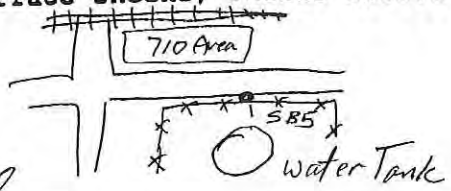
FIELD LOGBOOK SOIL/SEDIMENT SAMPLING DATA

Date 8/5/95 Location H710-SB5

Samplers Used split spoon, SS spoon

Drawing of sampling location (including location description as well as the presence of debris, surface sheens, recent excavations, vegetation, etc.)



Weather PC, Hot, Humid

Soil/sediment sampling parameters:

Description of sample DK Br: clayey Sand

Time of sample collection 1620 . 3-5'

Depth of water (for sediment sampling) _____

Decontamination (page number reference) Workplan CDAP

Spoons or spatulas pB-37

Trowel _____

Hand corer _____

Hand auger _____

Bowls _____

Split spoons pB-37

Photograph frame numbers _____

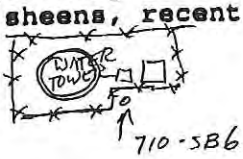
Signature (of field team personnel making data entry) D. Humphus

FIELD LOGBOOK SOIL/SEDIMENT SAMPLING DATA

Date 8/6/95 Location H710-SB6

Samplers Used split spoon, SS spoon

Drawing of sampling location (including location description as well as the presence of debris, surface sheens, recent excavations, vegetation, etc.)



Weather PC, hot., humid

Soil/sediment sampling parameters:

Description of sample Dk Br sand 3-5'

Time of sample collection 0840

Depth of water (for sediment sampling) -

Decontamination (page number reference) Workplan CDAP

Spoons or spatulas pB-37

Trowel

Hand corer

Hand auger

Bowls

Split spoons pB-37

Photograph frame numbers

Signature (of field team personnel making data entry)

D. Humphrey

FIELD LOG BOOK SAMPLING DATA:
GROUNDWATER MONITORING WELL WORK SHEET

SAMPLED BY: G. Rowell / D. Howard WELL ID: H710-MW1

PROJECT NAME: Hunter AAF LOCATION: B.710

Date sampled: 9/7/95 Time start 1810 End 1817 Well secured upon arrival? (Y)N

1. Casing Diameter (d) 2 inches ÷ 12 = 0.17 ft
2. Depth of water from T.O.C. 4.97 ft
3. Depth of well from T.O.C. 13.3 ft
4. Feet of standing water (h) 8.33 ft

1. Standing water (gal.) = 1.41
2. X 3 well volumes
3. = 4.24 gallons to purge
4. Purging Method Teflon Bailer

CALCULATION:
Standing water volume = π[(d)² ÷ 4](h)
= 3.14 [(0.17 ft.)² ÷ 4] (8.33 ft.) x 7.48 gal / ft.³ = 1.41 gal

		pH	Conductivity	Temperature, (C)
1.Well volume = 1.41	gal.	5.95	307	85.2
2.Well volume = 2.83	gal.	5.96	310	84.7
3.Well volume = 4.24	gal.	6.00	315	84.0
4.Well volume =	gal.			
5.Well volume =	gal.			
Ground water sample				

Sampling method - Teflon Bailer Field preservation - HCl-BTEX

Sample Description

Odor: None

Color: gray

Appearance: cloudy, turbid

Weather Conditions: partly cloudy, slight breeze, temp ~80°F

Air Monitoring Equipment used: OVA

Reading: Breathing zone: 0

In Well: >1000

COMMENTS: Sample time 1820

FIELD LOG BOOK SAMPLING DATA:
GROUNDWATER MONITORING WELL WORK SHEET

SAMPLED BY: G. Rowell / D. Howard WELL ID: H710-MW2

PROJECT NAME: Hunter AAF LOCATION: B. 710

Date sampled: 9/7/95 Time start 1725 End 1743 Well secured upon arrival? (Y)/N

1. Casing Diameter (d) 2 inches ÷ 12 = 0.17 ft
2. Depth of water from T.O.C. 4.97 ft
3. Depth of well from T.O.C. 13.6 ft
4. Feet of standing water (h) 8.63 ft

1. Standing water (gal.) = 1.47
2. X 3 well volumes
3. = 4.40 gallons to purge
4. Purging Method Teflon Bailer

CALCULATION:
Standing water volume $= \pi[(d)^2 \div 4](h)$

$= 3.14[(0.17 \text{ ft.})^2 \div 4](8.63 \text{ ft.}) \times 7.48 \text{ gal/ft.}^3 = 1.47 \text{ gal}$

		pH	Conductivity	Temperature, (C)
1.Well volume =	1.47 gal.	5.93	144	83.0
2.Well volume =	2.93 gal.	6.03	152	82.3
3.Well volume =	4.40 gal.	6.08	158	82.4
4.Well volume =	gal.			
5.Well volume =	gal.			
Ground water sample				

Sampling method - Teflon Bailer Field preservation - HCl - BTEX

Sample Description

Odor: None

Color: gray

Appearance: cloudy, turbid

Weather Conditions: partly cloudy, slight breeze, temp ≈ 80°F

Air Monitoring Equipment used: OVA

Reading: Breathing zone: 0

In Well: 60

COMMENTS: Sample time 1745

FIELD LOG BOOK SAMPLING DATA:
GROUNDWATER MONITORING WELL WORK SHEET

SAMPLED BY: G. Rowell / D. Howard

WELL ID: H710 - MW3

PROJECT NAME: ~~G. Rowell~~ Hunter AAF

LOCATION: B710

Date sampled: 9/8/95 Time start 1018 DH End ~~1143~~ 1028 DH

Well secured upon arrival? (Y)/N

1. Casing Diameter (d) 2 inches ÷ 12 = 0.17 ft

2. Depth of water from T.O.C. ~~15~~ DH 3.96 ft

3. Depth of well from T.O.C. 13.0 ft

4. Feet of standing water (h) 9.04 ft

1. Standing water (gal.) = 1.53

2. X 3 well volumes

3. = 4.59 gallons to purge

4. Purging Method Teflon Bailer

CALCULATION:
Standing water volume $= \pi[(d)^2 \div 4](h)$

$= 3.14[(0.17 \text{ ft.})^2 \div 4](9.04 \text{ ft.}) \times 7.48 \text{ gal / ft.}^3 = 1.53 \text{ gal}$

