentration reported.
J - Indicates that the value for the compound is an estimated value.
UJ - Indicates the compound was not detected at the reported concentration and the concentration was estimated.
= - Indicates the compound was detected at the concentration reported.

Investigation: 50

	Station	50-01	50-02	50-02
	Sample ID	5001C1	5002B1	5002D1
	Date Collected	9/17/96	9/17/96	9/17/96
	Depth	5.0 - 7.5 FT	2.5 - 5.0 FT	7.5 - 10.0 FT
	GDNR Level			
Polynuclear Aromatic Hydrocarbons	**MG/KG**	**MG/KG**	**MG/KG**	**MG/KG**
2-Chloronaphthalene	NA	0.383 U	0.402 U	0.383 U
Acenaphthene	NA	0.383 U	0.402 UJ	0.383 U
Acenaphthylene	NA	0.383 U	0.402 U	0.383 U
Anthracene	NA	0.383 U	0.402 U	0.383 U
Benzo(a)anthracene	NA	0.383 U	0.402 U	0.383 U
Benzo(a)pyrene	NA	0.383 U	0.402 U	0.383 U
Benzo(b)fluoranthene	NA	0.383 U	0.402 U	0.383 U
Benzo(g,h,i)perylene	NA	0.383 U	0.402 U	0.383 U
Benzo(k)fluoranthene	NA	0.383 U	0.402 U	0.383 U
Chrysene	NA	0.383 U	0.402 U	0.383 U
Dibenzo(a,h)anthracene	NA	0.383 U	0.402 U	0.383 U
Fluoranthene	NA	0.383 U	0.402 U	0.383 U
Fluorene	NA	0.383 U	0.402 U	0.383 U
Indeno(1,2,3-cd)pyrene	NA	0.383 U	0.402 U	0.383 U
Naphthalene	NA	0.383 U	0.402 U	0.383 U
Phenanthrene	NA	0.383 U	0.402 U	0.383 U
Pyrene	NA	0.383 U	0.402 U	0.383 U
	GDNR Level			
Petroleum Hydrocarbons	**MG/KG**	**MG/KG**	**MG/KG**	**MG/KG**
Total Petroleum Hydrocarbons	NRC	8 U	3.68 U	23.9 =
	GDNR Level			
Volatile Organics	**MG/KG**	**MG/KG**	**MG/KG**	**MG/KG**
Benzene	0.008	0.0057 U	0.006 U	0.0057 U
Ethylbenzene	10	0.0057 U	0.006 U	0.0057 U
Toluene	6	0.0057 U	0.0078 =	0.0057 U
Xylenes, Total	700	0.0057 U	0.007 U	0.0057 U

NRC - No Regulatory Criteria
NA - Not Applicable, the health based threshold level would be exceeded only if free product conditions existed

U - Indicates the compound was not detected at the concentration reported.
J - Indicates that the value for the compound is an estimated value.
UJ - Indicates the compound was not detected at the reported concentration and the concentration was estimated.
= - Indicates the compound was detected at the concentration reported.

Soil Analytical Results for the
Facility ID #9-089061, UST 229, Site Investigation

Investigation: 49

	Station	49-01	49-02
	Sample ID	4901W2	4902W2
	Date Collected	9/11/96	9/10/96
	Depth	10.0 - 14.0 FT	10.0 - 12.0 FT
Polynuclear Aromatic Hydrocarbons	**EPA MCL UG/L**	**UG/L**	**UG/L**
2-Chloronaphthalene	NA	10 U	10 U
Acenaphthene	NA	10 U	10 U
Acenaphthylene	NA	10 U	10 U
Anthracene	NA	10 U	10 U
Benzo(a)anthracene	NA	10 U	10 U
Benzo(a)pyrene	0.2	10 U	10 U
Benzo(b)fluoranthene	NRC	10 U	10 U
Benzo(g,h,i)perylene	NA	10 U	10 U
Benzo(k)fluoranthene	NRC	10 U	10 U
Chrysene	NRC	10 U	10 U
Dibenzo(a,h)anthracene	NRC	10 U	10 U
Fluoranthene	NA	10 U	10 U
Fluorene	NA	10 U	10 U
Indeno(1,2,3-cd)pyrene	NRC	10 U	10 U
Naphthalene	NA	10 U	10 U
Phenanthrene	NA	10 U	10 U
Pyrene	NA	10 U	10 U
Volatile Organics	**EPA MCL UG/L**	**UG/L**	**UG/L**
Benzene	5	5 U	5 U
Ethylbenzene	700	5 U	5 U
Toluene	1000	5 U	5 U
Xylenes, Total	10000	5 U	5 U

NRC - No Regulatory Criteria
NA - Not Applicable, the health based threshold level would be exceeded only if free product conditions existed

U - Indicates the compound was not detected at the concentration reported.
J - Indicates that the value for the compound is an estimated value.
UJ - Indicates the compound was not detected at the reported concentration and the concentration was estimated.
= - Indicates the compound was detected at the concentration reported.

Investigation: 49

	Station	49-01	49-02	49-02
	Sample ID	4901D1	4902A1	4902C1
	Date Collected	9/11/96	9/10/96	9/10/96
	Depth	7.5 - 10.0 FT	0.7 - 2.5 FT	5.0 - 7.5 FT
	GDNR Level			
Polynuclear Aromatic Hydrocarbons	**MG/KG**	**MG/KG**	**MG/KG**	**MG/KG**
2-Chloronaphthalene	NA	0.386 U	0.394 U	0.392 U
Acenaphthene	NA	0.386 U	0.394 U	0.392 U
Acenaphthylene	NA	0.386 U	0.394 U	0.392 U
Anthracene	NA	0.386 U	0.394 U	0.392 U
Benzo(a)anthracene	NA	0.386 U	0.394 U	0.392 U
Benzo(a)pyrene	NA	0.386 U	0.394 U	0.392 U
Benzo(b)fluoranthene	NA	0.386 U	0.394 U	0.392 U
Benzo(g,h,i)perylene	NA	0.386 U	0.394 U	0.392 U
Benzo(k)fluoranthene	NA	0.386 U	0.394 U	0.392 U
Chrysene	NA	0.386 U	0.394 U	0.392 U
Dibenzo(a,h)anthracene	NA	0.386 U	0.394 U	0.392 U
Fluoranthene	NA	0.386 U	0.394 U	0.392 U
Fluorene	NA	0.386 U	0.394 U	0.392 U
Indeno(1,2,3-cd)pyrene	NA	0.386 U	0.394 U	0.392 U
Naphthalene	NA	0.386 U	0.394 U	0.392 U
Phenanthrene	NA	0.386 U	0.394 U	0.392 U
Pyrene	NA	0.386 U	0.394 U	0.392 U
	GDNR Level			
Petroleum Hydrocarbons	**MG/KG**	**MG/KG**	**MG/KG**	**MG/KG**
Total Petroleum Hydrocarbons	NRC	6.26 UJ	31 UJ	37.2 =
	GDNR Level			
Volatile Organics	**MG/KG**	**MG/KG**	**MG/KG**	**MG/KG**
Benzene	0.008	0.006 U	0.006 U	0.006 U
Ethylbenzene	10	0.006 U	0.006 U	0.006 U
Toluene	6	0.006 U	0.016 =	0.17 J
Xylenes, Total	700	0.006 U	0.006 U	0.006 U

NRC - No Regulatory Criteria
NA - Not Applicable, the health based threshold level would be exceeded only if free product conditions existed

U - Indicates the compound was not detected at the concentration reported.
J - Indicates that the value for the compound is an estimated value.
UJ - Indicates the compound was not detected at the reported concentration and the concentration was estimated.
= - Indicates the compound was detected at the concentration reported.

Soil Analytical Results for the
Facility ID #9-089061, UST 228, Site Investigation

Investigation: 46

	Station	46-01	46-02
	Sample ID	4601W2	4602W2
	Date Collected	9/11/96	9/11/96
	Depth	10.0 - 13.0 FT	5.0 - 9.0 FT
Polynuclear Aromatic Hydrocarbons	**EPA MCL UG/L**	**UG/L**	**UG/L**
2-Chloronaphthalene	NA	10 U	10 U
Acenaphthene	NA	10 U	10 U
Acenaphthylene	NA	10 U	10 U
Anthracene	NA	10 U	10 U
Benzo(a)anthracene	NA	10 U	10 U
Benzo(a)pyrene	0.2	10 U	10 U
Benzo(b)fluoranthene	NRC	10 U	10 U
Benzo(g,h,i)perylene	NA	10 U	10 U
Benzo(k)fluoranthene	NRC	10 U	10 U
Chrysene	NRC	10 U	10 U
Dibenzo(a,h)anthracene	NRC	10 U	10 U
Fluoranthene	NA	10 U	10 U
Fluorene	NA	10 U	10 U
Indeno(1,2,3-cd)pyrene	NRC	10 U	10 U
Naphthalene	NA	10 U	10 U
Phenanthrene	NA	10 U	10 U
Pyrene	NA	10 U	10 U
Volatile Organics	**EPA MCL UG/L**	**UG/L**	**UG/L**
Benzene	5	5 U	5 U
Ethylbenzene	700	5 U	5 U
Toluene	1000	5 U	5 U
Xylenes, Total	10000	5 U	5 U

NRC - No Regulatory Criteria
NA - Not Applicable, the health based threshold level would be exceeded only if free product conditions existed

U - Indicates the compound was not detected at the concentration reported.
J - Indicates that the value for the compound is an estimated value.
UJ - Indicates the compound was not detected at the reported concentration and the concentration was estimated.
= - Indicates the compound was detected at the concentration reported.

Groundwater Analytical Results for the
Facility ID #9-089060, UST 219, Site Investigation

Investigation: 46			
	Station	46-01	46-02
	Sample ID	4601D1	4602B1
	Date Collected	9/11/96	9/11/96
	Depth	7.5 - 10.0 FT	2.5 - 5.0 FT
	GDNR Level		
Polynuclear Aromatic Hydrocarbons	**MG/KG**	**MG/KG**	**MG/KG**
2-Chloronaphthalene	NA	0.369 U	0.41 U
Acenaphthene	NA	0.369 U	1.3 U
Acenaphthylene	NA	0.369 U	0.41 U
Anthracene	NA	0.369 U	0.41 U
Benzo(a)anthracene	NA	0.369 U	0.41 U
Benzo(a)pyrene	NA	0.369 U	0.41 U
Benzo(b)fluoranthene	NA	0.369 U	0.41 U
Benzo(g,h,i)perylene	NA	0.369 U	0.41 U
Benzo(k)fluoranthene	NA	0.369 U	0.41 U
Chrysene	NA	0.369 U	0.41 U
Dibenzo(a,h)anthracene	NA	0.369 U	0.41 U
Fluoranthene	NA	0.369 U	0.41 U
Fluorene	NA	0.369 U	0.41 U
Indeno(1,2,3-cd)pyrene	NA	0.369 U	0.41 U
Naphthalene	NA	0.369 U	0.41 U
Phenanthrene	NA	0.369 U	0.41 U
Pyrene	NA	0.369 U	1.55 U
	GDNR Level		
Petroleum Hydrocarbons	**MG/KG**	**MG/KG**	**MG/KG**
Total Petroleum Hydrocarbons	NRC	95.1 =	12.3 U
	GDNR Level		
Volatile Organics	**MG/KG**	**MG/KG**	**MG/KG**
Benzene	0.008	0.0057 U	0.0062 U
Ethylbenzene	10	0.013 =	0.0062 U
Toluene	6	0.0057 U	0.0062 U
Xylenes, Total	700	0.0057 U	0.0062 U

NRC - No Regulatory Criteria
NA - Not Applicable, the health based threshold level would be exceeded only if free product conditions existed

U - Indicates the compound was not detected at the concentration reported.
J - Indicates that the value for the compound is an estimated value.
UJ - Indicates the compound was not detected at the reported concentration and the concentration was estimated.
= - Indicates the compound was detected at the concentration reported.

Soil Analytical Results for the
Facility ID #9-089060, UST 219, Site Investigation

Investigation: 45

	Station	45-01	45-02
	Sample ID	4501W2	4502W2
	Date Collected	9/8/96	9/8/96
	Depth	5.0 - 9.0 FT	4.0 - 9.0 FT
Polynuclear Aromatic Hydrocarbons	**EPA MCL UG/L**	**UG/L**	**UG/L**
2-Chloronaphthalene	NA	10 U	10 U
Acenaphthene	NA	10 U	10 U
Acenaphthylene	NA	10 U	10 U
Anthracene	NA	10 U	10 U
Benzo(a)anthracene	NA	10 U	10 U
Benzo(a)pyrene	0.2	10 U	10 U
Benzo(b)fluoranthene	NRC	10 U	10 U
Benzo(g,h,i)perylene	NA	10 U	10 U
Benzo(k)fluoranthene	NRC	10 U	10 U
Chrysene	NRC	10 U	10 U
Dibenzo(a,h)anthracene	NRC	10 U	10 U
Fluoranthene	NA	10 U	10 U
Fluorene	NA	10 U	10 U
Indeno(1,2,3-cd)pyrene	NRC	10 U	10 U
Naphthalene	NA	10 U	10 U
Phenanthrene	NA	10 U	10 U
Pyrene	NA	10 U	10 U
Volatile Organics	**EPA MCL UG/L**	**UG/L**	**UG/L**
Benzene	5	0.34 J	5 U
Ethylbenzene	700	0.19 J	5 U
Toluene	1000	5 U	5 U
Xylenes, Total	10000	0.22 J	5 U

NRC - No Regulatory Criteria
NA - Not Applicable, the health based threshold level would be exceeded only if free product conditions existed

U - Indicates the compound was not detected at the concentration reported.
J - Indicates that the value for the compound is an estimated value.
UJ - Indicates the compound was not detected at the reported concentration and the concentration was estimated.
= - Indicates the compound was detected at the concentration reported.

Groundwater Analytical Results for the
Facility ID #9-089060, UST 218, Site Investigation

Investigation: 45

	Station	45-01	45-02
	Sample ID	4501A1	4502A1
	Date Collected	9/8/96	9/8/96
	Depth	1.0 - 2.5 FT	1.0 - 2.5 FT
	GDNR Level		
Polynuclear Aromatic Hydrocarbons	**MG/KG**	**MG/KG**	**MG/KG**
2-Chloronaphthalene	NA	0.364 U	0.376 U
Acenaphthene	NA	0.364 U	0.376 U
Acenaphthylene	NA	0.364 U	0.376 U
Anthracene	NA	0.364 U	0.376 U
Benzo(a)anthracene	NA	0.364 U	0.376 U
Benzo(a)pyrene	NA	0.364 U	0.376 U
Benzo(b)fluoranthene	NA	0.364 U	0.376 U
Benzo(g,h,i)perylene	NA	0.364 U	0.376 U
Benzo(k)fluoranthene	NA	0.364 U	0.376 U
Chrysene	NA	0.364 U	0.376 U
Dibenzo(a,h)anthracene	NA	0.364 U	0.376 U
Fluoranthene	NA	0.364 U	0.376 U
Fluorene	NA	0.364 U	0.376 U
Indeno(1,2,3-cd)pyrene	NA	0.364 U	0.376 U
Naphthalene	NA	0.364 U	0.376 U
Phenanthrene	NA	0.364 U	0.376 U
Pyrene	NA	0.364 U	0.376 U
	GDNR Level		
Petroleum Hydrocarbons	**MG/KG**	**MG/KG**	**MG/KG**
Total Petroleum Hydrocarbons	NRC	23.2 U	32.1 U
	GDNR Level		
Volatile Organics	**MG/KG**	**MG/KG**	**MG/KG**
Benzene	0.008	0.0055 U	0.0057 U
Ethylbenzene	10	0.0055 U	0.0057 U
Toluene	6	0.0076 =	0.011 =
Xylenes, Total	700	0.0057 =	0.0057 U

NRC - No Regulatory Criteria
NA - Not Applicable, the health based threshold level would be exceeded only if free product conditions existed

U - Indicates the compound was not detected at the concentration reported.
J - Indicates that the value for the compound is an estimated value.
UJ - Indicates the compound was not detected at the reported concentration and the concentration was estimated.
= - Indicates the compound was detected at the concentration reported.

Soil Analytical Results for the
Facility ID #9-089060, UST 218, Site Investigation

Investigation: 44

	Station	44-01	44-02
	Sample ID	4401W2	4402W2
	Date Collected	9/8/96	9/8/96
	Depth	4.0 - 9.0 FT	10.0 - 13.0 FT
Polynuclear Aromatic Hydrocarbons	**EPA MCL UG/L**	**UG/L**	**UG/L**
2-Chloronaphthalene	NA	40 U	10 U
Acenaphthene	NA	40 U	10 U
Acenaphthylene	NA	40 U	10 U
Anthracene	NA	40 U	10 U
Benzo(a)anthracene	NA	40 U	10 U
Benzo(a)pyrene	0.2	40 U	10 U
Benzo(b)fluoranthene	NRC	40 U	10 U
Benzo(g,h,i)perylene	NA	40 U	10 U
Benzo(k)fluoranthene	NRC	40 U	10 U
Chrysene	NRC	40 U	10 U
Dibenzo(a,h)anthracene	NRC	40 U	10 U
Fluoranthene	NA	40 U	10 U
Fluorene	NA	40 U	10 U
Indeno(1,2,3-cd)pyrene	NRC	40 U	10 U
Naphthalene	NA	40 U	10 U
Phenanthrene	NA	40 U	10 U
Pyrene	NA	40 U	10 U
Volatile Organics	**EPA MCL UG/L**	**UG/L**	**UG/L**
Benzene	5	0.3 J	0.3 J
Ethylbenzene	700	5 U	0.41 J
Toluene	1000	5 U	5 U
Xylenes, Total	10000	5 U	0.7 J

NRC - No Regulatory Criteria
NA - Not Applicable, the health based threshold level would be exceeded only if free product conditions existed

U - Indicates the compound was not detected at the concentration reported.
J - Indicates that the value for the compound is an estimated value.
UJ - Indicates the compound was not detected at the reported concentration and the concentration was estimated.
= - Indicates the compound was detected at the concentration reported.

Groundwater Analytical Results for the
Facility ID #9-089060, UST 217, Site Investigation

Investigation: 44

	Station	44-01	44-01	44-02	44-02
	Sample ID	4401A1	4401B1	4402B1	4402D1
	Date Collected	9/8/96	9/8/96	9/8/96	9/8/96
	Depth	1.0 - 2.5 FT	2.5 - 5.0 FT	2.5 - 5.0 FT	7.5 - 10.0 FT
	GDNR Level				
Polynuclear Aromatic Hydrocarbons	**MG/KG**	**MG/KG**	**MG/KG**	**MG/KG**	**MG/KG**
2-Chloronaphthalene	NA	0.36 U	0.366 U	0.398 U	0.379 U
Acenaphthene	NA	0.36 U	0.366 U	0.398 U	0.379 U
Acenaphthylene	NA	0.36 U	0.366 U	0.398 U	0.379 U
Anthracene	NA	0.36 U	0.366 U	0.398 U	0.379 U
Benzo(a)anthracene	NA	0.36 U	0.366 U	0.398 U	0.379 U
Benzo(a)pyrene	NA	0.36 U	0.366 U	0.398 U	0.379 U
Benzo(b)fluoranthene	NA	0.36 U	0.366 U	0.398 U	0.379 U
Benzo(g,h,i)perylene	NA	0.36 U	0.366 U	0.398 U	0.379 U
Benzo(k)fluoranthene	NA	0.36 U	0.366 U	0.398 U	0.379 U
Chrysene	NA	0.36 U	0.366 U	0.398 U	0.379 U
Dibenzo(a,h)anthracene	NA	0.36 U	0.366 U	0.398 U	0.379 U
Fluoranthene	NA	0.36 U	0.366 U	0.0765 J	0.379 U
Fluorene	NA	0.36 U	0.366 U	0.398 U	0.379 U
Indeno(1,2,3-cd)pyrene	NA	0.36 U	0.366 U	0.398 U	0.379 U
Naphthalene	NA	0.36 U	0.366 U	0.398 U	0.379 U
Phenanthrene	NA	0.36 U	0.366 U	0.398 U	0.379 U
Pyrene	NA	0.36 U	0.366 U	0.0474 J	0.379 U
	GDNR Level				
Petroleum Hydrocarbons	**MG/KG**	**MG/KG**	**MG/KG**	**MG/KG**	**MG/KG**
Total Petroleum Hydrocarbons	NRC	134 =	14 U	26.6 U	29.9 =
	GDNR Level				
Volatile Organics	**MG/KG**	**MG/KG**	**MG/KG**	**MG/KG**	**MG/KG**
Benzene	0.008	0.0054 U	0.0056 U	0.006 U	0.0057 U
Ethylbenzene	10	0.0054 U	0.0056 U	0.006 U	0.0057 U
Toluene	6	0.0054 U	0.016 J	0.0086 =	0.0057 U
Xylenes, Total	700	0.0054 U	0.0056 U	0.006 U	0.0057 U

NRC - No Regulatory Criteria
NA - Not Applicable, the health based threshold level would be exceeded only if free product conditions existed

U - Indicates the compound was not detected at the concentration reported.
J - Indicates that the value for the compound is an estimated value.
UJ - Indicates the compound was not detected at the reported concentration and the concentration was estimated.
= - Indicates the compound was detected at the concentration reported.

