

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BL4103

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: HBUST02S

Matrix: (soil/water) SOIL Lab Sample ID: 9904479-08

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 1F205

Level: (low/med) LOW Date Received: 04/15/99

% Moisture: not dec. 11 Date Analyzed: 04/20/99

GC Column: J&W DB-624(FID) 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	83.9	J J

FORM I VOA

Client: Science Applications International Corp.
P.O. Box 2502
800 Oak Ridge Turnpike
Oak Ridge, Tennessee 37831
Contact: Ms. Leslie Barbour
Project Description: Hunter Army Airfield CAP-Part B UST

cc: SAIC00499

Report Date: May 03, 1999

Page 1 of 1

Sample ID : BL4103
Lab ID : 9904479-08
Matrix : Soil
Date Collected : 04/14/99
Date Received : 04/15/99
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
General Chemistry											
Total Rec. Petro. Hydrocarbons		94.3 =	22.2	44.8	mg/kg	1.0	AAT	05/02/99	1000	147917	1
Evaporative Loss @ 105 C		11.0 =	1.00	1.00	wt%	1.0	GJ	04/20/99	1515	147094	2

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

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'.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Valerie Davis at (843) 769-7391.

Reviewed By



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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BL5101

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: HBUST02S

Matrix: (soil/water) SOIL Lab Sample ID: 9904479-09

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 1F318

Level: (low/med) LOW Date Received: 04/15/99

% Moisture: not dec. 6 Date Analyzed: 04/21/99

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

71-43-2-----benzene		2.1	U
108-88-3-----toluene		2.1	U
100-41-4-----ethylbenzene		2.1	U
1330-20-7-----xylenes (total)		3.2	U

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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BL5101

Lab Name: GENERAL ENGINEERING LABOR Contract: NA
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: HBUST02S
 Matrix: (soil/water) SOIL Lab Sample ID: 9904479-09
 Sample wt/vol: 30.0 (g/mL) G Lab File ID: 5Q417
 Level: (low/med) LOW Date Received: 04/15/99
 % Moisture: 6 decanted: (Y/N) N Date Extracted: 04/20/99
 Concentrated Extract Volume: 1.00 (mL) Date Analyzed: 04/22/99
 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
208-96-8-----	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

FORM I SV-1

OLM03.0

FORM 1 Science Applications15-APR-1999 SA
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

BL5101

Lab Name: GENERAL ENGINEERING LABOR Contract: NA
Lab Code: NA Case No.: NA SAS No.: NA SDG No.: HBUST02S
Matrix: (soil/water) SOIL Lab Sample ID: 9904479-09
Sample wt/vol: 30.5 (g/mL) G Lab File ID: 070F7001
Level: (low/med) LOW Date Received: 04/15/99
% Moisture: 9 decanted: (Y/N) N Date Extracted: 04/19/99
Concentrated Extract Volume: 1.00 (mL) Date Analyzed: 05/01/99
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_____	0.90	B

UF01,F07

FORM I SV

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BL5101

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: HBUST02S

Matrix: (soil/water) SOIL Lab Sample ID: 9904479-09

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 1F1026

Level: (low/med) LOW Date Received: 04/15/99

% Moisture: not dec. 11 Date Analyzed: 04/19/99

GC Column: J&W DB-624 (FID) 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_____	63.5	J	J
-----------------------------------	------	---	---

FORM I VOA

Client: Science Applications International Corp.
P.O. Box 2502
800 Oak Ridge Turnpike
Oak Ridge, Tennessee 37831
Contact: Ms. Leslie Barbour
Project Description: Hunter Army Airfield CAP-Part B UST

cc: SAIC00499

Report Date: May 03, 1999

Page 1 of 1

Sample ID : BL5101
Lab ID : 9904479-09
Matrix : Soil
Date Collected : 04/14/99
Date Received : 04/15/99
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
General Chemistry											
Total Rec. Petro. Hydrocarbons	U	6.90 <i>U</i>	21.0	42.4	mg/kg	1.0	AAT	05/02/99	1000	147917	1
Evaporative Loss @ 105 C		6.00 <i>=</i>	1.00	1.00	wt%	1.0	GJ	04/20/99	1515	147094	2

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

Notes:

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This data report has been prepared and reviewed
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Reviewed By



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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BL5103

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: HBUST02S

Matrix: (soil/water) SOIL Lab Sample ID: 9904479-10

Sample wt/vol: 5.3 (g/mL) G Lab File ID: 1F319

Level: (low/med) LOW Date Received: 04/15/99

% Moisture: not dec. 9 Date Analyzed: 04/21/99

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

71-43-2-----benzene	2.1	U	
108-88-3-----toluene	2.1	U	
100-41-4-----ethylbenzene	2.1	U	
1330-20-7-----xylenes (total)	3.1	U	

U
↓

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BL5103

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: HBUST02S

Matrix: (soil/water) SOIL Lab Sample ID: 9904479-10

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 5Q418

Level: (low/med) LOW Date Received: 04/15/99

% Moisture: 9 decanted: (Y/N) N Date Extracted: 04/20/99

Concentrated Extract Volume: 1.00 (mL) Date Analyzed: 04/22/99

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	366	U
91-58-7-----	2-chloronaphthalene	366	U
208-96-8-----	acenaphthylene	366	U
83-32-9-----	acenaphthene	366	U
86-73-7-----	fluorene	366	U
85-01-8-----	phenanthrene	366	U
120-12-7-----	anthracene	366	U
206-44-0-----	fluoranthene	366	U
129-00-0-----	pyrene	366	U
56-55-3-----	benzo(a)anthracene	366	U
218-01-9-----	chrysene	366	U
205-99-2-----	benzo(b)fluoranthene	366	U
207-08-9-----	benzo(k)fluoranthene	366	U
50-32-8-----	benzo(a)pyrene	366	U
193-39-5-----	indeno(1,2,3-cd)pyrene	366	U
53-70-3-----	dibenz(a,h)anthracene	366	U
191-24-2-----	benzo(g,h,i)perylene	366	U

FORM I SV-1

OLM03.0

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

BL5103

Lab Name: GENERAL ENGINEERING LABOR Contract: NA
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: HBUST02S
 Matrix: (soil/water) SOIL Lab Sample ID: 9904479-10
 Sample wt/vol: 30.0 (g/mL) G Lab File ID: 071F7101
 Level: (low/med) LOW Date Received: 04/04/95
 % Moisture: 0 decanted: (Y/N) N Date Extracted: 04/04/95
 Concentrated Extract Volume: 1.00 (mL) Date Analyzed: 05/01/99
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	MG/KG	
	-----Diesel Range Organics	0.76	B	U F01, F07

FORM I SV

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BL5103

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: HBUST02S

Matrix: (soil/water) SOIL Lab Sample ID: 9904479-10

Sample wt/vol: 2.5 (g/mL) G Lab File ID: 1F304

Level: (low/med) LOW Date Received: 04/15/99

% Moisture: not dec. 9 Date Analyzed: 04/21/99

GC Column: J&W DB-624(FID) 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	220	U

FORM I VOA

Client: Science Applications International Corp.
P.O. Box 2502
800 Oak Ridge Turnpike
Oak Ridge, Tennessee 37831
Contact: Ms. Leslie Barbour
Project Description: Hunter Army Airfield CAP-Part B UST

cc: SAIC00499

Report Date: May 03, 1999

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Sample ID : BL5103
Lab ID : 9904479-10
Matrix : Soil
Date Collected : 04/14/99
Date Received : 04/15/99
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
General Chemistry											
Total Rec. Petro. Hydrocarbons	U	14.5 U	21.8	44.0	mg/kg	1.0	AAT	05/02/99	1000	147917	1
Evaporative Loss @ 105 C		9.00 =	1.00	1.00	wt%	1.0	GJ	04/20/99	1515	147094	2

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

Notes:

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any questions to your Project Manager, Valerie Davis at (843) 769-7391.

Reviewed By

John M. U



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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BL6102

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: HBUST01S

Matrix: (soil/water) SOIL Lab Sample ID: 9904395-04

Sample wt/vol: 4.3 (g/mL) G Lab File ID: 1E412

Level: (low/med) LOW Date Received: 04/14/99

% Moisture: not dec. 6 Date Analyzed: 04/15/99

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

71-43-2-----benzene	2.4	U	u
108-88-3-----toluene	2.4	U	
100-41-4-----ethylbenzene	2.4	U	
1330-20-7-----xylenes (total)	3.7	U	

DATA VALIDATION
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FORM I VOA

OLM03.0

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BL6102

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: HBUST01S

Matrix: (soil/water) SOIL Lab Sample ID: 9904395-04

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 5P611

Level: (low/med) LOW Date Received: 04/14/99

% Moisture: 6 decanted: (Y/N) N Date Extracted: 04/16/99

Concentrated Extract Volume: 1.00 (mL) Date Analyzed: 04/17/99

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
208-96-8-----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

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FORM I SV-1

OLM03.0

FORM 1 Science Applications 14-APR-1999 SA
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

BL6102

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: HBUST01S

Matrix: (soil/water) SOIL Lab Sample ID: 9904395-04

Sample wt/vol: 30.5 (g/mL) G Lab File ID: 051F5101

Level: (low/med) LOW Date Received: 04/14/99

% Moisture: 6 decanted: (Y/N) N Date Extracted: 04/19/99

Concentrated Extract Volume: 1.00 (mL) Date Analyzed: 04/30/99

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	0.51	JB	UF01, F06
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FORM I SV

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BL6102

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: HBUST01S

Matrix: (soil/water) SOIL Lab Sample ID: 9904395-04

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 1F105

Level: (low/med) LOW Date Received: 04/14/99

% Moisture: not dec. 6 Date Analyzed: 04/19/99

GC Column: J&W DB-624(FID) 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_____	66.6	J	J
-----------------------------------	------	---	---

FORM I VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BL6103

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: HBUST01S

Matrix: (soil/water) SOIL Lab Sample ID: 9904395-05

Sample wt/vol: 5.3 (g/mL) G Lab File ID: 1E413

Level: (low/med) LOW Date Received: 04/14/99

% Moisture: not dec. 10 Date Analyzed: 04/15/99

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

71-43-2-----benzene	2.1	U	
108-88-3-----toluene	2.1	U	
100-41-4-----ethylbenzene	2.1	U	
1330-20-7-----xylenes (total)	3.1	U	

U
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FORM I VOA

OLM03.0

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BL6103

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: HBUST01S

Matrix: (soil/water) SOIL Lab Sample ID: 9904395-05

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 5P612

Level: (low/med) LOW Date Received: 04/14/99

% Moisture: 10 decanted: (Y/N) N Date Extracted: 04/16/99

Concentrated Extract Volume: 1.00 (mL) Date Analyzed: 04/18/99

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	370	U
91-58-7-----	2-chloronaphthalene	370	U
208-96-8-----	acenaphthylene	370	U
83-32-9-----	acenaphthene	370	U
86-73-7-----	fluorene	370	U
85-01-8-----	phenanthrene	370	U
120-12-7-----	anthracene	370	U
206-44-0-----	fluoranthene	370	U
129-00-0-----	pyrene	370	U
56-55-3-----	benzo(a)anthracene	370	U
218-01-9-----	chrysene	370	U
205-99-2-----	benzo(b)fluoranthene	370	U
207-08-9-----	benzo(k)fluoranthene	370	U
50-32-8-----	benzo(a)pyrene	370	U
193-39-5-----	indeno(1,2,3-cd)pyrene	370	U
53-70-3-----	dibenz(a,h)anthracene	370	U
191-24-2-----	benzo(g,h,i)perylene	370	U

FORM I SV-1

OLM03.0

FORM 1 Science Applications14-APR-1999 SA
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

BL6103

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: HBUST01S

Matrix: (soil/water) SOIL Lab Sample ID: 9904395-05

Sample wt/vol: 30.5 (g/mL) G Lab File ID: 052F5201

Level: (low/med) LOW Date Received: 04/14/99

% Moisture: 10 decanted: (Y/N) N Date Extracted: 04/19/99

Concentrated Extract Volume: 1.00 (mL) Date Analyzed: 04/30/99

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	2.4	B
----------------------------	-----	---

UF01,F07

FORM I SV

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BL6103

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: HBUST01S

Matrix: (soil/water) SOIL Lab Sample ID: 9904395-05

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 1F106

Level: (low/med) LOW Date Received: 04/14/99

% Moisture: not dec. 10 Date Analyzed: 04/19/99

GC Column: J&W DB-624(FID) 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_____	85.4	J	J
-----------------------------------	------	---	---

FORM I VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BL7101

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: HBUST06S

Matrix: (soil/water) SOIL Lab Sample ID: 9904683-01

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 8G310

Level: (low/med) LOW Date Received: 04/22/99

% Moisture: not dec. 12 Date Analyzed: 04/28/99

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

71-43-2-----benzene		2.2	U
108-88-3-----toluene		2.2	U
100-41-4-----ethylbenzene		2.2	U
1330-20-7-----xylenes (total)		3.4	U

U
↓

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BL7101

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: HBUST06S

Matrix: (soil/water) SOIL Lab Sample ID: 9904683-01

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 7R210

Level: (low/med) LOW Date Received: 04/22/99

% Moisture: 12 decanted: (Y/N) N Date Extracted: 04/27/99

Concentrated Extract Volume: 1.00 (mL) Date Analyzed: 04/27/99

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	379	U
91-58-7-----2-chloronaphthalene	379	U
208-96-8-----acenaphthylene	379	U
83-32-9-----acenaphthene	379	U
86-73-7-----fluorene	379	U
85-01-8-----phenanthrene	379	U
120-12-7-----anthracene	379	U
206-44-0-----fluoranthene	379	U
129-00-0-----pyrene	379	U
56-55-3-----benzo (a) anthracene	379	U
218-01-9-----chrysene	379	U
205-99-2-----benzo (b) fluoranthene	379	U
207-08-9-----benzo (k) fluoranthene	379	U
50-32-8-----benzo (a) pyrene	379	U
193-39-5-----indeno (1,2,3-cd) pyrene	379	U
53-70-3-----dibenz (a,h) anthracene	379	U
191-24-2-----benzo (g,h,i) perylene	379	U

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FORM 1 Science Applications22-APR-1999 SA
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

BL7101

Lab Name: GENERAL ENGINEERING LABOR Contract: NA
Lab Code: NA Case No.: NA SAS No.: NA SDG No.: HBUST06S
Matrix: (soil/water) SOIL Lab Sample ID: 9904683-01
Sample wt/vol: 30.0 (g/mL) G Lab File ID: 041F4101
Level: (low/med) LOW Date Received: 04/23/99
% Moisture: 12 decanted: (Y/N) N Date Extracted: 04/23/99
Concentrated Extract Volume: 1.00 (mL) Date Analyzed: 04/30/99
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	0.71	JB
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U F01, F0L

FORM I SV

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BL7101

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: HBUST06S

Matrix: (soil/water) SOIL Lab Sample ID: 9904683-01

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 1F506

Level: (low/med) LOW Date Received: 04/22/99

% Moisture: not dec. 12 Date Analyzed: 04/23/99

GC Column: J&W DB-624 (FID) 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_____	114	U	u
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DATA VALIDATION
COPY

FORM I VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BL7103

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: HBUST06S

Matrix: (soil/water) SOIL Lab Sample ID: 9904683-02

Sample wt/vol: 4.8 (g/mL) G Lab File ID: 8G311

Level: (low/med) LOW Date Received: 04/22/99

% Moisture: not dec. 17 Date Analyzed: 04/28/99

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

71-43-2-----benzene	2.5	U	
108-88-3-----toluene	2.5	U	
100-41-4-----ethylbenzene	2.5	U	
1330-20-7-----xylenes (total)	3.8	U	

FORM I VOA

OLM03.0

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BL7103

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: HBUST06S

Matrix: (soil/water) SOIL Lab Sample ID: 9904683-02

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 7R211

Level: (low/med) LOW Date Received: 04/22/99

% Moisture: 17 decanted: (Y/N) N Date Extracted: 04/27/99

Concentrated Extract Volume: 1.00 (mL) Date Analyzed: 04/27/99

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	402	U
91-58-7-----	2-chloronaphthalene	402	U
208-96-8-----	acenaphthylene	402	U
83-32-9-----	acenaphthene	402	U
86-73-7-----	fluorene	402	U
85-01-8-----	phenanthrene	402	U
120-12-7-----	anthracene	402	U
206-44-0-----	fluoranthene	402	U
129-00-0-----	pyrene	402	U
56-55-3-----	benzo (a) anthracene	402	U
218-01-9-----	chrysene	402	U
205-99-2-----	benzo (b) fluoranthene	402	U
207-08-9-----	benzo (k) fluoranthene	402	U
50-32-8-----	benzo (a) pyrene	402	U
193-39-5-----	indeno (1,2,3-cd) pyrene	402	U
53-70-3-----	dibenz (a,h) anthracene	402	U
191-24-2-----	benzo (g,h,i) perylene	402	U

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FORM 1 Science Applications22-APR-1999 SA
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

BL7103

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: HBUST06S

Matrix: (soil/water) SOIL Lab Sample ID: 9904683-02

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 042F4201

Level: (low/med) LOW Date Received: 04/23/99 *22* *MMR 5/17/99*

% Moisture: 12 decanted: (Y/N) N Date Extracted: 04/23/99

Concentrated Extract Volume: 1.00 (mL) Date Analyzed: 04/30/99

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	0.59	JB	U FDI, F06
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FORM I SV

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BL7103

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: HBUST06S

Matrix: (soil/water) SOIL Lab Sample ID: 9904683-02

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 1F507

Level: (low/med) LOW Date Received: 04/22/99

% Moisture: not dec. 17 Date Analyzed: 04/23/99

GC Column: J&W DB-624(FID) 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
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-----Gasoline Range Organics_____	120	U	4
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FORM I VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BL1500

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: HBUST05S

Matrix: (soil/water) SOIL (Sediment) Lab Sample ID: 9904580-12

Sample wt/vol: 3.7 (g/mL) G Lab File ID: 8G209

Level: (low/med) LOW Date Received: 04/20/99

% Moisture: not dec. 25 Date Analyzed: 04/27/99

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q
71-43-2-----	benzene	3.6	U	↓
108-88-3-----	toluene	3.6	U	
100-41-4-----	ethylbenzene	3.6	U	
1330-20-7-----	xylene (total)	5.4	U	

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BL1500

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: HBUST05S

Matrix: (soil/water) SOIL (*Sediment*) Lab Sample ID: 9904580-03

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 4R214

Level: (low/med) LOW Date Received: 04/20/99

% Moisture: 25 decanted: (Y/N) N Date Extracted: 04/21/99

Concentrated Extract Volume: 1.00 (mL) Date Analyzed: 04/27/99

Injection Volume: 1.0 (uL) Dilution Factor: 4.0

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

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO. COMPOUND Q

91-20-3-----	naphthalene	1780	U
91-58-7-----	2-chloronaphthalene	1780	U
208-96-8-----	acenaphthylene	1780	U
83-32-9-----	acenaphthene	1780	U
86-73-7-----	fluorene	1780	U
85-01-8-----	phenanthrene	1780	U
120-12-7-----	anthracene	1780	U
206-44-0-----	fluoranthene	573	J
129-00-0-----	pyrene	782	J
56-55-3-----	benzo(a)anthracene	336	J
218-01-9-----	chrysene	473	J
205-99-2-----	benzo(b)fluoranthene	543	J
207-08-9-----	benzo(k)fluoranthene	462	J
50-32-8-----	benzo(a)pyrene	452	J
193-39-5-----	indeno(1,2,3-cd)pyrene	244	J
53-70-3-----	dibenz(a,h)anthracene	1780	U
191-24-2-----	benzo(g,h,i)perylene	302	J

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J
J

FORM I SV-1

OLM03.0

FORM 1 Science Applications20-APR-1999 SA
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

BL1500

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: HBUST05S

Matrix: (soil/water) SOIL (*Sediment*) Lab Sample ID: 9904580-03

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 010F1001

Level: (low/med) LOW Date Received: 04/20/99

% Moisture: 25 decanted: (Y/N) N Date Extracted: 04/23/99

Concentrated Extract Volume: 1.00 (mL) Date Analyzed: 05/03/99

Injection Volume: 1.0 (uL) Dilution Factor: 4.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
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-----Diesel Range Organics	26.4	B	= P08
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FORM I SV

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BL1500

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: HBUST05S

Matrix: (soil/water) SOIL (Sediment) Lab Sample ID: 9904580-03

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 1F309

Level: (low/med) LOW Date Received: 04/20/99

% Moisture: not dec. 25 Date Analyzed: 04/21/99

GC Column: J&W DB-624(FID) 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
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-----Gasoline Range Organics_____	164	=
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FORM I VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

Duplicate

EPA SAMPLE NO.