		pH	Conductivity	Temperature, (C)
1.Well volume =	1.53 gal.	6.10	556	82.3
2.Well volume =	3.06 gal.	6.29	546	81.2
3.Well volume =	4.59 gal.	6.42	476	80.3
4.Well volume =	gal.			
5.Well volume =	gal.			
Ground water sample				

Sampling method - Teflon Bailer

Field preservation - HCL - BTEX

Sample Description

Odor: slight petroleum odor

Color: cloudy gray

Appearance: cloudy, turbid

Weather Conditions: partly cloudy, slight breeze, temp 75-80°F

Air Monitoring Equipment used: OVA

Reading: Breathing zone: 0

In Well:

OMMENTS: Sample time 1030

FIELD LOG BOOK SAMPLING DATA:
GROUNDWATER MONITORING WELL WORK SHEET

SAMPLED BY: G. Rowell / D. Howard WELL ID: H710-MW4

PROJECT NAME: Hunter AAF LOCATION: B. 710

Date sampled: 9/8/95 Time start 0955 End 1005 Well secured upon arrival? (Y)N

1. Casing Diameter (d) 2 inches ÷ 12 = 0.17 ft
2. Depth of water from T.O.C. 3.69 ft
3. Depth of well from T.O.C. 12.9 ft
4. Feet of standing water (h) 9.21 ft

1. Standing water (gal.) = 1.56
2. X 3 well volumes
3. = 4.68 gallons to purge
4. Purging Method Teflon Bailer

CALCULATION:
Standing water volume $= \pi[(d)^2 \div 4](h)$

$= 3.14[(0.17 \text{ ft.})^2 \div 4](9.21 \text{ ft.}) \times 7.48 \text{ gal/ft.}^3 = 1.56 \text{ gal}$

		pH	Conductivity	Temperature, (C)
1.Well volume =	1.56 gal.	5.54	713	83.9
2.Well volume =	3.12 gal.	5.85	614	82.2
3.Well volume =	4.68 gal.	6.06	586	81.9
4.Well volume =	gal.			
5.Well volume =	gal.			
Ground water sample				

Sampling method - Teflon Bailer Field preservation - HCL- BTEX

Sample Description

Odor: petroleum odor

Color: brown

Appearance: cloudy, turbid

Weather Conditions: partly cloudy, slight breeze, temp ≈ 75°F

Air Monitoring Equipment used: OVA

Reading: Breathing zone: 0

In Well:

COMMENTS: Sample time 1010

Duplicate sample H710-MW7 also collected time 1015

FIELD LOG BOOK SAMPLING DATA:
GROUNDWATER MONITORING WELL WORK SHEET

SAMPLED BY: G. Rossell / D. Howard WELL ID: H710-MW5

PROJECT NAME: Hunter AAF LOCATION: B.710

Date sampled: 9/8/95 Time start 0838 End 0851 Well secured upon arrival? (Y)/N

1. Casing Diameter (d) 2 inches ÷ 12 = 0.17 ft
2. Depth of water from T.O.C. 2.35 ft
3. Depth of well from T.O.C. 13.7 ft
4. Feet of standing water (h) 11.35 ft

1. Standing water (gal.) = 1.93
2. X 3 well volumes
3. = 5.79 gallons to purge
4. Purging Method Teflon Bailer

CALCULATION:
Standing water volume $= \pi[(d)^2 \div 4](h)$

$= 3.14[(0.17\text{ ft.})^2 \div 4](11.35\text{ ft.}) \times 7.48\text{ gal/ft.}^3 = 1.93$ gal

		pH	Conductivity	Temperature, (C)
1.Well volume = 1.93	gal.	5.69	137	78.6
2.Well volume = 3.86	gal.	5.61	124	77.8
3.Well volume = 5.79	gal.	5.60	127	77.5
4.Well volume =	gal.			
5.Well volume =	gal.			
Ground water sample				

Sampling method - Teflon Bailer Field preservation - HCL - BTEX

Sample Description

Odor: organic odor

Color: dark brown

Appearance: turbid, silty

Weather Conditions: overcast, slight breeze, temp ≈ 73°F

Air Monitoring Equipment used: OVA

Reading: Breathing zone: 0

In Well:

COMMENTS: Sample time 0855

Split sample collected for COE

FIELD LOG BOOK SAMPLING DATA:
GROUNDWATER MONITORING WELL WORK SHEET

SAMPLED BY: G. Rowell / D. Howard WELL ID: H710-MW6

PROJECT NAME: Hunter AAF LOCATION: B.710

Date sampled: 9/8/95 Time start 0759 End 0813 Well secured upon arrival? (Y)/N

1. Casing Diameter (d) 2 inches ÷ 12 = 0.17 ft
2. Depth of water from T.O.C. 2.68 ft
3. Depth of well from T.O.C. 13.1 ft
4. Feet of standing water (h) 10.42 ft

1. Standing water (gal.) = 1.77
2. X 3 well volumes
3. = 5.31 gallons to purge
4. Purging Method Teflon Bailer

CALCULATION:
Standing water volume = π [(d)^2 ÷ 4] (h)