Soil Analytical Results for the
Facility ID #9-089060, UST 217, Site Investigation

Investigation: 29

	Station	29-01	29-02
	Sample ID	2901W2	2902W2
	Date Collected	9/18/96	9/18/96
	Depth	5.0 - 8.0 FT	9.0 - 14.0 FT
Polynuclear Aromatic Hydrocarbons	**EPA MCL UG/L**	**UG/L**	
2-Chloronaphthalene	NA	10 U	IV
Acenaphthene	NA	10 U	IV
Acenaphthylene	NA	10 U	IV
Anthracene	NA	10 U	IV
Benzo(a)anthracene	NA	10 U	IV
Benzo(a)pyrene	0.2	10 U	IV
Benzo(b)fluoranthene	NRC	10 U	IV
Benzo(g,h,i)perylene	NA	10 U	IV
Benzo(k)fluoranthene	NRC	10 U	IV
Chrysene	NRC	10 U	IV
Dibenzo(a,h)anthracene	NRC	10 U	IV
Fluoranthene	NA	10 U	IV
Fluorene	NA	10 U	IV
Indeno(1,2,3-cd)pyrene	NRC	10 U	IV
Naphthalene	NA	10 U	IV
Phenanthrene	NA	10 U	IV
Pyrene	NA	10 U	IV
Volatile Organics	**EPA MCL UG/L**	**UG/L**	**UG/L**
Benzene	5	5 U	5 U
Ethylbenzene	700	5 U	5 U
Toluene	1000	5 U	5 U
Xylenes, Total	10000	5 U	5 U

NRC - No Regulatory Criteria
NA - Not Applicable, the health based threshold level would be exceeded only if free product conditions existed
IV - Insufficient volume to collect sample for analysis

U - Indicates the compound was not detected at the concentration reported.
J - Indicates that the value for the compound is an estimated value.
UJ - Indicates the compound was not detected at the reported concentration and the concentration was estimated.
= - Indicates the compound was detected at the concentration reported.

Investigation: 29

	Station	29-01	29-01	29-02
	Sample ID	2901A1	2901B1	2902B1
	Date Collected	9/18/96	9/18/96	9/18/96
	Depth	1.0 - 2.5 FT	2.5 - 5.0 FT	2.5 - 5.0 FT
	GDNR Level			
Polynuclear Aromatic Hydrocarbons	**MG/KG**	**MG/KG**	**MG/KG**	**MG/KG**
2-Chloronaphthalene	NA	0.362 U	1.51 U	0.407 U
Acenaphthene	NA	0.362 U	1.51 U	0.407 U
Acenaphthylene	NA	0.362 U	1.51 U	0.407 U
Anthracene	NA	0.362 U	1.51 U	0.407 U
Benzo(a)anthracene	NA	0.362 U	1.51 U	0.407 U
Benzo(a)pyrene	NA	0.362 U	1.51 U	0.407 U
Benzo(b)fluoranthene	NA	0.362 U	1.51 U	0.407 U
Benzo(g,h,i)perylene	NA	0.362 U	1.51 U	0.407 U
Benzo(k)fluoranthene	NA	0.362 U	1.51 U	0.407 U
Chrysene	NA	0.362 U	1.51 U	0.407 U
Dibenzo(a,h)anthracene	NA	0.362 U	1.51 U	0.407 U
Fluoranthene	NA	0.362 U	1.51 U	0.407 U
Fluorene	NA	0.362 U	1.51 U	0.407 U
Indeno(1,2,3-cd)pyrene	NA	0.362 U	1.51 U	0.407 U
Naphthalene	NA	0.362 U	1.51 U	0.407 U
Phenanthrene	NA	0.362 U	1.51 U	0.407 U
Pyrene	NA	0.362 U	1.51 U	0.407 U
	GDNR Level			
Petroleum Hydrocarbons	**MG/KG**	**MG/KG**	**MG/KG**	**MG/KG**
Total Petroleum Hydrocarbons	NRC	119 =	66 =	11 U
	GDNR Level			
Volatile Organics	**MG/KG**	**MG/KG**	**MG/KG**	**MG/KG**
Benzene	0.008	0.0055 U	0.0057 U	0.0062 U
Ethylbenzene	10	0.0055 U	0.0057 U	0.0062 U
Toluene	6	0.0055 U	0.0057 U	0.0062 U
Xylenes, Total	700	0.0055 U	0.0057 U	0.0062 U

NRC - No Regulatory Criteria
NA - Not Applicable, the health based threshold level would be exceeded only if free product conditions existed

U - Indicates the compound was not detected at the concentration reported.
J - Indicates that the value for the compound is an estimated value.
UJ - Indicates the compound was not detected at the reported concentration and the concentration was estimated.
= - Indicates the compound was detected at the concentration reported.

Soil Analytical Results for the
Facility ID #9-089105, UST 76, Site Investigation

Investigation: 21

	Station	21-01	21-02
	Sample ID	2101W2	2102W2
	Date Collected	9/5/96	9/5/96
	Depth	10.0 - 12.0 FT	10.0 - 12.0 FT
Polynuclear Aromatic Hydrocarbons	**EPA MCL UG/L**	**UG/L**	**UG/L**
2-Chloronaphthalene	NA	10 U	10 U
Acenaphthene	NA	10 U	10 U
Acenaphthylene	NA	10 U	10 U
Anthracene	NA	10 U	10 U
Benzo(a)anthracene	NA	10 U	10 U
Benzo(a)pyrene	0.2	10 U	10 U
Benzo(b)fluoranthene	NRC	10 U	10 U
Benzo(g,h,i)perylene	NA	10 U	10 U
Benzo(k)fluoranthene	NRC	10 U	10 U
Chrysene	NRC	10 U	10 U
Dibenzo(a,h)anthracene	NRC	10 U	10 U
Fluoranthene	NA	10 U	10 U
Fluorene	NA	10 U	10 U
Indeno(1,2,3-cd)pyrene	NRC	10 U	10 U
Naphthalene	NA	10 U	10 U
Phenanthrene	NA	10 U	10 U
Pyrene	NA	10 U	10 U
Volatile Organics	**EPA MCL UG/L**	**UG/L**	**UG/L**
Benzene	5	5 U	5 U
Ethylbenzene	700	5 U	5 U
Toluene	1000	5 U	5 U
Xylenes, Total	10000	5 U	5 U

NRC - No Regulatory Criteria
NA - Not Applicable, the health based threshold level would be exceeded only if free product conditions existed

U - Indicates the compound was not detected at the concentration reported.
J - Indicates that the value for the compound is an estimated value.
UJ - Indicates the compound was not detected at the reported concentration and the concentration was estimated.
= - Indicates the compound was detected at the concentration reported.

Groundwater Analytical Results for the
Facility ID #9-089050, UST-52, Site Investigation

Investigation: 21

	Station	21-01	21-01	21-02	21-02
	Sample ID	2101B1	2101C1	2102B1	2102C1
	Date Collected	9/5/96	9/5/96	9/5/96	9/5/96
	Depth	2.5 - 5.0 FT	5.0 - 7.5 FT	2.5 - 5.0 FT	5.0 - 7.5 FT
	GDNR Level				
Polynuclear Aromatic Hydrocarbons	**MG/KG**	**MG/KG**	**MG/KG**	**MG/KG**	**MG/KG**
2-Chloronaphthalene	NA	0.358 U	0.431 U	0.363 U	0.424 U
Acenaphthene	NA	0.358 U	0.431 U	0.363 U	0.424 U
Acenaphthylene	NA	0.358 U	0.431 U	0.363 U	0.424 U
Anthracene	NA	0.358 U	0.431 U	0.363 U	0.424 U
Benzo(a)anthracene	NA	0.358 U	0.431 U	0.363 U	0.424 U
Benzo(a)pyrene	NA	0.358 U	0.431 U	0.363 U	0.424 U
Benzo(b)fluoranthene	NA	0.358 U	0.431 U	0.363 U	0.424 U
Benzo(g,h,i)perylene	NA	0.358 U	0.431 U	0.363 U	0.424 U
Benzo(k)fluoranthene	NA	0.358 U	0.431 U	0.363 U	0.424 U
Chrysene	NA	0.358 U	0.431 U	0.363 U	0.424 U
Dibenzo(a,h)anthracene	NA	0.358 U	0.431 U	0.363 U	0.424 U
Fluoranthene	NA	0.358 U	0.431 U	0.363 U	0.424 U
Fluorene	NA	0.358 U	0.431 U	0.363 U	0.424 U
Indeno(1,2,3-cd)pyrene	NA	0.358 U	0.431 U	0.363 U	0.424 U
Naphthalene	NA	0.358 U	0.431 U	0.363 U	0.424 U
Phenanthrene	NA	0.358 U	0.431 U	0.363 U	0.424 U
Pyrene	NA	0.358 U	0.431 U	0.363 U	0.424 U
	GDNR Level				
Petroleum Hydrocarbons	**MG/KG**	**MG/KG**	**MG/KG**	**MG/KG**	**MG/KG**
TPH-Diesel Range Organics	NRC	0.52 J	0.42 J	42.6 =	1 =
TPH-Gasoline Range Organics	NRC	0.0236 J	0.031 J	0.0279 J	0.0602 J
	GDNR Level				
Volatile Organics	**MG/KG**	**MG/KG**	**MG/KG**	**MG/KG**	**MG/KG**
Benzene	0.008	0.0054 U	0.0065 U	0.0055 U	0.0065 U
Ethylbenzene	10	0.0054 U	0.0065 U	0.0055 U	0.0065 U
Toluene	6	0.0054 U	0.0065 U	0.0055 U	0.0065 U
Xylenes, Total	700	0.0054 U	0.0065 U	0.0055 U	0.0065 U

NRC - No Regulatory Criteria
NA - Not Applicable, the health based threshold level would be exceeded only if free product conditions existed

U - Indicates the compound was not detected at the concentration reported.
J - Indicates that the value for the compound is an estimated value.
UJ - Indicates the compound was not detected at the reported concentration and the concentration was estimated.
= - Indicates the compound was detected at the concentration reported.

Soil Analytical Results for the
Facility ID #9-089050, UST 52, Site Investigation

Investigation: 20

	Station	20-01	20-02
	Sample ID	2001W2	2002W2
	Date Collected	9/7/96	9/7/96
	Depth	10.0 - 11.0 FT	10.0 - 10.5 FT
Polynuclear Aromatic Hydrocarbons	**EPA MCL UG/L**	**UG/L**	**UG/L**
2-Chloronaphthalene	NA	10 U	10 U
Acenaphthene	NA	10 U	10 U
Acenaphthylene	NA	10 U	10 U
Anthracene	NA	10 U	10 U
Benzo(a)anthracene	NA	10 U	10 U
Benzo(a)pyrene	0.2	10 U	10 U
Benzo(b)fluoranthene	NRC	10 U	10 U
Benzo(g,h,i)perylene	NA	10 U	10 U
Benzo(k)fluoranthene	NRC	10 U	10 U
Chrysene	NRC	10 U	10 U
Dibenzo(a,h)anthracene	NRC	10 U	10 U
Fluoranthene	NA	10 U	10 U
Fluorene	NA	10 U	10 U
Indeno(1,2,3-cd)pyrene	NRC	10 U	10 U
Naphthalene	NA	10 U	10 U
Phenanthrene	NA	10 U	10 U
Pyrene	NA	10 U	10 U
Volatile Organics	**EPA MCL UG/L**	**UG/L**	**UG/L**
Benzene	5	5 U	5 U
Ethylbenzene	700	5 U	5 U
Toluene	1000	5 U	5 U
Xylenes, Total	10000	5 U	5 U

NRC - No Regulatory Criteria
NA - Not Applicable, the health based threshold level would be exceeded only if free product conditions existed

U - Indicates the compound was not detected at the concentration reported.
J - Indicates that the value for the compound is an estimated value.
UJ - Indicates the compound was not detected at the reported concentration and the concentration was estimated.
= - Indicates the compound was detected at the concentration reported.

Groundwater Analytical Results for the
Facility ID #9-089113, UST 51, Site Investigation

Investigation: 20					
	Station	20-01	20-01	20-02	20-02
	Sample ID	2001B1	2001D1	2002A1	2002D1
	Date Collected	9/7/96	9/7/96	9/7/96	9/7/96
	Depth	2.5 - 5.0 FT	7.5 - 10.0 FT	1.0 - 2.5 FT	7.5 - 10.0 FT
	GDNR Level				
Polynuclear Aromatic Hydrocarbons	**MG/KG**	**MG/KG**	**MG/KG**	**MG/KG**	**MG/KG**
2-Chloronaphthalene	NA	0.361 U	0.516 U	0.348 U	0.367 U
Acenaphthene	NA	0.361 U	0.516 U	0.348 U	0.367 U
Acenaphthylene	NA	0.361 U	0.516 U	0.348 U	0.367 U
Anthracene	NA	0.361 U	0.516 U	0.348 U	0.367 U
Benzo(a)anthracene	NA	0.361 U	0.516 U	0.348 U	0.367 U
Benzo(a)pyrene	NA	0.361 U	0.516 U	0.348 U	0.367 U
Benzo(b)fluoranthene	NA	0.361 U	0.516 U	0.348 U	0.367 U
Benzo(g,h,i)perylene	NA	0.361 U	0.516 U	0.348 U	0.367 U
Benzo(k)fluoranthene	NA	0.361 U	0.516 U	0.348 U	0.367 U
Chrysene	NA	0.361 U	0.516 U	0.348 U	0.367 U
Dibenzo(a,h)anthracene	NA	0.361 U	0.516 U	0.348 U	0.367 U
Fluoranthene	NA	0.361 U	0.516 U	0.348 U	0.367 U
Fluorene	NA	0.361 U	0.516 U	0.348 U	0.367 U
Indeno(1,2,3-cd)pyrene	NA	0.361 U	0.516 U	0.348 U	0.367 U
Naphthalene	NA	0.361 U	0.516 U	0.348 U	0.367 U
Phenanthrene	NA	0.361 U	0.516 U	0.348 U	0.367 U
Pyrene	NA	0.361 U	0.516 U	0.348 U	0.367 U
	GDNR Level				
Petroleum Hydrocarbons	**MG/KG**	**MG/KG**	**MG/KG**	**MG/KG**	**MG/KG**
TPH-Diesel Range Organics	NRC	1.2 =	0.55 U	2.7 =	0.94 U
TPH-Gasoline Range Organics	NRC	0.11 UJ	0.159 U	0.106 UJ	0.111 U
	GDNR Level				
Volatile Organics	**MG/KG**	**MG/KG**	**MG/KG**	**MG/KG**	**MG/KG**
Benzene	0.008	0.0055 U	0.0079 U	0.0053 U	0.005 U
Ethylbenzene	10	0.0055 U	0.0079 U	0.0053 U	0.005 U
Toluene	6	0.0055 U	0.0079 U	0.0053 U	0.005 U
Xylenes, Total	700	0.0055 U	0.0079 U	0.0053 U	0.005 U

NRC - No Regulatory Criteria
NA - Not Applicable, the health based threshold level would be exceeded only if free product conditions existed

U - Indicates the compound was not detected at the concentration reported.
J - Indicates that the value for the compound is an estimated value.
UJ - Indicates the compound was not detected at the reported concentration and the concentration was estimated.
= - Indicates the compound was detected at the concentration reported.

Soil Analytical Results for the
Facility ID #9-089113, UST 51, Site Investigation

Investigation: 19

	Station	19-01	19-02
	Sample ID	1901W2	1902W2
	Date Collected	9/5/96	9/5/96
	Depth	13.0 - 14.0 FT	12.5 - 14.0 FT
Polynuclear Aromatic Hydrocarbons	**EPA MCL UG/L**	**UG/L**	**UG/L**
2-Chloronaphthalene	NA	10 U	10 U
Acenaphthene	NA	10 U	10 U
Acenaphthylene	NA	10 U	10 U
Anthracene	NA	10 U	10 U
Benzo(a)anthracene	NA	10 U	10 U
Benzo(a)pyrene	0.2	10 U	10 U
Benzo(b)fluoranthene	NRC	10 U	10 U
Benzo(g,h,i)perylene	NA	10 U	10 U
Benzo(k)fluoranthene	NRC	10 U	10 U
Chrysene	NRC	10 U	10 U
Dibenzo(a,h)anthracene	NRC	10 U	10 U
Fluoranthene	NA	10 U	10 U
Fluorene	NA	10 U	10 U
Indeno(1,2,3-cd)pyrene	NRC	10 U	10 U
Naphthalene	NA	10 U	10 U
Phenanthrene	NA	10 U	10 U
Pyrene	NA	10 U	10 U
Volatile Organics	**EPA MCL UG/L**	**UG/L**	**UG/L**
Benzene	5	5 U	5 U
Ethylbenzene	700	0.69 J	0.26 J
Toluene	1000	2.8 J	5 U
Xylenes, Total	10000	3.8 J	0.4 J

NRC - No Regulatory Criteria
NA - Not Applicable, the health based threshold level would be exceeded only if free product conditions existed

U - Indicates the compound was not detected at the concentration reported.
J - Indicates that the value for the compound is an estimated value.
UJ - Indicates the compound was not detected at the reported concentration and the concentration was estimated.
= - Indicates the compound was detected at the concentration reported.

Groundwater Analytical Results for the
Facility ID #9-089055, UST 50, Site Investigation

Investigation: 19				
	Station	19-01	19-01	19-02
	Sample ID	1901B1	1901E1	1902E1
	Date Collected	9/5/96	9/5/96	9/5/96
	Depth	2.5 - 5.0 FT	10.0 - 12.5 FT	10.0 - 12.5 FT
	GDNR Level			
Polynuclear Aromatic Hydrocarbons	**MG/KG**	**MG/KG**	**MG/KG**	**MG/KG**
2-Chloronaphthalene	NA	0.371 U	0.382 U	0.415 U
Acenaphthene	NA	0.371 U	0.382 U	0.415 U
Acenaphthylene	NA	0.371 U	0.382 U	0.415 U
Anthracene	NA	0.371 U	0.382 U	0.415 U
Benzo(a)anthracene	NA	0.371 U	0.382 U	0.415 U
Benzo(a)pyrene	NA	0.371 U	0.382 U	0.415 U
Benzo(b)fluoranthene	NA	0.371 U	0.382 U	0.415 U
Benzo(g,h,i)perylene	NA	0.371 U	0.382 U	0.415 U
Benzo(k)fluoranthene	NA	0.371 U	0.382 U	0.415 U
Chrysene	NA	0.371 U	0.382 U	0.415 U
Dibenzo(a,h)anthracene	NA	0.371 U	0.382 U	0.415 U
Fluoranthene	NA	0.371 U	0.382 U	0.415 U
Fluorene	NA	0.371 U	0.382 U	0.415 U
Indeno(1,2,3-cd)pyrene	NA	0.371 U	0.382 U	0.415 U
Naphthalene	NA	0.371 U	0.382 U	0.415 U
Phenanthrene	NA	0.371 U	0.382 U	0.415 U
Pyrene	NA	0.371 U	0.382 U	0.415 U
	GDNR Level			
Petroleum Hydrocarbons	**MG/KG**	**MG/KG**	**MG/KG**	**MG/KG**
TPH-Diesel Range Organics	NRC	5.6 J	72.6 =	0.39 J
TPH-Gasoline Range Organics	NRC	0.029 J	0.0602 J	0.0748 J
	GDNR Level			
Volatile Organics	**MG/KG**	**MG/KG**	**MG/KG**	**MG/KG**
Benzene	0.008	0.0056 U	0.0057 U	0.0062 U
Ethylbenzene	10	0.0056 U	0.0057 U	0.0062 U
Toluene	6	0.0056 U	0.0057 U	0.0062 U
Xylenes, Total	700	0.0056 U	0.0057 U	0.0062 U

NRC - No Regulatory Criteria
NA - Not Applicable, the health based threshold level would be exceeded only if free product conditions existed

U - Indicates the compound was not detected at the concentration reported.
J - Indicates that the value for the compound is an estimated value.
UJ - Indicates the compound was not detected at the reported concentration and the concentration was estimated.
= - Indicates the compound was detected at the concentration reported.