BL1510

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: HBUST05S

Matrix: (soil/water) SOIL (Sediment) Lab Sample ID: 9904580-16

Sample wt/vol: 5.3 (g/mL) G Lab File ID: 8G211

Level: (low/med) LOW Date Received: 04/20/99

% Moisture: not dec. 24 Date Analyzed: 04/27/99

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

71-43-2-----benzene	2.5	U	ccg
108-88-3-----toluene	1.7	J	
100-41-4-----ethylbenzene	2.5	U	
1330-20-7-----xylenes (total)	3.7	U	

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Duplicate
EPA SAMPLE NO.

BL1510

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: HBUST05S

Matrix: (soil/water) SOIL (sediment) Lab Sample ID: 9904580-05

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 4R216

Level: (low/med) LOW Date Received: 04/20/99

% Moisture: 24 decanted: (Y/N) N Date Extracted: 04/21/99

Concentrated Extract Volume: 1.00 (mL) Date Analyzed: 04/27/99

Injection Volume: 1.0 (uL) Dilution Factor: 4.0

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	1750	U
91-58-7-----	2-chloronaphthalene	1750	U
208-96-8-----	acenaphthylene	1750	U
83-32-9-----	acenaphthene	1750	U
86-73-7-----	fluorene	1750	U
85-01-8-----	phenanthrene	1750	U
120-12-7-----	anthracene	1750	U
206-44-0-----	fluoranthene	2780	
129-00-0-----	pyrene	3630	
56-55-3-----	benzo (a) anthracene	2400	
218-01-9-----	chrysene	3290	
205-99-2-----	benzo (b) fluoranthene	3900	
207-08-9-----	benzo (k) fluoranthene	2470	
50-32-8-----	benzo (a) pyrene	2780	
193-39-5-----	indeno (1,2,3-cd) pyrene	1830	
53-70-3-----	dibenz (a,h) anthracene	837	J
191-24-2-----	benzo (g,h,i) perylene	2130	

FORM I SV-1

OLM03.0

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Duplicate
Science Applications 20-APR-1999 SA

BL1510

Lab Name: GENERAL ENGINEERING LABOR Contract: NA
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: HBUST05S
 Matrix: (soil/water) SOIL (*sediment*) Lab Sample ID: 9904580-05
 Sample wt/vol: 30.0 (g/mL) G Lab File ID: 009F0901
 Level: (low/med) LOW Date Received: 04/20/99
 % Moisture: 24 decanted: (Y/N) N Date Extracted: 04/23/99
 Concentrated Extract Volume: 1.00 (mL) Date Analyzed: 05/03/99
 Injection Volume: 1.0 (uL) Dilution Factor: 2.0
 GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG		Q
	-----Diesel Range Organics_____	10.3	B	=F08

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

Duplicate
EPA SAMPLE NO.

BL1510

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: HBUST05S

Matrix: (soil/water) SOIL (Sediment) Lab Sample ID: 9904580-05

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 1F3011

Level: (low/med) LOW Date Received: 04/20/99

% Moisture: not dec. 24 Date Analyzed: 04/21/99

GC Column: J&W DB-624 (FID) 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_____	102	J	J
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FORM I VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BL2500

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: HBUST05S

Matrix: (soil/water) SOIL Lab Sample ID: 9904580-14

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 8G210

Level: (low/med) LOW Date Received: 04/20/99

% Moisture: not dec. 40 Date Analyzed: 04/27/99

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q
71-43-2-----	benzene	3.3	U	U
108-88-3-----	toluene	4.6		U
100-41-4-----	ethylbenzene	3.3	U	U
1330-20-7-----	xylene (total)	5.0	U	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BL2500

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: HBUST05S

Matrix: (soil/water) SOIL Lab Sample ID: 9904580-04

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 4R215

Level: (low/med) LOW Date Received: 04/20/99

% Moisture: 40 decanted: (Y/N) N Date Extracted: 04/21/99

Concentrated Extract Volume: 1.00 (mL) Date Analyzed: 04/27/99

Injection Volume: 1.0 (uL) Dilution Factor: 4.0

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	2220	U
91-58-7-----	2-chloronaphthalene	2220	U
208-96-8-----	acenaphthylene	2220	U
83-32-9-----	acenaphthene	2220	U
86-73-7-----	fluorene	2220	U
85-01-8-----	phenanthrene	2220	U
120-12-7-----	anthracene	2220	U
206-44-0-----	fluoranthene	2220	U
129-00-0-----	pyrene	2220	U
56-55-3-----	benzo (a) anthracene	2220	U
218-01-9-----	chrysene	2220	U
205-99-2-----	benzo (b) fluoranthene	2220	U
207-08-9-----	benzo (k) fluoranthene	2220	U
50-32-8-----	benzo (a) pyrene	2220	U
193-39-5-----	indeno (1,2,3-cd) pyrene	2220	U
53-70-3-----	dibenz (a,h) anthracene	2220	U
191-24-2-----	benzo (g,h,i) perylene	2220	U

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FORM 1 Science Applications20-APR-1999 SA
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

BL2500

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: HBUST05S

Matrix: (soil/water) SOIL Lab Sample ID: 9904580-04

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 036F3601

Level: (low/med) LOW Date Received: 04/20/99

% Moisture: 40 decanted: (Y/N) N Date Extracted: 04/23/99

Concentrated Extract Volume: 1.00 (mL) Date Analyzed: 04/30/99

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	0.40	JB	U F01, F06
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FORM I SV

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BL2500

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: HBUST05S

Matrix: (soil/water) SOIL Lab Sample ID: 9904580-04

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 1F3010

Level: (low/med) LOW Date Received: 04/20/99

% Moisture: not dec. 40 Date Analyzed: 04/21/99

GC Column: J&W DB-624(FID) 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
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-----Gasoline Range Organics	132	J	J
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FORM I VOA

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

CHAIN OF CUSTODY RECORD 9904621% COC NO.: HAAF04209901

PROJECT NAME: HAAF CAP B, UST 21/22, BLDG 1327, ID 9-025053				REQUESTED PARAMETERS												LABORATORY NAME: General Engineering Laboratory	
PROJECT NUMBER: DACA21-95-D-0022, DO # 38																LABORATORY ADDRESS: 2040 Savage Road Charleston, SC 29407	
PROJECT MANAGER: Allison Bailey																PHONE NO: (843) 556-8171	
Sampler/Signature: <i>Mike Kideers</i> (Printed Name)																OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS: 2.0. 3.6 FT	
Sample ID	Date Collected	Time Collected	Matrix	PAH, TPH-DRO, MOISTURE	THP-GRO	PAH							No. of Bottles/Vials:				
B-1102	4/19/99	1720	SOIL	3	1								5				
B-1103	4/19/99	1742	SOIL	3	1												
~~4/20/99~~																	
RELINQUISHED BY: <i>Mike Kideers</i>				RECEIVED BY: <i>Mike Kideers</i>				TOTAL NUMBER OF CONTAINERS:				Cooler Temperature: 4°C (FIELD)					
COMPANY NAME: SAIC				COMPANY NAME: SAIC				Cooler ID: 573				FEDEX NUMBER: N/A					
RECEIVED BY: <i>Michael Hall</i>				RELINQUISHED BY: <i>Michael Hall</i>				TEMP BLANK INCORPORATED IN COOLER									
COMPANY NAME: SAIC				COMPANY NAME: SAIC													
RELINQUISHED BY: <i>Michael Hall</i>				RECEIVED BY: <i>Michael Hall</i>													
COMPANY NAME: SAIC				COMPANY NAME: SAIC													

CHAIN OF CUSTODY RECORD

COC NO.:

[illegible]

CHAIN OF CUSTODY RECORD

COC NO.: HAAFD4199901

CHAIN OF CUSTODY RECORD

[illegible]

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BL1200

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: HBUSTC7W

Matrix: (soil/water) WATER Lab Sample ID: 9905347-05

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 2J512

Level: (low/med) LOW Date Received: 05/11/99

% Moisture: not dec. Date Analyzed: 05/21/99

GC Column: DB-624 ID: 0.25 (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	3.1		
108-88-3-----toluene	2.0	U	= U = UF01, F07
100-41-4-----ethylbenzene	11.9		
1330-20-7-----xylenes (total)	5.1	B	

FORM I VOA

OLM03.0

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BL1200

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: HBUST07W

Matrix: (soil/water) GROUNDH2O Lab Sample ID: 9905347-10

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 4T612

Level: (low/med) LOW Date Received: 05/11/99

% Moisture: _____ decanted: (Y/N) _____ Date Extracted: 05/12/99

Concentrated Extract Volume: 1.00 (mL) Date Analyzed: 05/15/99

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	26.2	
91-58-7-----	2-chloronaphthalene	10.0	U
208-96-8-----	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.

BL2200

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: HBUST07W

Matrix: (soil/water) WATER Lab Sample ID: 9905347-07

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 2J514

Level: (low/med) LOW Date Received: 05/11/99

% Moisture: not dec. _____ Date Analyzed: 05/21/99

GC Column: DB-624 ID: 0.25 (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	1.8	J	11CJ U F01, F06
108-88-3-----toluene	2.0	U	
100-41-4-----ethylbenzene	3.7		
1330-20-7-----xylenes (total)	5 ~~4.7~~	JB	

MAP
6/11/99

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BL2200

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: HBUST07W

Matrix: (soil/water) GROUNDH2O Lab Sample ID: 9905347-12

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 4T614

Level: (low/med) LOW Date Received: 05/11/99

% Moisture: _____ decanted: (Y/N) _____ Date Extracted: 05/12/99

Concentrated Extract Volume: 1.00 (mL) Date Analyzed: 05/15/99

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	4.0	J
91-58-7-----	2-chloronaphthalene	10.0	U
208-96-8-----	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

Duplicate
EPA SAMPLE NO.

BL2210

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: HBUST07W

Matrix: (soil/water) WATER Lab Sample ID: 9905347-08

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 2J515

Level: (low/med) LOW Date Received: 05/11/99

% Moisture: not dec. Date Analyzed: 05/21/99

GC Column: DB-624 ID: 0.25 (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	1.6	J	5 = U F01, F06
108-88-3-----toluene	2.0	U	
100-41-4-----ethylbenzene	3.5		
1330-20-7-----xylenes (total)	5 4.7	JB	

MMR
6/11/99

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Duplicate

EPA SAMPLE NO.

BL221C

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: HBUST07W

Matrix: (soil/water) GROUNDH2O Lab Sample ID: 9905347-13

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 4T615

Level: (low/med) LOW Date Received: 05/11/99

% Moisture: _____ decanted: (Y/N) _____ Date Extracted: 05/12/99

Concentrated Extract Volume: 1.00 (mL) Date Analyzed: 05/15/99

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	4.3	J
91-58-7-----	2-chloronaphthalene	10.0	U
208-96-8-----	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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FORM I SV-1

OLM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BL3200

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: HBUST07W

Matrix: (soil/water) WATER Lab Sample ID: 9905347-02

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 2J509

Level: (low/med) LOW Date Received: 05/11/99

% Moisture: not dec. _____ Date Analyzed: 05/21/99

GC Column: DB-624 ID: 0.25 (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	2.0	U	U ↓ U F01, F06
108-88-3-----	toluene	2.0	U	
100-41-4-----	ethylbenzene	2.0	U	
1330-20-7-----	xlenes (total)	5 4.6	JB	

MMR
6/11/99

FORM I VOA

OLM03.0

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BL3200

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: HBUST07W

Matrix: (soil/water) GROUNDH2O Lab Sample ID: 9905347-02

Sample wt/vol: 900.0 (g/mL) ML Lab File ID: 4T609

Level: (low/med) LOW Date Received: 05/11/99

% Moisture: _____ decanted: (Y/N) _____ Date Extracted: 05/12/99

Concentrated Extract Volume: 1.00 (mL) Date Analyzed: 05/15/99

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	11.1 U	U ↓
91-58-7-----	2-chloronaphthalene	11.1 U	
208-96-8-----	acenaphthylene	11.1 U	
83-32-9-----	acenaphthene	11.1 U	
86-73-7-----	fluorene	11.1 U	
85-01-8-----	phenanthrene	11.1 U	
120-12-7-----	anthracene	11.1 U	
206-44-0-----	fluoranthene	11.1 U	
129-00-0-----	pyrene	11.1 U	
56-55-3-----	benzo(a)anthracene	11.1 U	
218-01-9-----	chrysene	11.1 U	
205-99-2-----	benzo(b)fluoranthene	11.1 U	
207-08-9-----	benzo(k)fluoranthene	11.1 U	
50-32-8-----	benzo(a)pyrene	11.1 U	
193-39-5-----	indeno(1,2,3-cd)pyrene	11.1 U	
53-70-3-----	dibenz(a,h)anthracene	11.1 U	
191-24-2-----	benzo(g,h,i)perylene	11.1 U	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BL4200

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: HBUST07W

Matrix: (soil/water) WATER Lab Sample ID: 9905347-03

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 2J510

Level: (low/med) LOW Date Received: 05/11/99

% Moisture: not dec. _____ Date Analyzed: 05/21/99

GC Column: DB-624 ID: 0.25 (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	2.0	U	U ↓ U F01, F06
108-88-3-----	toluene	2.0	U	
100-41-4-----	ethylbenzene	2.0	U	
1330-20-7-----	xylenes (total)	5 ~~4.6~~	JB	

MMP
6/11/99

FORM I VOA

OLM03.0

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BL4200

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: HBUST07W

Matrix: (soil/water) GROUNDH2O Lab Sample ID: 9905347-03

Sample wt/vol: 900.0 (g/mL) ML Lab File ID: 4T610

Level: (low/med) LOW Date Received: 05/11/99

% Moisture: _____ decanted: (Y/N) _____ Date Extracted: 05/12/99

Concentrated Extract Volume: 1.00 (mL) Date Analyzed: 05/15/99

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	11.1	U	U ↓
91-58-7	2-chloronaphthalene	11.1	U	
208-96-8	acenaphthylene	11.1	U	
83-32-9	acenaphthene	11.1	U	
86-73-7	fluorene	11.1	U	
85-01-8	phenanthrene	11.1	U	
120-12-7	anthracene	11.1	U	
206-44-0	fluoranthene	11.1	U	
129-00-0	pyrene	11.1	U	
56-55-3	benzo (a) anthracene	11.1	U	
218-01-9	chrysene	11.1	U	
205-99-2	benzo (b) fluoranthene	11.1	U	
207-08-9	benzo (k) fluoranthene	11.1	U	
50-32-8	benzo (a) pyrene	11.1	U	
193-39-5	indeno (1,2,3-cd) pyrene	11.1	U	
53-70-3	dibenz (a,h) anthracene	11.1	U	
191-24-2	benzo (g,h,i) perylene	11.1	U	

FORM I SV-1

OLM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BL5200

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: HBUST07W

Matrix: (soil/water) WATER Lab Sample ID: 9905347-04

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 2J511

Level: (low/med) LOW Date Received: 05/11/99

% Moisture: not dec. Date Analyzed: 05/21/99

GC Column: DB-624 ID: 0.25 (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	2.0	U	
108-88-3-----toluene	2.0	U	
100-41-4-----ethylbenzene	2.0	U	
1330-20-7-----xylenes (total)	5 ~~4.6~~	JB	

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UFOI, F06

MMP
6/11/99

FORM I VOA

OLM03.0

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BL5200

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: HBUST07W

Matrix: (soil/water) GROUNDH2O Lab Sample ID: 9905347-04

Sample wt/vol: 900.0 (g/mL) ML Lab File ID: 4T611

Level: (low/med) LOW Date Received: 05/11/99

% Moisture: _____ decanted: (Y/N) _____ Date Extracted: 05/12/99

Concentrated Extract Volume: 1.00 (mL) Date Analyzed: 05/15/99

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	11.1	U
91-58-7-----	2-chloronaphthalene	11.1	U
208-96-8-----	acenaphthylene	11.1	U
83-32-9-----	acenaphthene	11.1	U
86-73-7-----	fluorene	11.1	U
85-01-8-----	phenanthrene	11.1	U
120-12-7-----	anthracene	11.1	U
206-44-0-----	fluoranthene	11.1	U
129-00-0-----	pyrene	11.1	U
56-55-3-----	benzo (a) anthracene	11.1	U
218-01-9-----	chrysene	11.1	U
205-99-2-----	benzo (b) fluoranthene	11.1	U
207-08-9-----	benzo (k) fluoranthene	11.1	U
50-32-8-----	benzo (a) pyrene	11.1	U
193-39-5-----	indeno (1,2,3-cd) pyrene	11.1	U
53-70-3-----	dibenz (a,h) anthracene	11.1	U
191-24-2-----	benzo (g,h,i) perylene	11.1	U

FORM I SV-1

OLM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BL6200

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: HBUST07W

Matrix: (soil/water) WATER Lab Sample ID: 9905347-01

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 2J508

Level: (low/med) LOW Date Received: 05/11/99

% Moisture: not dec. _____ Date Analyzed: 05/21/99

GC Column: DB-624 ID: 0.25 (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	2.0	U	U ↓ U F01, F06
108-88-3-----toluene	2.0	U	
100-41-4-----ethylbenzene	2.0	U	
1330-20-7-----xylenes (total)	5 ~~4.7~~	JB	

MAP
6/11/99

FORM I VOA

OLM03.0

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

3L6200

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: HBUST07W

Matrix: (soil/water) GROUNDH2O Lab Sample ID: 9905347-01

Sample wt/vol: 900.0 (g/mL) ML Lab File ID: 4T608

Level: (low/med) LOW Date Received: 05/11/99

% Moisture: _____ decanted: (Y/N) _____ Date Extracted: 05/12/99

Concentrated Extract Volume: 1.00 (mL) Date Analyzed: 05/15/99

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	11.1	U
91-58-7-----	2-chloronaphthalene	11.1	U
208-96-8-----	acenaphthylene	11.1	U
83-32-9-----	acenaphthene	11.1	U
86-73-7-----	fluorene	11.1	U
85-01-8-----	phenanthrene	11.1	U
120-12-7-----	anthracene	11.1	U
206-44-0-----	fluoranthene	11.1	U
129-00-0-----	pyrene	11.1	U
56-55-3-----	benzo(a)anthracene	11.1	U
218-01-9-----	chrysene	11.1	U
205-99-2-----	benzo(b)fluoranthene	11.1	U
207-08-9-----	benzo(k)fluoranthene	11.1	U
50-32-8-----	benzo(a)pyrene	11.1	U
193-39-5-----	indeno(1,2,3-cd)pyrene	11.1	U
53-70-3-----	dibenz(a,h)anthracene	11.1	U
191-24-2-----	benzo(g,h,i)perylene	11.1	U

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FORM I SV-1

OLM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BL7200

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: HBUST08W1

Matrix: (soil/water) WATER Lab Sample ID: 9905394-02

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 5J530

Level: (low/med) LOW Date Received: 05/12/99

% Moisture: not dec. Date Analyzed: 05/22/99

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
71-43-2-----	benzene	2.0	U	U ↓
108-88-3-----	toluene	2.0	U	
100-41-4-----	ethylbenzene	2.0	U	
1330-20-7-----	xylenes (total)	3.0	U	

FORM I VOA

OLM03.0

A-103

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BL7200

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: HBUST08W

Matrix: (soil/water) GROUNDH2O Lab Sample ID: 9905394-02

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 5U412

Level: (low/med) LOW Date Received: 05/12/99

% Moisture: _____ decanted: (Y/N) _____ Date Extracted: 05/13/99

Concentrated Extract Volume: 1.00 (mL) Date Analyzed: 05/20/99

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
208-96-8-----	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
CCTV

FORM I SV-1

OLM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BL1600

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: HBUST05W

Matrix: (soil/water) WATER Lab Sample ID: 9904580-11

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 2G112

Level: (low/med) LOW Date Received: 04/20/99

% Moisture: not dec. _____ Date Analyzed: 04/26/99

GC Column: DB-624 ID: 0.25 (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	2.0	U	↓
108-88-3-----	toluene	2.0	U	
100-41-4-----	ethylbenzene	2.0	U	
1330-20-7-----	xylene (total)	3.0	U	

FORM I VOA

OLM03.0

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BL1600

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: HBUST05W

Matrix: (soil/water) GROUNDH2O Lab Sample ID: 9904580-11

Sample wt/vol: 960.0 (g/mL) ML Lab File ID: 8Q431

Level: (low/med) LOW Date Received: 04/20/99

% Moisture: _____ decanted: (Y/N) _____ Date Extracted: 04/20/99

Concentrated Extract Volume: 1.00 (mL) Date Analyzed: 04/23/99

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	10.4	U
91-58-7-----	2-chloronaphthalene	10.4	U
208-96-8-----	acenaphthylene	10.4	U
83-32-9-----	acenaphthene	10.4	U
86-73-7-----	fluorene	10.4	U
85-01-8-----	phenanthrene	10.4	U
120-12-7-----	anthracene	10.4	U
206-44-0-----	fluoranthene	10.4	U
129-00-0-----	pyrene	10.4	U
56-55-3-----	benzo (a) anthracene	10.4	U
218-01-9-----	chrysene	10.4	U
205-99-2-----	benzo (b) fluoranthene	10.4	U
207-08-9-----	benzo (k) fluoranthene	10.4	U
50-32-8-----	benzo (a) pyrene	10.4	U
193-39-5-----	indeno (1,2,3-cd) pyrene	10.4	U
53-70-3-----	dibenz (a,h) anthracene	10.4	U
191-24-2-----	benzo (g,h,i) perylene	10.4	U