= 3.14 [(0.17 ft.)^2 ÷ 4] (10.42 ft.) x 7.48 gal / ft.^{3} = 1.77 gal

		pH	Conductivity (Dif)	Temperature, (C)
1.Well volume = 1.77	gal.	5.80	T96 136	80.3
2.Well volume = 3.54	gal.	5.43	128	79.1
3.Well volume = 5.31	gal.	5.46	120	79.0
4.Well volume =	gal.			
5.Well volume =	gal.			
Ground water sample				

Sampling method - Teflon Bailer Field preservation - HCL - BTEX

Sample Description

Odor: organic odor

Color: dark brown

Appearance: turbid, cloudy

Weather Conditions: overcast, slight breeze, Temp. 70-75°F

Air Monitoring Equipment used: OVA

Reading: Breathing zone: 0

In Well:

COMMENTS: Sample time 0815
MS/MSD collected

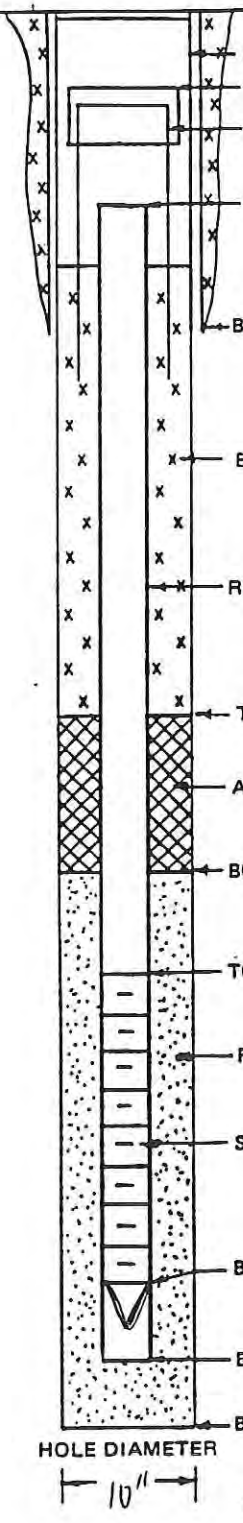
APPENDIX D

MONITORING WELL SCHEMATICS

GROUND WATER INSTALLATION	PROJECT: HAAF	JOB NO. 016602	WELL NO. H 710-SB1
DRILLING CONTRACTOR: PSI	COORDINATES:		
BEGUN: 8/5/95 FINISHED: 8/5/95	SUPERVISOR: D. Humphris DRILLER: M. Gribble	WELL SITE:	WATER LEVEL: DEPTH/ELEV.

REFERENCE POINT & ELEVATION:

GENERALIZED GEOLOGIC LOG



DEPTH IN	ELEV. IN
0	
NA	
NA	
1.5	
2.5	
3.3	
13.3	
13.8	
14.0	

METHOD DRILLED: 6 1/4" ID HSA

METHOD DEVELOPED:

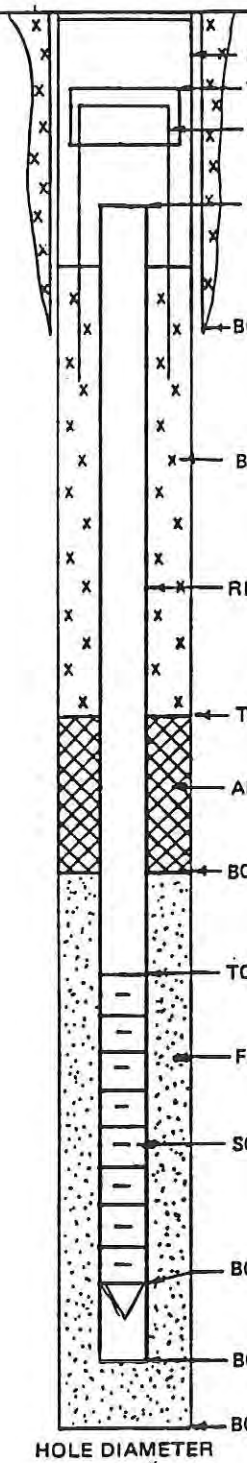
TIME DEVELOPED:

COMMENTS:

Metcalf & Eddy

GROUND WATER INSTALLATION	PROJECT: HAAP	JOB NO. 016602	WELL NO. H710-SB2
DRILLING CONTRACTOR: PSI	COORDINATES:		
BEGUN: 8/5/95 FINISHED: 8/5/95	SUPERVISOR: D. Humphris DRILLER: M. Gribble	WELL SITE:	WATER LEVEL: DEPTH/ELEV.

REFERENCE POINT & ELEVATION:



	DEPTH IN	ELEV. IN
GROUND SURFACE	0	
SURFACE CASING: DIA.: TYPE: Flush Mount	NA	
TOP OF PROTECTIVE CASING		
PROTECTIVE CASING: DIA.: TYPE:		
TOP OF RISER CASING		
BOTTOM OF SURFACE CASING	NA	
BACKFILL: Grout TYPE: Florida Portland Type I/II		
RISER CASING: DIA.: 2" TYPE: PVC Sch 40		
TOP OF SEAL	1.5	
ANNULAR SEAL: TYPE: bentonite 3/8"		
BOTTOM OF SEAL	2.5	
TOP OF SCREEN	3.6	
FILTER MATERIAL: Silica Sand TYPE: 20/30		
SCREEN: DIA.: 2" TYPE: PVC sch40		
OPENING WIDTH: 10 slot TYPE: slot		
BOTTOM OF SCREEN	13.6	
BOTTOM OF SUMP	14.1	
BOTTOM OF HOLE	14.0	

METHOD DRILLED: 6 1/4" ID HSA

METHOD DEVELOPED:

TIME DEVELOPED:

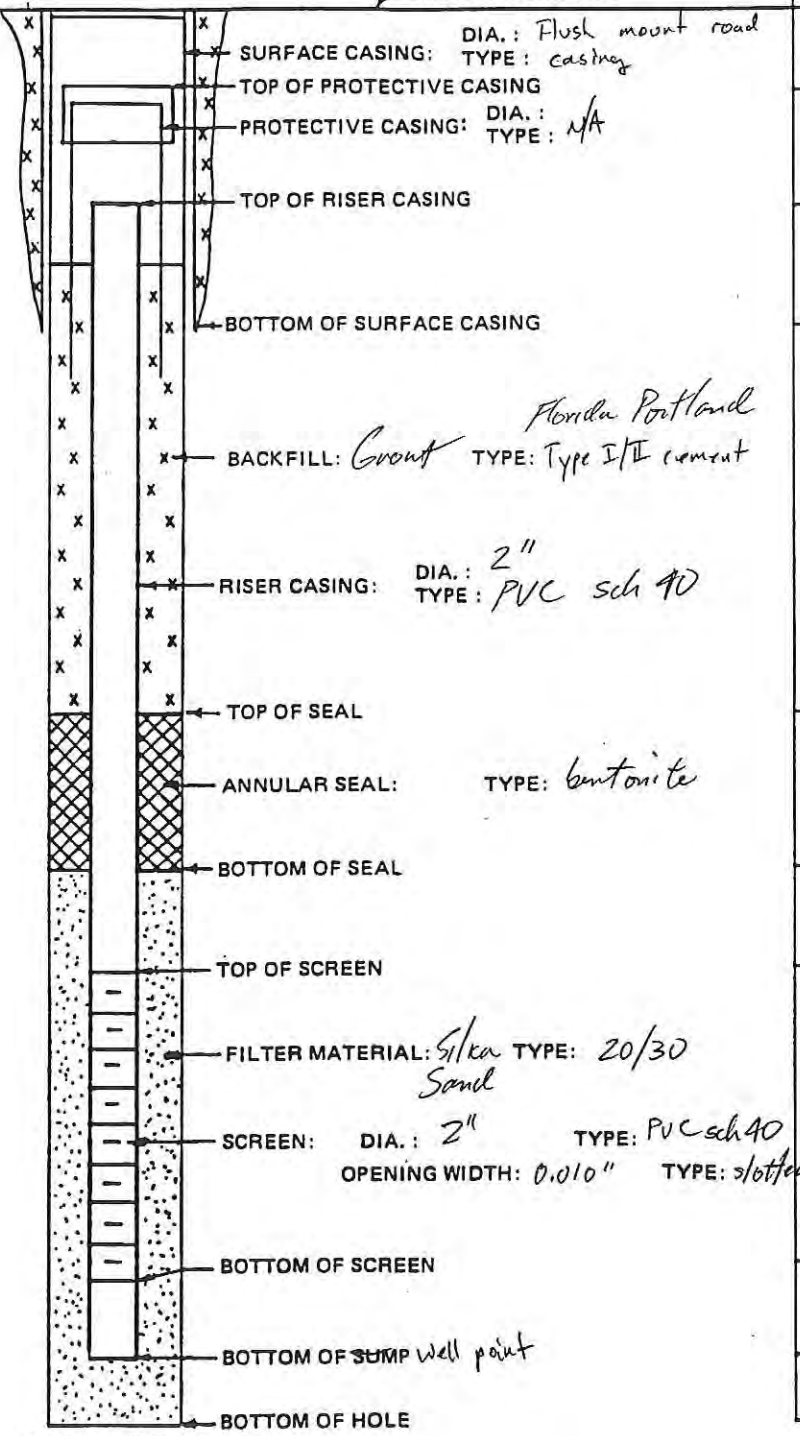
COMMENTS:

Metcalf & Eddy

GROUND WATER INSTALLATION	PROJECT: HUNTER AAF	JOB NO. 016602	WELL NO. H710-SB3
DRILLING CONTRACTOR: PSI	COORDINATES:		
BEGUN: 5 Aug 95 / FINISHED: 5 Aug 95	SUPERVISOR: R. Lawler / DRILLER: Tom Finkenbinder	WELL SITE: Bldg 710	WATER LEVEL: DEPTH/ELEV.

REFERENCE POINT & ELEVATION:

GENERALIZED GEOLOGIC LOG



DEPTH IN	ELEV. IN
0	
0 / ~~0.20~~ RAL	
0.2	
—	
1.2	
2.3	
3.0	
13.0	
13.5	
14	

METHOD DRILLED: HSA 6 1/4"

METHOD DEVELOPED:

TIME DEVELOPED:

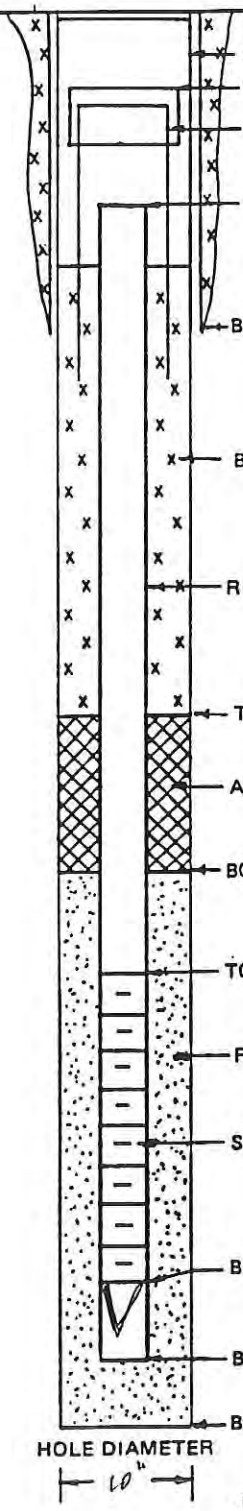
COMMENTS:

Metcalf & Eddy

GROUND WATER INSTALLATION	PROJECT: HUNTER AAF JOB NO. 016602	WELL NO. H710-SB4
DRILLING CONTRACTOR: PSI	COORDINATES:	
BEGUN: 5 Aug 95 FINISHED: 5 Aug 95	SUPERVISOR: R. Lawler DRILLER: Tom Finkenbinder	WELL SITE: Bldg 710
		WATER LEVEL: DEPTH/ELEV.