Soil Analytical Results for the
Facility ID #9-089055, UST 50, Site Investigation

Investigation: 17

	Station	17-01	17-02
	Sample ID	1701W2	1702W2
	Date Collected	9/20/96	9/20/96
	Depth	5.0 - 8.0 FT	7.2 - 9.0 FT
Polynuclear Aromatic Hydrocarbons	**EPA MCL UG/L**	**UG/L**	**UG/L**
2-Chloronaphthalene	NA	40 UJ	103 UJ
Acenaphthene	NA	40 UJ	103 UJ
Acenaphthylene	NA	40 UJ	103 UJ
Anthracene	NA	40 UJ	103 UJ
Benzo(a)anthracene	NA	40 UJ	103 UJ
Benzo(a)pyrene	0.2	40 UJ	103 UJ
Benzo(b)fluoranthene	NRC	40 UJ	103 UJ
Benzo(g,h,i)perylene	NA	40 UJ	103 UJ
Benzo(k)fluoranthene	NRC	40 UJ	103 UJ
Chrysene	NRC	40 UJ	103 UJ
Dibenzo(a,h)anthracene	NRC	40 UJ	103 UJ
Fluoranthene	NA	40 UJ	103 UJ
Fluorene	NA	40 UJ	103 UJ
Indeno(1,2,3-cd)pyrene	NRC	40 UJ	103 UJ
Naphthalene	NA	40 UJ	103 UJ
Phenanthrene	NA	40 UJ	103 UJ
Pyrene	NA	40 UJ	103 UJ
Volatile Organics	**EPA MCL UG/L**	**UG/L**	**UG/L**
Benzene	5	5 U	5 U
Ethylbenzene	700	5 U	5 U
Toluene	1000	5 U	5 U
Xylenes, Total	10000	5 U	5 U

NRC - No Regulatory Criteria
NA - Not Applicable, the health based threshold level would be exceeded only if free product conditions existed

U - Indicates the compound was not detected at the concentration reported.
J - Indicates that the value for the compound is an estimated value.
UJ - Indicates the compound was not detected at the reported concentration and the concentration was estimated.
= - Indicates the compound was detected at the concentration reported.

Groundwater Analytical Results for the
Facility ID #9-089014, UST 42, Site Investigation

Investigation: 17

	Station	17-01	17-02
	Sample ID	1701A1	1702B1
	Date Collected	9/20/96	9/20/96
	Depth	1.0 - 2.5 FT	2.5 - 5.0 FT
	GDNR Level		
Polynuclear Aromatic Hydrocarbons	**MG/KG**	**MG/KG**	**MG/KG**
2-Chloronaphthalene	NA	0.396 U	0.364 U
Acenaphthene	NA	0.396 U	0.364 U
Acenaphthylene	NA	0.396 U	0.364 U
Anthracene	NA	0.396 U	0.364 U
Benzo(a)anthracene	NA	0.396 U	0.364 U
Benzo(a)pyrene	NA	0.396 U	0.364 U
Benzo(b)fluoranthene	NA	0.396 U	0.364 U
Benzo(g,h,i)perylene	NA	0.396 U	0.364 U
Benzo(k)fluoranthene	NA	0.396 U	0.364 U
Chrysene	NA	0.396 U	0.364 U
Dibenzo(a,h)anthracene	NA	0.396 U	0.364 U
Fluoranthene	NA	0.396 U	0.364 U
Fluorene	NA	0.396 U	0.364 U
Naphthalene	NA	0.396 U	0.364 U
Phenanthrene	NA	0.396 U	0.364 U
Pyrene	NA	0.396 U	0.364 U
	GDNR Level		
Petroleum Hydrocarbons	**MG/KG**	**MG/KG**	**MG/KG**
Total Petroleum Hydrocarbons	NRC	99.6 =	14.9 U
	GDNR Level		
Volatile Organics	**MG/KG**	**MG/KG**	**MG/KG**
Benzene	0.008	0.0061 U	0.0056 U
Ethylbenzene	10	0.0061 U	0.0056 U
Toluene	6	0.0061 U	0.0056 U
Xylenes, Total	700	0.0061 U	0.0056 U

NRC - No Regulatory Criteria
NA - Not Applicable, the health based threshold level would be exceeded only if free product conditions existed

U - Indicates the compound was not detected at the concentration reported.
J - Indicates that the value for the compound is an estimated value.
UJ - Indicates the compound was not detected at the reported concentration and the concentration was estimated.
= - Indicates the compound was detected at the concentration reported.

Soil Analytical Results for the
Facility ID #9-089014, UST 42, Site Investigation

Investigation: 16

	Station	16-01	16-02
	Sample ID	1601W2	1602W2
	Date Collected	9/6/96	9/6/96
	Depth	5.0 - 8.0 FT	5.0 - 8.0 FT
Polynuclear Aromatic Hydrocarbons	**EPA MCL UG/L**	**UG/L**	**UG/L**
2-Chloronaphthalene	NA	10 U	10 U
Acenaphthene	NA	8.7 J	10 U
Acenaphthylene	NA	10 U	10 U
Anthracene	NA	10 U	10 U
Benzo(a)anthracene	NA	10 U	10 U
Benzo(a)pyrene	0.2	10 U	10 U
Benzo(b)fluoranthene	NRC	10 U	10 U
Benzo(g,h,i)perylene	NA	10 U	10 U
Benzo(k)fluoranthene	NRC	10 U	10 U
Chrysene	NRC	10 U	10 U
Dibenzo(a,h)anthracene	NRC	10 U	10 U
Fluoranthene	NA	10 U	10 U
Fluorene	NA	10 U	10 U
Indeno(1,2,3-cd)pyrene	NRC	10 U	10 U
Naphthalene	NA	10 U	10 U
Phenanthrene	NA	10 U	10 U
Pyrene	NA	10 U	10 U
Volatile Organics	**EPA MCL UG/L**	**UG/L**	**UG/L**
Benzene	5	5 U	0.42 J
Ethylbenzene	700	0.04 J	2.4 J
Toluene	1000	5 U	5 U
Xylenes, Total	10000	5 U	3.6 J

NRC - No Regulatory Criteria
NA - Not Applicable, the health based threshold level would be exceeded only if free product conditions existed

U - Indicates the compound was not detected at the concentration reported.
J - Indicates that the value for the compound is an estimated value.
UJ - Indicates the compound was not detected at the reported concentration and the concentration was estimated.
= - Indicates the compound was detected at the concentration reported.

Groundwater Analytical Results for the
Facility ID #9-089016, USTs 36 and 37, Site Investigation

Investigation: 16

	Station	16-01	16-02	16-02
	Sample ID	1601B1	1602A1	1602B1
	Date Collected	9/6/96	9/6/96	9/6/96
	Depth	2.5 - 5.0 FT	1.0 - 2.5 FT	2.5 - 5.0 FT
	GDNR Level			
Polynuclear Aromatic Hydrocarbons	**MG/KG**	**MG/KG**	**MG/KG**	**MG/KG**
2-Chloronaphthalene	NA	0.394 U	0.348 U	0.364 U
Acenaphthene	NA	0.394 U	0.348 U	0.364 U
Acenaphthylene	NA	0.394 U	0.348 U	0.364 U
Anthracene	NA	0.394 U	0.348 U	0.364 U
Benzo(a)anthracene	NA	0.394 U	0.348 U	0.682 =
Benzo(a)pyrene	NA	0.394 U	0.348 U	0.727 =
Benzo(b)fluoranthene	NA	0.394 U	0.348 U	0.81 =
Benzo(g,h,i)perylene	NA	0.394 U	0.348 U	0.427 =
Benzo(k)fluoranthene	NA	0.394 U	0.348 U	0.386 =
Chrysene	NA	0.394 U	0.348 U	0.853 =
Dibenzo(a,h)anthracene	NA	0.394 U	0.348 U	0.364 U
Fluoranthene	NA	0.394 U	0.348 U	1.72 =
Fluorene	NA	0.394 U	0.348 U	0.364 U
Indeno(1,2,3-cd)pyrene	NA	0.394 U	0.348 U	0.448 =
Naphthalene	NA	0.394 U	0.348 U	0.364 U
Phenanthrene	NA	0.394 U	0.348 U	0.364 U
Pyrene	NA	0.394 U	0.348 U	2.19 =
	GDNR Level			
Petroleum Hydrocarbons	**MG/KG**	**MG/KG**	**MG/KG**	**MG/KG**
TPH-Diesel Range Organics	NRC	37.18 =	0.43 U	16.7 =
TPH-Gasoline Range Organics	NRC	0.359 J	0.106 U	0.112 UJ
	GDNR Level			
Volatile Organics	**MG/KG**	**MG/KG**	**MG/KG**	**MG/KG**
Benzene	0.008	0.006 U	0.0053 U	0.0056 U
Ethylbenzene	10	0.006 U	0.0053 U	0.0056 U
Toluene	6	0.006 U	0.0053 U	0.0056 U
Xylenes, Total	700	0.006 U	0.0053 U	0.0056 U

NRC - No Regulatory Criteria
NA - Not Applicable, the health based threshold level would be exceeded only if free product conditions existed

U - Indicates the compound was not detected at the concentration reported.
J - Indicates that the value for the compound is an estimated value.
UJ - Indicates the compound was not detected at the reported concentration and the concentration was estimated.
= - Indicates the compound was detected at the concentration reported.

Soil Analytical Results for the
Facility ID #9-089016, USTs 36 and 37, Site Investigation

Investigation: 12

	Station	12-01	12-02
	Sample ID	1201W2	1202W2
	Date Collected	9/17/96	9/17/96
	Depth	5.0 - 8.0 FT	10.0 - 13.0 FT
Polynuclear Aromatic Hydrocarbons	**EPA MCL UG/L**	**UG/L**	**UG/L**
2-Chloronaphthalene	NA	10 U	10 U
Acenaphthene	NA	10 U	10 U
Acenaphthylene	NA	10 U	10 U
Anthracene	NA	10 U	10 U
Benzo(a)anthracene	NA	10 U	10 U
Benzo(a)pyrene	0.2	10 U	10 U
Benzo(b)fluoranthene	NRC	10 U	10 U
Benzo(g,h,i)perylene	NA	10 U	10 U
Benzo(k)fluoranthene	NRC	10 U	10 U
Chrysene	NRC	10 U	10 U
Dibenzo(a,h)anthracene	NRC	10 U	10 U
Fluoranthene	NA	10 U	10 U
Fluorene	NA	10 U	10 U
Indeno(1,2,3-cd)pyrene	NRC	10 U	10 U
Naphthalene	NA	7 J	10 U
Phenanthrene	NA	10 U	10 U
Pyrene	NA	10 U	10 U
Volatile Organics	**EPA MCL UG/L**	**UG/L**	**UG/L**
Benzene	5	5 U	5 U
Ethylbenzene	700	5 U	5 U
Toluene	1000	5 U	5 U
Xylenes, Total	10000	5 U	5 U

NRC - No Regulatory Criteria
NA - Not Applicable, the health based threshold level would be exceeded only if free product conditions existed

U - Indicates the compound was not detected at the concentration reported.
J - Indicates that the value for the compound is an estimated value.
UJ - Indicates the compound was not detected at the reported concentration and the concentration was estimated.
= - Indicates the compound was detected at the concentration reported.

Groundwater Analytical Results for the
Facility ID #9-089011, UST 23, Site Investigation

Investigation: 12

	Station	12-01	12-01	12-02	12-02
	Sample ID	1201A1	1201B1	1202B1	1202D1
	Date Collected	9/17/96	9/17/96	9/17/96	9/17/96
	Depth	1.2 - 2.5 FT	2.5 - 5.0 FT	2.5 - 5.0 FT	7.5 - 10.0 FT
	GDNR Level				
Polynuclear Aromatic Hydrocarbons	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
2-Chloronaphthalene	NA	0.383 U	0.409 U	0.383 U	0.412 U
Acenaphthene	NA	0.383 UJ	0.409 U	0.383 U	0.412 UJ
Acenaphthylene	NA	0.383 U	0.409 U	0.383 U	0.412 U
Anthracene	NA	0.383 U	0.409 U	0.383 U	0.412 U
Benzo(a)anthracene	NA	0.383 U	0.409 U	0.383 U	0.412 U
Benzo(a)pyrene	NA	0.383 U	0.409 U	0.383 U	0.412 U
Benzo(b)fluoranthene	NA	0.383 U	0.409 U	0.383 U	0.412 U
Benzo(g,h,i)perylene	NA	0.383 U	0.409 U	0.383 U	0.412 U
Benzo(k)fluoranthene	NA	0.383 U	0.409 U	0.383 U	0.412 U
Chrysene	NA	0.383 U	0.409 U	0.383 U	0.412 U
Dibenzo(a,h)anthracene	NA	0.383 U	0.409 U	0.383 U	0.412 U
Fluoranthene	NA	0.383 U	0.409 U	0.383 U	0.412 U
Fluorene	NA	0.383 U	0.409 U	0.383 U	0.412 U
Indeno(1,2,3-cd)pyrene	NA	0.383 U	0.409 U	0.383 U	0.412 U
Naphthalene	NA	0.383 U	0.409 U	0.383 U	0.412 U
Phenanthrene	NA	0.383 U	0.409 U	0.383 U	0.412 U
Pyrene	NA	0.383 U	0.409 U	0.383 U	0.412 U
	GDNR Level				
Petroleum Hydrocarbons	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
Total Petroleum Hydrocarbons	NRC	7.78 U	7.6 U	56.7 =	100 =
	GDNR Level				
Volatile Organics	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
Benzene	0.008	0.0059 U	0.0061 U	0.0057 U	0.0063 U
Ethylbenzene	10	0.0059 U	0.0061 U	0.0093 =	0.0063 U
Toluene	6	0.017 =	0.0061 U	0.0057 U	0.0063 U
Xylenes, Total	700	0.0072 U	0.0061 U	0.0057 U	0.0065 U

NRC - No Regulatory Criteria
NA - Not Applicable, the health based threshold level would be exceeded only if free product conditions existed

U - Indicates the compound was not detected at the concentration reported.
J - Indicates that the value for the compound is an estimated value.
UJ - Indicates the compound was not detected at the reported concentration and the concentration was estimated.
= - Indicates the compound was detected at the concentration reported.

Soil Analytical Results for the
Facility ID #9-089011, UST 23, Site Investigation

Investigation: 11

	Station	11-01	11-02
	Sample ID	1101W2	1102W2
	Date Collected	9/11/96	9/11/96
	Depth	5.0 - 8.0 FT	5.0 - 8.0 FT
Polynuclear Aromatic Hydrocarbons	**EPA MCL UG/L**	**UG/L**	**UG/L**
2-Chloronaphthalene	NA	10 U	10 U
Acenaphthene	NA	10 U	10 U
Acenaphthylene	NA	10 U	10 U
Anthracene	NA	10 U	10 U
Benzo(a)anthracene	NA	10 U	10 U
Benzo(a)pyrene	0.2	10 U	10 U
Benzo(b)fluoranthene	NRC	10 U	10 U
Benzo(g,h,i)perylene	NA	10 U	10 U
Benzo(k)fluoranthene	NRC	10 U	10 U
Chrysene	NRC	10 U	10 U
Dibenzo(a,h)anthracene	NRC	10 U	10 U
Fluoranthene	NA	10 U	10 U
Fluorene	NA	10 U	10 U
Indeno(1,2,3-cd)pyrene	NRC	10 U	10 U
Naphthalene	NA	10 U	10 U
Phenanthrene	NA	10 U	10 U
Pyrene	NA	10 U	10 U
Volatile Organics	**EPA MCL UG/L**	**UG/L**	**UG/L**
Benzene	5	0.27 J	5 U
Ethylbenzene	700	1.2 J	3 J
Toluene	1000	5 U	5 U
Xylenes, Total	10000	0.26 J	4.2 J

NRC - No Regulatory Criteria
NA - Not Applicable, the health based threshold level would be exceeded only if free product conditions existed

U - Indicates the compound was not detected at the concentration reported.
J - Indicates that the value for the compound is an estimated value.
UJ - Indicates the compound was not detected at the reported concentration and the concentration was estimated.
= - Indicates the compound was detected at the concentration reported.

Groundwater Analytical Results for the
Facility ID #9-089011, UST 21, Site Investigation

Investigation: 11

	Station	11-01	11-02
	Sample ID	1101B1	1102B1
	Date Collected	9/11/96	9/11/96
	Depth	2.5 - 5.0 FT	2.5 - 5.0 FT
	GDNR Level		
Polynuclear Aromatic Hydrocarbons	**MG/KG**	**MG/KG**	**MG/KG**
2-Chloronaphthalene	NA	0.355 U	0.39 U
Acenaphthene	NA	0.355 U	0.39 U
Acenaphthylene	NA	0.355 U	0.39 U
Anthracene	NA	0.355 U	0.39 U
Benzo(a)anthracene	NA	0.355 U	0.39 U
Benzo(a)pyrene	NA	0.355 U	0.39 U
Benzo(b)fluoranthene	NA	0.355 U	0.39 U
Benzo(g,h,i)perylene	NA	0.355 U	0.39 U
Benzo(k)fluoranthene	NA	0.355 U	0.39 U
Chrysene	NA	0.355 U	0.39 U
Dibenzo(a,h)anthracene	NA	0.355 U	0.39 U
Fluoranthene	NA	0.355 U	0.39 U
Fluorene	NA	0.355 U	0.39 U
Indeno(1,2,3-cd)pyrene	NA	0.355 U	0.39 U
Naphthalene	NA	0.355 U	0.39 U
Phenanthrene	NA	0.355 U	0.39 U
Pyrene	NA	0.355 U	0.39 U
	GDNR Level		
Petroleum Hydrocarbons	**MG/KG**	**MG/KG**	**MG/KG**
Total Petroleum Hydrocarbons	NRC	117 J	4.75 UJ
	GDNR Level		
Volatile Organics	**MG/KG**	**MG/KG**	**MG/KG**
Benzene	0.008	0.005 U	0.006 U
Ethylbenzene	10	0.005 U	0.006 U
Toluene	6	0.005 =	0.006 U
Xylenes, Total	700	0.0052 =	0.006 U

NRC - No Regulatory Criteria
NA - Not Applicable, the health based threshold level would be exceeded only if free product conditions existed

U - Indicates the compound was not detected at the concentration reported.
J - Indicates that the value for the compound is an estimated value.
UJ - Indicates the compound was not detected at the reported concentration and the concentration was estimated.
= - Indicates the compound was detected at the concentration reported.

Soil Analytical Results for the
Facility ID #9-089011, UST 21, Site Investigation

Investigation: 09

	Station	09-01	09-02
	Sample ID	0901W2	0902W2
	Date Collected	9/10/96	9/11/96
	Depth	5.0 - 8.0 FT	5.0 - 8.0 FT
Polynuclear Aromatic Hydrocarbons	**EPA MCL UG/L**	**UG/L**	**UG/L**
2-Chloronaphthalene	NA	10 U	10 U
Acenaphthene	NA	10 U	10 U
Acenaphthylene	NA	10 U	10 U
Anthracene	NA	10 U	10 U
Benzo(a)anthracene	NA	10 U	10 U
Benzo(a)pyrene	0.2	10 U	10 U
Benzo(b)fluoranthene	NRC	10 U	10 U
Benzo(g,h,i)perylene	NA	10 U	10 U
Benzo(k)fluoranthene	NRC	10 U	10 U
Chrysene	NRC	10 U	10 U
Dibenzo(a,h)anthracene	NRC	10 U	10 U
Fluoranthene	NA	10 U	10 U
Fluorene	NA	10 U	10 U
Indeno(1,2,3-cd)pyrene	NRC	10 U	10 U
Naphthalene	NA	10 U	10 U
Phenanthrene	NA	10 U	10 U
Pyrene	NA	10 U	10 U
Volatile Organics	**EPA MCL UG/L**	**UG/L**	**UG/L**
Benzene	5	5 U	5 U
Ethylbenzene	700	0.19 J	5 U
Toluene	1000	5 U	5 U
Xylenes, Total	10000	5 U	5 U

NRC - No Regulatory Criteria
NA - Not Applicable, the health based threshold level would be exceeded only if free product conditions existed

U - Indicates the compound was not detected at the concentration reported.
J - Indicates that the value for the compound is an estimated value.
UJ - Indicates the compound was not detected at the reported concentration and the concentration was estimated.
= - Indicates the compound was detected at the concentration reported.