FORM I SV-1

OLM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BL1610

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: HBUST05W

Matrix: (soil/water) WATER Lab Sample ID: 9904580-15

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 2G114

Level: (low/med) LOW Date Received: 04/20/99

% Moisture: not dec. Date Analyzed: 04/26/99

GC Column: DB-624 ID: 0.25 (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	2.0	U	2500
108-88-3-----toluene	0.53	J	
100-41-4-----ethylbenzene	2.0	U	
1330-20-7-----xylenes (total)	3.0	U	

FORM I VOA

OLM03.0

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BL1610

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: HBUST05W

Matrix: (soil/water) GROUNDH2O Lab Sample ID: 9904580-06

Sample wt/vol: 960.0 (g/mL) ML Lab File ID: 8Q428

Level: (low/med) LOW Date Received: 04/20/99

% Moisture: _____ decanted: (Y/N) _____ Date Extracted: 04/20/99

Concentrated Extract Volume: 1.00 (mL) Date Analyzed: 04/23/99

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	10.4	U
91-58-7-----	2-chloronaphthalene	10.4	U
208-96-8-----	acenaphthylene	10.4	U
83-32-9-----	acenaphthene	10.4	U
86-73-7-----	fluorene	10.4	U
85-01-8-----	phenanthrene	10.4	U
120-12-7-----	anthracene	10.4	U
206-44-0-----	fluoranthene	10.4	U
129-00-0-----	pyrene	10.4	U
56-55-3-----	benzo (a) anthracene	10.4	U
218-01-9-----	chrysene	10.4	U
205-99-2-----	benzo (b) fluoranthene	10.4	U
207-08-9-----	benzo (k) fluoranthene	10.4	U
50-32-8-----	benzo (a) pyrene	10.4	U
193-39-5-----	indeno (1,2,3-cd) pyrene	10.4	U
53-70-3-----	dibenz (a,h) anthracene	10.4	U
191-24-2-----	benzo (g,h,i) perylene	10.4	U

FORM I SV-1

OLM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BL2600

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: HBUST05W

Matrix: (soil/water) WATER Lab Sample ID: 9904580-13

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 2G113

Level: (low/med) LOW Date Received: 04/20/99

% Moisture: not dec. _____ Date Analyzed: 04/26/99

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
71-43-2-----	benzene	2.0	U	↓
108-88-3-----	toluene	2.0	U	
100-41-4-----	ethylbenzene	2.0	U	
1330-20-7-----	xylenes (total)	3.0	U	

FORM I VOA

OLM03.0

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BL2600

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: HBUST05W

Matrix: (soil/water) GROUNDH2O Lab Sample ID: 9904580-13

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 8Q432

Level: (low/med) LOW Date Received: 04/20/99

% Moisture: _____ decanted: (Y/N) _____ Date Extracted: 04/20/99

Concentrated Extract Volume: 1.00 (mL) Date Analyzed: 04/23/99

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
208-96-8-----	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

FORM I SV-1

OLM03.0

97053479
CHAIN OF CUSTODY RECORD

COC NO.: HAAF 05119902

PROJECT NAME: HAAF CAP B.UST 21/22.BLDG1327, ID 9-025053				REQUESTED PARAMETERS												LABORATORY NAME: General Engineering Laboratory															
PROJECT NUMBER: DACA21-95-D-0022, DO # 38																LABORATORY ADDRESS: 2040 Savage Road Charleston, SC 29407															
PROJECT MANAGER: Allison Bailey																PHONE NO: (843) 556-8171															
Sampler (Signature) <i>Robert H. Hall</i>				(Printed Name) Mitchell H. Hall																											
Sample ID	Date Collected	Time Collected	Matrix	BTEX	PAH, TPH-DRO, MOISTURE	THP-GRO	PAH						No. of Bottles/Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS																
BL1200	5-10-99	1055	WATER										2	0.0 ppm	Petroleum odor																
BL2230	5-10-99	1225	WATER										2	N/A	N/A																
BL2200	5-10-99	1400	WATER										2	11.8 ppm	Petroleum odor																
BL2210	5-10-99	1400	WATER										2	11.8 ppm	Petroleum odor																
~~5/11/99~~																															
RELINQUISHED BY: <i>SAIC</i>				RECEIVED BY: <i>Paynt Reel</i>				Date/Time 5/11/99				TOTAL NUMBER OF CONTAINERS: 8				Cooler Temperature: 4°C ± 7°C															
COMPANY NAME: SAIC				COMPANY NAME: GEL				Date/Time 5/11/99				Cooler ID: 856				FEDEX NUMBER: N/A															
RECEIVED BY: <i>James Summey</i>				RELINQUISHED BY: <i>Paynt Reel</i>				Date/Time 5/11/99				NOTE: Temperature Blank Included.																			
COMPANY NAME: SAIC				COMPANY NAME: GEL				Date/Time 16:50																							
RELINQUISHED BY: <i>James Summey</i>				RECEIVED BY: <i>P. J. Conroy</i>				Date/Time 5/11/99																							
COMPANY NAME: SAIC				COMPANY NAME: GEL				Date/Time 14:00																							



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

99053472

COC NO.: HAAAF05119401

CHAIN OF CUSTODY RECORD

PROJECT NAME: HAAAF CAP B, JUST 21/22, BLDG 1327, ID 9-025053				REQUESTED PARAMETERS												LABORATORY NAME: General Engineering Laboratory	
PROJECT NUMBER: DACA21-95-D-0022, DO # 38																LABORATORY ADDRESS: 2040 Savage Road Charleston, SC 29407	
PROJECT MANAGER: Allison Bailey																PHONE NO: (843) 556-8171	
Sampler (Signature) <i>Nichell Hall</i>				(Printed Name) Nichell Hall												OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS	
Sample ID	Date Collected	Time Collected	Matrix	BTEX	PAH, TPH, DRO, MOISTURE	TPH, GRO	PAH						No. of Bottles/Vials	OVA SCREENING			
BL200	5-8-99	1700	WATER	Z			Z						4	0.0 ppm	None		
BL3200	5-9-99	1035	WATER	Z			Z						4	0.0 ppm	None		
BL4200	5-9-99	1520	WATER	Z			Z						4	0.0 ppm	None		
BL5200	5-9-99	1645	WATER	Z			Z						4	0.0 ppm	None		
BL1200	5-10-99	1055	WATER	Z			Z						2	0.0 ppm	Petroleum odor		
BL2230	5-10-99	1225	WATER	Z			Z						2	N/A	None		
BL2200	5-10-99	1400	WATER	Z			Z						2	11.8 ppm	Petroleum odor		
BL2210	5-10-99	1400	WATER	Z			Z						2	11.8 ppm	Strong Petroleum		
TBL004	5-8-99	1200	WATER	Z			Z						2	N/A	TRIP BLANK		
									5-11-99								
RELINQUISHED BY: <i>Nichell Hall</i>				RECEIVED BY: <i>Raymond Reed</i>				Date/Time 5/11/99				TOTAL NUMBER OF CONTAINERS: 26				Cooler Temperature: 4°C ± 2°C	
COMPANY NAME: SAIC				COMPANY NAME: GPST				Date/Time 1400				Cooler ID: 789				FEDEX NUMBER: N/A	
RECEIVED BY: <i>James D. Dwyer</i>				RELINQUISHED BY: <i>Raymond Reed</i>				Date/Time 5/11/99				NOTE: Temperature Blank Included					
COMPANY NAME: SAIC				COMPANY NAME: GPST				Date/Time 1330									
RELINQUISHED BY: <i>James D. Dwyer</i>				RECEIVED BY: <i>P. H. Dwyer</i>				Date/Time 5/11/99									
COMPANY NAME: SAIC				COMPANY NAME: GPST				Date/Time 1400									

CHAIN OF CUSTODY RECORD

COC NO.: HAF0512991

[illegible]

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CHAIN OF CUSTODY RECORD

COC NO.: HAAFO4199602

PROJECT NAME: HAAF CAP B, UST 108, BLDG 1346, ID 9-025104 A40 HAAF CAP B, UST 21/22, BLDG 1327, 109-025053 PROJECT NUMBER: DACA21-95-D-0022, DO # 38				REQUESTED PARAMETERS												LABORATORY NAME: General Engineering Laboratory			
PROJECT MANAGER: Allison Bailey																LABORATORY ADDRESS: 2040 Savage Road Charleston, SC 29407			
SAMPLER SIGNATURE: <i>Mike Kidress</i> (Printed Name) Mike Kidress																PHONE NO: (843) 556-8171			
Sample ID	Date Collected	Time Collected	Matrix	BTEX	PAH, TPH, TPH-DRO, MOISTURE	TPH-GRO	PAH	Total Organic Carbon									No. of Bottles/Vials	OVA SCREENING	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
B02500	4/18/99	1641	SEDIMENT	3												3	N/A	9904580-07	
B02600	4/18/99	1634	SURFACE WATER	2			2									4	N/A	208	
B01600	4/18/99	1700	SURFACE WATER	2			2									4	N/A	209	
B01500	4/18/99	1706	SEDIMENT	3												3	N/A	-10	
B01600	4/18/99	1410	SURFACE WATER	2			2									4	N/A	-11	
B01500	4/18/99	1422	SEDIMENT	3												3	N/A	-12	
B02600	4/18/99	1514	SURFACE WATER	2			2									4	N/A	-13	
B02500	4/18/99	1519	SEDIMENT	3												3	N/A	-14	
B01600	4/18/99	1410	SURFACE WATER	2			2									2	N/A	-15	
B01510	4/18/99	1422	SEDIMENT	3												3	N/A	-16	
T02003	4/14/99	2230	WATER	2												2	N/A	-17	
RELINQUISHED BY: <i>Allison Bailey</i>				RECEIVED BY: <i>Shane</i>				Date/Time: 4/20/99				TOTAL NUMBER OF CONTAINERS: 35				Cooler Temperature: 4° (FIELD)			
COMPANY NAME: SAYC				COMPANY NAME: <i>Shane</i>				Cooler ID: 320142				FEDEX NUMBER: 811236285423							
RECEIVED BY: <i>FEDEX</i>				RELINQUISHED BY:				Date/Time: 4/19/99				TEMP BLANK INCUBATED IN COOLER							
COMPANY NAME:				COMPANY NAME:				Date/Time: 1600											
RELINQUISHED BY:				RECEIVED BY:				Date/Time: 4/19/99											
COMPANY NAME:				COMPANY NAME:				Date/Time: 1600											

CHAIN OF CUSTODY RECORD

COC NO.: HAA- 04199901

PROJECT NAME: HAAF CAP B, JUST 21/22, BLDG 1327, ID 9-025053 A-10 HAAF CAP B, JUST 108, BLDG-1346, 109-025104 PROJECT NUMBER: DACA21-95-D-0022, DO # 38				REQUESTED PARAMETERS										LABORATORY NAME: General Engineering Laboratory	
PROJECT MANAGER: Allison Bailey				PAH, TPH, TRP-DRO, MOISTURE										LABORATORY ADDRESS: 2040 Savage Road Charleston, SC 29407	
Sampler (Signature) <i>Mike Kidzess</i> (Printed Name) Mike Kidzess				PAH, TPH, TRP-DRO, MOISTURE										PHONE NO: (843) 556-8171	
Sample ID	Date Collected	Time Collected	Matrix	BTEX	PAH, TPH, TRP-DRO, MOISTURE	THP-GRO	PAH	PAH, TPH, TRP-DRO, MOISTURE					OVA SCREENING	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS	
B02500	4/18/99	1641	SEDIMENT			1	1						N/A	9904580-01	
B01500	4/18/99	1706	SEDIMENT			1	1						N/A	02	
B01500	4/18/99	1422	SEDIMENT			1	1						N/A	03	
B02500	4/18/99	1519	SEDIMENT			1	1						N/A	04	
B01510	4/18/99	1422	SEDIMENT			1	1						N/A	05	
B01610	4/18/99	1410	SURFACE WATER				2						N/A	06	
MK 4/19/99															
RELINQUISHED BY: <i>Mike Kidzess</i>				RECEIVED BY: <i>Shawna</i>				Date/Time: 4/22/99				TOTAL NUMBER OF CONTAINERS: 12			
COMPANY NAME: SAIC				COMPANY NAME: <i>Shawna</i>				Date/Time: 4/22/99				Cooler ID: 226,48			
RECEIVED BY: FEDEX				RELINQUISHED BY:				Date/Time: 4/22/99				Cooler Temperature: 42 (fews)			
COMPANY NAME:				COMPANY NAME:				Date/Time: 1600				FEDEX NUMBER: 808910135511			
RELINQUISHED BY:				RELINQUISHED BY:				Date/Time: 1600				TEMPERATURE BLANK INCLUDED IN COOLER			
COMPANY NAME:				COMPANY NAME:				Date/Time:							

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APPENDIX B

FIELD BORING LOGS

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HTRW DRILLING LOG				DISTRICT		HOLE NUMBER	
1. COMPANY NAME: SACC				2. DRILL SUBCONTRACTOR SAIC- MIDDLETOWN		3. HOLE NUMBER BL-7BL-1	
4. PROJECT UST 21422, Bldg. 1327 CAP B				5. LOCATION UST 21422, BLDG. 1327, HUNTER AAF			
6. NAME OF DRILLER JIM HEWITT				7. MANUFACTURERS DESIGNATION OF DRILL GEOPROBE MODEL 66 DT			
8. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT 2.0-INCH DIA, 4.0-FT LENGTH MACROCORE WITH 1.75-INCH 4.0-FT LENGTH ACETATE LINERS. EXPENDABLE CARBID STEEL DRIVE POINTS. 8.75-INCH OD, 4.25-INCH ID HOLLOW STEM AUGERS				9. HOLE LOCATION UST 21422, Bldg. 1327			
10. SURFACE ELEVATION TBD				11. DATE COMPLETED 04-20-99			
12. OVERBURDEN THICKNESS N/A				13. DATE STARTED 04-19-99			
14. DEPTH DRILLED INTO ROCK N/A				15. DEPTH GROUNDWATER ENCOUNTERED 4.6 FT BGS			
16. TOTAL DEPTH OF HOLE 15.8 FT BGS				17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED 5.9 AT 1 HOUR			
18. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) N/A				19. TOTAL NUMBER OF CORE BOXES N/A			
20. GEOTECHNICAL SAMPLES RL400		DISTURBED 0.6 TO 2.0 FT		UNDISTURBED		21. TOTAL CORE RECOVERY % 95	
22. SAMPLES FOR CHEMICAL ANALYSIS BL1102, BL1103		VOC		METALS		OTHER (SPECIFY) TPH (GRO. DRO)	
23. DISPOSITION OF HOLE WELL		BACKFILLED		MONITORING WELL MW-1		OTHER (SPECIFY) PAH'S	
24. SIGNATURE OF INSPECTOR <i>W. I. [Signature]</i>							
LOCATION SKETCH/COMMENTS							
SCALE: NOT TO SCALE							
PROJECT UST 21422, CAP B INVESTIGATION						HOLE NO. BL-7BL-1	

HTRW DRILLING LOG

PROJECT		INSPECTOR		SHEET		
UST 21+22, Bldg. 1327 CAFB		W. Kevin Jago		BL-1 WKT 4-19-99 BL-7 2 of 3		
ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	FIELD SCREENING RESULTS (D)	GEOCHEM SAMPLE OR CORE BOX NO (E)	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
		CONCRETE				RUN1: 0.6 TO 4.0 FT BGS START: 1712 STOP: 1714 RUN: 3.4 WKT-1714 RECOVERY: 3.0 FT
	1.0	SW-SM: well graded sand/with silt, medium to fine grained. Micaceous. 10YR 3H very dark grayish brown	FS=0.0ppm HS=0.0ppm	BL1400 0.6 TO 2.0 FT BGS		
	2.0	Graded contact to a SP: poorly graded, medium to coarse sand, micaceous. 2.5 YR 6/2 light brownish gray.	FS=0.0ppm HS=0.0ppm			
	3.0	Graded contact to a SW-SM; medium to fine silty sand stained dark. 10YR 3/2 very dark grayish brown.		BL-1102 2.0 TO 5.6 FT BGS		
	4.0	NO RECOVERY				
	5.0	SP: Poorly graded sand with gravel. Pebbles to 5mm in diameter. Micaceous. WET, AT 4.6 FT BGS 10YR 6/1, GRAY	FS=0.0ppm HS=0.0ppm SEA=0.0ppm	BL1103 4.0 TO 4.6 FT BGS		RUN2: STIFF, HAMMERING START: 1716 STOP: 1735 WKT 4-17-99 RUN: 4.0 FT RECOVERY: 3.8 FT
	6.0		FS=0.0ppm			
	7.0	WET ZONE AT 7.0 FT BGS				
	8.0	SHARP CONTACT TO A SW: very fine grained, well graded sand. 10YR 5/6 yellowish brown.				
	9.0	NO RECOVERY				
	9.0	SP: Poorly graded, medium to coarse sand. Micaceous. PEBBLES 2 TO 4 mm in diameter. 10YR 6/1 (gray)	FS=0.0ppm			RUN3: START: 1737 STOP: 1759 RUN: 4.0 FT RECOVERY: 4.0 FT
	10.0	GRADATIONAL CONTACT TO SW: well graded fine-grained sand. 10YR 4/6, dark yellowish brown TO 10YR 8/2 very pale brown				

PROJECT

UST 21+22, Bldg. 1327 CAFB-4

HOLE NO

WKT 4-19-99
BL-7 BL-1

82

1.0

2.0

3.0

4.0

5.0

6.0

7.0

8.0

9.0

10.0

[illegible]

PROJECT

UST 21722, Bldg. 1327 CAPB ^{B-5} INVESTIGATION

HOLE NO

BL-1

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HTRW DRILLING LOG			DISTRICT		HOLE NUMBER	
1. COMPANY NAME SACC			2. DRILL SUBCONTRACTOR SAIC MIDDLE TOWN OFFICE		BL-2 SHEET 21 OF 3	
3. PROJECT UST 21422, Bldg. 1327 CRPB INVESTIGATION			4. LOCATION TANIC 21422, Bldg. 1327, HUNTER AAF			
5. NAME OF DRILLER JIM NEWITT			6. MANUFACTURERS DESIGNATION OF DRILL GEOPROBE MODEL 66DT			
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT 2.0-IN DIA, 9.0-FT LENGTH MACROCORE SAMPLER WITH 6.75-IN DIA ALUMINUM LINERS, 4.0-FT LENGTH EXPENDABLE CARBON STEEL DRIVE POINTS 8.75-IN OD, 4.25-IN ID HOLLOW STEEL ANGERS			8. HOLE LOCATION UST 21422, Bldg. 1327			
12. OVERBURDEN THICKNESS N/A			9. SURFACE ELEVATION TRD			
13. DEPTH DRILLED INTO ROCK N/A			10. DATE STARTED 4-14-99		11. DATE COMPLETED 4-19-99	
14. TOTAL DEPTH OF HOLE 15.1 FT BGS			15. DEPTH GROUNDWATER ENCOUNTERED 6.1 FT BGS			
18. GEOTECHNICAL SAMPLES BL2400			19. TOTAL NUMBER OF CORE BOXES N/A			
20. SAMPLES FOR CHEMICAL ANALYSIS BL2101, BL2103, BL2113			21. TOTAL CORE RECOVERY 93%			
22. DISPOSITION OF HOLE WELL			23. SIGNATURE OF INSPECTOR W. Kamin Gage			
LOCATION SKETCH/COMMENTS			SCALE: NOT TO SCALE			
PROJECT UST 21422, Bldg. 1327 CRPB INVESTIGATION			HOLE NO. BL-2			

HTRW DRILLING LOG

PROJECT			INSPECTOR			HST-1499	
UST 21422, Bldg. 1327 CAP B			W. KEVIN JAGO			BL 2 of 3	
ELV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	FIELD SCREENING RESULTS (D)	GEOTECH SAMPLE OR CORE BOX NO. (E)	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)	
	1.0	CONCRETE					
	2.0	SP: Poorly graded sand w/ medium to coarse subtraction up to 2mm, micaceous (muscovite)	BZA=0.0ppm FS=0.0ppm HS=19.4ppm		BL2101 1.1 TO 2.0 FT BGS	RUN1: 1.1 TO 4.0 START: 0910 END: 0912 RUN: ~~2.9-4.0 FT~~ ^{WET} 2.9-4.0 FT RECOVERY: 2.9 FT	
	3.0	SP+SM: Poorly graded sand with silt. 10YR2/1 (black) to 10YR2/2 (very dark brown)	FS=0.0ppm HS=13.2ppm	BL2400 2.0 TO 4.0 FT BGS	BL2102 2.0 TO 4.0 FT BGS - NOT SENT TO LAB	Petrochem odor @ 2.9 TO 3.4 INTERVAL NO PID READING NOTED = 0.0ppm	
	4.0	Sharp contact to SP: poorly graded sand with gravel fraction @ 10% up to 3/4-inch, rounded gravel. 5Y5/1 (gray).	BZA=0.0ppm FS=0.0ppm HS=10.2ppm			RUN2: 4.0 TO 8.0 START: 0924 END: 0928 RUN: 4.0 FT END ~~4.7~~ RECOVERY: 3.1 FT HOLE COLLAPSING WILL ATTEMPT ONE ADDITIONAL RUN	
	5.0				BL2103 4.1 TO 6.1 FT BGS Duplicate BL2113 4.1 TO 6.1 FT BGS		
	6.0	WET AT 6.1 FT BGS					
	7.0	Sharp contact to SW-SM: fine-grained, well graded silty sand. 10YR5/4 (yellowish brown) to 10YR2/1 (black)	FS=0.0ppm HS=0.0ppm				
	8.0	NO RECOVERY					
	9.0	CONTINUED 6.1 TO 7.1 FT INTERVAL.	BZA=0.0ppm FS=0.0ppm			RUN3: START: 1004 END: 1007 RUN: 1.0 FT - REFUSAL RECOVERY: 0.8 FT	
	10.0	ADDITIONAL CONTACT TO B SW: well sorted fine sand. micaceous (muscovite). Trace dark mineral content (heavy minerals?)	BZA=0.0ppm FS=0.0ppm HS= N/A			RUN4: START: 1008 END: 1011 RUN: 4.0 FT - HAMMERING RECOVERY: 4.0 FT	

PROJECT

UST 21422, Bldg. 1327 CAP B-8 Investigation

HOLE NO

BL-2

37

10.0

[illegible]

PROJECT

UST 21422, Bldg. 1327 CAFE INVESTIGATION
B-9

HOLE NO.