REFERENCE POINT & ELEVATION:

GENERALIZED GEOLOGIC LOG



DEPTH IN	ELEV. IN
0	
0	
0.2	
—	
1.2	
2.3	
2.9	
12.9	
13.4	
14.'	

METHOD DRILLED: HSA - 6 1/4"

METHOD DEVELOPED:

TIME DEVELOPED:

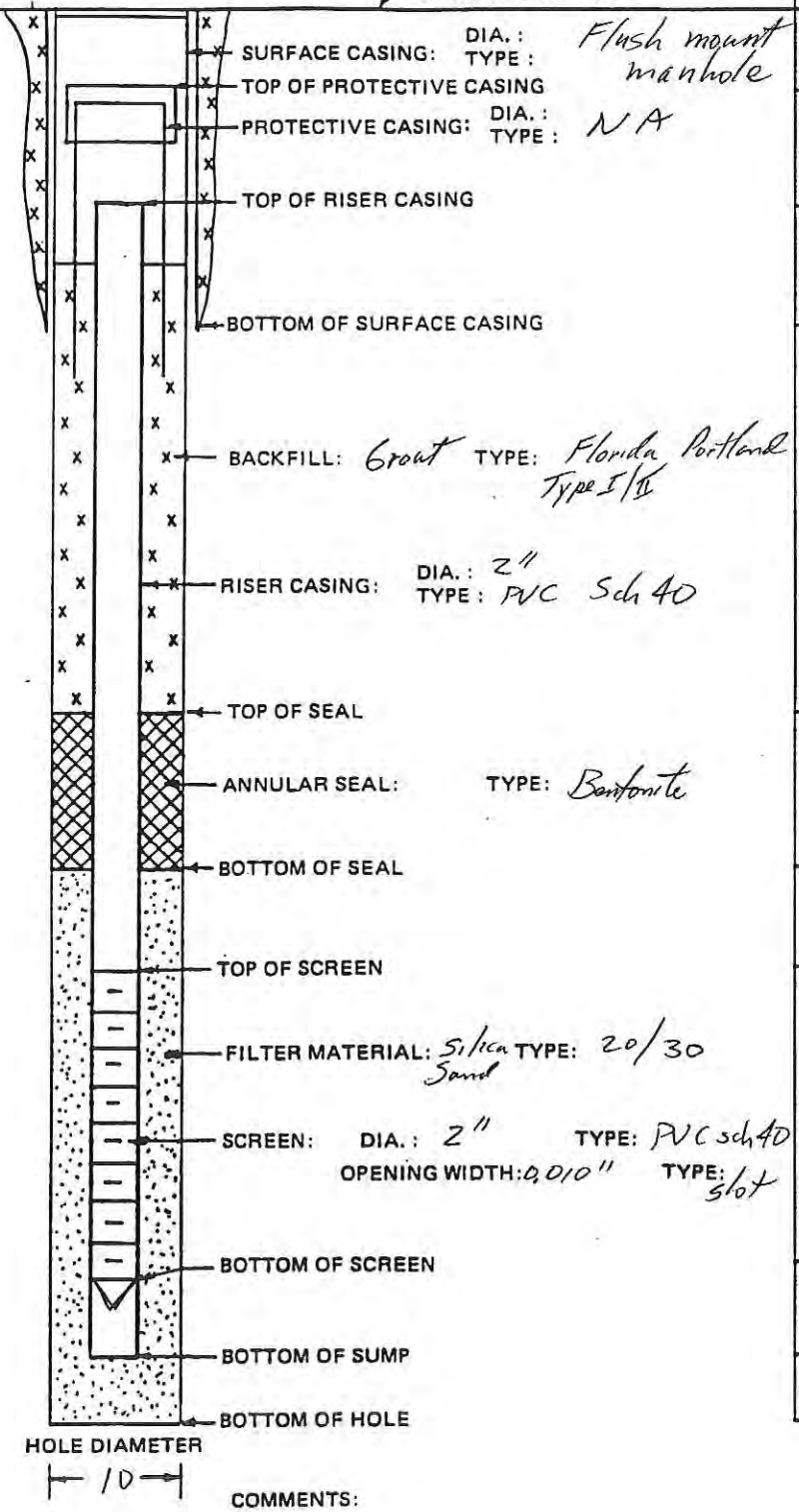
COMMENTS:

Metcalf & Eddy

GROUND WATER INSTALLATION	PROJECT: HAAF	JOB NO. 016602	WELL NO. H710-SB5
DRILLING CONTRACTOR: PST	COORDINATES:		
BEGUN: 8/5/95 FINISHED: 8/5/95	SUPERVISOR: D. Humphries DRILLER: M. Gribble	WELL SITE:	WATER LEVEL: DEPTH/ELEV.

REFERENCE POINT & ELEVATION:

GENERALIZED GEOLOGIC LOG



	DEPTH IN Ft. bgs	ELEV. IN
GROUND SURFACE	0	
TOP OF PROTECTIVE CASING		
TOP OF RISER CASING		
BOTTOM OF SURFACE CASING	NA	
TOP OF SEAL	1.5	
BOTTOM OF SEAL	2.5	
TOP OF SCREEN	3.7	
BOTTOM OF SCREEN	13.7	
BOTTOM OF SUMP	14.2	
BOTTOM OF HOLE	14.0	

METHOD DRILLED: 6¼" ID HSA

METHOD DEVELOPED:

TIME DEVELOPED:

COMMENTS:

Metcalf & Eddy

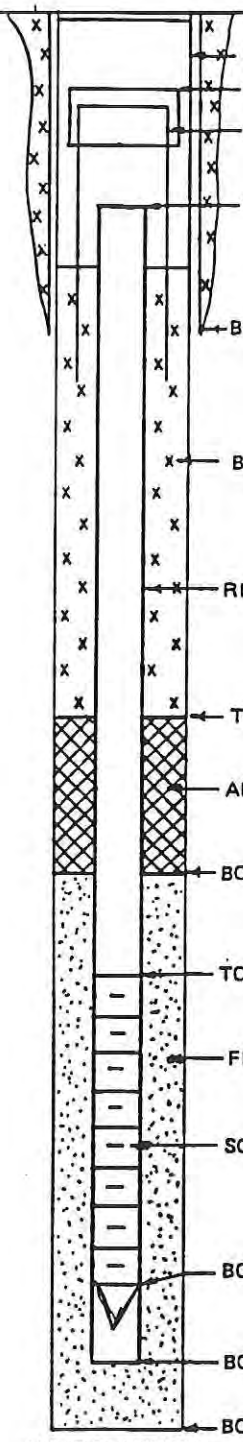
GROUND WATER INSTALLATION

PROJECT: HAAF JOB NO. 016602		WELL NO. H 710 - SB6
DRILLING CONTRACTOR: PSI	COORDINATES:	
BEGUN: 8/6/95 FINISHED: 8/6/95	SUPERVISOR: D. Humphries DRILLER: M. Gribble	WELL SITE:
WATER LEVEL: DEPTH/ELEV.		

REFERENCE POINT & ELEVATION:

DEPTH IN FT. bgs	ELEV. IN
0	
NA	
1.5	
2.5	
3.1	
13.1	
13.6	
14.0	

GENERALIZED GEOLOGIC LOG



- GROUND SURFACE
- SURFACE CASING: DIA.: TYPE: Flush mount manhole
- TOP OF PROTECTIVE CASING
- PROTECTIVE CASING: DIA.: TYPE: NA
- TOP OF RISER CASING
- BOTTOM OF SURFACE CASING
- BACKFILL: Grout TYPE: Florida Portland Type I/II
- RISER CASING: DIA.: 2" TYPE: PVC sch 40
- TOP OF SEAL
- ANNULAR SEAL: TYPE: bentonite
- BOTTOM OF SEAL
- TOP OF SCREEN
- FILTER MATERIAL: Silica Sand TYPE: 20/30
- SCREEN: DIA.: 2" TYPE: PVC Sch 40 OPENING WIDTH: 0.010" TYPE: slot
- BOTTOM OF SCREEN
- BOTTOM OF SUMP
- BOTTOM OF HOLE

HOLE DIAMETER
10"

METHOD DRILLED:
6 1/4" ID HSA

METHOD DEVELOPED:

TIME DEVELOPED:

COMMENTS:

Metcalf & Eddy

APPENDIX E

SURVEY DATA

HOFFMAN AND COMPANY TUE, JUL 18, 1995

ALBANY - SIMULTANEOUS BLOCK ADJUSTMENT

License No. 93649 , by ERIO Technologies.

job 94348 HUNTER AFB

ESTIMATED SOUW .0050

EST STD ERRORS .0050 .0050
.0200 .0200 .0300
.0400 .0400 .0600
1.0000 .1000 .0000

4 PHOTOS
0 MODELS

19 POINTS AND 44 IMAGES FOUND IN IMAGE FILE

Unit Type	1	PH	2	6	4	44
Unit Type	2	IM	3	7	0	0

4 UNITS
19 POINTS
44 IMAGES
7 HORIZONTAL CONTROL POINTS
7 VERTICAL CONTROL POINTS
3 UNIT BANDWIDTH AT POINT 791
6 Blockrow Width

81 UNKNOWNS
109 EQUATIONS

28 DEGREES OF FREEDOM

0 POINTS AND 0 BLOCK ROWS TO DISK

ITERATION 1

STD. DEV. OF UNIT WT. IS .0043

HOFFMAN AND COMPANY TUE, JUL 18, 1995

ALBANY - SIMULTANEOUS BLOCK ADJUSTMENT

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job 94348 HUNTER AFB

POINT NO.	UNIT NO.	IMAGE RESIDUALS VX	VY	VZ
STD. DEVS. OF IMAGES		.0017	.0027	.0000
			.0032	
	MEAN	.0000	.0000	.0000

Maximum x residual at point 10813 = -.0054
Maximum y residual at point 791 = -.0076

HOFFMAN AND COMPANY TUE, JUL 18, 1995

ALBANY - SIMULTANEOUS BLOCK ADJUSTMENT

License No. 93649 , by ERIO Technologies.

job 94348 HUNTER AFB

POINT NO.	POINT NAME	NO. OF IMAGES	INTERSECTION RESIDUALS DX	DY	DZ	LEAST SQUARES RESIDUALS VX	VY	VZ
CONTROL POINTS								
791		3	-.506	-.055	-.028	-.509	-.059	-.014
792		2	-.115	.764	-.059	-.097	.762	-.010
811		2	-.177	-.090	.163	-.139	-.072	.027
812		2	.837	-.221	.185	.783	-.216	.029
813		2	.004	-.313	-.178	.080	-.303	-.032
814		2	-.198	-.407	-.158	-.247	-.430	-.029
815		2	.145	.359	.173	.129	.317	.029
		RMSE	.389	.385	.147			
				.547				
		MEAN	-.001	.005	.014			

Maximum X residual at point 812 = .837
Maximum Y residual at point 792 = .764
Maximum Z residual at point 812 = .185