Groundwater Analytical Results for the
Facility ID #9-089011, U[illegible]19, Site Investigation

Investigation: 09

	Station	09-01	09-02
	Sample ID	0901B1	0902B1
	Date Collected	9/10/96	9/11/96
	Depth	2.5 - 5.0 FT	2.5 - 5.0 FT
	GDNR Level		
Polynuclear Aromatic Hydrocarbons	**MG/KG**	**MG/KG**	**MG/KG**
2-Chloronaphthalene	NA	0.41 U	0.38 U
Acenaphthene	NA	0.41 U	0.38 U
Acenaphthylene	NA	0.41 U	0.38 U
Anthracene	NA	0.41 U	0.38 U
Benzo(a)anthracene	NA	0.41 U	0.38 U
Benzo(a)pyrene	NA	0.41 U	0.38 U
Benzo(b)fluoranthene	NA	0.41 U	0.38 U
Benzo(g,h,i)perylene	NA	0.41 U	0.38 U
Benzo(k)fluoranthene	NA	0.41 U	0.38 U
Chrysene	NA	0.41 U	0.38 U
Dibenzo(a,h)anthracene	NA	0.41 U	0.38 U
Fluoranthene	NA	0.41 U	0.38 U
Fluorene	NA	0.41 U	0.38 U
Indeno(1,2,3-cd)pyrene	NA	0.41 U	0.38 U
Naphthalene	NA	0.41 U	0.38 U
Phenanthrene	NA	0.41 U	0.38 U
Pyrene	NA	0.41 U	0.38 U
	GDNR Level		
Petroleum Hydrocarbons	**MG/KG**	**MG/KG**	**MG/KG**
Total Petroleum Hydrocarbons	NRC	28 U	11.5 U
	GDNR Level		
Volatile Organics	**MG/KG**	**MG/KG**	**MG/KG**
Benzene	0.008	0.0062 U	0.0057 U
Ethylbenzene	10	0.0062 U	0.017 =
Toluene	6	0.019 =	0.0057 U
Xylenes, Total	700	0.0062 U	0.0057 U

NRC - No Regulatory Criteria
NA - Not Applicable, the health based threshold level would be exceeded only if free product conditions existed

U - Indicates the compound was not detected at the concentration reported.
J - Indicates that the value for the compound is an estimated value.
UJ - Indicates the compound was not detected at the reported concentration and the concentration was estimated.
= - Indicates the compound was detected at the concentration reported.

Soil Analytical Results for the
Facility ID #9-089011, UST 19, Site Investigation

Investigation: 07

	Station	07-01	07-02
	Sample ID	0701W2	0702W2
	Date Collected	9/10/96	9/10/96
	Depth	5.0 - 8.0 FT	5.0 - 8.0 FT
Polynuclear Aromatic Hydrocarbons	**EPA MCL UG/L**	**UG/L**	**UG/L**
2-Chloronaphthalene	NA	10 U	10 U
Acenaphthene	NA	10 U	10 U
Acenaphthylene	NA	10 U	10 U
Anthracene	NA	10 U	10 U
Benzo(a)anthracene	NA	10 U	10 U
Benzo(a)pyrene	0.2	10 U	10 U
Benzo(b)fluoranthene	NRC	10 U	10 U
Benzo(g,h,i)perylene	NA	10 U	10 U
Benzo(k)fluoranthene	NRC	10 U	10 U
Chrysene	NRC	10 U	10 U
Dibenzo(a,h)anthracene	NRC	10 U	10 U
Fluoranthene	NA	10 U	10 U
Fluorene	NA	10 U	10 U
Indeno(1,2,3-cd)pyrene	NRC	10 U	10 U
Naphthalene	NA	10 U	10 U
Phenanthrene	NA	10 U	10 U
Pyrene	NA	10 U	10 U
Volatile Organics	**EPA MCL UG/L**	**UG/L**	**UG/L**
Benzene	5	5 U	5 U
Ethylbenzene	700	5 U	5 U
Toluene	1000	5 U	5 U
Xylenes, Total	10000	5 U	5 U

NRC - No Regulatory Criteria
NA - Not Applicable, the health based threshold level would be exceeded only if free product conditions existed

U - Indicates the compound was not detected at the concentration reported.
J - Indicates that the value for the compound is an estimated value.
UJ - Indicates the compound was not detected at the reported concentration and the concentration was estimated.
= - Indicates the compound was detected at the concentration reported.

Investigation: 07

	Station	07-01	07-02
	Sample ID	0701B1	0702B1
	Date Collected	9/10/96	9/10/96
	Depth	2.5 - 5.0 FT	2.5 - 5.0 FT
	GDNR Level		
Polynuclear Aromatic Hydrocarbons	**MG/KG**	**MG/KG**	**MG/KG**
2-Chloronaphthalene	NA	0.367 U	0.399 U
Acenaphthene	NA	0.367 U	0.399 U
Acenaphthylene	NA	0.367 U	0.399 U
Anthracene	NA	0.367 U	0.399 U
Benzo(a)anthracene	NA	0.367 U	0.399 U
Benzo(a)pyrene	NA	0.367 U	0.399 U
Benzo(b)fluoranthene	NA	0.367 U	0.399 U
Benzo(g,h,i)perylene	NA	0.367 U	0.399 U
Benzo(k)fluoranthene	NA	0.367 U	0.399 U
Chrysene	NA	0.367 U	0.399 U
Dibenzo(a,h)anthracene	NA	0.367 U	0.399 U
Fluoranthene	NA	0.367 U	0.399 U
Fluorene	NA	0.367 U	0.399 U
Indeno(1,2,3-cd)pyrene	NA	0.367 U	0.399 U
Naphthalene	NA	0.367 U	0.399 U
Phenanthrene	NA	0.367 U	0.399 U
Pyrene	NA	0.367 U	0.399 U
	GDNR Level		
Petroleum Hydrocarbons	**MG/KG**	**MG/KG**	**MG/KG**
Total Petroleum Hydrocarbons	NRC	77.5 J	7.69 UJ
	GDNR Level		
Volatile Organics	**MG/KG**	**MG/KG**	**MG/KG**
Benzene	0.008	0.0056 U	0.0061 U
Ethylbenzene	10	0.0056 U	0.0061 U
Toluene	6	0.0056 U	0.0085 =
Xylenes, Total	700	0.0059 =	0.01 =

NRC - No Regulatory Criteria
NA - Not Applicable, the health based threshold level would be exceeded only if free product conditions existed

U - Indicates the compound was not detected at the concentration reported.
J - Indicates that the value for the compound is an estimated value.
UJ - Indicates the compound was not detected at the reported concentration and the concentration was estimated.
= - Indicates the compound was detected at the concentration reported.

Soil Analytical Results for the
Facility ID #9-089011, UST 17, Site Investigation

Investigation: 04

	Station	04-01	04-02
	Sample ID	0401W2	0402W2
	Date Collected	9/7/96	9/7/96
	Depth	4.0 - 9.0 FT	5.0 - 8.0 FT
Polynuclear Aromatic Hydrocarbons	**EPA MCL UG/L**	**UG/L**	**UG/L**
2-Chloronaphthalene	NA	10 U	10 U
Acenaphthene	NA	10 U	10 U
Acenaphthylene	NA	10 U	10 U
Anthracene	NA	6 J	10 U
Benzo(a)anthracene	NA	10 U	10 U
Benzo(a)pyrene	0.2	10 U	10 U
Benzo(b)fluoranthene	NRC	10 U	10 U
Benzo(g,h,i)perylene	NA	10 U	10 U
Benzo(k)fluoranthene	NRC	10 U	10 U
Chrysene	NRC	10 U	10 U
Dibenzo(a,h)anthracene	NRC	10 U	10 U
Fluoranthene	NA	10 U	10 U
Fluorene	NA	10 U	10 U
Indeno(1,2,3-cd)pyrene	NRC	10 U	10 U
Naphthalene	NA	18.6 =	10 U
Phenanthrene	NA	10 U	10 U
Pyrene	NA	10 U	10 U
Volatile Organics	**EPA MCL UG/L**	**UG/L**	**UG/L**
Benzene	5	50 U	5 U
Ethylbenzene	700	2 J	0.7 J
Toluene	1000	50 U	5 U
Xylenes, Total	10000	2 J	0.15 J

NRC - No Regulatory Criteria
NA - Not Applicable, the health based threshold level would be exceeded only if free product conditions existed

U - Indicates the compound was not detected at the concentration reported.
J - Indicates that the value for the compound is an estimated value.
UJ - Indicates the compound was not detected at the reported concentration and the concentration was estimated.
= - Indicates the compound was detected at the concentration reported.

Groundwater Analytical Results for the
Facility ID #9-089068, U[illegible]3, Site Investigation

Investigation: 04

	Station	04-01	04-02
	Sample ID	0401B1	0402B1
	Date Collected	9/7/96	9/7/96
	Depth	2.5 - 5.0 FT	2.5 - 5.0 FT
	GDNR Level		
Polynuclear Aromatic Hydrocarbons	**MG/KG**	**MG/KG**	**MG/KG**
2-Chloronaphthalene	NA	0.367 U	0.361 U
Acenaphthene	NA	0.367 U	0.361 U
Acenaphthylene	NA	0.367 U	0.361 U
Anthracene	NA	0.367 U	0.361 U
Benzo(a)anthracene	NA	0.367 U	0.361 U
Benzo(a)pyrene	NA	0.367 U	0.361 U
Benzo(b)fluoranthene	NA	0.0322 J	0.0635 U
Benzo(g,h,i)perylene	NA	0.367 U	0.361 U
Benzo(k)fluoranthene	NA	0.0113 J	0.0295 U
Chrysene	NA	0.367 U	0.361 U
Dibenzo(a,h)anthracene	NA	0.367 U	0.361 U
Fluoranthene	NA	0.367 U	0.361 U
Fluorene	NA	0.367 U	0.361 U
Indeno(1,2,3-cd)pyrene	NA	0.367 U	0.361 U
Naphthalene	NA	0.367 U	0.361 U
Phenanthrene	NA	0.367 U	0.361 U
Pyrene	NA	0.367 U	0.361 U
	GDNR Level		
Petroleum Hydrocarbons	**MG/KG**	**MG/KG**	**MG/KG**
Total Petroleum Hydrocarbons	NRC	201 =	10.4 U
	GDNR Level		
Volatile Organics	**MG/KG**	**MG/KG**	**MG/KG**
Benzene	0.008	0.0056 U	0.0054 U
Ethylbenzene	10	0.0056 U	0.0054 U
Toluene	6	0.0056 U	0.0054 U
Xylenes, Total	700	0.008 =	0.0093 =

NRC - No Regulatory Criteria
NA - Not Applicable, the health based threshold level would be exceeded only if free product conditions existed

U - Indicates the compound was not detected at the concentration reported.
J - Indicates that the value for the compound is an estimated value.
UJ - Indicates the compound was not detected at the reported concentration and the concentration was estimated.
= - Indicates the compound was detected at the concentration reported.

Soil Analytical Results for the Facility ID #9-089068, UST 13, Site Investigation

Investigation: 02

	Station	02-01	02-02
	Sample ID	0201W2	0202W2
	Date Collected	9/6/96	9/6/96
	Depth	13.0 - 16.0 FT	5.0 - 8.0 FT
Polynuclear Aromatic Hydrocarbons	**EPA MCL UG/L**	**UG/L**	**UG/L**
2-Chloronaphthalene	NA	10 U	10 U
Acenaphthene	NA	10 U	10 U
Acenaphthylene	NA	10 U	10 U
Anthracene	NA	10 U	10 U
Benzo(a)anthracene	NA	10 U	10 U
Benzo(a)pyrene	0.2	10 U	10 U
Benzo(b)fluoranthene	NRC	10 U	10 U
Benzo(g,h,i)perylene	NA	10 U	10 U
Benzo(k)fluoranthene	NRC	10 U	10 U
Chrysene	NRC	10 U	10 U
Dibenzo(a,h)anthracene	NRC	10 U	10 U
Fluoranthene	NA	10 U	10 U
Fluorene	NA	10 U	10 U
Indeno(1,2,3-cd)pyrene	NRC	10 U	10 U
Naphthalene	NA	10 U	10 U
Phenanthrene	NA	10 U	10 U
Pyrene	NA	10 U	10 U
Volatile Organics	**EPA MCL UG/L**	**UG/L**	**UG/L**
Benzene	5	5 U	5 U
Ethylbenzene	700	5 U	5 U
Toluene	1000	5 U	5 U
Xylenes, Total	10000	5 U	5 U

NRC - No Regulatory Criteria
NA - Not Applicable, the health based threshold level would be exceeded only if free product conditions existed

U - Indicates the compound was not detected at the concentration reported.
J - Indicates that the value for the compound is an estimated value.
UJ - Indicates the compound was not detected at the reported concentration and the concentration was estimated.
= - Indicates the compound was detected at the concentration reported.

Groundwater Analytical Results for the
Facility ID #9-089067, [illegible] 7, Site Investigation

Investigation: 02

	Station	02-01	02-01	02-02	02-02
	Sample ID	0201C1	0201E1	0202A1	0202B1
	Date Collected	9/6/96	9/6/96	9/6/96	9/6/96
	Depth	5.0 - 8.0 FT	10.5 - 13.0 FT	0.7 - 2.5 FT	2.5 - 5.0 FT
	GDNR Level				
Polynuclear Aromatic Hydrocarbons	**MG/KG**	**MG/KG**	**MG/KG**	**MG/KG**	**MG/KG**
2-Chloronaphthalene	NA	0.372 U	0.436 U	0.349 U	0.407 U
Acenaphthene	NA	0.372 U	0.436 U	0.349 U	0.407 U
Acenaphthylene	NA	0.372 U	0.436 U	0.349 U	0.407 U
Anthracene	NA	0.372 U	0.436 U	0.349 U	0.407 U
Benzo(a)anthracene	NA	0.372 U	0.436 U	0.349 U	0.407 U
Benzo(a)pyrene	NA	0.372 U	0.436 U	0.349 U	0.407 U
Benzo(b)fluoranthene	NA	0.372 U	0.436 U	0.349 U	0.407 U
Benzo(g,h,i)perylene	NA	0.372 U	0.436 U	0.349 U	0.407 U
Benzo(k)fluoranthene	NA	0.372 U	0.436 U	0.349 U	0.407 U
Chrysene	NA	0.372 U	0.436 U	0.349 U	0.407 U
Dibenzo(a,h)anthracene	NA	0.372 U	0.436 U	0.349 U	0.407 U
Fluoranthene	NA	0.372 U	0.436 U	0.349 U	0.407 U
Fluorene	NA	0.372 U	0.436 U	0.349 U	0.407 U
Indeno(1,2,3-cd)pyrene	NA	0.372 U	0.436 U	0.349 U	0.407 U
Naphthalene	NA	0.372 U	0.436 U	0.349 U	0.407 U
Phenanthrene	NA	0.372 U	0.436 U	0.349 U	0.407 U
Pyrene	NA	0.372 U	0.436 U	0.349 U	0.407 U
	GDNR Level				
Petroleum Hydrocarbons	**MG/KG**	**MG/KG**	**MG/KG**	**MG/KG**	**MG/KG**
Total Petroleum Hydrocarbons	NRC	11.7 U	10 U	10 U	11.3 U
	GDNR Level				
Volatile Organics	**MG/KG**	**MG/KG**	**MG/KG**	**MG/KG**	**MG/KG**
Benzene	0.008	0.0056 U	0.0066 U	0.0053 U	0.0062 U
Ethylbenzene	10	0.0056 U	0.0066 U	0.0053 U	0.0062 U
Toluene	6	0.0079 =	0.0066 U	0.0053 U	0.019 =
Xylenes, Total	700	0.0056 U	0.0066 U	0.0053 U	0.0062 U

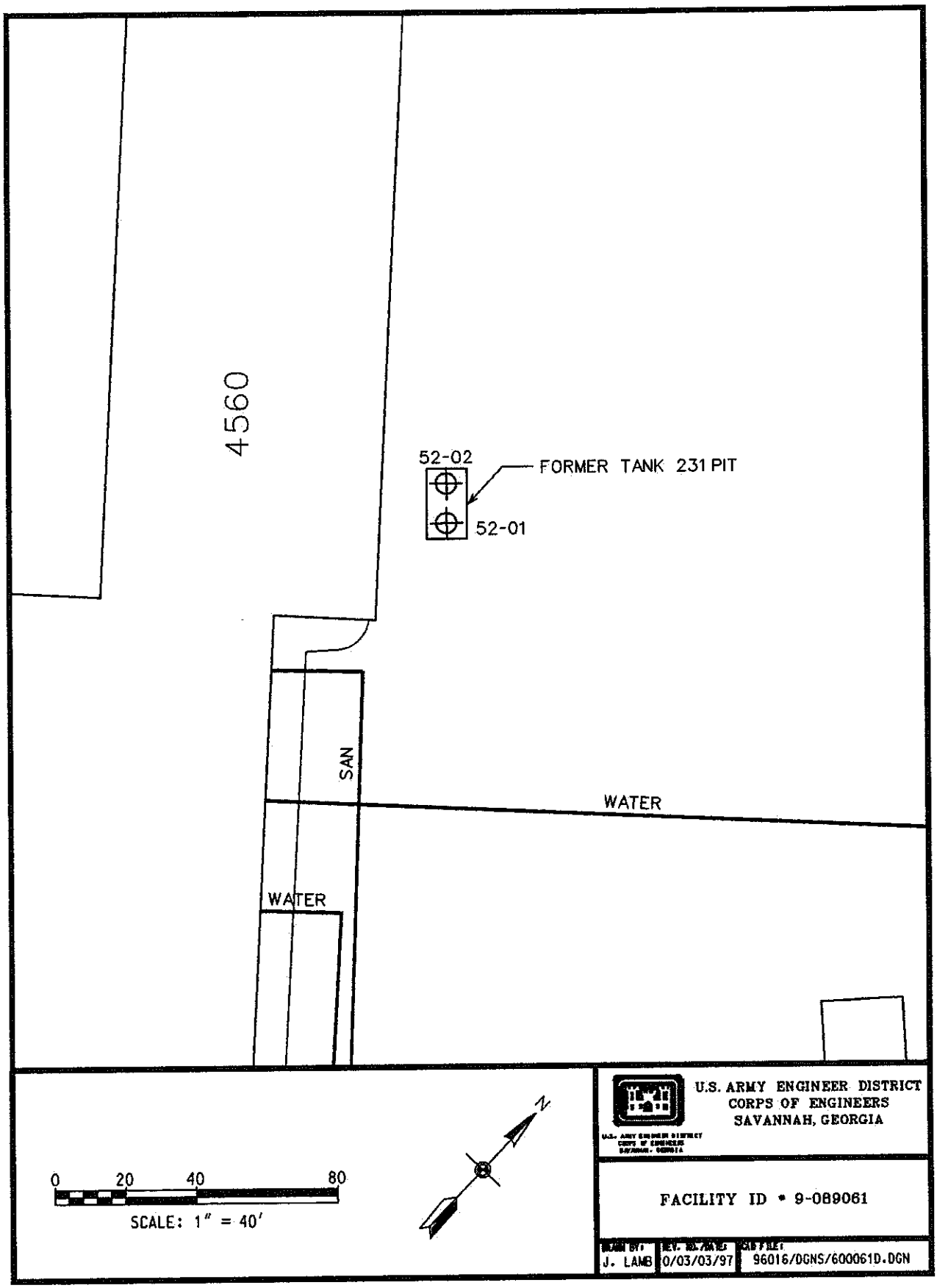
NRC - No Regulatory Criteria
NA - Not Applicable, the health based threshold level would be exceeded only if free product conditions existed

U - Indicates the compound was not detected at the concentration reported.
J - Indicates that the value for the compound is an estimated value.
UJ - Indicates the compound was not detected at the reported concentration and the concentration was estimated.
= - Indicates the compound was detected at the concentration reported.