BL-2

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45

HTRW DRILLING LOG				DISTRICT		HOLE NUMBER	
1. COMPANY NAME: SACC				2. DRILL SUBCONTRACTOR: SACC MIDDLETOWN		3. HOLE NUMBER: BL-3	
3. PROJECT: UST 21422, Bldg. 1327 CAPB Investigation				4. LOCATION: USTS 21422, Bldg. 1327, HUNTER AAF		SHEET 1 OF 3	
5. NAME OF DRILLER: JIM HEWITT				6. MANUFACTURERS DESIGNATION OF DRILL: Geoprobe Model 66DT			
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 2.0-IN DIA, 4.0-FT LENGTH MACROCORE SAMPLER WITH 1.75-IN DIA, 4.0-FT LENGTH ACETATE LINERS. CARBON STEEL EXPENDABLE DRIVE BITS. 8.75-IN OD, 4.25-IN ID HOLLOW STEM AUGERS.				8. HOLE LOCATION: UST 21422, Bldg. 1327			
12. OVERBURDEN THICKNESS: N/A				9. SURFACE ELEVATION: TBD			
13. DEPTH DRILLED INTO ROCK: N/A				10. DATE STARTED: 4-14-99		11. DATE COMPLETED: 4-19-99	
14. TOTAL DEPTH OF HOLE: 15.3 FT BGS				15. DEPTH GROUNDWATER ENCOUNTERED: 6.4 FT BGS			
18. GEOTECHNICAL SAMPLES: BL 3400				19. TOTAL NUMBER OF CORE BOXES: 5.42 FT @ 0740 on 04-15-99			
20. SAMPLES FOR CHEMICAL ANALYSIS: BL 3103, BL 3102		DISTURBED 1 (2.0 TO 2.4')		UNDISTURBED 1 (2.0 TO 2.4')		21. TOTAL CORE RECOVERY: 90%	
22. DISPOSITION OF HOLE: WELL		BACKFILLED		MONITORING WELL		23. SIGNATURE OF INSPECTOR: <i>W. Kevin Galt</i>	
LOCATION SKETCH/COMMENTS				SCALE: NOT TO SCALE			
PROJECT: UST 21422, Bldg. 1327, CAPB INVESTIGATION						HOLE NO.: BL-3	

HTRW DRILLING LOG

PROJECT		INSPECTOR		DATE		SHEET	
UST 21422, Bldg. 1327 CAP B		W. KEVIN JAGO		11/14/99		BL-32 of 3	
ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	FIELD SCREENING RESULTS (D)	GEOCHEM SAMPLE OR CORE BOX NO (E)	ANALYTICAL SAMPLE NO (F)	REMARKS (G)	
		CONCRETE PAD	BZA=0.0ppm FS=0.0ppm HS=0.0ppm			START: 0812 STOP: 0813 RUN: 3.2 FT RECOVERY: 3.2 FT	
	1.0	SP sm. poorly graded, medium grained sand with silt. 10YR 6/8 (brownish yellow).					
	2.0		FS=0.0ppm HS=0.0ppm	BL3400 2.0 TO 2.4 FT BGS			
	3.0	SM: silty, fine sand 10YR 2/1 (black) to 10YR 9/1 (dark gray).			BL3102 2.0 TO 4.0 FT BGS		
	4.0	sharp contact to SP: poorly graded sand, micaceous (muscovite). 2.5Y 7/2 (light gray) color change due to staining to	BZA=0.0ppm FS=0.0ppm HS=0.0ppm (GAT 6.4)			START: 0816 STOP: 0828 RUN: 4.0 FT RECOVERY: 2.9 FT	
	5.0				BL3103 4.4 TO 6.4 FT BGS		
	6.0	WET AT 6.4 FT BGS	FS=0.0ppm HS=N/A				
	7.0	GRADATIONAL CONTACT TO A SP: fine, poorly graded sand with silt 10YR 2/1 (black) to 10YR 3/3 (dark brown).					
	8.0	NO RECOVERY					
	9.0	SP: poorly graded sand medium to coarse-grained. 2.5Y 7/3 pale yellow to 5Y 8/1 (white). large grains up to 2 mm.	BZA=0.0ppm FS=0.0ppm HS=N/A			START: 0830 END: 0840 RUN: 4.0 FT RECOVERY: 4.0 FT	
	10.0	GRADATIONAL FINING DOWNWARD TRANSITION TO WELL SORTED, FINE SAND WITH SILT (SW-SM).					

PROJECT

UST 21422, Bldg. 1327 CAP B-12 INVESTIGATION

HOLE NO

BL-3

46

1.0

2.0

3.0

4.0

5.0

6.0

7.0

8.0

9.0

10.0

HTRW DRILLING LOG							DATE 4-14-99
PROJECT WEST 21422, Bldg. 1327 CAP B		INSPECTOR W. Kevin Jago					SHEET Pt 3 of 3
ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	FIELD SCREENING RESULTS (D)	GEOTECH SAMPLE OR CORE BOX NO (E)	ANALYTICAL SAMPLE NO (F)	REMARKS (G)	
		CONTINUED ABOVE INTERVAL: COLOR 5Y 7/4 (pale yellow)					
	11.0						
	12.0					END PROBING AT 12.0 FT	
		NO				AUGER ONLY 12.0 TO 15.3 FT BGS	
		RECOVERY					
						TD= 15.3 FT	

PROJECT

UST 21422, Bk 1327 C/B-13 INVESTIGATION

HOLE NO

EL-3

47

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HTRW DRILLING LOG		DISTRICT	HOLE NUMBER
1. COMPANY NAME: SAIC		SAVANNAH USACE	BL-4
2. DRILL SUBCONTRACTOR SAIC MIDDLETOWN OFFICE		SHEET 1 OF 23	
3. PROJECT UST 21422, Bldg. 1327 CAPB INVESTIGATION		4. LOCATION UST 21422, Bldg. 1327, HUNTER AAF	
5. NAME OF DRILLER JIM NEWITT		6. MANUFACTURERS DESIGNATION OF DRILL Geoprobe Model 66 DT	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT 2.0-IN DIA, 4.0-FT LENGTH MACROCORE SAMPLER WITH 1.75-IN DIA, 4.0-FT LENGTH ACETATE LINER, EXPENDABLE CARBON STEEL DRIVE POINTS, 8.71-IN O.D., 4.25-IN I.D. NALLOW STEM AUGERS		8. HOLE LOCATION UST 21422, Bldg. 1327	
12. OVERBURDEN THICKNESS N/A		9. SURFACE ELEVATION TBD	
13. DEPTH DRILLED INTO ROCK N/A		10. DATE STARTED 4-14-99	
14. TOTAL DEPTH OF HOLE 15.0 FT BGS		11. DATE COMPLETED 4-19-99	
15. DEPTH GROUNDWATER ENCOUNTERED 5.2 FT BGS		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED N/A	
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) N/A		18. GEOTECHNICAL SAMPLES BL4400	
19. TOTAL NUMBER OF CORE BOXES N/A		20. SAMPLES FOR CHEMICAL ANALYSIS BL4102, BL4103	
21. TOTAL CORE RECOVERY 100%		22. DISPOSITION OF HOLE WELL	
23. SIGNATURE OF INSPECTOR <i>W. K. [Signature]</i>		24. LOCATION SKETCH/COMMENTS	

SCALE: NOT TO SCALE

PROJECT: **UST 21422, Bldg. 1327 CAPB INVESTIGATION**

HOLE NO.: **BL-4**

HTRW DRILLING LOG

WAT 4-19-90

PROJECT		INSPECTOR		SHEET	
UST 21422 CAP B Investigation		W. Kevin Jago		10 of 3	
DEPTH (ft)	DESCRIPTION OF MATERIALS (C)	FIELD SCREENING RESULTS (D)	GEOTECH SAMPLE OR CORE BOX NO (E)	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	CONCRETE				
1.0	SP-SM; poorly graded sand with silt. MICACEOUS (muscovite). ROOTS, limonitic ZONES 1-3 cm / cemented.		BEA=0.0ppm FS=0.0ppm HS=0.0ppm		RUN 1 START: 1430 STOP: 1433 RUN: 3.3 FT RECOVERY: 3.3 FT
2.0					
	COARSE SAND: SP, 10YR 7/2				
3.0	Sharp contact to SW-SM: very fine to fine sand with silt. 10YR 3/2 (very dark brown) to 10YR 2/1 (black), moist. High organic content.		BL 4400 3.9 to 4.0 FT BGS	BL 4102 2.0 to 4.0 FT BGS	
4.0					
5.0	CONTINUED ABOVE INTERVAL: SW-SM - very fine sand with silt. color 10YR 3/2 (very dark brown) WATER AT 5.2 FT BGS.		BEA=0.0ppm FS=0.0ppm HS=0.0ppm HS AT 5.5 FT BGS = 0.0ppm FS=0.0ppm	BL 4103 4.0 to 5.3 FT BGS	RUN 2 START: 1435 STOP: 1439 RUN: 4.0 FT RECOVERY: 3.8 FT Slight odor noted
6.0					
7.0	GRADATIONAL CONTACT TO SW - very fine, well-graded sand. 10YR 5/6 (yellowish brown). MICACEOUS				
8.0					Hole caved to 3.4 FT BGS END GEOPROBE AT 7.8 FT.
9.0					
10.0					

PROJECT

UST 21422, Bldg. 1327 CFS B-16 INVESTIGATION

HOLE NO

BL-4

HTRW DRILLING LOG

PROJECT UST 21422, BLDG. 1327 INSPECTOR W. Keim 0198 SHEET 2 of 3 ^{WKT 4-14-99} ⁵⁶

ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	FIELD SCREENING RESULTS (D)	GEOCHEM SAMPLE OR CORE BOX NO (E)	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
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AUGER ONLY
7.8 TO 15.0
FT BGS

11.0
~~12.0~~
WKT
4-14-99

12.0
~~13.0~~
WKT
4-14-99

13.0

14.0

15.0

NO

RECOVERY

TD=15.0 FT BGS

WKT
4-14-99
11.0
~~12.0~~

WKT
4-14-99
12.0
~~13.0~~

WKT
4-14-99
13.0
~~14.0~~

WKT
4-14-99
14.0
~~15.0~~

15.0

W. Keim
04-24-99

PROJECT

UST 21422, BLDG. 1327 CRIP B INVESTIGATION B-17

HOLE NO

BL-4

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HTRW DRILLING LOG			DISTRICT			HOLE NUMBER		
1. COMPANY NAME: SAZC			2. DRILL SUBCONTRACTOR: SAZC MIDDLETOWN OFFICE			3. HOLE NUMBER: BL-5		
4. PROJECT: UST 21422, Bldg. 1327 CAP B INVESTIGATION			5. LOCATION: UST 21422, Bldg. 1327, NUNTER AAF			6. SHEET SHEETS: 1 OF 3		
7. NAME OF DRILLER: TIM NEWITT			8. MANUFACTURERS DESIGNATION OF DRILL: GEOPROBE MODEL 66DT			9. HOLE LOCATION: UST 21422, Bldg. 1327		
10. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 2.0-IN DIA, 4.0-FT LENGTH MACROCORE SAMPLER WITH 1.75-IN DIA, 4.0-FT LENGTH ACETATE LINERS EXPENDABLE CARBON STEEL DRIVE POINTS. 8.75-OD, 4.25-IN ID HOLLOW STEM AUGERS			11. SURFACE ELEVATION: TBD			12. DATE STARTED: 4-14-99		
13. OVERBURDEN THICKNESS: N/A			14. DATE COMPLETED: 4-19-99			15. DEPTH GROUNDWATER ENCOUNTERED: 5.0 FT BGS		
16. DEPTH DRILLED INTO ROCK: N/A			17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A			18. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A		
19. TOTAL DEPTH OF HOLE: 15.0 FT BGS			20. GEOTECHNICAL SAMPLES: BL5400			21. TOTAL NUMBER OF CORE BOXES: 1 (2.0 TO 2.5') + (2.0-2.5')		
22. SAMPLES FOR CHEMICAL ANALYSIS: BL5101, BL5103			23. VOC:			24. METALS:		
25. DISPOSITION OF HOLE: WELL			26. BACKFILLED:			27. MONITORING WELL:		
28. OTHER (SPECIFY): BTX			29. OTHER (SPECIFY): TPH (GRO+DRO)			30. OTHER (SPECIFY): PAHS		
31. SIGNATURE OF INSPECTOR: W. [Signature]			32. TOTAL CORE RECOVERY %: 72			33. LOCATION SKETCH/COMMENTS:		

SCALE: NOT TO SCALE

The sketch shows a building labeled 'BUILDING 1331' with a 'CONCRETE PAD' in front of it. A 'FENCE' runs diagonally across the upper left. Borehole locations are marked with circles and labeled: BL-2 (6.7 FT FROM CONCRETE), BL-4, BL-5 (2.9 FT FROM FENCE), and BL-7 (28.0 FT TO CORNER). Distances from the fence are also noted: 2.9 FT and 14.0 FT.

HTRW DRILLING LOG

PROJECT		INSPECTOR		SHEET		
UST 21422, Bldg. 1327 CAP B		W. Kevin G. G. G.		2 OF 3		
ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	FIELD SCREENING RESULTS (D)	GEOCHEM SAMPLE OR CORE BOX NO (E)	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	1.0	Surficial cover - soil, root zone	BZA = N/A			START: 1225
	2.0	SP-SM: poorly graded sand with gravel. Gravel fraction up to 10 mm. 10YR 6/2 (light brownish gray)	FS = 0.0 ppm HS = 0.0 ppm		BL 5101 0.0 TO 2.0 FT BGS	STOP: 1227 RUN: 4.0 FT RECOVERY: 2.5 FT
	3.0	SW-SM: well graded sand, fine-grained with silt. 10YR 4/3 (brown), micaceous	FS = 0.0 ppm HS = N/A	BL 5480 2.0 TO 2.5 FT BGS		
	4.0	NO RECOVERY				
	5.0	CONTINUED SW-SM OF ABOVE INTERVAL. COLOR STAINING TO 10YR 3/2 VERY DARK GRAYISH BROWN HEAVY MINERALS PRESENT. WET AT 5.0 BGS	BZA = 0.0 ppm FS = 0.0 ppm HS = N/A		BL 5103 4.0 TO 5.0 FT BGS	RUN 2 START: 1233 STOP: 1237 RUN: 4.0 FT RECOVERY: 2.4 FT
	6.0	NO RECOVERY	FS = 0.0 ppm HS = N/A			
	7.0	NO RECOVERY				
	8.0	NO RECOVERY (SLOUGH)				RUN 3 START: 1245 STOP: 1247 RUN: 4.0 FT RECOVERY: 3.5 FT
	9.0	SW - well sorted, fine to medium grained, micaceous sand. 10YR 8/2 (very pale brown).				1.0 FT OF SLOUGH IN HOLE FROM TOP OF WATER TABLE. HOLE COLLAPSED AT 5.0 FT.
	10.0					

PROJECT

UST 21422, Bldg. 1327 CAP R INVESTIGATION B-20

HOLE NO

BL-5

[illegible]

PROJECT

UST 21422, Bkly. 1327 CAPR INVESTIGATION
B-21

HOLE NO.

BL-5

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HTRW DRILLING LOG			DISTRICT			HOLE NUMBER		
1. COMPANY NAME SACC			2. DRILL SUBCONTRACTOR SACC MIDDLETOWN			3. HOLE NUMBER BL-6A		
4. PROJECT UST 21422 CAP B, FIELD INVESTIGATION			5. LOCATION HUNTER ARMY AIRFIELD			6. SHEET SHEETS 1 OF 3		
7. NAME OF DRILLER JIM NEWITT			8. MANUFACTURERS DESIGNATION OF DRILL GEOPROBE MODEL 66DT			9. HOLE LOCATION UST 21422, Bldg. 1327		
10. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT 1.75-IN DIA. ACETATE LINERS WITH 2.0-IN O.D. STAINLESS STEEL, 4.0-FT LENGTH MACROCORE SAMPLER, GEOPROBE MODEL 66DT RIG WITH CARBON STEEL EXPENDABLE DRIVE POINTS 8.75-INCH OD, 4.25-INCH ID HOLLOW STEM AUGERS			11. SURFACE ELEVATION TBD			12. DATE STARTED 04/13/99		
13. OVERBURDEN THICKNESS N/A			14. DATE COMPLETED 04/13/99			15. DEPTH GROUNDWATER ENCOUNTERED 5.9 FT BGS		
16. DEPTH DRILLED INTO ROCK N/A			17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED N/A			18. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) N/A		
19. TOTAL DEPTH OF HOLE 14.7 FT BGS			20. GEOTECHNICAL SAMPLES N/A			21. TOTAL NUMBER OF CORE BOXES N/A		
22. SAMPLES FOR CHEMICAL ANALYSIS N/A			23. VOC			24. METALS		
25. OTHER (SPECIFY)			26. OTHER (SPECIFY)			27. OTHER (SPECIFY)		
28. DISPOSITION OF HOLE PLUGGED			29. BACKFILLED			30. MONITORING WELL		
31. OTHER (SPECIFY)			32. OTHER (SPECIFY)			33. OTHER (SPECIFY)		
34. SIGNATURE OF INSPECTOR <i>William J. [Signature]</i>			35. TOTAL CORE RECOVERY 23%			36. LOCATION SKETCH/COMMENTS		
SCALE:								
PROJECT USTS 21422, Bldg. 1327 CAPB						HOLE NO. BL-6A		

HTRW DRILLING LOG

PROJECT		INSPECTOR		SUBJECT		
U.S.T. 21422 USTS, Bldg. 1327, CAP B		W. Kevin JAGO		2 OF 3		
ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	FIELD SCREENING RESULTS (D)	GEOCHEMICAL SAMPLE OR CORE BOX NO (E)	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
		SOIL HORIZON, ROOT ZONE GRASS, GRAVEL FILL	BZA=0.0ppm FS=0.0ppm HS=0.0ppm			START 0947 STOP: 0948 RUN: 4.0 FT RECOVERY: 2.8 FT
1.0 2.0 WEL 413.99		SP: Poorly graded sand with gravel and pebble fraction. High organic debris content. 7.5YR 2.5/1 TO 7.5YR 3/2				
2.0 4.0 WEL 413.99		SHARP CONTACT TO SW-SM: well sorted sand with silt. 10YR 6/3 - PALE BROWN	FS=0.0ppm HS=0.0ppm			
3.0		NO RECOVERY				
4.0		NO RECOVERY	BZA=0.0ppm FS= N/A HS= N/A			START: 1003 STOP: 1010 RUN: 4.0 RECOVERY: 0.0
5.0		NO RECOVERY				
6.0		5.9 FT-WATER				
7.0		NO RECOVERY				
8.0		NO RECOVERY				START: 1012 STOP: 1013 RUN: 4.0 FT RECOVERY: 4.0 FT 413.99
9.0		NO RECOVERY				
10.0						

PROJECT

U.S.T. 21422, Bldg. 1327, IB-24B

HOLE NO

BL-6A

[illegible]

74

PROJECT

45T 21422, Bldg. 1327 C²_{B-25}

HOLE NO.