HOFFMAN AND COMPANY TUE, JUL 18, 1995

ALBANY - SIMULTANEOUS BLOCK ADJUSTMENT

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job 94348 HUNTER AFB

POINT	NAME	CODE	X	Y	Z
791		3	820815.014	739735.978	24.263
792		3	818737.441	740155.563	17.379
811		3	820856.772	738790.863	24.410
812		3	819099.492	738448.487	36.730
813		3	818585.845	736351.632	35.923
814		3	821274.093	737055.876	30.251
815		3	819811.525	735632.495	37.663
10791		0	821567.228	741466.412	27.022
10792		0	820307.054	741214.867	13.781
10793		0	818463.201	740977.811	18.076
10801		0	821314.546	739502.536	25.364
10802		0	820087.550	739314.384	21.172
10803		0	818452.065	739215.768	33.867
10811		0	822104.370	737843.129	31.938
10812		0	820487.234	737474.163	38.475
10813		0	818674.747	737188.076	34.424
10821		0	821703.459	735693.289	38.618
10822		0	820160.526	735564.650	38.495
10823		0	818481.569	735456.625	36.594

PLAN - .75
DTM - .75

Absolute Orientation Report

Project Name: 94348
Model Name: 10811082
Operator: HEW
Date: 07-20-95

Page: 1

Earth Curvature: OFF
Earth Radius: 6370000.000 meter
Levelling: ON
Flight Height: 3028.251 feet
Photo Scale: 5935
Ground Control File: 94348

Measurements

Point ID	Status	Control	Residual X	Residual Y	Residual Z
10813	measured	XYZ	-0.067	-0.022	-0.159
10812	measured	XYZ	-0.171	-0.043	-0.072
813	measured	XYZ	0.059	0.178	0.260
814	measured	XYZ	0.103	-0.062	0.147
815	measured	XYZ	0.060	-0.035	-0.361
10811	rejected	XYZ	0.000	0.000	0.000
10821	measured	XYZ	0.028	0.045	0.098
10822	measured	XYZ	-0.022	-0.048	-0.060
10823	measured	XYZ	0.010	-0.011	0.147
	Max Residual		0.171	0.178	0.361
	Mean Residual		0.081	0.074	0.189
	Tolerance		1.000	1.000	1.000

Transformation Parameters

	Rotation Angles(o)		Translation	Scale
Omega	0.000	X	820128.917	19.474
Phi	0.000	Y	736508.718	
Kappa	91.265	Z	3028.251	

PCM — 6.5 HR
DTM — 1.5 HR

Absolute Orientation Report

Project Name: 94348
Model Name: 10801081
Operator: HEW
Date: 07-19-95

Page: 1

Earth Curvature: OFF
Earth Radius: 6370000.000 meter
Levelling: ON
Flight Height: 3030.212 feet
Photo Scale: 5944
Ground Control File: 94348

Measurements

Point ID	Status	Control	Residual X	Residual Y	Residual Z
10802	measured	XYZ	-0.234	-0.010	0.075
10801	measured	XYZ	-0.286	0.022	0.218
791	measured	XYZ	0.485	0.399	-0.121
811	measured	XYZ	0.272	-0.084	-0.303
812	measured	XYZ	-0.262	0.116	-0.213
10803	measured	XYZ	0.030	-0.030	0.158
10811	measured	XYZ	-0.477	-0.166	0.124
10812	measured	XYZ	0.197	-0.119	-0.035
10813	measured	XYZ	0.275	-0.129	0.095
	Max Residual		0.485	0.398	0.303
	Mean Residual		0.309	0.162	0.168
	Tolerance		1.000	1.000	1.000

Transformation Parameters

	Rotation Angles(o)		Translation	Scale
Omega	0.000	X	820053.928	19.593
Phi	0.000	Y	738397.490	
Kappa	91.867	Z	3030.212	

PLAN — 2HRS
DTM — 1.5HR

Absolute Orientation Report

Project Name: 94348
Model Name: 10791080
Operator: HEW
Date: 07-19-95

Page: 1

Earth Curvature: OFF
Earth Radius: 6370000.000 meter
Levelling: ON
Flight Height: 3013.451 feet
Photo Scale: 5939
Ground Control File: 94348

Measurements

Point ID	Status	Control	Residual X	Residual Y	Residual Z
10793	measured	XYZ	-0.301	0.478	-0.346
10792	measured	XYZ	-0.054	0.248	0.007
791	measured	XYZ	0.663	0.032	-0.227
792	measured	XYZ	0.066	-0.705	0.263
10791	measured	XYZ	-0.278	-0.161	0.221
10801	measured	XYZ	-0.180	-0.260	-0.142
10802	measured	XYZ	-0.295	0.033	0.108
10803	measured	XYZ	0.339	0.333	0.115
	Max Residual		0.663	0.705	0.346
	Mean Residual		0.322	0.352	0.204
	Tolerance		1.000	1.000	1.000

Transformation Parameters

	Rotation Angles(o)		Translation	Scale
Omega	0.000	X	819946.299	19.486
Phi	0.000	Y	740279.107	
Kappa	89.942	Z	3013.451	

Path: C:\94348\NA2
File: 94348A .ADJ 1,307 .a.. 9-09-95 7:32:20 Page 1

NA2/3000 Version 11-93

WILD NA2/3000 data extracted from file C:\94348\NA2\94348A.NA2

Date: 09-08-1995 Time: 16:51

POINT NUMBER	CUMUL. DISTANCE	MEASURED ELEVATION	VERTICAL DIFF.	ADJUSTED ELEVATION	
TBM 900	0.00	20.3100	0.0000	20.3100	BOLT ON F.H.
7103	126.58	18.4360	-0.0000	18.4360	
72811	347.94	18.8880	-0.0001	18.8879	
72810	547.18	19.1070	-0.0001	19.1069	
7289	759.48	20.2710	-0.0002	20.2708	
7285	933.69	20.3750	-0.0003	20.3747	
7288	1175.52	19.1670	-0.0003	19.1667	
7286	1411.74	20.0240	-0.0004	20.0236	
7283	1552.19	20.7960	-0.0004	20.7956	
7282	1675.22	20.5070	-0.0005	20.5065	
7281	1818.23	19.1970	-0.0005	19.1965	
1	2098.61	20.1540	-0.0006	20.1534	
7106	2247.79	19.9950	-0.0006	19.9944	
7287	2504.19	19.1750	-0.0007	19.1743	
7105	2707.60	18.4580	-0.0007	18.4573	
7284	2976.36	18.7400	-0.0008	18.7392	
7104	3327.37	18.3650	-0.0009	18.3641	
900	3705.88	20.3110	-0.0010	20.3100	