Soil Analytical Results for the
Facility ID #9-089067, UST 7, Site Investigation

APPENDIX B

Summary of Soil & Groundwater Analytical Results for No Further Action UST Sites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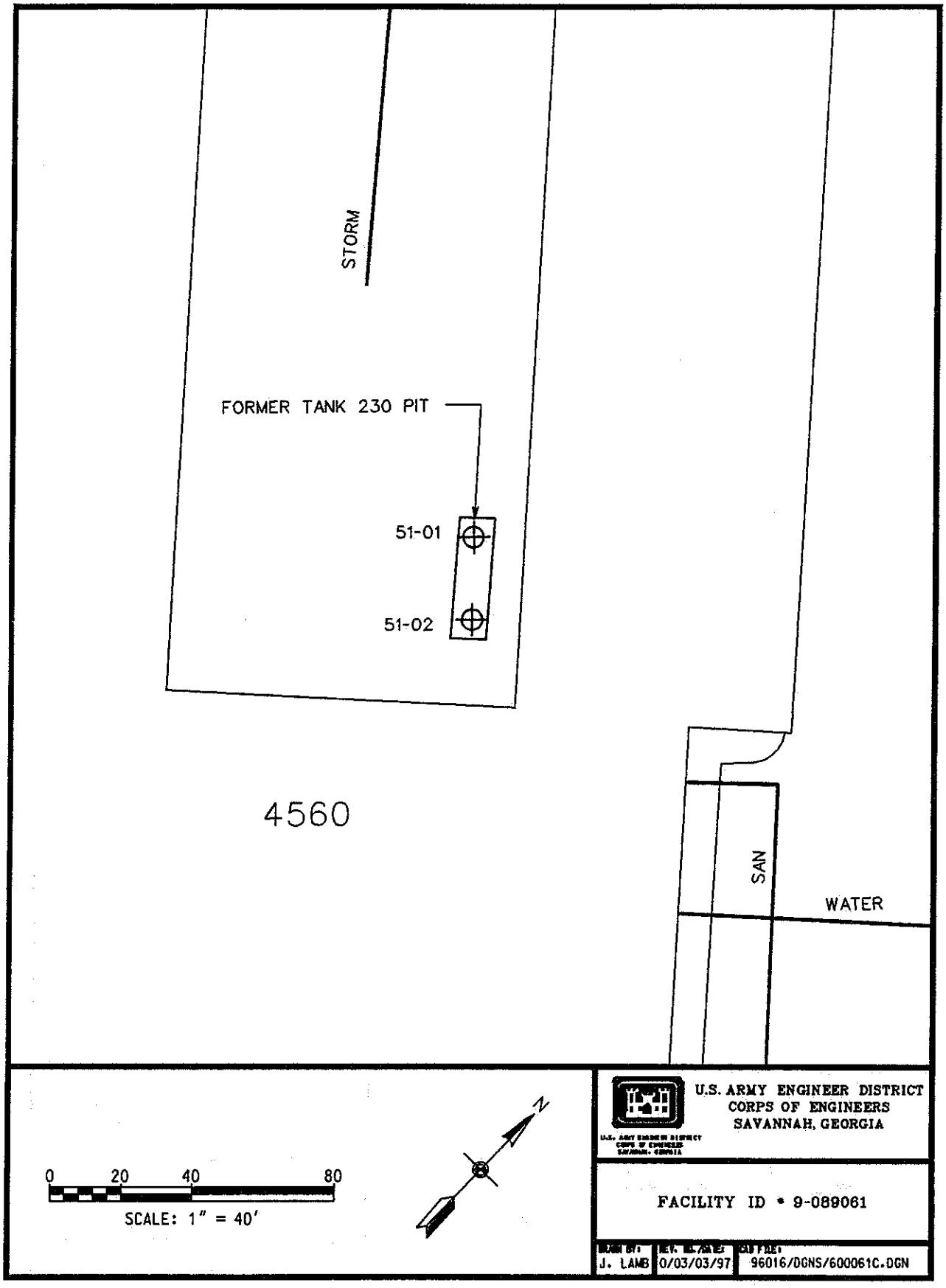
52-02
FORMER TANK 231 PIT
52-01
SAN
WATER
WATER
0
20
40
80
SCALE: 1" = 40'
N
U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
SAVANNAH, GEORGIA
FACILITY ID * 9-089061
J. LAMB
10/03/03/97
96016/DGNS/600061D.DGN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51-01
51-02
4560
SAN
WATER
0
20
40
80
SCALE: 1" = 40'
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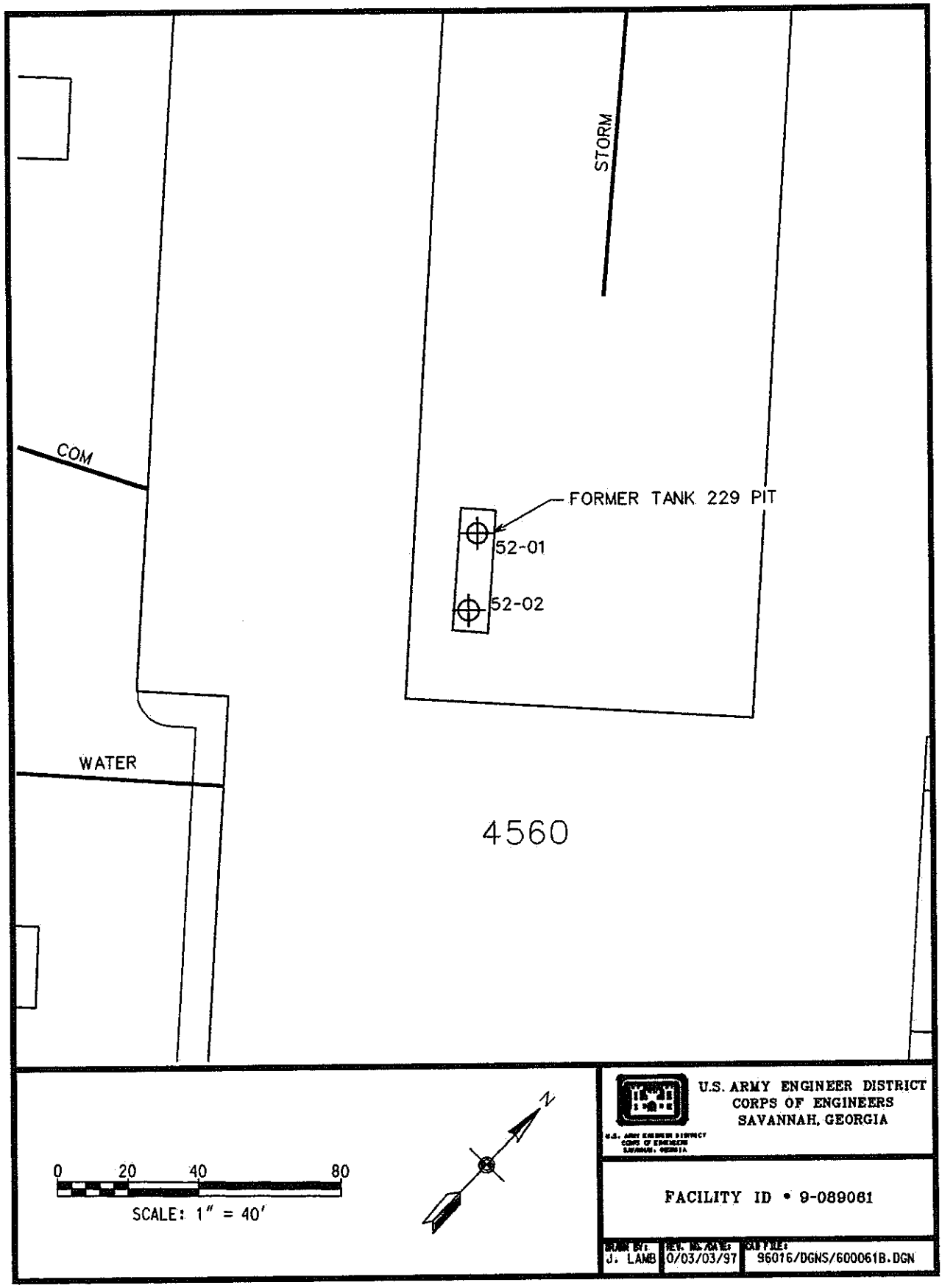
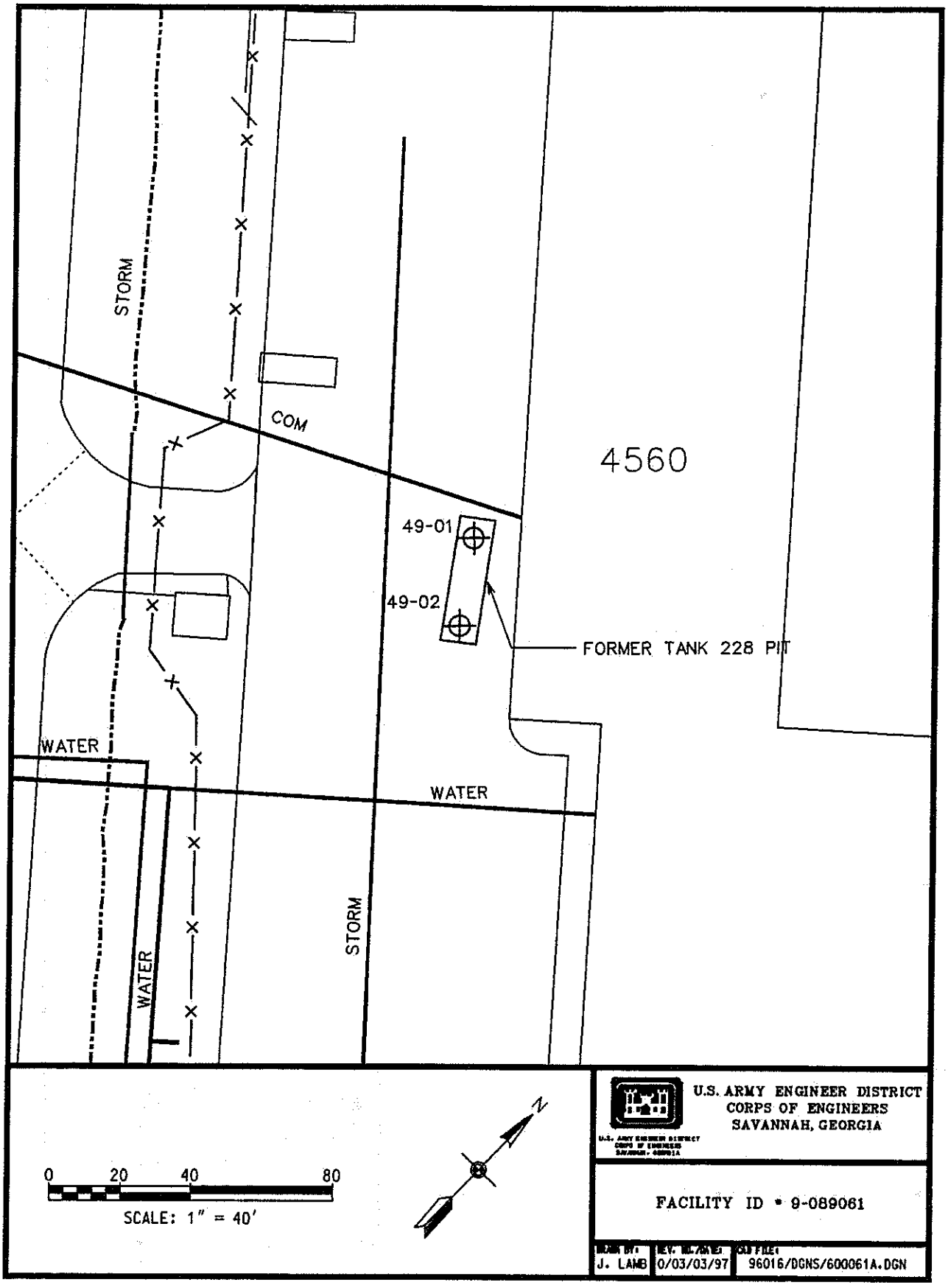
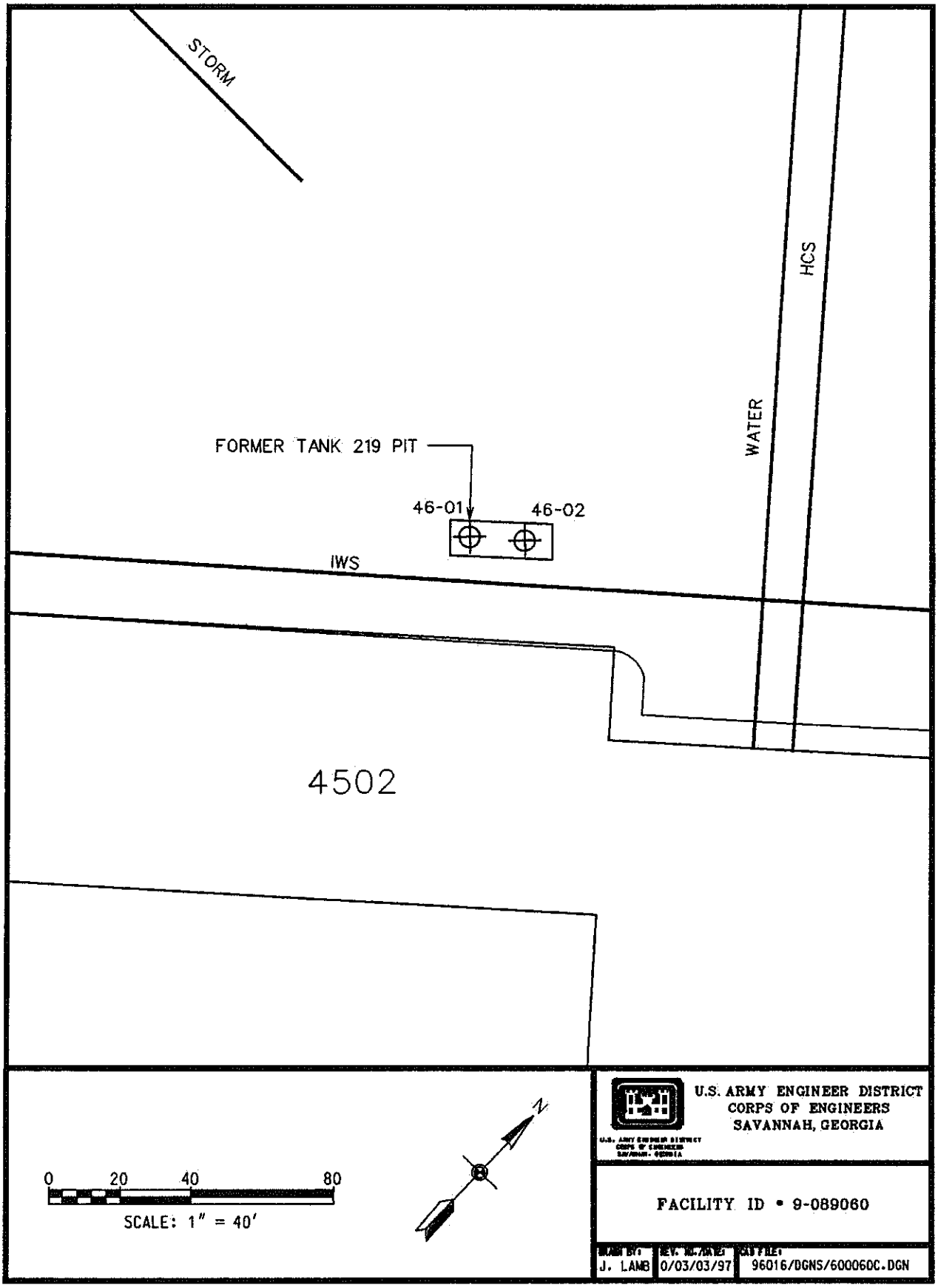
U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
SAVANNAH, GEORGIA
FACILITY ID • 9-089061
J. LAMB
0/03/03/97
96016/DGNS/600061C.DGN


STORM
COM
FORMER TANK 229 PIT
52-01
52-02
WATER
4560
0
20
40
80
SCALE: 1" = 40'
N
U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
SAVANNAH, GEORGIA
FACILITY ID • 9-089061
DRAWN BY:
J. LAMB
REV. NO./DATE:
0/03/03/97
CAD FILE:
96016/DGNS/600061B.DGN


STORM
COM
4560
49-01
49-02
FORMER TANK 228 PIT
WATER
WATER
WATER
STORM
0
20
40
80
SCALE: 1" = 40'
N
U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
SAVANNAH, GEORGIA
FACILITY ID • 9-089061
J. LAMB
0/03/03/97
96016/DGNS/600061A.DGN