BL-6A

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HTRW DRILLING LOG

PROJECT		INSPECTOR		SHIFT		
EAST 21422, Bldg. 1327 CAPB		W. KEVIN JAGO		2 of 3		
ELEV (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	FIELD SCREENING RESULTS (D)	GEOCHEM SAMPLE OR CORE BOX NO (E)	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
		SOIL COVER: ROOT ZONE GRASS 15M - SILTY SAND with gravel. 5YR 6/2 Pinkish gray	BZA= N/A FS=0.0ppm HS=0.0ppm	↑ BL6400 0.0 TO 2.0 FT BGS DISTURBED. ↓		START: 1340 END: 1344 RUN: 4.0 FT RECOVERY: 3.5 FT
1.0		Sharp contact to SP-SM: poorly graded of sand with silt. Abundant organic detritus. 10YR 4/3 brown to 10YR 2/1 - black.				
2.0			FS=0.0ppm HS=0.0ppm		↑ BL6102 2.0 TO 3.5 FT BGS ↓	
3.0		Sharp contact to SW-SM: well graded sand with silt. 10YR 7/3 very pale brown				
4.0		NO RECOVERY	N/A			
5.0		Continued 2.4 TO 3.5 FT INTERVAL: SW-SM: well graded silty sand	BEA=0.0ppm FS=0.0ppm HS=0.0ppm	↑ BL6103 4.0 TO 5.7 FT BGS ↓		START: 1356 END: 1358 RUN: 4.0 FT RECOVERY: 3.5 FT
6.0		WET @ 5.7 SM: silty sand, fine sand fairly well sorted. 5Y 5/1 - gray with 5Y 4/1 staining zones (gray)	FS=0.0ppm HS= N/A			
7.0						
8.0		NO RECOVERY	B WTS 4-13-99 N/A			
9.0		VERY WET - SOUPY SAND RECOVERED - Pebble zone - coarse sand lense 8.4 TO 8.8 CONTINUED SM: silty-fine sand. 5Y 5/1 (gray) to 5Y 4/1 (gray) to 5Y 7/1 (light gray) near base of run.	BEA=0.0ppm FS=0.0ppm HS= N/A			RUN: 4.0 FT START: 1359 END: 1407 RECOVERY: 3.3 FT

PROJECT

EAST 21422, Bldg. 1327 CAB-28

HOLE NO

BL-6

HTRW DRILLING LOG						SHEET 3 OF 3
PROJECT LAST Q1722, Bkg. 1327 CAPB		INSPECTOR W. KEVIN JAGO				
ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	FIELD SCREENING RESULTS (D)	GEOCHEMICAL SAMPLE OR CORE BOX NO. (E)	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
		CONTINUED FROM ABOVE INTERVAL				
11.0						
12.0		END PROBE AT 12.0				HOLE CAVING IN - END PROBE at 12.0
13.0						AUGER ONLY: 12.0 TO 15.3 WKS 4-13-99
14.0						
15.0		T.D. = 15.3 WKS 4-13-99				
15.3		T.D. = 15.3 ← T.O. WKS 4-13-99				
<i>W. Kevin Jago</i> 4-13-99						

93

- 11.0

- 12.0

- 13.0

-14.0

TD=3
15.0
WKT
9.13.94

W. K. King
4-13-99

PROJECT

UST 21422, Bldg. 1327 B-29B

HOLE NO.

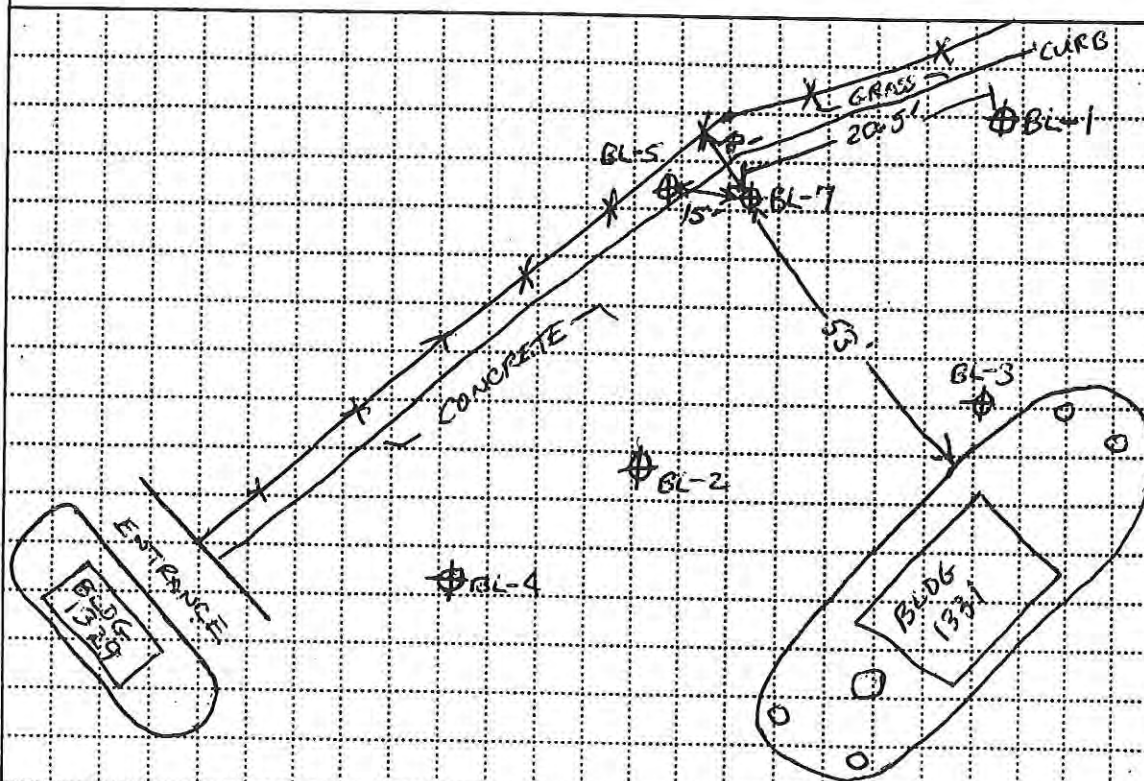
BL-67

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HTRW DRILLING LOG				DISTRICT SAVANNAH WACE				HOLE NUMBER BL-7	
1. COMPANY NAME SAIC				2. DRILL SUBCONTRACTOR SAIC - MIDDLETOWN				SHEET 1 OF 3 SHEETS	
3. PROJECT UST 21+22, BLDG. 1327 CAP B INVESTIGATION				4. LOCATION UST 21+22, Bldg. 108, NUNTER AAF					
5. NAME OF DRILLER JIM HEWITT				6. MANUFACTURERS DESIGNATION OF DRILL GEOPROBE MODEL 66 DT					
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		2.0-inch DIA, 4.0-FT LENGTH MACROCORE SAMPLER WITH 1 7/8-IN, 4.0-FT LENGTH ACETATE LINERS. EXPENDABLE CARBON STEEL DRIVE POINTS. 8.75-INCH OD, 4.25-INCH ID HOLLOW STEM AUGERS		8. HOLE LOCATION UST 21+22, Bldg. 1327		9. SURFACE ELEVATION TBD			
10. DATE STARTED		4-19-99		10. DATE STARTED		4-21-99		11. DATE COMPLETED 4-21-99	
12. OVERBURDEN THICKNESS N/A		13. DEPTH DRILLED INTO ROCK N/A		14. TOTAL DEPTH OF HOLE 150 FT BGS		15. DEPTH GROUNDWATER ENCOUNTERED 5.2 FT BGS		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)		18. GEOTECHNICAL SAMPLES BL7400		DISTURBED 1, (2.0 TO 4.0)		UNDISTURBED		19. TOTAL NUMBER OF CORE BOXES N/A	
20. SAMPLES FOR CHEMICAL ANALYSIS BL7101, BL7103		VOC		METALS		OTHER (SPECIFY) BTX		OTHER (SPECIFY) TPH (GRODRO) PAHs	
21. TOTAL CORE RECOVERY 93%		22. DISPOSITION OF HOLE WELL		BACKFILLED		MONITORING WELL MW-47		23. SIGNATURE OF INSPECTOR W. Hewitt	

LOCATION SKETCH/COMMENTS

SCALE:



PROJECT	HOLE NO.
UST 21x22 CAP B INVESTIGATION	13L-7
ENG FORM 5056-R, AUG 94	(Proponent: CECW-EG)

HTRW DRILLING LOG

PROJECT		INSPECTOR		SHEET		
UST 21 & 22, CAP B INVESTIGATION		C. W. Kewin, Jr.		2 OF 3		
LEVEL (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	FIELD SCREENING RESULTS (D)	GEOCHEM SAMPLE OR CORE BOX NO. (E)	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
		CONCRETE				RUN 1 START: 0949 STOP: 0951 RUN: 4.0 RECOVERY: 1.7 FT
		SP-SM: poorly graded silty sand, fine to medium grained, micaceous with SANDY CLAY STRINGER 1.4 TO 1.6 10YR 5/4 YELLOWISH BROWN ORGANIC MATTER. LESS SILT IN BOTTOM OF INTERVAL ~1% GRAVEL IN TOP OF INTERVAL MAY BE FILL.	BZA=0.0ppm HS=0.0ppm FS=0.0ppm		BL 7101 1.7 TO 2.0 FT	
				BL 7400 2.0 TO 2.4 FT		
		NO <				

PROJECT

UST 21 & 22, Bldg. 1327 CAP B INVESTIGATION

B-32

HOLE NO

BL-7

28

1.0

2.0

3.0

4.0

5.0

6.0

7.0

8.0

145-84-21-99

US 21722, Bldg. 13d7 CAP B

INSPECTOR

W. Keith Jones

SHEET

23 OF 3

29

(1A)

DEPT
(B)

DESCRIPTION OF MATERIALS

FIELD SCREENING
RESULTS
(D)

GEOTECH SAMPLE
OR CORE BOX NO.
(F)

ANALYTICAL
SAMPLE NO
153

REMARKS
(i)

HEAVY MINERALS PRESENT
10YR 8/1 (WHITE) TO 10YR
8/2 (VERY PALE BROWN).

11.0-

- 140

170

NOLE COLLAPSED TO 5 FT
END PROBING AT
12.0 FT BGS

-12.0

13.0

NO

- 13.0

14.0

RECOVERY

14,0

15.0

-15.0

~~W. Henderson
07-21-99~~

PROJECT

UST 21422, Bldg. 1327 CR-33 INVESTIGATION

HOLE NO.

BL-7

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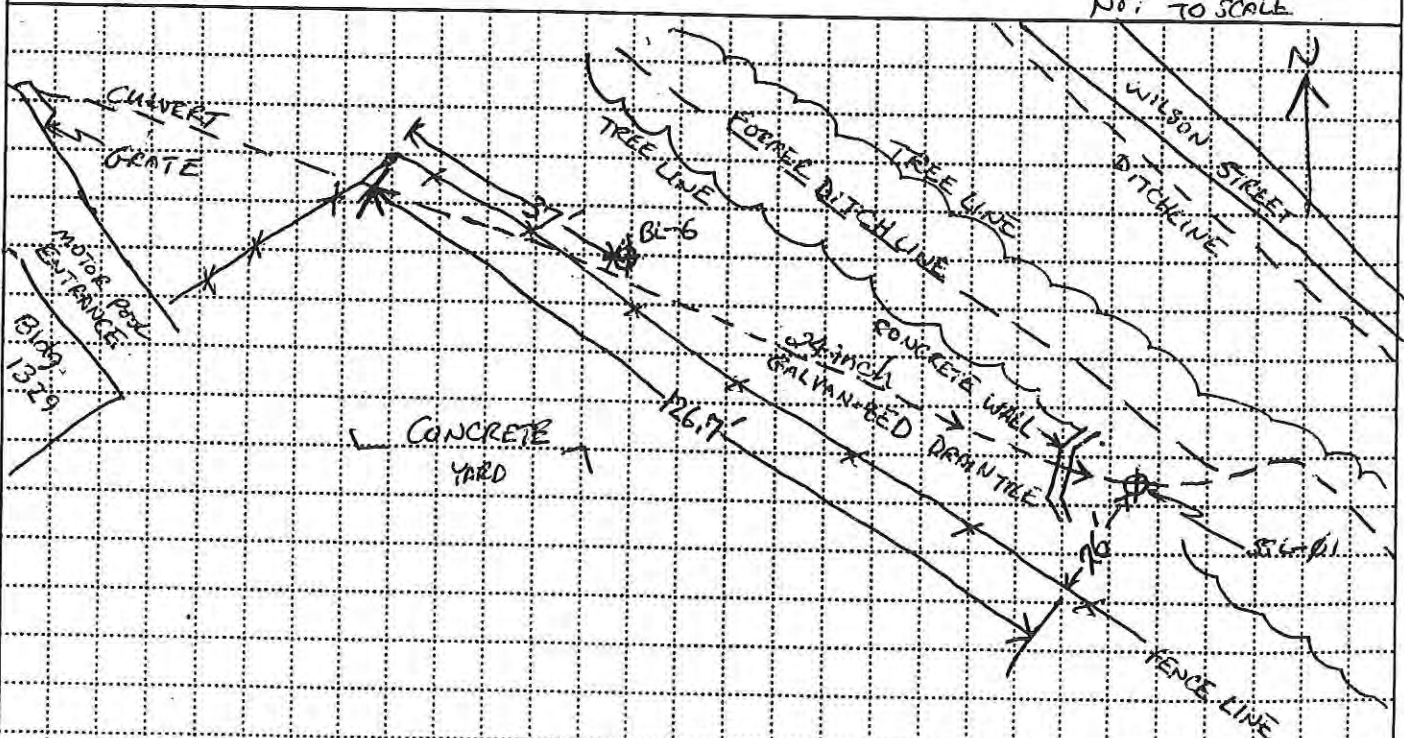
101

HTRW DRILLING LOG		DISTRICT SAVANNAH USACE		HOLE NUMBER SSL-01	
1. COMPANY NAME SACC		2. DRILL SUBCONTRACTOR N/A		SHEET 1 OF 1	
3. PROJECT UST 21+22, Bldg. 1327 CAP B			4. LOCATION HUNTER AAF		
5. NAME OF DRILLER N/A			6. MANUFACTURER'S DESIGNATION OF DRILL N/A		
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT SEDIMENT = Hand trowel, encore sampler			8. HOLE LOCATION Bldg. 1327, USTs 21+22		
			9. SURFACE ELEVATION TBD		
			10. DATE STARTED 04-18-99		
			11. DATE COMPLETED 04-18-99		
12. OVERBURDEN THICKNESS N/A			15. DEPTH GROUNDWATER ENCOUNTERED N/A		
13. DEPTH DRILLED INTO ROCK N/A			16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED N/A		
14. TOTAL DEPTH OF HOLE N/A			17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) N/A		
18. GEOTECHNICAL SAMPLES N/A		DISTURBED		UNDISTURBED	
20. SAMPLES FOR CHEMICAL ANALYSIS N/A		VOC		METALS	
22. DISPOSITION OF HOLE N/A		BACKFILLED		MONITORING WELL	
				19. TOTAL NUMBER OF CORE BOXES N/A	
				21. TOTAL CORE RECOVERY % N/A	
				23. SIGNATURE OF INSPECTOR N/A	

LOCATION SKETCH/COMMENTS

SCALE:

NOT TO SCALE



PROJECT UST 21+22, Bldg. 1327 CAP B Investigation		HOLE NO. SSL-01
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103

HTRW DRILLING LOG			DISTRICT		HOLE NUMBER	
1. COMPANY NAME SAIC			2. DRILL SUBCONTRACTOR N/A		3. HOLE NUMBER SSL-02	
4. PROJECT UST 21+22, CAP B INVESTIGATION			5. LOCATION HUNTER AAF		6. SHEET SHEETS 1 OF 1	
7. NAME OF DRILLER N/A			8. MANUFACTURERS DESIGNATION OF DRILL N/A			
9. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT SEDIMENT - HAND TROWEL, ENDURE SAMPLER			10. HOLE LOCATION Bldg. 1327, USTs 21+22			
11. SURFACE ELEVATION TBD			12. DATE STARTED 04-18-99			
13. DATE COMPLETED 04-18-99			14. DEPTH GROUNDWATER ENCOUNTERED N/A			
15. DEPTH DRILLED INTO ROCK N/A			16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED N/A			
17. TOTAL DEPTH OF HOLE N/A			18. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) N/A			
19. GEOTECHNICAL SAMPLES N/A			20. DISTURBED		21. UNDISTURBED	
22. SAMPLES FOR CHEMICAL ANALYSIS BL2500, BL2600 (WATER)			23. VOC		24. METALS	
25. OTHER (SPECIFY) OTHER (SPECIFY) SERVICED ONLY			26. OTHER (SPECIFY) OTHER (SPECIFY)		27. OTHER (SPECIFY) OTHER (SPECIFY)	
28. DISPOSITION OF HOLE N/A			29. BACKFILLED		30. MONITORING WELL	
31. SIGNATURE OF INSPECTOR W. Vetter 9/95			32. TOTAL CORE RECOVERY % N/A			
LOCATION SKETCH/COMMENTS						
PROJECT UST 21+22 Bldg. 1327 CAP B INVESTIGATION			HOLE NO. SSL-02			

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APPENDIX C

WELL CONSTRUCTION DIAGRAMS

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MONITORING WELL

PROJECT: HAAF CAP-B's

DELIVERY ORDER NO: 0038

WELL NUMBER: MW-L1

BEGIN: 4-19-99

END: 4-20-99

COORDINATES: N: 734998.88251

E: 979371.18285

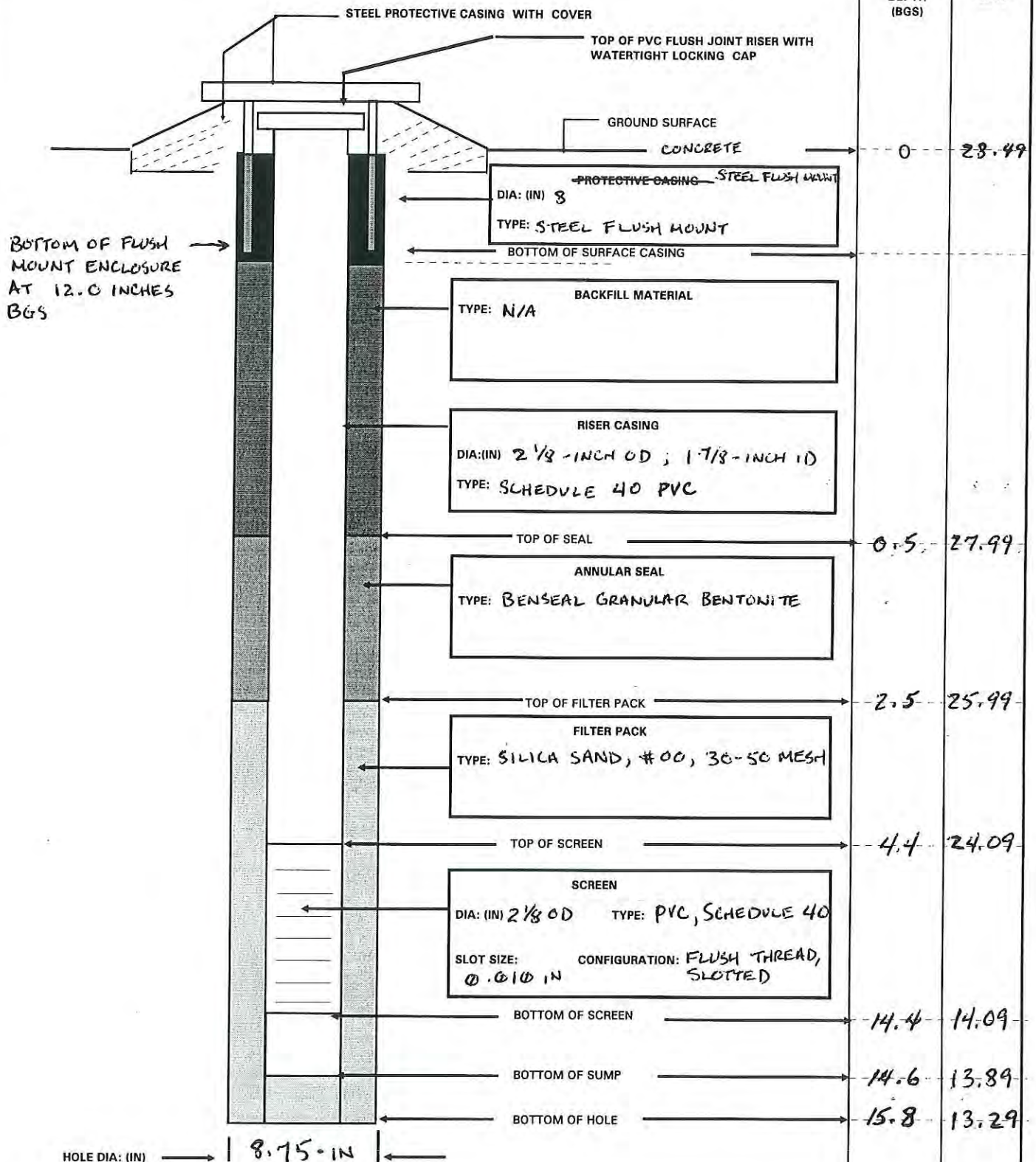
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ELEVATION: 28.18