STORM
HCS
WATER
FORMER TANK 219 PIT
46-01
46-02
IWS
4502
0
20
40
80
SCALE: 1" = 40'
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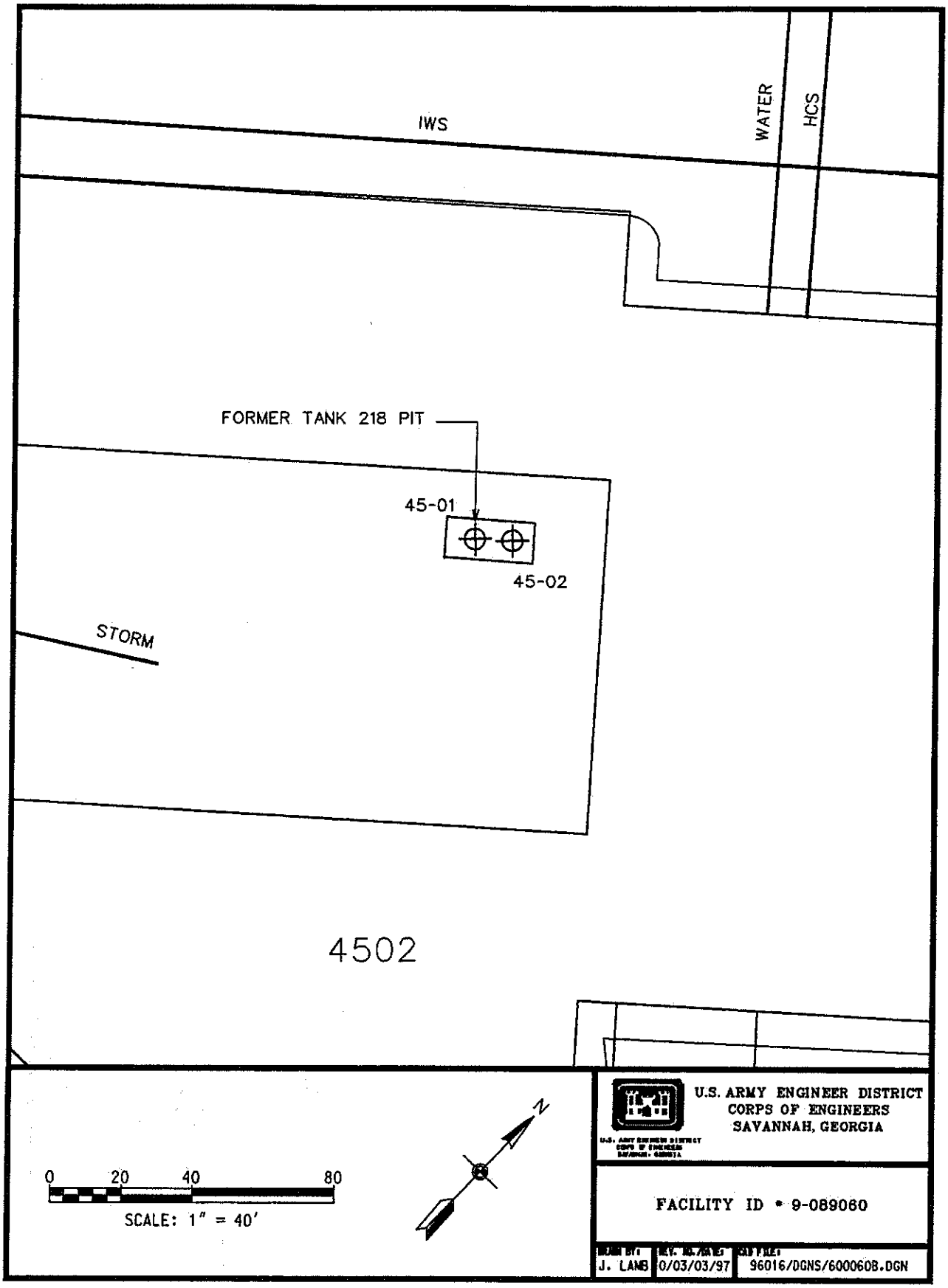
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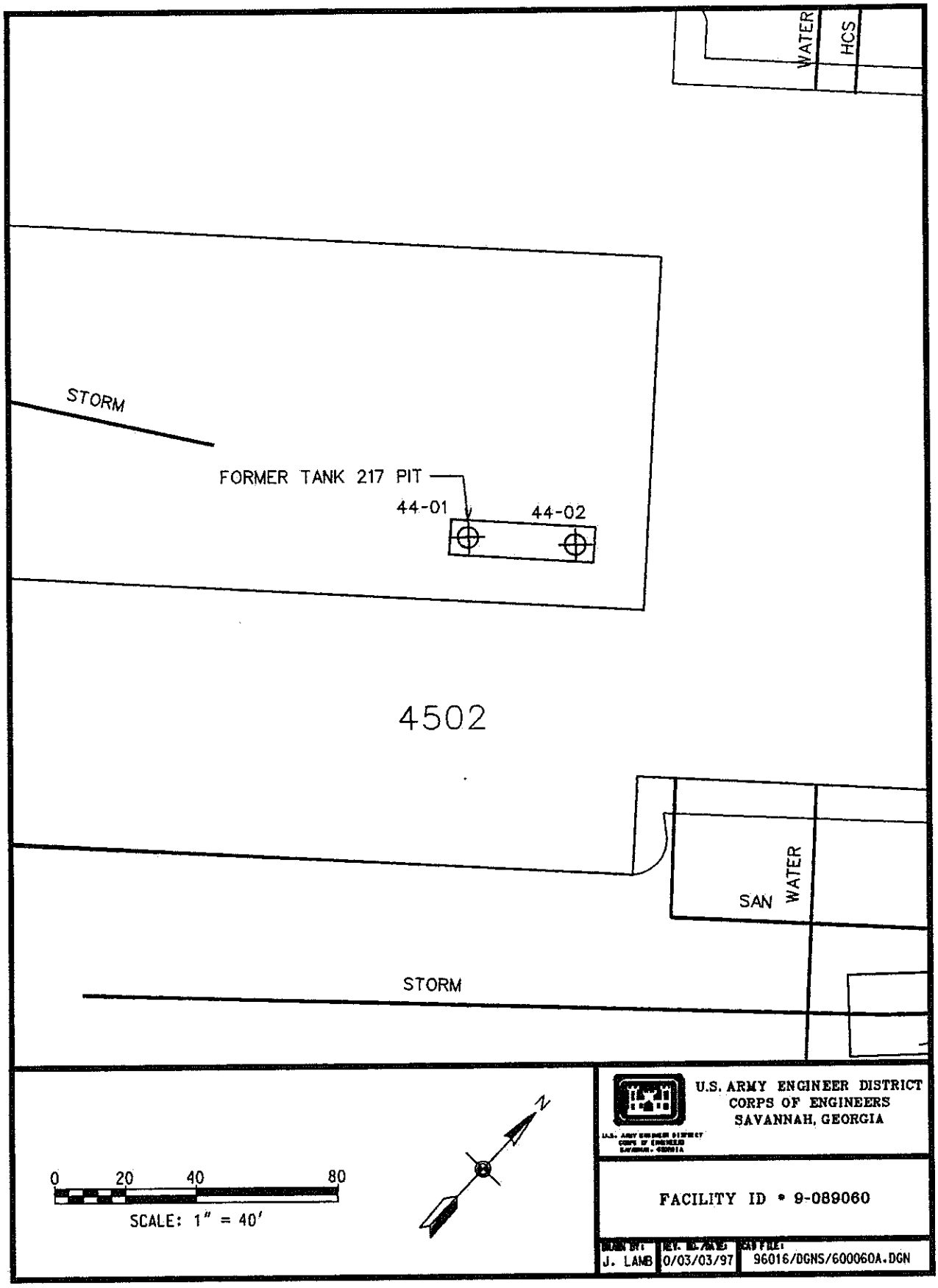
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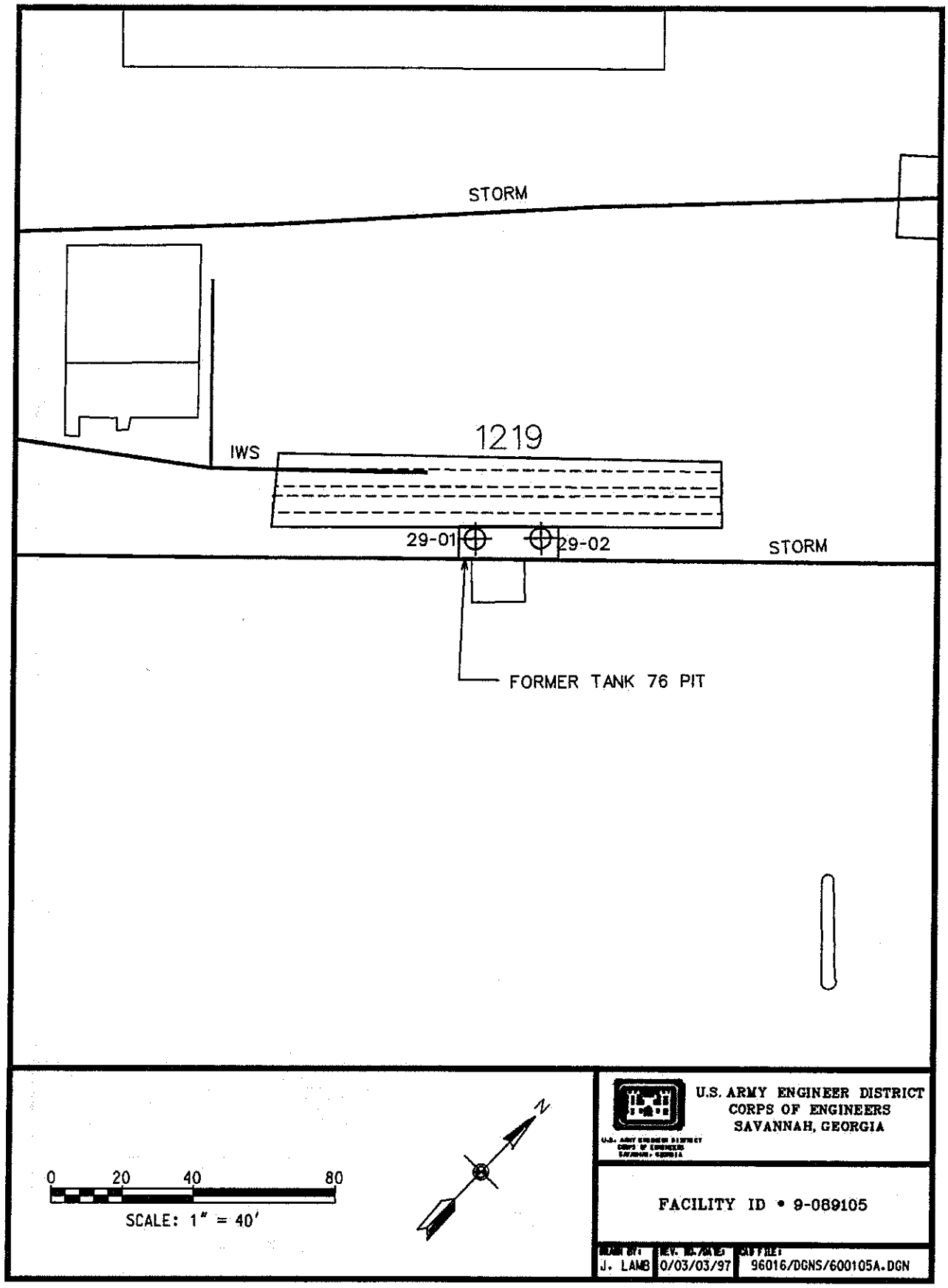
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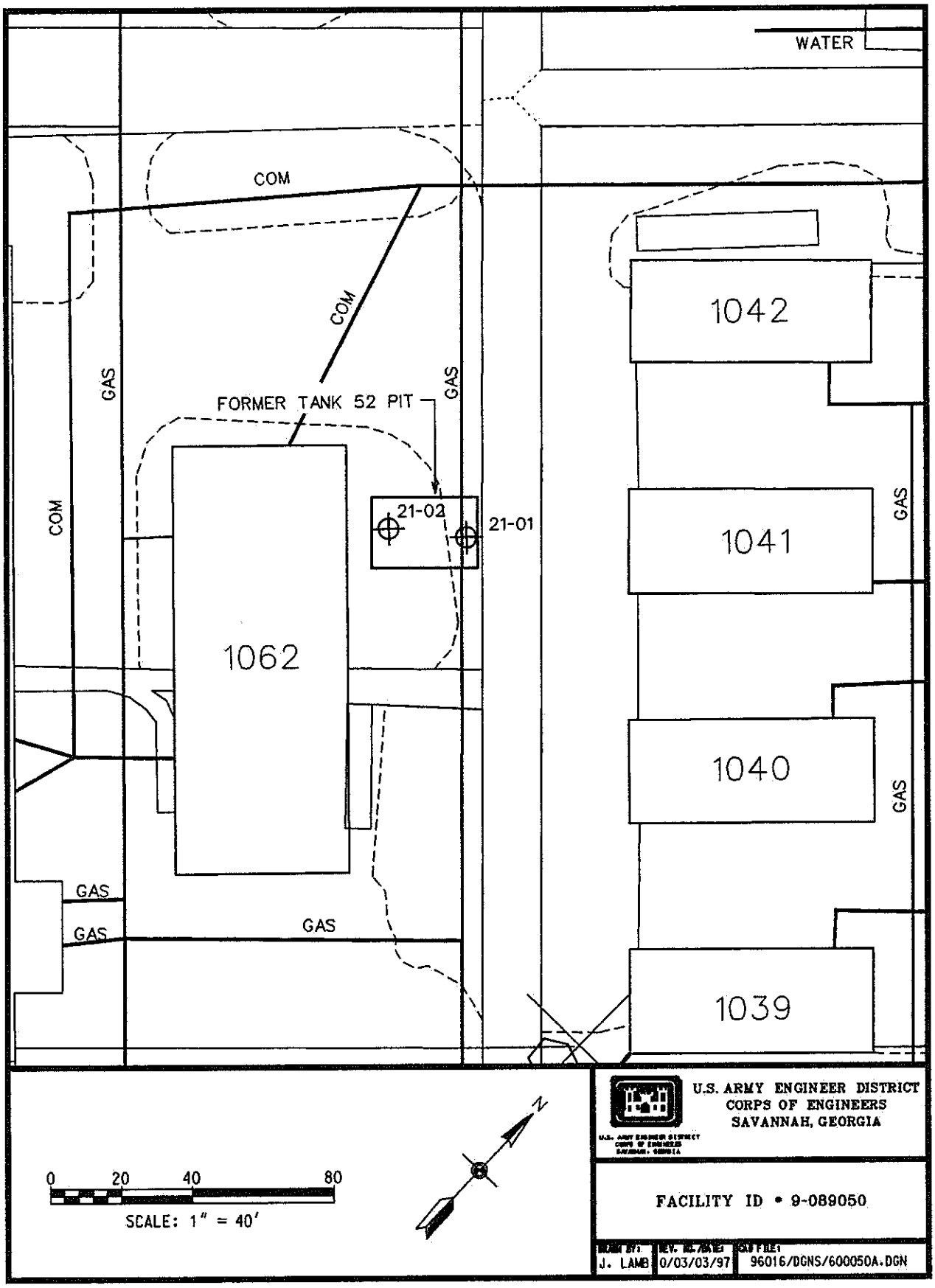
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GAS
GAS
GAS
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1042
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1039
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J. LAMB
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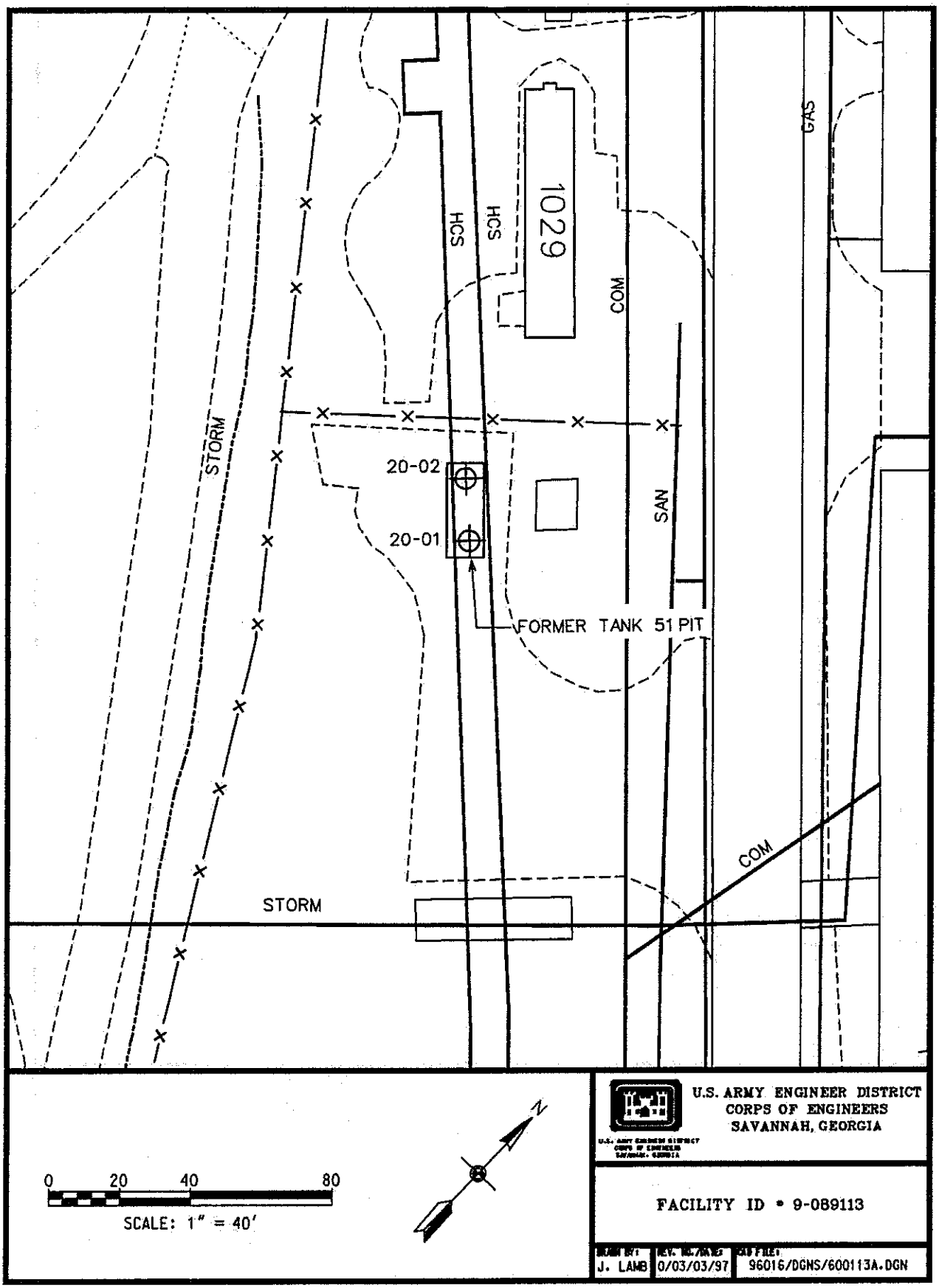
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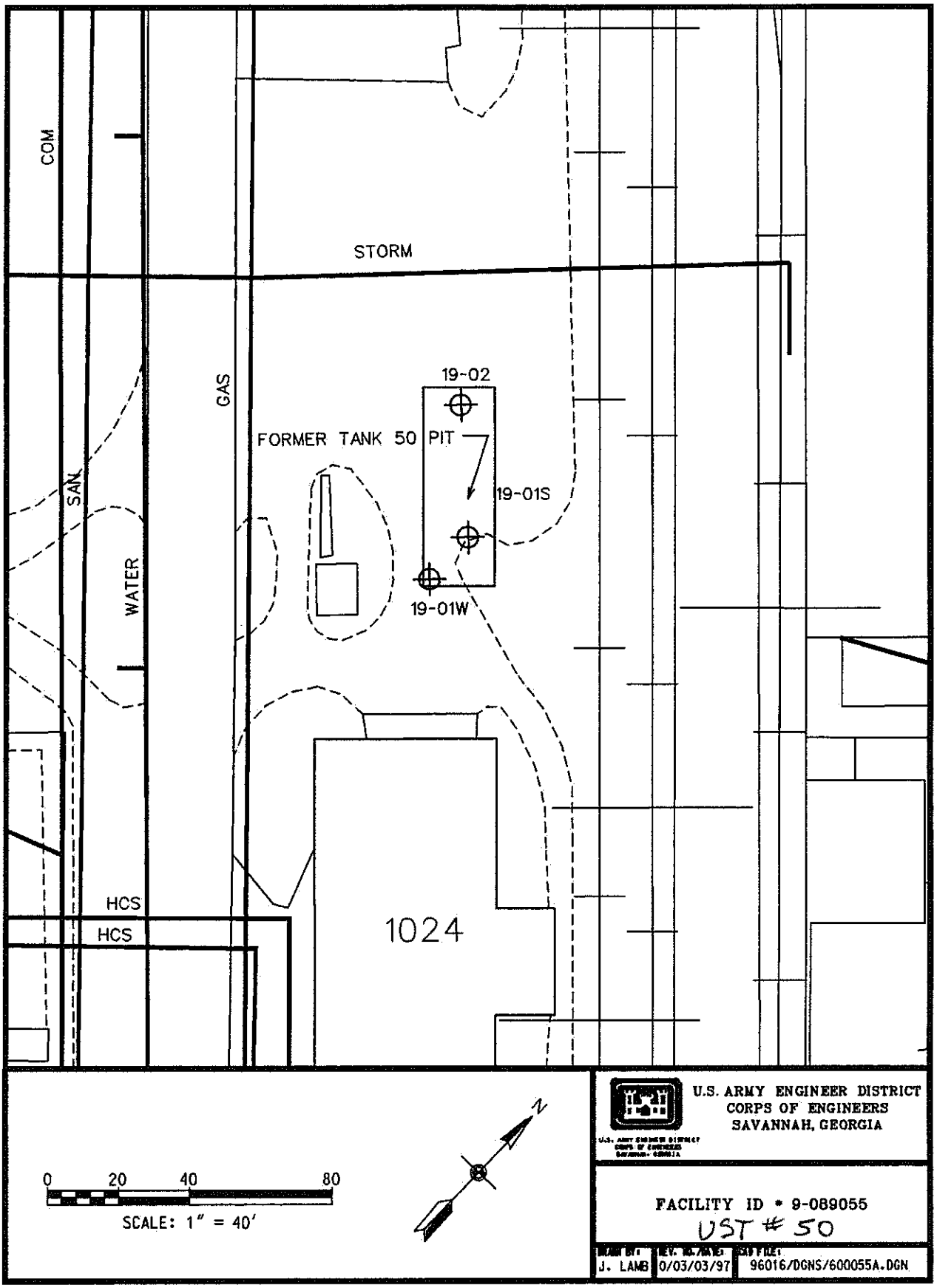
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SAN
WATER
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19-01W
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SCALE: 1" = 40'
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CORPS OF ENGINEERS
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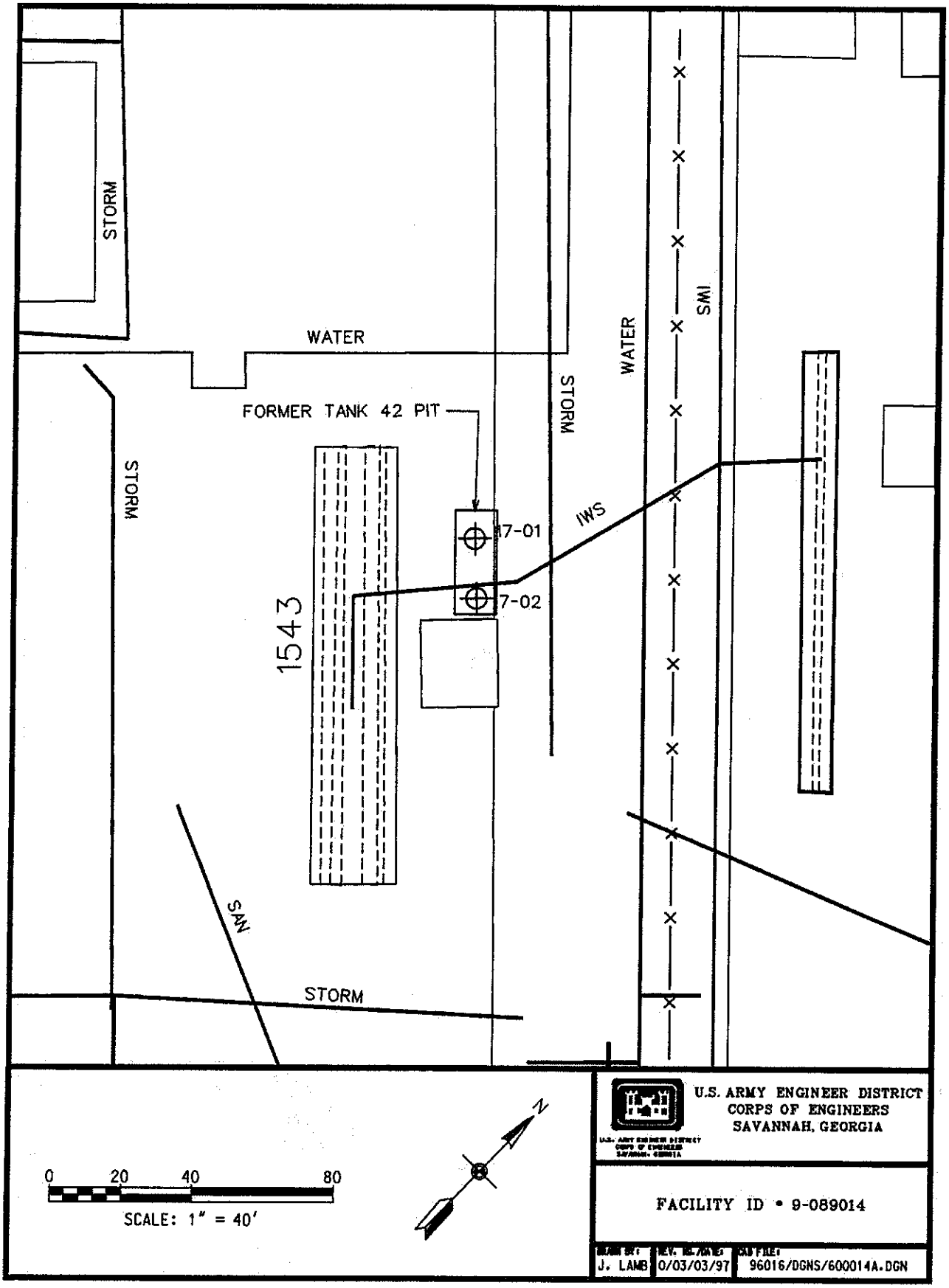
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STORM
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STORM
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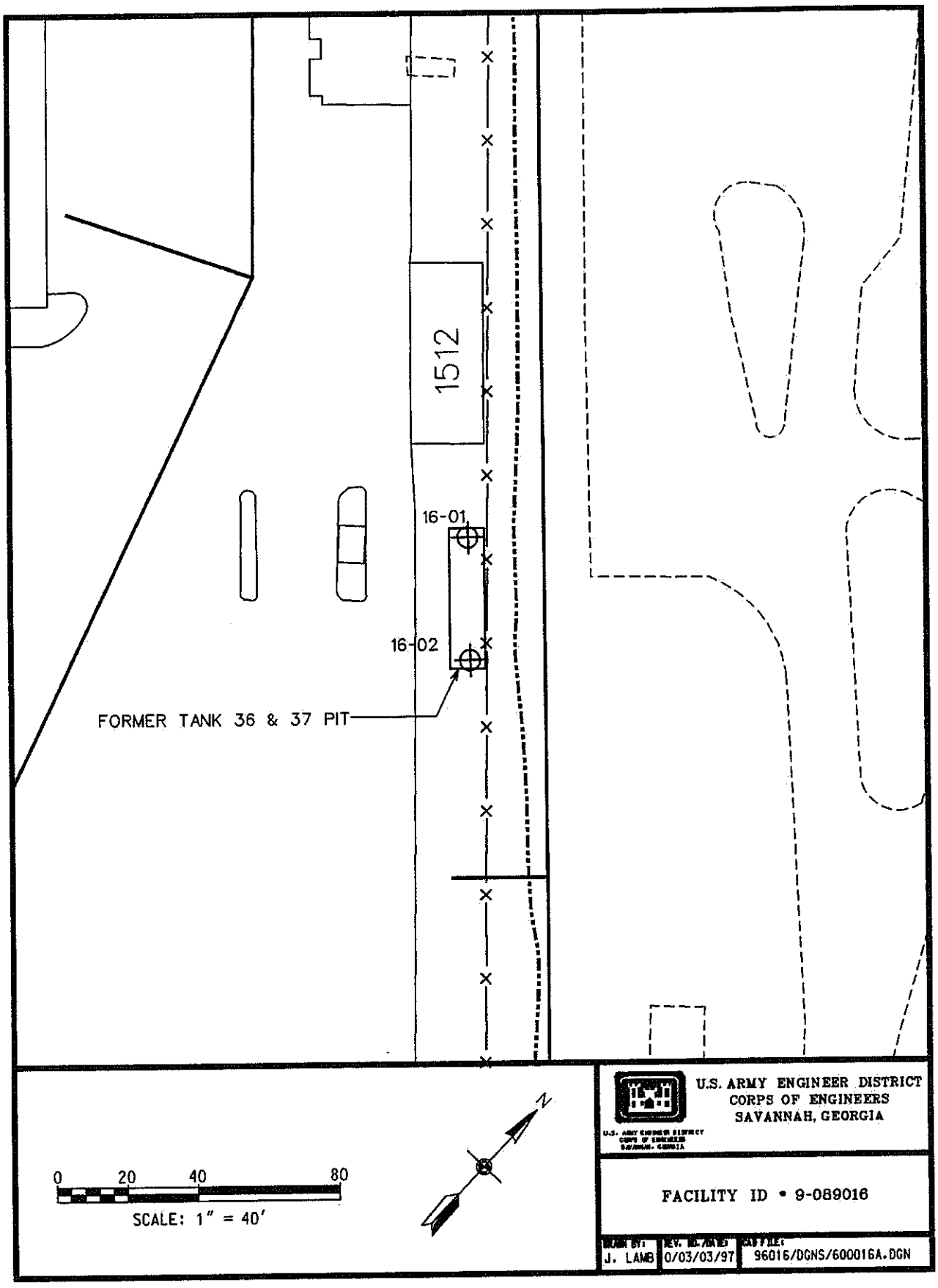
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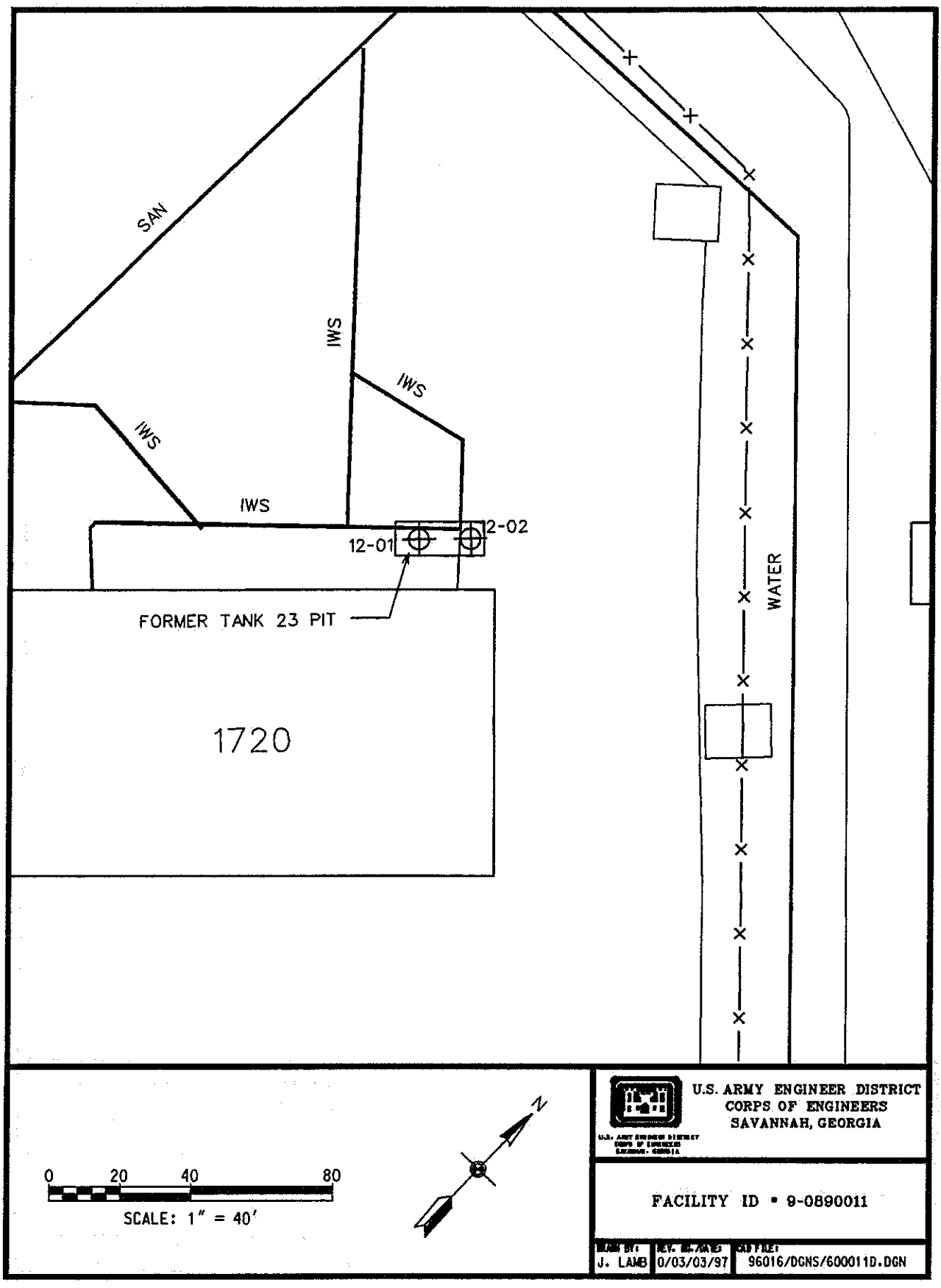
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IWS
IWS
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12-02
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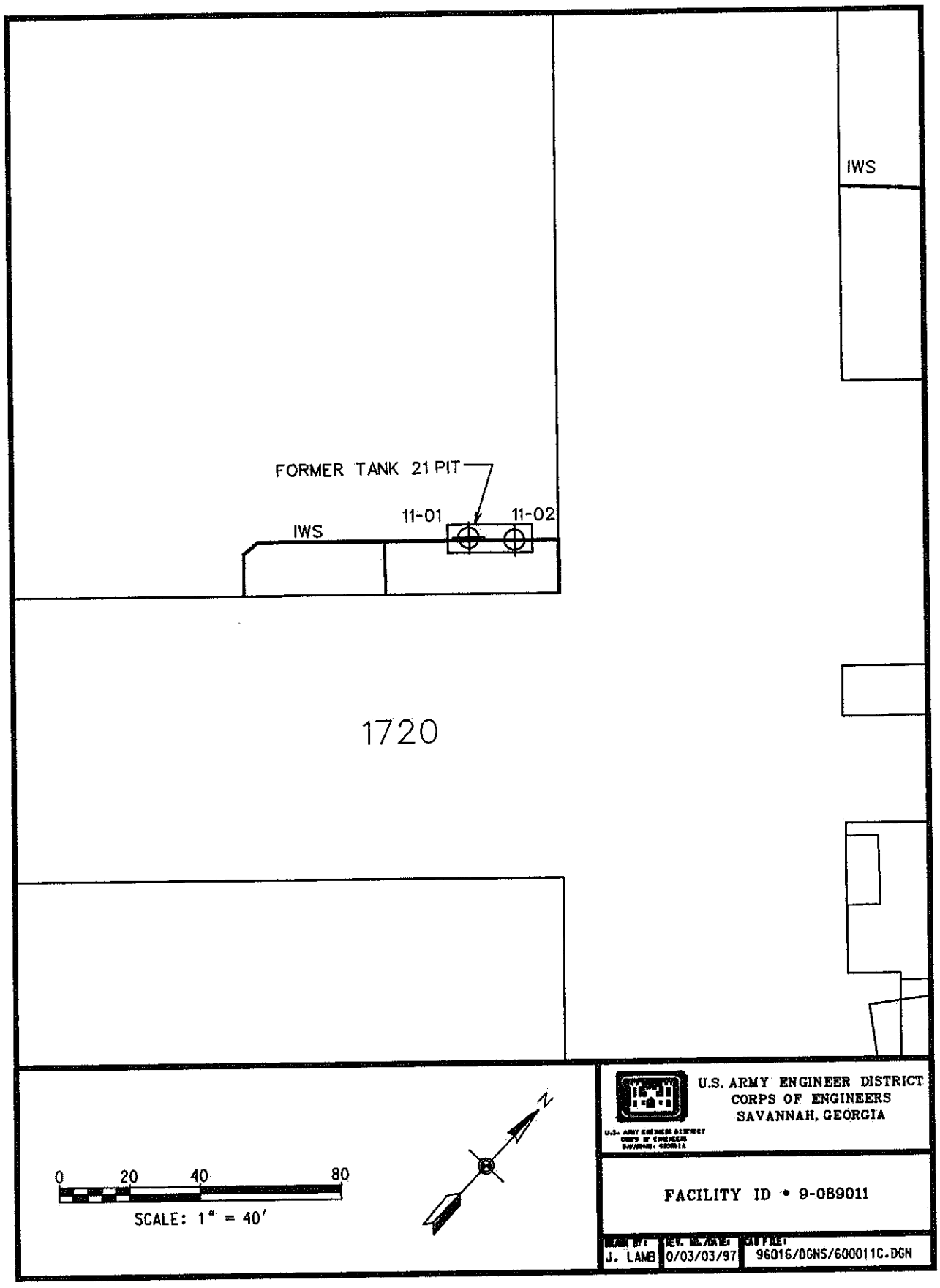
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11-02
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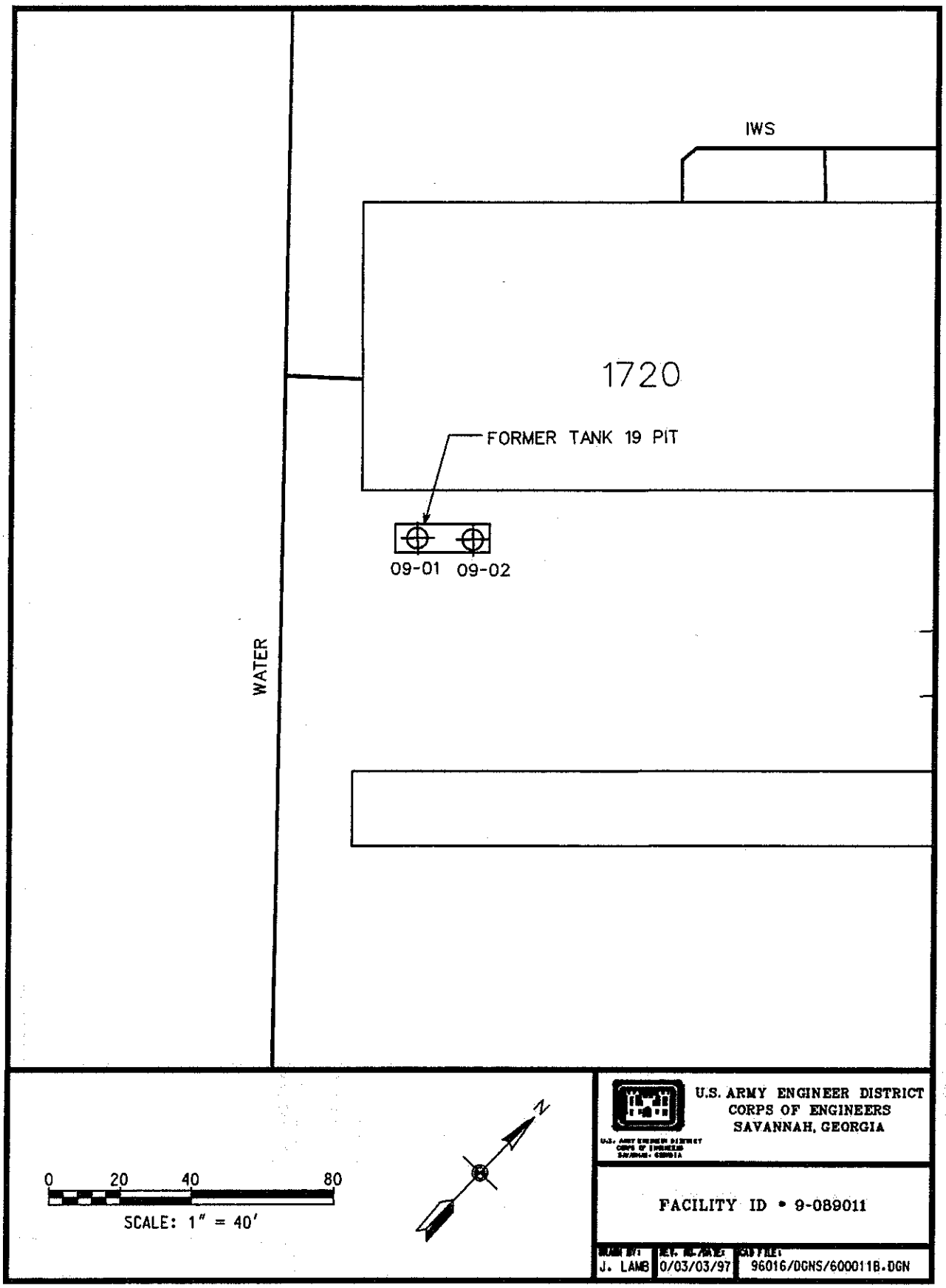
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09-02
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SCALE: 1" = 40'
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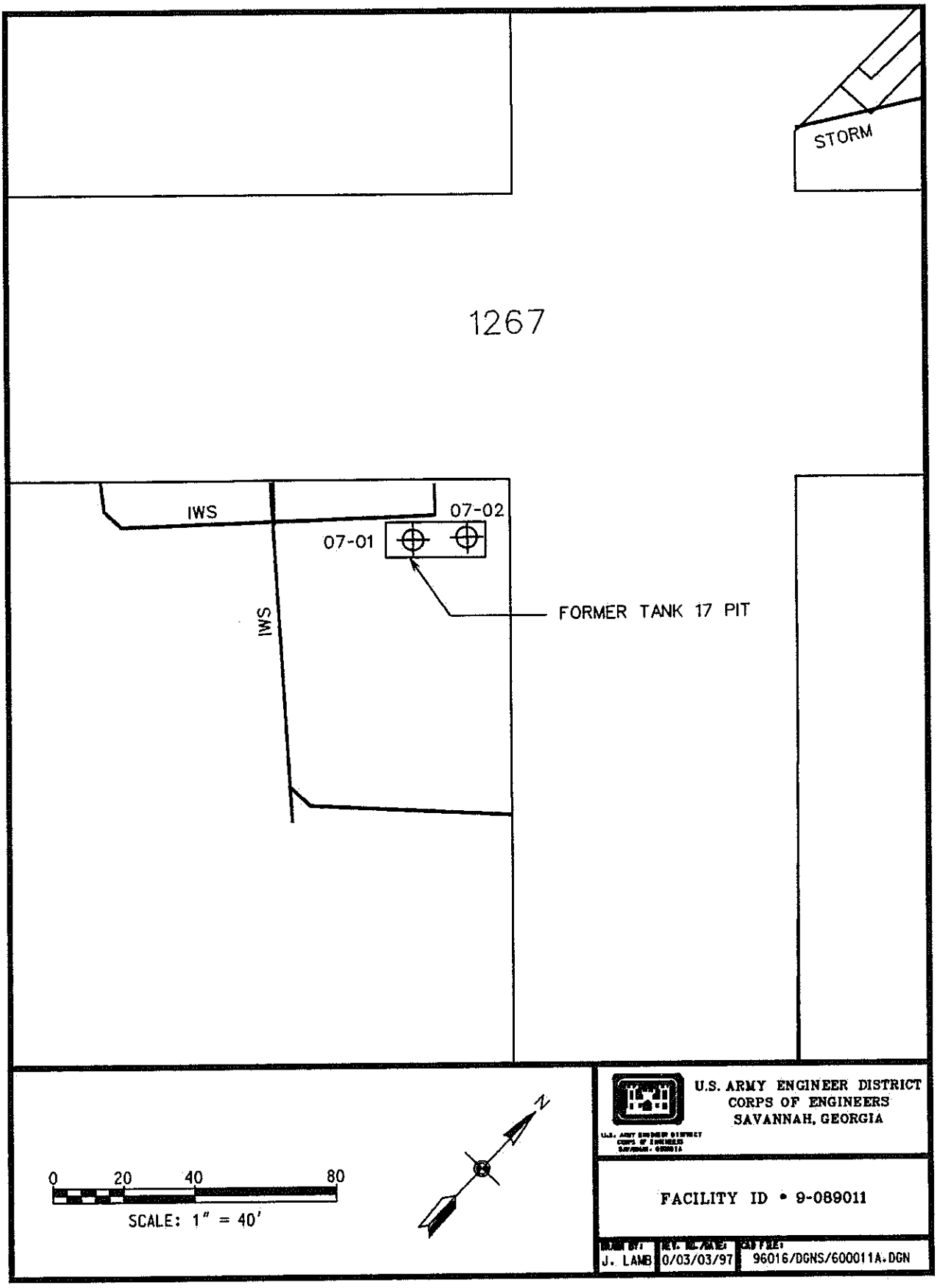
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07-02
07-01
IWS
FORMER TANK 17 PIT
0
20
40
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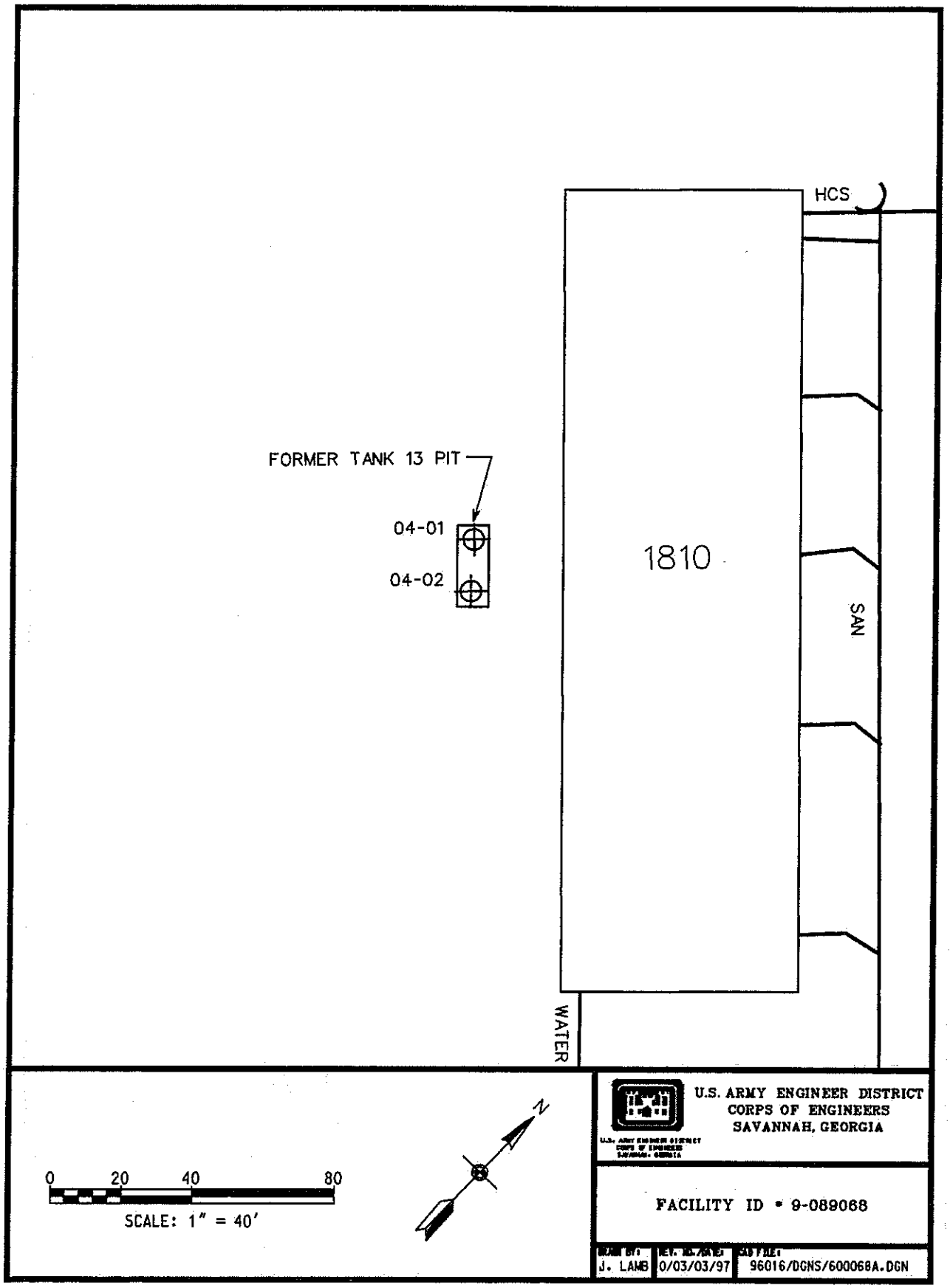
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04-02
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SCALE: 1" = 40'
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U.S. ARMY ENGINEER DISTRICT
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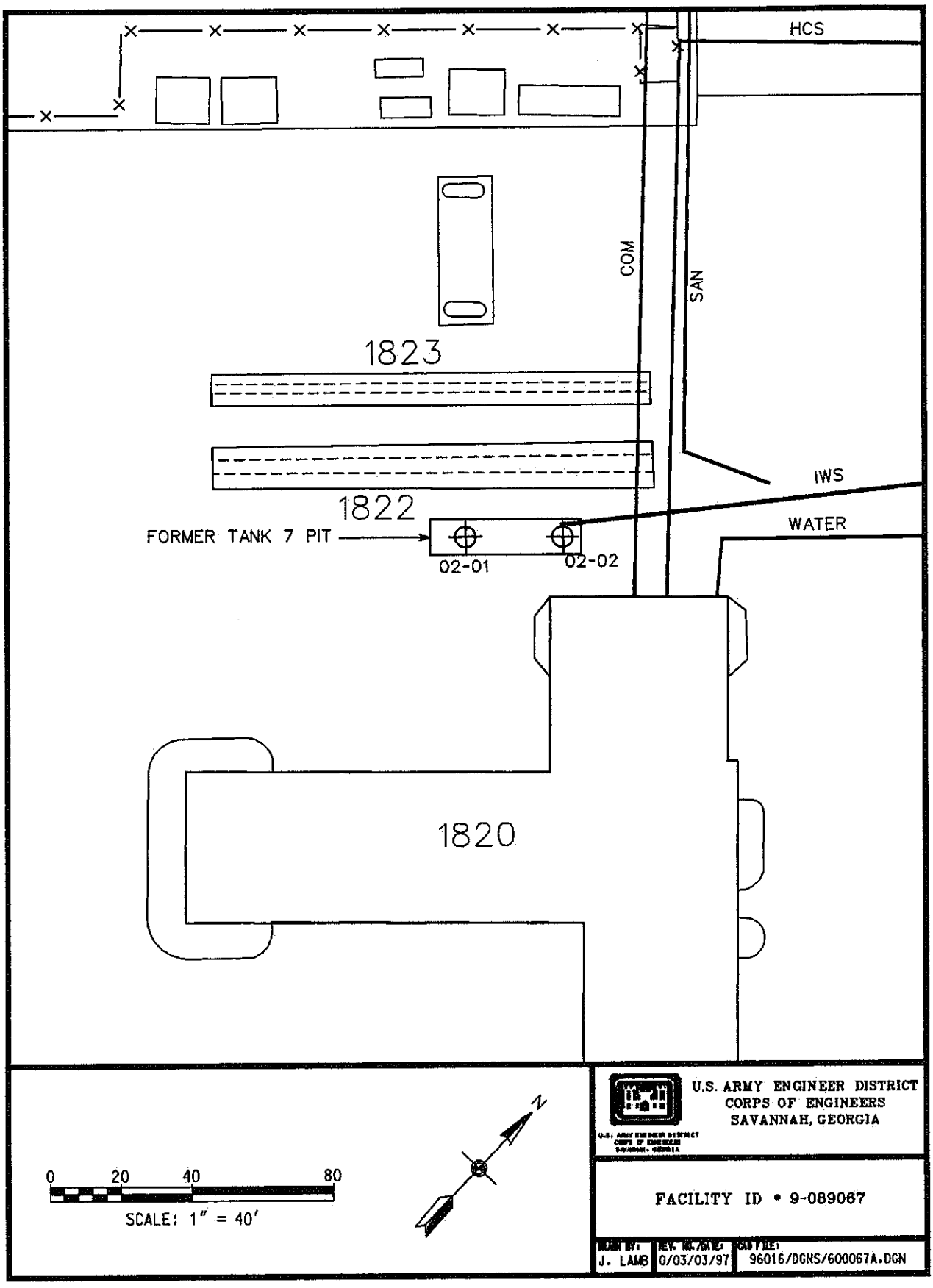
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COM
SAN
1823
1822
IWS
WATER
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02-02
1820
0
20
40
80
SCALE: 1" = 40'
N
U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
SAVANNAH, GEORGIA
FACILITY ID • 9-089067
J. LAMB
0/03/03/97
96016/DGNS/600067A.DGN