DATUM/UNITS: VERTICAL DATUM 1983

DATUM/UNITS: North America Datum 1983

FEET



MONITORING WELL

PROJECT: HAAF CAP-B's

DELIVERY ORDER NO: 0038

WELL NUMBER: MW-L2

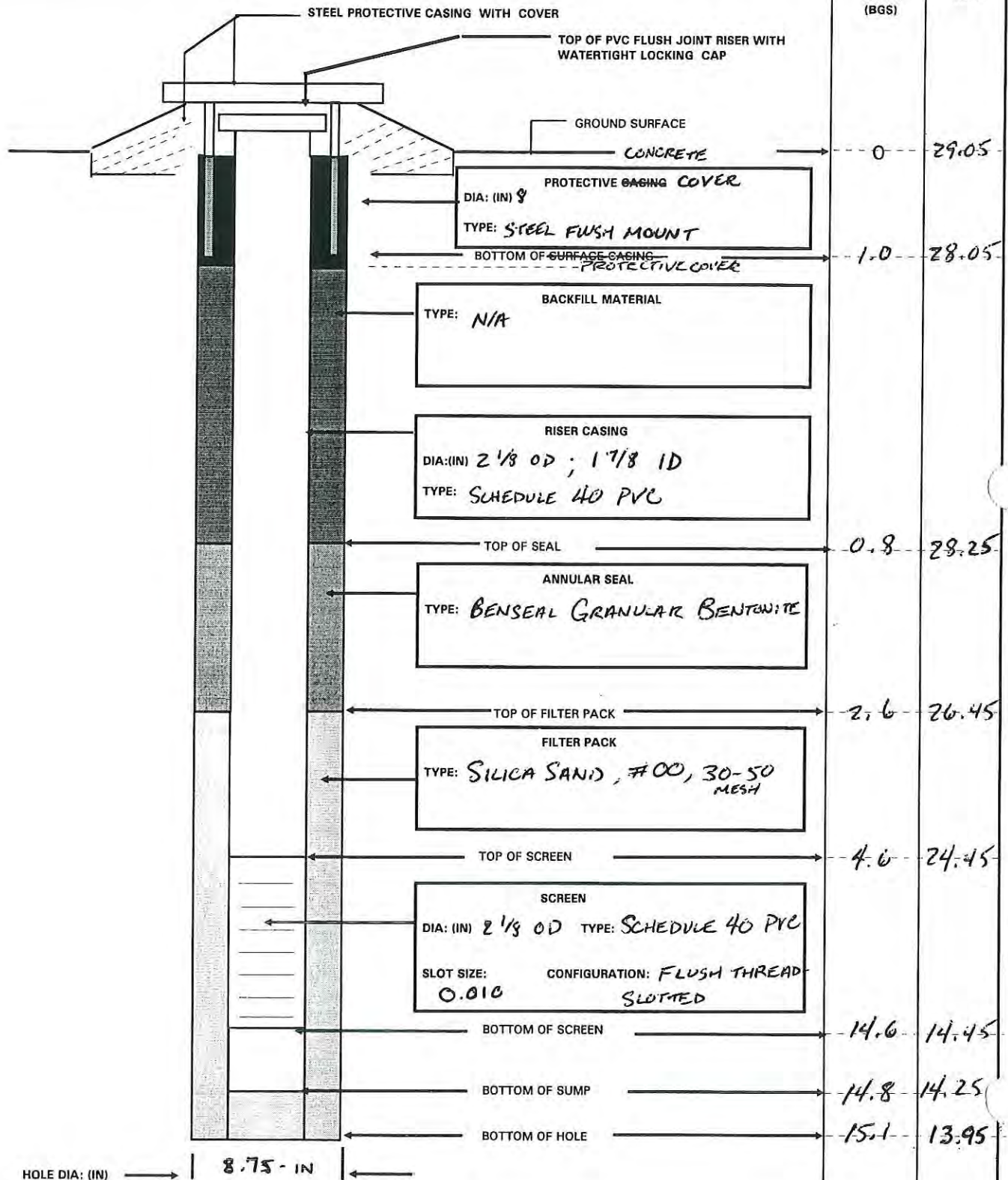
BEGIN: 4-19-99

END: 4-19-99

COORDINATES: N: 734970.41312
E: 479342.30439

DATUM/UNITS: North America Datum 1983

REFERENCE POINT: TOP OF CASING
ELEVATION: 28.70
DATUM/UNITS: VERTICAL DATUM 1983/ FEET



MONITORING WELL

PROJECT: HAAF CAP-B's

DELIVERY ORDER NO: 0038

WELL NUMBER: MW-L3

BEGIN: 4-19-99

END: 4-19-99

COORDINATES: N: 734957.97301

E: 979369.11130

DATUM/UNITS: NORTH AMERICA DATUM 1983

REFERENCE POINT:

TOP OF CASING

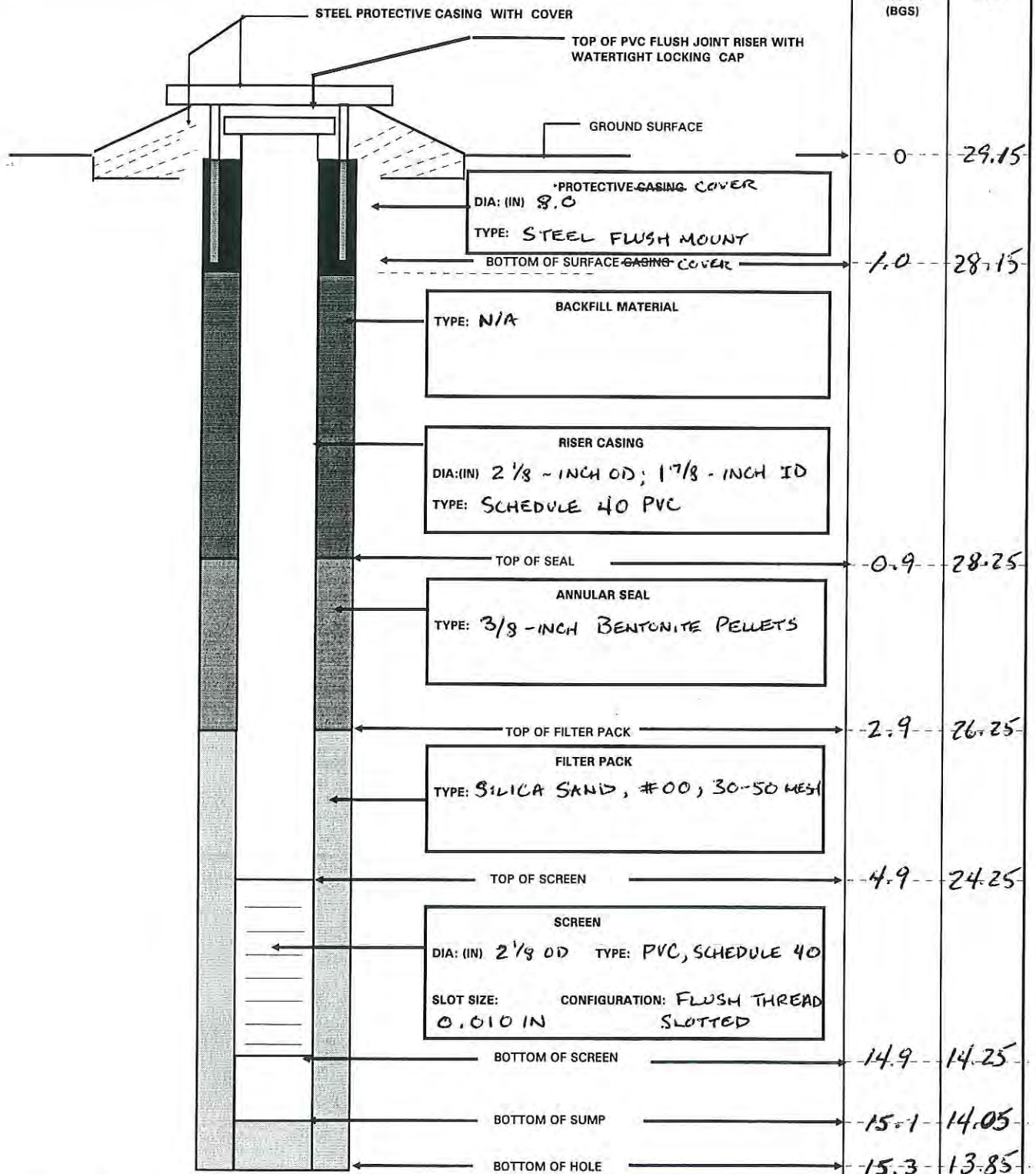
ELEVATION:

28.85

DATUM/UNITS:

VERTICAL DATUM 1983

FEET



HOLE DIA: (IN)

8.75-IN

MONITORING WELL

PROJECT: HAAF CAP-B's

DELIVERY ORDER NO: 0038

WELL NUMBER: MW-L4

BEGIN: 4-19-99

END: 4-19-99

COORDINATES: N: 734968.54848

E: 979310.54958

REFERENCE POINT:

ELEVATION:

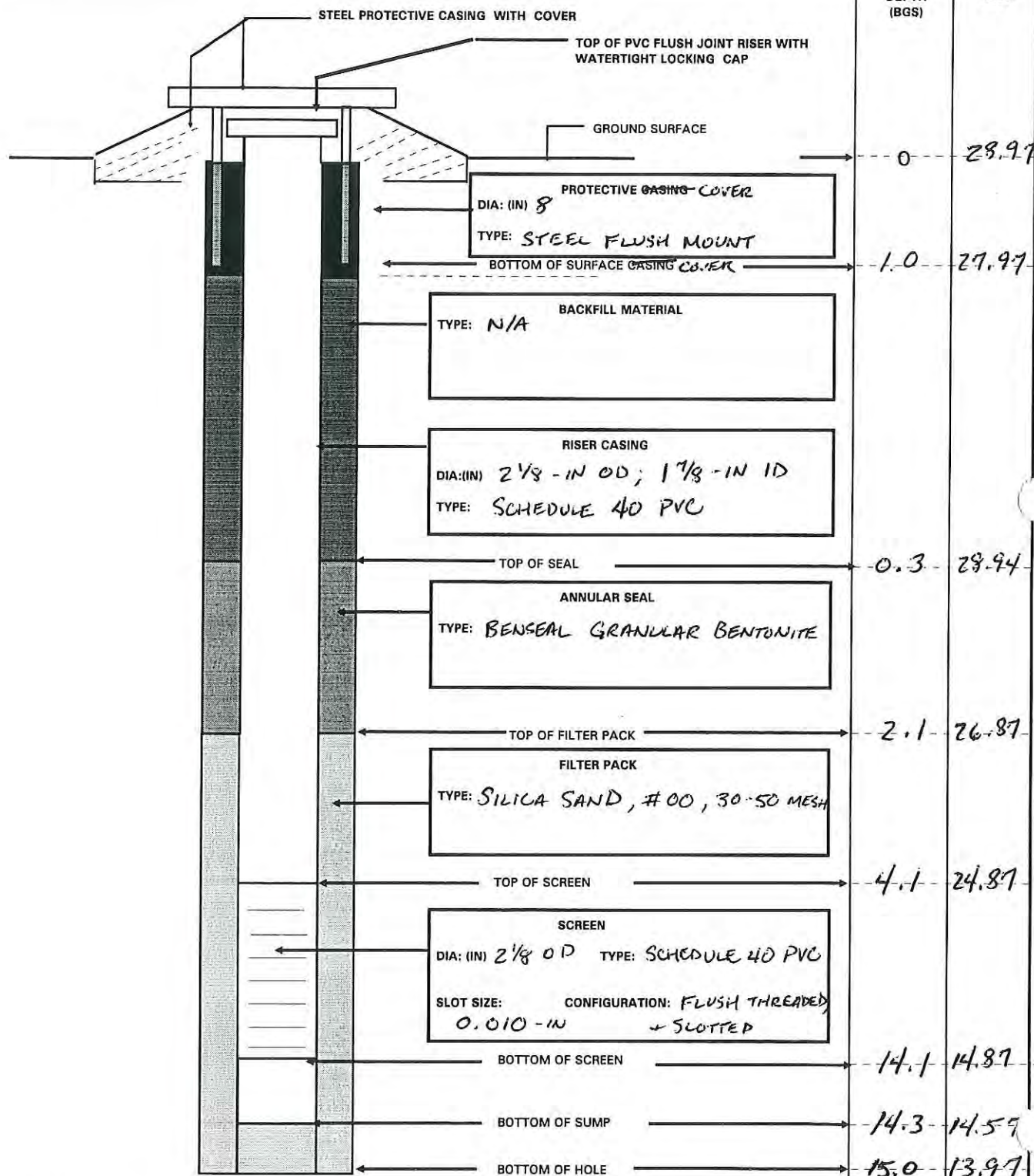
DATUM/UNITS:

DATUM/UNITS: NORTH AMERICA DATUM 1983

TOP OF CASING

28.73

VERTICAL DATUM 1988
FEET



HOLE DIA: (IN) 8.75 - IN

MONITORING WELL

PROJECT: HAAF CAP-B's

DELIVERY ORDER NO: 0038

WELL NUMBER: MW-L5

BEGIN: 4-19-99

END: 4-19-99

COORDINATES: N: 735009.60124

E: 974334.32974

REFERENCE POINT:

ELEVATION:

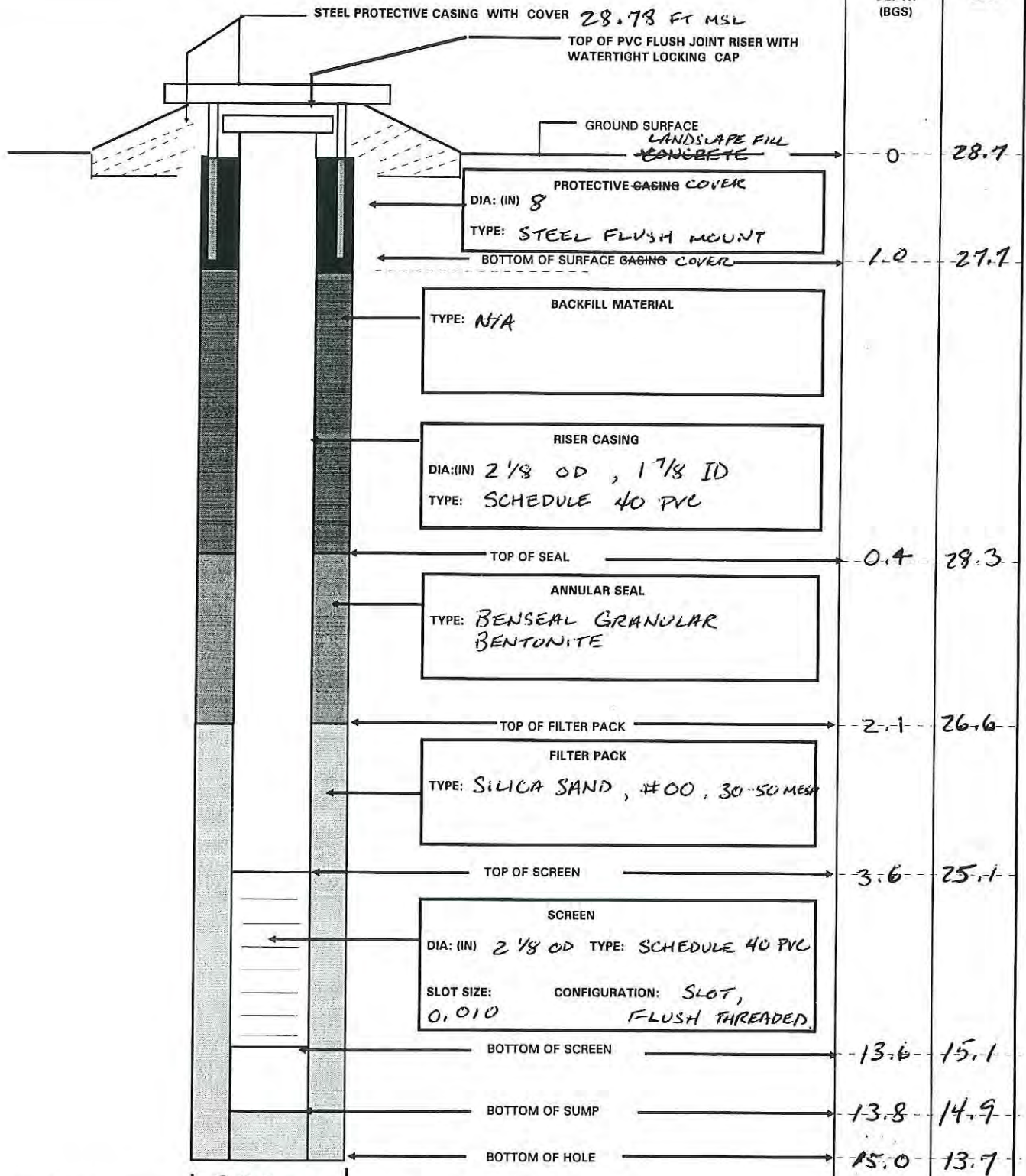
DATUM/UNITS:

DATUM/UNITS: NORTH AMERICA DATUM 1983

TOP OF CASING

28.55

VERTICAL DATUM 1988
FEET



MONITORING WELL

PROJECT: HAAF CAP-B's

DELIVERY ORDER NO: 0038

WELL NUMBER: MW-L6

BEGIN: 4-13-99

END: 4-14-99

COORDINATES: N: 735024.15610

E: 979395.32234

REFERENCE POINT:

ELEVATION:

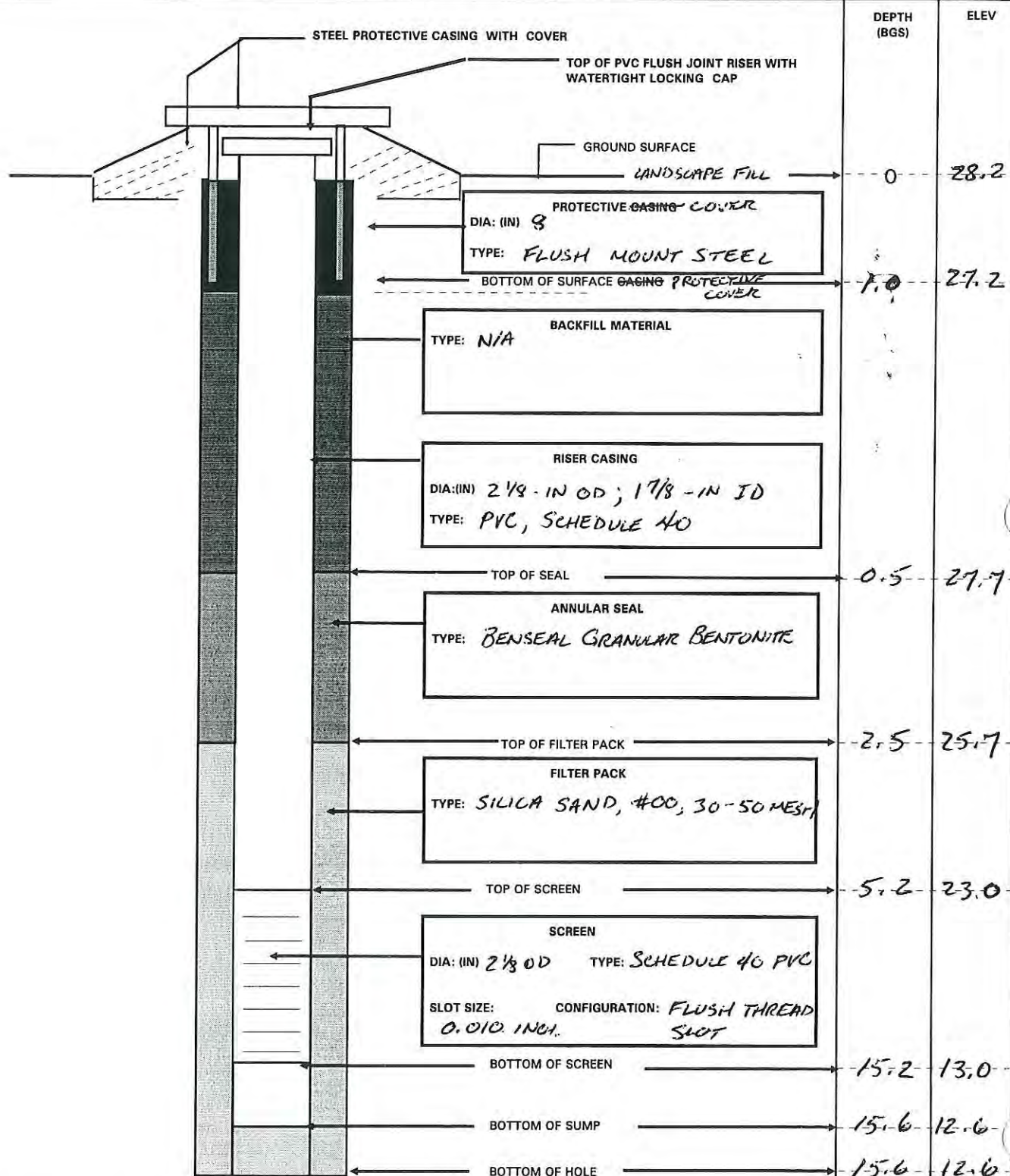
DATUM/UNITS:

DATUM/UNITS: NORTH AMERICA DATUM 1983

TOP OF CASING

27.98

VERTICAL DATUM 1988
FEET



HOLE DIA: (IN)

8.75 - INCHES

MONITORING WELL

PROJECT: HAAF CAP-B's

DELIVERY ORDER NO: 0038

WELL NUMBER: MW-L7

BEGIN: 4-21-99

END: 4-21-99

COORDINATES: N: 735004.28184
E: 979350.91778

REFERENCE POINT:

ELEVATION:

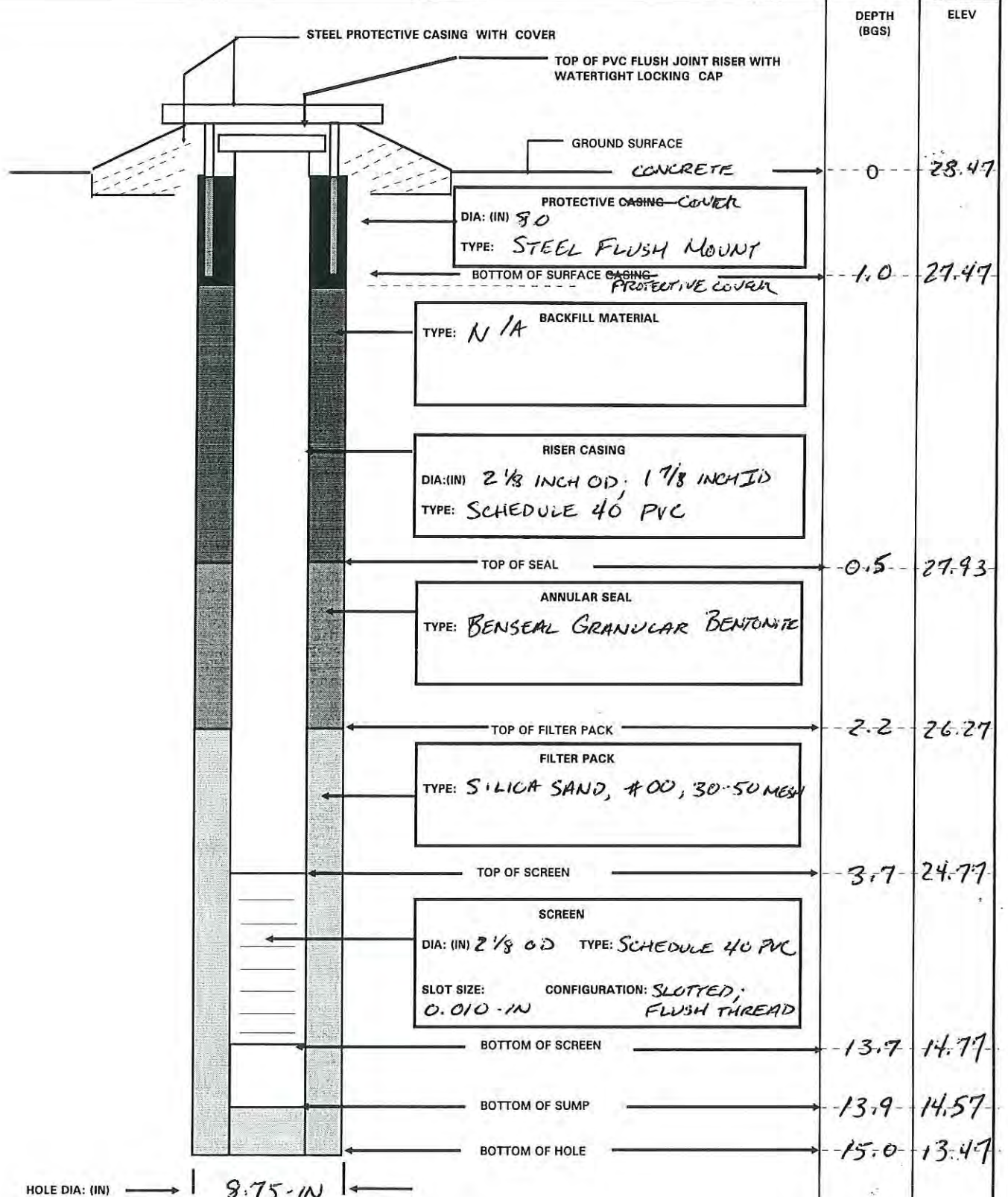
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TOP OF CASING

28.18

VERTICAL DATUM 1988
FEET



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APPENDIX D

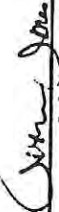
SOIL GEOTECHNICAL DATA

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**SUMMARY TABLE C. RESULTS FOR HAAF CAP B
UST 108 AND 21/22**

SAMPLE NO.	MOISTURE CONTENT (%)	ATTERBERG LIMITS FINES CLASSIFICATION				SIEVE ANALYSIS (% PASSING)													SPECIFIC GRAVITY	PERMEABILITY k (cm/sec)	SAMPLE NO.
		LL	PL	PI		3"	2"	1 1/2"	3/4"	3/8"	#4	#10	#20	#40	#60	#140	#200	BULK DENSITY (pcf)			
BD1400	7.7	NONPLASTIC				100	100	100	100	100	90.9	85.6	75	59.0	46.4	23.3	18.2	104.47			
BD2400	17.5	21	20.7	0.33	ML	100	100	100	100	100	99.7	99.6	99.3	98.5	96.7	45.4	37.0				
BD3400	24.9	26.2	25.9	0.33	ML	100	100	100	100	100	100	100	99.6	98.4	93.8	35.8	26.6				
BD4400	23.7	27	14.8	12.2	CL	100	100	100	100	100	100	100	99.7	99.2	98.1	42.7	31.2				
BL1400	8.2	NONPLASTIC				100	100	100	100	100	97.9	95.5	84.3	61.3	42.6	11.3	8.0				
BL2400	9.0	NONPLASTIC				100	100	100	100	100	99.3	95.4	79.3	50.4	28.6	8.7	8.1				
BL3400	4.5	NONPLASTIC				100	100	100	100	100	99.3	94.7	80.7	49.5	22.0	4.0	2.8				
BL4400	12.3	NONPLASTIC				100	100	100	100	100	100	99.9	99.3	97.0	85.4	12.4	8.2				
BL5400	11.6	NONPLASTIC				100	100	100	100	100	99.3	98.2	93.2	83.4	73.3	13.5	4.5				
BL6400	10.7	NONPLASTIC				100	100	100	100	100	93.8	88.1	84.4	81.6	77.6	24.7	18.9				
BL7400	14.5	NONPLASTIC				100	100	100	100	100	99.9	99.5	96.7	91.0	83.4	18.0	7.4				
D-3	SAMPLE NO. BD4400	SPECIFIC GRAVITY				POROSITY		BULK DENSITY (pcf)													
		2.63				0.36		104.47													

NOTE: Sample numbers with the prefix BL are for the UST 21 and 22 site.
Sample numbers with the prefix BD are for the UST 108 site.


John Jones, P.E.
Laboratory Manager

GRAIN SIZE ANALYSIS-SIEVE (ASTM D422)

Project: SAIC	Job No.: 99063Y
Project Location: UST 21/22 BL1	Sample No.: BL1400
Sample Description: Light Gray Sand	Sample Depth: 0.6-2'
	Boring No.:
Tested By: FB/AJ	Date of Testing: 5/10/99

Mcws	Mcds	Mc : A41	Mw	Ms	w%	Mws	Ms
21.69	21.67	15.39	0.02	6.28	0.3	200.03	199.39

Sieve No.	Diam. (mm)	Wt. retained	% retained	E % retained	% passing
3	76.2	0	0.00	0.00	100.00
2	50.8	0	0.00	0.00	100.00
1 1/2	25.4	0	0.00	0.00	100.00
3/4	19.05	0	0.00	0.00	100.00
3/8	9.51	0	0.00	0.00	100.00
4	4.76	4.24	2.13	2.13	97.87
10	2.00	4.8	2.41	4.53	95.47
20	0.841	22.3	11.18	15.72	84.28
40	0.42	45.79	22.96	38.68	61.32
60	0.25	37.27	18.69	57.37	42.63
140	0.106	62.48	31.33	88.71	11.29
200	0.074	6.61	3.32	92.02	7.98
pan	---	0.15	0.08	92.10	7.90
total		183.64			

GRAIN SIZE ANALYSIS-SIEVE (ASTM D422)

Project: SAIC	Job No.:99063Y
Project Location: UST 21/22 BL2	Sample No.: BL2400
Sample Description: Light Gray Sand	Sample Depth: 2.0-4.0'
	Boring No.:
Tested By: CA/FB	Date of Testing: 5/10/99

Mcws	Mcds	Mc : A38	Mw	Ms	w%	Mws	Ms
15.23	15.22	10.90	0.01	4.32	0.2	150.30	149.95

Sieve No.	Diam. (mm)	Wt. retained	% retained	E % retained	% passing
3	76.2	0	0.00	0.00	100.00
2	50.8	0	0.00	0.00	100.00
1 1/2	25.4	0	0.00	0.00	100.00
3/4	19.05	0	0.00	0.00	100.00
3/8	9.51	0	0.00	0.00	100.00
4	4.76	1.05	0.70	0.70	99.30
10	2.00	5.85	3.90	4.60	95.40
20	0.841	24.19	16.13	20.73	79.27
40	0.42	43.29	28.87	49.60	50.40
60	0.25	32.75	21.84	71.44	28.56
140	0.106	29.79	19.87	91.31	8.69
200	0.074	0.91	0.61	91.92	8.08
pan	—	0.03	0.02	91.94	8.06
total		137.86			

GRAIN SIZE ANALYSIS-SIEVE (ASTM D422)

Project: SAIC	Job No.: 99063Y
Project Location: UST 21/22 BL3	Sample No.: BL3400
Sample Description: Light Brown Sand	Sample Depth: 2.0-2.4'
	Boring No.:
Tested By: AJ/FB	Date of Testing: 5/10/99

Mcws	Mcds	Mc : A1	Mw	Ms	w%	Mws	Ms
20.09	20.08	15.32	0.01	4.76	0.2	175.07	174.70

Sieve No.	Diam. (mm)	Wt. retained	% retained	E % retained	% passing
3	76.2	0	0.00	0.00	100.00
2	50.8	0	0.00	0.00	100.00
1 1/2	25.4	0	0.00	0.00	100.00
3/4	19.05	0	0.00	0.00	100.00
3/8	9.51	0	0.00	0.00	100.00
4	4.76	1.22	0.70	0.70	99.30
10	2.00	8.02	4.59	5.29	94.71
20	0.841	24.5	14.02	19.31	80.69
40	0.42	54.51	31.20	50.51	49.49
60	0.25	47.98	27.46	77.98	22.02
140	0.106	31.48	18.02	96.00	4.00
200	0.074	2.12	1.21	97.21	2.79
pan	---	0.19	0.11	97.32	2.68
total		170.02			

GRAIN SIZE ANALYSIS-SIEVE (ASTM D422)

Project: SAIC	Job No.: 99063Y
Project Location: UST21/22 BL7	Sample No.: BL4400
Sample Description: Black Silty Sand.	Sample Depth: 3.4-4.0'
	Boring No.:
Tested By: CA/FB	Date of Testing: 5/7/99

Mcws	Mcds	Mc : A53	Mw	Ms	w%	Mws	Ms
17.07	17.05	11.31	0.02	5.74	0.3	200.18	199.48

Sieve No.	Diam. (mm)	Wt. retained	% retained	E % retained	% passing
3	76.2	0	0.00	0.00	100.00
2	50.8	0	0.00	0.00	100.00
1 1/2	25.4	0	0.00	0.00	100.00
3/4	19.05	0	0.00	0.00	100.00
3/8	9.51	0	0.00	0.00	100.00
4	4.76	0	0.00	0.00	100.00
10	2.00	0.3	0.15	0.15	99.85
20	0.841	1.2	0.60	0.75	99.25
40	0.42	4.51	2.26	3.01	96.99
60	0.25	23.19	11.62	14.64	85.36
140	0.106	145.57	72.97	87.61	12.39
200	0.074	8.31	4.17	91.78	8.22
pan	---	0.33	0.17	91.94	8.06
total		183.41			

GRAIN SIZE ANALYSIS-SIEVE (ASTM D422)

Project: SAIC	Job No.: 99063 Y
Project Location: Cap Part B, UST's	Sample No.: BL5400
Sample Description: Lt. Brown Gray Silty Sand	Sample Depth: 2.0-2.5'
	Boring No.:
Tested By: AJ/FB	Date of Testing: 5/10/99

Mcws	Mcds	Mc : A56	Mw	Ms	w%	Mws	Ms
19.70	19.68	14.94	0.02	4.74	0.4	200.87	200.03

Sieve No.	Diam. (mm)	Wt. retained	% retained	E % retained	% passing
3	76.2	0	0.00	0.00	100.00
2	50.8	0	0.00	0.00	100.00
1 1/2	25.4	0	0.00	0.00	100.00
3/4	19.05	0	0.00	0.00	100.00
3/8	9.51	0	0.00	0.00	100.00
4	4.76	1.48	0.74	0.74	99.26
10	2.00	2.23	1.11	1.85	98.15
20	0.841	9.98	4.99	6.84	93.16
40	0.42	19.43	9.71	16.56	83.44
60	0.25	20.24	10.12	26.68	73.32
140	0.106	119.7	59.84	86.52	13.48
200	0.074	18.05	9.02	95.54	4.46
pan	---	0.91	0.45	96.00	4.00
total		192.02			

GRAIN SIZE ANALYSIS-SIEVE (ASTM D422)

Project: SAIC	Job No.: 99063Y
Project Location: UST 21/22 BL6	Sample No.: BL6400
Sample Description: Black Gray Silty Sand With Organics	Sample Depth: 0.0-2.0'
	Boring No.:
Tested By: FB/AJ	Date of Testing: 5/10/99

Mcws	Mcds	Mc : A40	Mw	Ms	w%	Mws	Ms
18.75	18.73	15.00	0.02	3.73	0.5	200.00	198.93

Sieve No.	Diam. (mm)	Wt. retained	% retained	E % retained	% passing
3	76.2	0	0.00	0.00	100.00
2	50.8	0	0.00	0.00	100.00
1 1/2	25.4	0	0.00	0.00	100.00
3/4	19.05	0	0.00	0.00	100.00
3/8	9.51	10.08	5.07	0.00	100.00
4	4.76	12.34	6.20	6.20	93.80
10	2.00	11.3	5.68	11.88	88.12
20	0.841	7.31	3.67	15.56	84.44
40	0.42	5.64	2.84	18.39	81.61
60	0.25	8.01	4.03	22.42	77.58
140	0.106	105.22	52.89	75.31	24.69
200	0.074	11.48	5.77	81.08	18.92
pan	---	0.44	0.22	81.30	18.70
total		161.74			

GRAIN SIZE ANALYSIS-SIEVE (ASTM D422)

Project: SAIC	Job No.: 99063Y
Project Location: UST 21/22 BL7	Sample No.: BL7400
Sample Description: Light Gray Silty Sand	Sample Depth: 2.0-2.4'
Tested By: AJ/FB	Boring No.:
	Date of Testing: 5/10/99

Mcws	Mcds	Mc : A53	Mw	Ms	w%	Mws	Ms
19.34	19.33	14.93	0.01	4.40	0.2	100.20	99.97

Sieve No.	Diam. (mm)	Wt. retained	% retained	E % retained	% passing
3	76.2	0	0.00	0.00	100.00
2	50.8	0	0.00	0.00	100.00
1 1/2	25.4	0	0.00	0.00	100.00
3/4	19.05	0	0.00	0.00	100.00
3/8	9.51	0	0.00	0.00	100.00
4	4.76	0.13	0.13	0.13	99.87
10	2.00	0.34	0.34	0.47	99.53
20	0.841	2.83	2.83	3.30	96.70
40	0.42	5.68	5.68	8.98	91.02
60	0.25	7.58	7.58	16.56	83.44
140	0.106	65.47	65.49	82.05	17.95
200	0.074	10.53	10.53	92.59	7.41
pan	---	0.28	0.28	92.87	7.13
total		92.84			

CHAIN OF CUSTODY RECORD

COC NO.: HAAF04239903

[illegible]

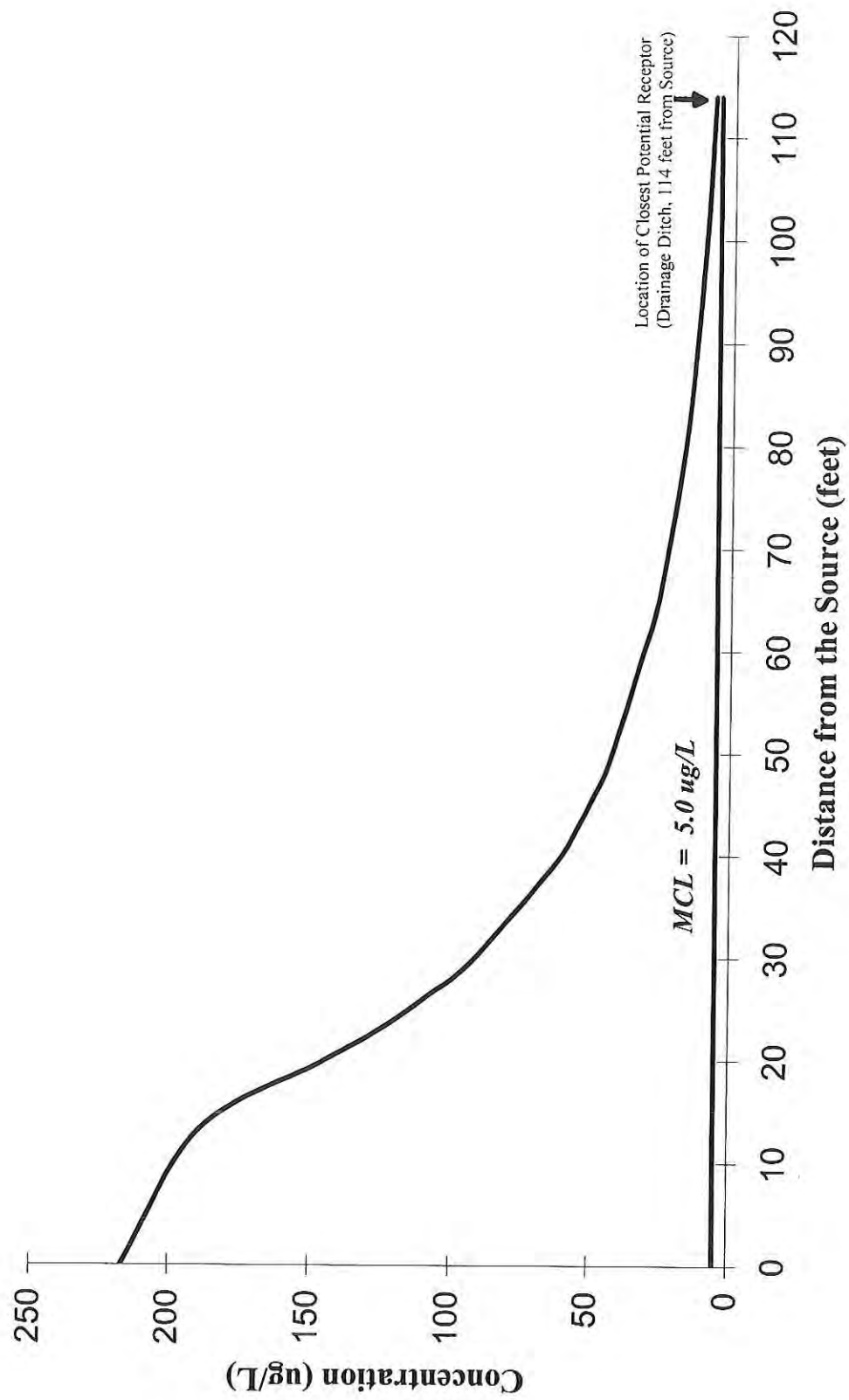
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APPENDIX E

GROUNDWATER TRANSPORT MODELING DATA

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**AT123D Modeled Maximum Concentration of Benzene in the Groundwater Versus
Downgradient Distance from the Source (USTs 21& 22)**