APPENDIX A

Site Maps
for
No Further Action UST Sites

threshold levels for each site. Laboratory data sheets for the samples submitted for analysis are presented in Appendix C of this document.

Analytical data for samples collected at each of the 13 sites assigned CAP-Part A status indicated that the sites did not meet the criteria for No Further Action status. Therefore, a second characterization investigation was conducted by SAIC at each of these sites during December 1996 in accordance with the investigative approach for the project. Site maps and analytical results for preliminary groundwater sites re-designated as CAP-Part A are presented in separate CAP-Part A reports that have been prepared by SAIC.

Table 2. Summary of Preliminary Groundwater Sites Included in the Fort Stewart UST Project and Their Final Status

Facility ID Number	Building Number	Tank Number	Final Status
9-089064	1841	1	CAP-Part A
9-089067	1820-1/1820	7	No Further Action
9-089068	1810	13	No Further Action
9-089011	1722/1720	17	No Further Action
		18	CAP-Part A
		19	No Further Action
		20	CAP-Part A
		21	No Further Action
		23	No Further Action
		28A	CAP-Part A
9-089016	1518/1506	36,37	No Further Action
9-089014	1542	42	No Further Action
9-089055	1024/1166	50	No Further Action
9-089113	1028	51	No Further Action
9-089050	1062/T1062	52	No Further Action
9-089021	967	67	CAP-Part A
9-089020	961	68,69	CAP-Part A
9-089019	955	70	CAP-Part A
9-089033	1809	75	CAP-Part A
9-089105	1223	76	No Further Action
9-089025	1213	77,78	CAP-Part A
9-089029	1281	82	CAP-Part A
9-089074	1247	89	CAP-Part A
9-089115	1343	100	CAP-Part A
9-089060	4577/4502	217	No Further Action
		218	No Further Action
		219	No Further Action
9-089061	4577	228	No Further Action
		229	No Further Action
		230	No Further Action
		231	No Further Action
		232,233	CAP-Part A

TPH was delineated to below detection limits above the water table, or BTEX and PAH concentrations in groundwater were below applicable drinking water quality standards, the status for these sites was changed from preliminary groundwater to No Further Action.

For those sites where sampling results indicated that BTEX or PAH concentrations were above Table A or B soil threshold levels, or BTEX or PAH concentrations in groundwater were above applicable drinking water quality standards, the status for these sites was changed from preliminary groundwater to CAP-Part A. All of the sites re-designated as CAP-Part A underwent a second characterization investigation that involved the drilling of two additional boreholes located around the perimeter of the tank pit. During the drilling of these boreholes, two soil samples and one groundwater sample were collected for laboratory chemical analysis.

III. INVESTIGATION ACTIVITIES & RESULTS

Field work for the initial investigations of preliminary groundwater UST sites was performed by SAIC during September 1996. Two soil boreholes were drilled at each of the UST sites down to the water table, and advanced several additional feet below the water table to accomplish groundwater sampling using a PowerPunch sampler.

Collection of soil samples for laboratory chemical analysis from each of the initial investigation boreholes was accomplished as planned. Collection of one groundwater sample from each borehole was also accomplished as planned. However, due to problems encountered regarding the collection of the groundwater samples using the PowerPunch sampler, the samples at some borehole locations were collected from the temporary piezometers installed in the boreholes using disposable bailers.

Based on an evaluation of the chemical analysis data for soil and groundwater samples collected at the preliminary groundwater UST sites, the final status of each site was determined. A summary of all the preliminary groundwater sites included in the Fort Stewart UST project, and the final status assigned to each site, is presented in Table 2. Analytical data for samples collected at each of the 19 sites (located within 11 separate facilities) assigned No Further Action status indicated that these sites met the criteria for this status as defined in the investigative approach for the project.

Site maps illustrating the locations of soil boreholes drilled and sampled at each No Further Action site are presented in Appendix A of this document. A summary of the analytical results for soil and groundwater samples collected at each site is presented in Appendix B of this document. These summary tables include information regarding sample numbers, collection depths, and dates of collection as well as the applicable soil

- concentrations of BTEX and polynuclear aromatic hydrocarbons (PAHs) are below Table A or B (as applicable) soil threshold levels

AND

- the vertical extent of TPH is delineated to below detection limits above the groundwater table

OR

- concentrations of BTEX and PAH in a collected groundwater sample are below applicable drinking or in-stream water quality standards.

The scope of work developed by the USACE-Savannah District and Fort Stewart DPW for the preliminary groundwater sites was designed to determine which of these sites met the criteria noted above. The initial investigation of each site included the following activities:

1. Drill two soil boreholes located within the former tank pit down to the local water table using a hollow-stem auger rig. In cases where two USTs are present at a site, drill one soil borehole near the center of each former tank pit.

2. Continuously collect soil samples at 2.5-foot intervals during borehole drilling and perform field headspace gas analysis on each sample to determine organic vapor concentration.

3. Select soil samples for laboratory chemical analysis according to the criteria noted below from each borehole drilled. Chemical parameters for soil samples submitted for laboratory analysis included BTEX, PAH, and TPH.

   In boreholes where organic vapors were detected, collect one sample from the 2.5-foot interval where the highest vapor concentration was encountered, and the other from the 2.5-foot interval located immediately above or at the water table.

   In boreholes where no organic vapors were detected, collect no soil samples for chemical analysis.

4. Upon reaching the water table, collect one groundwater sample from each borehole using a Hydropunch II or similar sampling device. Chemical parameters for groundwater samples submitted for laboratory analysis included BTEX and PAH.

Based on the results of the initial investigation conducted at each preliminary groundwater site, the final status of each site was determined using the following decision criteria. For those sites where sampling results indicated that BTEX and PAH concentrations were below Table A or B soil threshold levels and the vertical extent of

Table 1. (Continued)

Facility ID Number	Building Number	Tank Number	Initial Status
9-089059	4506	222,223	CAP-Part A
9-089042	4526/4530	226,227	CAP-Part A
9-089061	4577	228	Preliminary Groundwater
		229	Preliminary Groundwater
		230	Preliminary Groundwater
		231	Preliminary Groundwater
		232,233	Preliminary Groundwater
9-089117	4572	234,235	CAP-Part A
9-089062	4578/P-4578	236	CAP-Part A
		237	CAP-Part A
9-089100	4583/P-4578	239,240	CAP-Part A

Table 1. Summary of All Sites Included in the Fort Stewart UST Project and Their Initial Status

Facility ID Number	Building Number	Tank Number	Initial Status
9-089064	1841	1	Preliminary Groundwater
9-089067	1820-1/1820	7	Preliminary Groundwater
9-089068	1810	11,12	CAP-Part A
		13	Preliminary Groundwater
9-089069	1811	14	CAP-Part A
9-089012	1721	15,16	CAP-Part A
9-089011	1722/1720	17	Preliminary Groundwater
		18	Preliminary Groundwater
		19	Preliminary Groundwater
		20	Preliminary Groundwater
		21	Preliminary Groundwater
		23	Preliminary Groundwater
		28A	Preliminary Groundwater
9-089088	1636/1643	29	CAP-Part A
9-089114	1630	30,31,32	CAP-Part A
9-089028	1622	33,34,35	CAP-Part A
9-089016	1518/1506	36,37	Preliminary Groundwater
9-089014	1542	42	Preliminary Groundwater
9-089013	1544	43,44	CAP-Part A
9-089055	1024/1166	50	Preliminary Groundwater
9-089113	1028	51	Preliminary Groundwater
9-089050	1062/T1062	52	Preliminary Groundwater
9-089104	1161	61	CAP-Part A
9-089046	1130	64A	CAP-Part A
9-089021	967	67	Preliminary Groundwater
9-089020	961	68,69	Preliminary Groundwater
9-089019	955	70	Preliminary Groundwater
9-089024	1205/1255	72,73	CAP-Part A
9-089033	1809	75	Preliminary Groundwater
9-089105	1223	76	Preliminary Groundwater
9-089025	1213	77,78	Preliminary Groundwater
9-089089	1266/1268	80,81	CAP-Part A
9-089029	1281	82	Preliminary Groundwater
9-089074	1247	89	Preliminary Groundwater
9-089075	1333	90,91	CAP-Part A
9-089111	1331	92	CAP-Part A
9-089078	1320	94A	CAP-Part A
9-089077	1325	95,96,97	CAP-Part A
9-089079	1346	98,99	CAP-Part A
9-089115	1343	100	Preliminary Groundwater
9-089040	233	205,206	CAP-Part A
9-089036	275	208,209	CAP-Part A
9-089035	272	210	CAP-Part A
9-089060	4577/4502	217	Preliminary Groundwater
		218	Preliminary Groundwater
		219	Preliminary Groundwater

I. INTRODUCTION

This document represents the No Further Action Report for preliminary groundwater sites located at Fort Stewart, Georgia. These sites were investigated and evaluated by Science Applications International Corporation (SAIC) as part of the scope of work developed by the U.S. Army Corps of Engineers (USACE)-Savannah District and Fort Stewart Directorate of Public Works (DPW) for former underground storage tanks (USTs) located at the installation. A total of 81 USTs located at 57 sites throughout the Fort Stewart garrison area were included in the project scope of work.

Each of the project UST sites were initially assigned either preliminary groundwater status or Corrective Action Plan (CAP)-Part A status by the Fort Stewart DPW. Preliminary groundwater status was assigned to those sites where analytical results for soil samples collected during removal of the tank(s) indicated the following:

- total petroleum hydrocarbons (TPH) present at detectable concentrations in one or more of the samples.

- benzene, toluene, ethylbenzene, and xylene (BTEX) present at concentrations in all of the samples below the applicable soil threshold levels presented in Table A (Section 391-3-15-.09), Column 1 or 2, of the Georgia Rules for Underground Storage Tank Management.

CAP-Part A status was assigned to those sites where analytical results for the tank(s) removal soil samples indicated the presence of one or more BTEX compounds in one or more of the samples at concentrations above the applicable soil threshold levels. A summary of all the sites included in the Fort Stewart UST project, and the initial status assigned to each site, is presented in Table 1. Results and recommendations for the investigations conducted at UST sites assigned CAP-Part A status are presented in separate CAP-Part A reports that have been prepared by SAIC for these sites. This report addresses those preliminary groundwater sites that meet the criteria for No Further Action as described below.

II. INVESTIGATIVE APPROACH

According to Part II (Section D.3.a.iii) of guidance document Georgia Underground Storage Tank (GUST) 7A, installation of three monitoring wells is preferred to accomplish initial characterization of UST sites. However, this section of the guidance document also states that installation of three monitoring wells is not required, and submission of a CAP-Part B report (and presumably the proceeding CAP-Part A report) may not be required if the following conditions can be documented at the worst-case location:

LIST OF TABLES

LIST OF ACRONYMS

BTEX	benzene, toluene, ethylbenzene, xylene
CAP	Corrective Action Plan
DPW	Directorate of Public Works
GUST	Georgia Underground Storage Tank
PAHs	polynuclear aromatic hydrocarbons
SAIC	Science Applications International Corporation
TPH	total petroleum hydrocarbon
USACE	U.S. Army Corps of Engineers
USTs	underground storage tanks

TABLE OF CONTENTS

FINAL

NO FURTHER ACTION REPORT
FOR
FORMER UNDERGROUND STORAGE TANK SITES
FORT STEWART, GEORGIA

Prepared for:

U.S. Army Corps of Engineers - Savannah District
and
Fort Stewart Directorate of Public Works
Under Contract Number DACA21-95-D-0022
Delivery Order 0003

Prepared by:

Science Applications International Corporation
800 Oak Ridge Turnpike
Oak Ridge, Tennessee 37831

March 1997

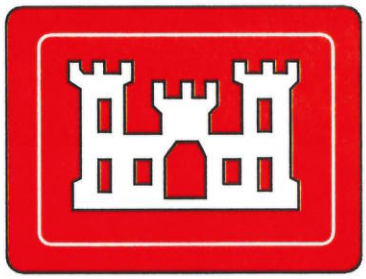
FINAL

NO FURTHER ACTION REPORT

FOR

Former Underground Storage Tank Sites
Fort Stewart, Georgia

PREPARED FOR



U.S. ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

CONTRACT No. DACA21-95-D-0022
DELIVERY ORDER 0003

March 1997

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