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**AT123D FATE AND TRANSPORT MODEL INPUT PARAMETERS AND OUTPUT VALUES FOR
BENZENE AT THE USTs 21 & 22, BUILDING 1327 SITE**

MODEL INPUT PARAMETERS

NO. OF POINTS IN X-DIRECTION 15
 NO. OF POINTS IN Y-DIRECTION 5
 NO. OF POINTS IN Z-DIRECTION 1
 NO. OF ROOTS: NO. OF SERIES TERMS 400
 NO. OF BEGINNING TIME STEP 60
 NO. OF ENDING TIME STEP 1188
 NO. OF TIME INTERVALS FOR PRINTED OUT SOLUTION 60
 INSTANTANEOUS SOURCE CONTROL = 0 FOR INSTANT SOURCE 1
 SOURCE CONDITION CONTROL = 0 FOR STEADY SOURCE 0
 INTERMITTENT OUTPUT CONTROL = 0 NO SUCH OUTPUT 1
 CASE CONTROL = 1 THERMAL, = 2 FOR CHEMICAL, = 3 RAD 2

AQUIFER DEPTH, = 0.0 FOR INFINITE DEEP (METERS) ... 0.1524E+02
 AQUIFER WIDTH, = 0.0 FOR INFINITE WIDE (METERS) ... 0.0000E+00
 BEGIN POINT OF X-SOURCE LOCATION (METERS) -0.3660E+01
 END POINT OF X-SOURCE LOCATION (METERS) 0.3660E+01
 BEGIN POINT OF Y-SOURCE LOCATION (METERS) -0.2438E+01
 END POINT OF Y-SOURCE LOCATION (METERS) 0.2438E+01
 BEGIN POINT OF Z-SOURCE LOCATION (METERS) 0.0000E+00
 END POINT OF Z-SOURCE LOCATION (METERS) 0.2000E+01

POROSITY 0.2000E+00
 HYDRAULIC CONDUCTIVITY (METER/HOUR) 0.3960E-01
 HYDRAULIC GRADIENT 0.1560E-01
 LONGITUDINAL DISPERSIVITY (METER) 0.8000E+01
 LATERAL DISPERSIVITY (METER) 0.3000E+01
 VERTICAL DISPERSIVITY (METER) 0.1000E+01
 DISTRIBUTION COEFFICIENT, KD (M**3/KG) 0.5751E-03
 HEAT EXCHANGE COEFFICIENT (KCAL/HR-M**2-DEGREE C).. 0.0000E+00

MOLECULAR DIFFUSION MULTIPLY BY POROSITY (M**2/HR) 0.3530E-05
 DECAY CONSTANT (PER HOUR) 0.4010E-04
 BULK DENSITY OF THE SOIL (KG/M**3) 0.1602E+04
 ACCURACY TOLERANCE FOR REACHING STEADY STATE 0.1000E-02
 DENSITY OF WATER (KG/M**3) 0.1000E+04
 TIME INTERVAL SIZE FOR THE DESIRED SOLUTION (HR) .. 0.7300E+03
 DISCHARGE TIME (HR) 0.8672E+06
 WASTE RELEASE RATE (KCAL/HR), (KG/HR), OR (CI/HR) . 0.1000E-04

RETARDATION FACTOR 0.5607E+01
 RETARDED DARCY VELOCITY (M/HR) 0.5509E-03
 RETARDED LONGITUDINAL DISPERSION COEF. (M**2/HR) .. 0.4411E-02
 RETARDED LATERAL DISPERSION COEFFICIENT (M**2/HR) . 0.1656E-02
 RETARDED VERTICAL DISPERSION COEFFICIENT (M**2/HR). 0.5541E-03

DISTRIBUTION OF DISSOLVED CHEMICALS IN PPM AT 0.0000E+00 HRS
(ADSORBED CHEMICAL CONC. = 0.5751E+00 * DISSOLVED CHEMICAL CONC.)

Z = 0.00

Y	0.	4.	X 6.	7.	8.	9.	12.	13.	14.	15.
20.	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
15.	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
10.	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
5.	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

CONTINUE

Y	18.	20.	X 25.	30.	35.
20.	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
15.	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
10.	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
5.	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

DISTRIBUTION OF DISSOLVED CHEMICALS IN PPM AT 0.4307E+05 HRS
(ADSORBED CHEMICAL CONC. = 0.5751E+00 * DISSOLVED CHEMICAL CONC.)

Z = 0.00

Y	0.	4.	X 6.	7.	8.	9.	12.	13.	14.	15.
20.	0.905E-03	0.111E-02	0.119E-02	0.123E-02	0.126E-02	0.128E-02	0.133E-02	0.133E-02	0.133E-02	0.132 E-02
15.	0.345E-02	0.416E-02	0.440E-02	0.448E-02	0.454E-02	0.457E-02	0.452E-02	0.446E-02	0.438E-02	0.428E-02
10.	0.138E-01	0.161E-01	0.163E-01	0.163E-01	0.161E-01	0.157E-01	0.143E-01	0.137E-01	0.131E-01	0.125E-01
5.	0.683E-01	0.699E-01	0.630E-01	0.588E-01	0.544E-01	0.501E-01	0.385E-01	0.351E-01	0.321E-01	0.292E-01
0.	0.217E+00	0.189E+00	0.145E+00	0.124E+00	0.106E+00	0.915E-01	0.604E-01	0.532E-01	0.470E-01	0.417E-01

CONTINUE

Y	18.	20.	X 25.	30.	35.
20.	0.126E-02	0.121E-02	0.102E-02	0.797E-03	0.594E-03
15.	0.391E-02	0.362E-02	0.282E-02	0.206E-02	0.146E-02
10.	0.105E-01	0.926E-02	0.650E-02	0.438E-02	0.291E-02
5.	0.221E-01	0.184E-01	0.115E-01	0.719E-02	0.454E-02
0.	0.297E-01	0.239E-01	0.142E-01	0.858E-02	0.529E-02

DISTRIBUTION OF DISSOLVED CHEMICALS IN PPM AT 0.8687E+05 HRS
(ADSORBED CHEMICAL CONC. = 0.5751E+00 * DISSOLVED CHEMICAL CONC.)

Z = 0.00

	X									
Y	0.	4.	6.	7.	8.	9.	12.	13.	14.	15.
20.	0.112E-02	0.138E-02	0.150E-02	0.155E-02	0.159E-02	0.163E-02	0.172E-02	0.174E-02	0.175E-02	0.175E-02
15.	0.380E-02	0.461E-02	0.489E-02	0.500E-02	0.508E-02	0.513E-02	0.516E-02	0.512E-02	0.506E-02	0.499E-02
10.	0.143E-01	0.167E-01	0.170E-01	0.170E-01	0.168E-01	0.166E-01	0.152E-01	0.147E-01	0.141E-01	0.135E-01
5.	0.689E-01	0.707E-01	0.639E-01	0.597E-01	0.554E-01	0.511E-01	0.396E-01	0.363E-01	0.333E-01	0.305E-01
0.	0.217E+00	0.189E+00	0.146E+00	0.125E+00	0.107E+00	0.926E-01	0.616E-01	0.544E-01	0.483E-01	0.431E-01

CONTINUE

	X				
Y	18.	20.	25.	30.	35.
20.	0.174E-02	0.170E-02	0.156E-02	0.135E-02	0.114E-02
15.	0.468E-02	0.442E-02	0.369E-02	0.295E-02	0.233E-02
10.	0.116E-01	0.104E-01	0.772E-02	0.563E-02	0.413E-02
5.	0.235E-01	0.198E-01	0.130E-01	0.873E-02	0.604E-02
0.	0.311E-01	0.254E-01	0.158E-01	0.102E-01	0.690E-02

DISTRIBUTION OF DISSOLVED CHEMICALS IN PPM AT 0.1307E+06 HRS
(ADSORBED CHEMICAL CONC. = 0.5751E+00 * DISSOLVED CHEMICAL CONC.)

 $Z = 0.00$

	X									
Y	0.	4.	6.	7.	8.	9.	12.	13.	14.	15.
20.	0.114E-02	0.140E-02	0.151E-02	0.157E-02	0.161E-02	0.165E-02	0.174E-02	0.176E-02	0.177E-02	0.178E-02
15.	0.382E-02	0.463E-02	0.492E-02	0.502E-02	0.511E-02	0.516E-02	0.519E-02	0.515E-02	0.510E-02	0.502E-02
10.	0.143E-01	0.167E-01	0.171E-01	0.170E-01	0.169E-01	0.166E-01	0.153E-01	0.147E-01	0.141E-01	0.135E-01
5.	0.689E-01	0.708E-01	0.639E-01	0.597E-01	0.554E-01	0.512E-01	0.397E-01	0.363E-01	0.333E-01	0.305E-01
0.	0.217E+00	0.189E+00	0.146E+00	0.125E+00	0.108E+00	0.926E-01	0.616E-01	0.545E-01	0.484E-01	0.431E-01

CONTINUE

	X				
Y	18.	20.	25.	30.	35.
20.	0.177E-02	0.174E-02	0.160E-02	0.140E-02	0.119E-02
15.	0.472E-02	0.446E-02	0.374E-02	0.302E-02	0.240E-02
10.	0.116E-01	0.104E-01	0.779E-02	0.571E-02	0.422E-02
5.	0.235E-01	0.198E-01	0.131E-01	0.882E-02	0.613E-02
0.	0.312E-01	0.255E-01	0.159E-01	0.103E-01	0.700E-02

**DISTRIBUTION OF DISSOLVED CHEMICALS IN PPM AT 0.1745E+06 HRS
(ADSORBED CHEMICAL CONC. = 0.5751E+00 * DISSOLVED CHEMICAL CONC.)**

Z = 0.00

Y	X									
	0.	4.	6.	7.	8.	9.	12.	13.	14.	15.
20.	0.114E-02	0.140E-02	0.152E-02	0.157E-02	0.161E-02	0.165E-02	0.174E-02	0.176E-02	0.178E-02	0.178E-02
15.	0.382E-02	0.463E-02	0.492E-02	0.502E-02	0.511E-02	0.516E-02	0.519E-02	0.515E-02	0.510E-02	0.502E-02
10.	0.143E-01	0.167E-01	0.171E-01	0.170E-01	0.169E-01	0.166E-01	0.153E-01	0.147E-01	0.141E-01	0.135E-01
5.	0.689E-01	0.708E-01	0.639E-01	0.597E-01	0.554E-01	0.512E-01	0.397E-01	0.363E-01	0.333E-01	0.305E-01
0.	0.217E+00	0.189E+00	0.146E+00	0.125E+00	0.108E+00	0.926E-01	0.616E-01	0.545E-01	0.484E-01	0.431E-01

CONTINUE

Y	X				
	18.	20.	25.	30.	35.
20.	0.177E-02	0.174E-02	0.160E-02	0.140E-02	0.120E-02
15.	0.472E-02	0.447E-02	0.374E-02	0.302E-02	0.240E-02
10.	0.116E-01	0.104E-01	0.779E-02	0.571E-02	0.422E-02
5.	0.235E-01	0.198E-01	0.131E-01	0.882E-02	0.614E-02
0.	0.312E-01	0.255E-01	0.159E-01	0.103E-01	0.701E-02

STEADY STATE SOLUTION HAS BEEN OBTAINED BEFORE FINAL SIMULATING TIME

DISTRIBUTION OF DISSOLVED CHEMICALS IN PPM AT 0.2183E+06 HRS
(ADSORBED CHEMICAL CONC. = 0.5751E+00 * DISSOLVED CHEMICAL CONC.)

Z =	0.00									
	X									
Y	0.	4.	6.	7.	8.	9.	12.	13.	14.	15.
20.	0.114E-02	0.140E-02	0.152E-02	0.157E-02	0.161E-02	0.165E-02	0.174E-02	0.176E-02	0.178E-02	0.178E-02
15.	0.382E-02	0.463E-02	0.492E-02	0.502E-02	0.511E-02	0.516E-02	0.519E-02	0.515E-02	0.510E-02	0.503E-02
10.	0.143E-01	0.167E-01	0.171E-01	0.170E-01	0.169E-01	0.166E-01	0.153E-01	0.147E-01	0.141E-01	0.135E-01
5.	0.689E-01	0.708E-01	0.639E-01	0.597E-01	0.554E-01	0.512E-01	0.397E-01	0.363E-01	0.333E-01	0.305E-01
0.	0.217E+00	0.189E+00	0.146E+00	0.125E+00	0.108E+00	0.926E-01	0.616E-01	0.545E-01	0.484E-01	0.431E-01

CONTINUE

	X				
Y	18.	20.	25.	30.	35.
20.	0.177E-02	0.174E-02	0.160E-02	0.140E-02	0.120E-02
15.	0.472E-02	0.447E-02	0.374E-02	0.302E-02	0.240E-02
10.	0.116E-01	0.104E-01	0.779E-02	0.571E-02	0.422E-02
5.	0.235E-01	0.198E-01	0.131E-01	0.882E-02	0.614E-02
0.	0.312E-01	0.255E-01	0.159E-01	0.103E-01	0.701E-02

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APPENDIX F
PUBLIC NOTIFICATION

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STATE OF GEORGIA
CHATHAM COUNTY

Affidavit of Publication
Savannah Morning News
Savannah Evening Press

Personally appeared before me, Lynnette Tuck, to me known, who being sworn, deposes and says:

That he is the Class. Inside Sales Mgr. of Southeastern Newspapers Corporation, a Georgia corporation, doing business in Chatham County, Georgia, under the trade name of Savannah Morning News/Savannah Evening Press, a daily newspaper published in said county;

That he is authorized to make affidavits of publication on behalf of said published corporation;

That said newspaper is of general circulation in said county and in the area adjacent thereto;

That he has reviewed the regular editions of the Savannah Morning News/Savannah Evening Press, published on 9-26, 1999,
10-3, 1999, 1999, 1999, and finds that the following Advertisement, to-wit:

*****PUBLIC NOTICE*****
Notification of Corrective Action
Plan Underground Storage Tank
Release, Hunter Army Airfield,
Savannah, Ga. EPD (GEPD) has
required Fort Stewart Direc-
torate of Public Works to pre-
pare Corrective Action Plans
Part-B to investigate and/or
clean up contamination at the
underground storage tank sites
listed at the end of this notifica-
tion. These plans will be submit-
ted to the GEPD on or before
December 31, 1999. If you want
to examine a copy of one or
more of the plans, please contact
Commander, 3rd Infantry Divi-
sion (Mechanized) and Fort
Stewart, attn: DEW ENED
ENV.BT, c/o: R. R. 1557
Frank Cochran, Fort Stewart,
Ga. 31314-6728.
A copy will be mailed at a nomi-
nal fee.
Comments to the plan will be
accepted until January 31, 2000
and should be directed to GEPD
at 314-323-2897. Following is the
mailing address:
GEPD USMAP, 244 International
Gate, Suite 104, Atlanta,
Ga. 30324.
Hunter Army Airfield, CAP
Park B Underground Storage
Tank Sites
UST, Building: Facility ID#
21 & 22, 1327, 9-025053
25 & 26, 1336/33, 9-025008
106; 1346; 9-025104

appeared in each of said editions.

Sworn to and subscribed
before me this 4 day
of Oct., 1999.

Lynnette Tuck
(Deponent)

Lillie D. Lang
Notary Public, Chatham County, Georgia

LILLIE D. LANG
Notary Public, Chatham County, Ga.
My Commission Expires Apr. 8, 2001

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APPENDIX G

SITE RANKING FORM

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The site ranking score has been revised to reflect the current site conditions using the most recent data available. The revised site ranking score is 2,500 as opposed to the score of 27,760 that was reported in the Corrective Action Plan (CAP)-Part A Report submitted in March 1999. The revised Site Ranking Form is included in this appendix.

The following revisions were made on the Site Ranking Form to prepare the revised site score:

The CAP-Part B soil data from location BL2 were used to revise the total polynuclear aromatic hydrocarbon (Item A) and total benzene (Item B) scores under the soil contamination category. These data are the most recent data available and supercede the data from boring L-9 that was installed during the CAP-Part A site investigation. Boring BL2 was installed immediately adjacent to L-9 (see Figure II-4 of this CAP report).

The success of the free product removal effort, as evidenced by the CAP-Part B investigation, was used to revise the free product score (Item E) under the groundwater contamination category. Free product removal efforts are discussed in Section II.A.3 of this CAP report.

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SITE RANKING FORM

Facility Name: Tanks 21 & 22, Building 1327

Ranked by: C. Allison Bailey

County: Chatham Facility ID #: 9-025053

Date Ranked: 9/23/99

SOIL CONTAMINATION

A. Total PAHs -
Maximum Concentration found on the site
(Assume <0.660 mg/kg if only gasoline
was stored on site)

- ☒ ≤ 0.660 mg/kg = 0
☐ >0.66 - 1 mg/kg = 10
☐ >1 - 10 mg/kg = 25
☐ >10 mg/kg = 50

B. Total Benzene -
Maximum Concentration found on the site

- ☒ ≤ 0.005 mg/kg = 0
☐ >0.005 - .05 mg/kg = 1
☐ >0.05 - 1 mg/kg = 10
☐ >1 - 10 mg/kg = 25
☐ >10 - 50 mg/kg = 40
☐ >50 mg/kg = 50

C. Depth to Groundwater
(bls = below land surface)

- ☐ >50' bls = 1
☐ >25' - 50' bls = 2
☐ >10' - 25' bls = 5
☒ $\leq 10'$ bls = 10

Fill in the blanks: (A. 0) + (B. 0) = (0) x (C. 10) = (D. 0)

GROUNDWATER CONTAMINATION

E. Free Product (Nonaqueous-phase
liquid hydrocarbons; See Guidelines
For definition of "sheen").

- ☒ No free product = 0
☐ Sheen - 1/8" = 250
☐ >1/8" - 6" = 500
☐ >6" - 1ft. = 1,000
☐ For every additional inch, add another
100 points = 1,000 +

F. Dissolved Benzene -
Maximum Concentration at the site
(One well must be located at the source
of the release.)

- ☐ ≤ 5 $\mu\text{g/L}$ = 0
☐ >5 - 100 $\mu\text{g/L}$ = 5
☒ >100 - 1,000 $\mu\text{g/L}$ = 50
☐ >1,000 - 10,000 $\mu\text{g/L}$ = 100
☐ >10,000 $\mu\text{g/L}$ = 250

Fill in the blanks: (E. 0) + (F. 50) = (G. 50)

POTENTIAL RECEPTORS (MUST BE FIELD-VERIFIED)

Distance from nearest contaminant plume boundary to the nearest downgradient and hydraulically connected Point of Withdrawal for water supply. **If the point of withdrawal is not hydraulically connected, evidence as outlined in the CAP-A guidance document MUST be presented to substantiate this claim.**

H. Public Water Supply

- ☐ Impacted = 2000
☐ ≤500' = 500
☐ >500' - ¼ mi = 25
☐ ¼ mi - 1 mi = 10
☐ >1 mi - 2 mi = 2
☒ * >2 mi = 0
 For lower susceptibility areas only:
☐ >1 mi = 0

I. Non-Public Water Supply

- ☐ Impacted = 1000
☐ ≤100' = 500
☐ >100' - 500' = 25
☐ >500' - ¼ mi = 5
☐ >¼ - ½ mi = 2
☒ >½ mi = 0
 For lower susceptibility areas only:
☐ >¼ mi = 0

Note: If site is in lower susceptibility area, do not use the shaded areas.

*** Please see Section II.B.1, "Documentation of Local Groundwater Conditions," for justification of this evaluation.**

J. Distance from nearest Contaminant Plume boundary to downgradient Surface Waters OR UTILITY TRENCHES & VAULTS (a utility trench may be omitted from ranking if its invert elevation is more than 5 feet above the water table)

- ☐ Impacted = 500
☒ * ≤500' = 50
☐ >500' - 1,000' = 5
☐ >1,000' = 1

K. Distance from any Free Product to basements and crawl spaces

- ☐ Impacted = 500
☐ <500' = 50
☐ >500' - 1,000' = 5
☒ >1,000' or no free product. = 0

*** Distance to nearest downgradient surface water body used. Site utilities located upgradient.**

Fill in the blanks: (H. 0) + (I. 0) + (J. 50) + (K. 0) = L. 50

(G. 50) x (L. 50) = M. 2,500

(M. 2,500) + (D. 0) = N. 2,500

P. SUSCEPTIBILITY AREA MULTIPLIER

- ☐ If site is located in a Low Ground-Water Pollution Susceptibility Area = 0.5
☒ All other sites = 1

Q. EXPLOSION HAZARD

Have any explosive petroleum vapors, possibly originating from this release, been detected in any subsurface structure (e.g., utility trenches, basements, vaults, crawl spaces, etc.)?

- ☐ Yes = 200,000
☒ No = 0

Fill in the blanks: (N. 2,500) x (P. 1) = (2,500) + (Q. 0)

= 2,500

ENVIRONMENTAL SENSITIVITY SCORE