BLDG. 710 AREA PREFIX IS 710

ex: 7103 = H710-MW-3

BLDG. 728 AREA PREFIX IS 728

ex: 7283 = H728-MW-3

BLDG. 133 AREA PREFIX IS 133

ex: 1333 = H133-MW-3

EXCEPTIONS: EXISTING WELLS ARE LISTED; 1, 6, 8, 15 AND SHOWN AS; H133-PX-1, H133-PX-6, H133-PX-8, & H133-PX-15

NB

NA2/3000 Version 11-93

WILD NA2/3000 data extracted from file C:\94348\NA2\94348A.NA2

Date: 09-08-1995 Time: 16:51

POINT NUMBER	BACK SIGHT	FORE SIGHT	INTER. POINT	SETTING OUT	MEASURED DISTANCE	NBR REP	STAND DEV.	HEIGHT OF POINT
900	******** BEGINNING OF LEVELLING RUN ********							20.3100
900	3.5140				78.020	3	0.0002	
7103		5.3880			48.560	3	0.0001	18.4360
7103	6.2890				150.330	3	0.0003	
72811		5.8370			71.030	3	0.0002	18.8880
72811	5.8300				71.060	3	0.0000	
72810		5.6110			128.180	3	0.0002	19.1070
72810	6.4850				109.910	3	0.0002	
7289		5.3210			102.390	3	0.0002	20.2710
7289	5.5890				120.140	3	0.0005	
7285		5.4850			54.070	3	0.0001	20.3750
7285	5.4100				70.960	3	0.0000	
7288		6.6180			170.870	4	0.0011	19.1670
7288	6.5890				170.730	3	0.0002	
7286		5.7320			65.490	3	0.0002	20.0240
7286	5.7070				65.450	3	0.0001	
7283		4.9350			75.000	3	0.0004	20.7960
7283	5.6430				69.420	3	0.0000	
7282		5.9320			53.610	3	0.0001	20.5070
7282	4.7370				79.330	3	0.0001	
7281		6.0470			63.680	3	0.0000	19.1970
7281	5.2330				168.210	3	0.0006	
1		4.2760			112.170	3	0.0002	20.1540
1	5.4300				60.660	3	0.0003	
7106		5.5890			38.520	3	0.0004	19.9950
7106	5.5680				88.550	3	0.0002	
7287		6.3880			167.850	3	0.0004	19.1750
7287	5.3540				145.180	3	0.0002	
7105		6.0710			58.230	5	0.0011	18.4580
7105	6.0630				58.330	3	0.0002	
7284		5.7810			210.430	3	0.0005	18.7400
7284	5.7680				210.560	5	0.0020	
7104		6.1430			140.450	3	0.0001	18.3650
7104	5.2260				133.630	3	0.0010	
900		3.2800			244.880	4	0.0004	20.3110
	******** Cumulative distance: 3705.88 feet ********							
	******** Vertical closure: -0.0010 foot ********							
	******** Accuracy of leveling: 0.001 foot √Mile ********							

NA2/3000 Version 11-93

WILD NA2/3000 data extracted from file C:\94348\NA2\94348B.NA2

Date: 09-08-1995 Time: 16:52

POINT NUMBER	CUMUL. DISTANCE	MEASURED ELEVATION	VERTICAL DIFF.	ADJUSTED ELEVATION	
TBM 900	0.00	20.3100	0.0000	20.3100	BOLT ON FH
7102	176.18	18.0620	-0.0010	18.0610	
7101	414.04	18.0290	-0.0025	18.0265	
72812	728.11	18.5150	-0.0043	18.5107	
72813	985.46	18.3920	-0.0058	18.3862	
72814	1228.14	18.7680	-0.0073	18.7607	
900	1519.64	20.3190	-0.0090	20.3100	

NA2/3000 Version 11-93

WILD NA2/3000 data extracted from file C:\94348\NA2\94348B.NA2

Date: 09-08-1995 Time: 16:52

POINT NUMBER	BACK SIGHT	FORE SIGHT	INTER. POINT	SETTING OUT	MEASURED DISTANCE	NBR REP	STAND DEV.	HEIGHT OF POINT
900	******** BEGINNING OF LEVELLING RUN ********							20.3100
900	3.5740				81.300	3	0.0001	
7102		5.8220			94.880	3	0.0003	18.0620
7102	5.7920				94.780	3	0.0002	
7101		5.8250			143.080	3	0.0039	18.0290
7101	5.8220				143.110	3	0.0019	
72812		5.3360			170.960	3	0.0009	18.5150
72812	5.3200				165.650	3	0.0007	
72813		5.4430			91.700	3	0.0004	18.3920
72813	5.6690				94.880	3	0.0000	
72814		5.3130			147.800	3	0.0002	18.7680
72814	5.3330				147.800	3	0.0011	
900		3.7820			143.700	3	0.0003	20.3190
	******** Cumulative distance: 1519.64 feet ********							
	******** Vertical closure: -0.0090 foot ********							
	******** Accuracy of leveling: 0.017 foot JMile ********							

NA2/3000 Version 11-93

WILD NA2/3000 data extracted from file C:\94348\NA2\94348C.NA2

Date: 09-08-1995 Time: 16:53

POINT NUMBER	CUMUL. DISTANCE	MEASURED ELEVATION	VERTICAL DIFF.	ADJUSTED ELEVATION	
HP 7	0.00	23.3100	0.0000	23.3100	T/ASPH.
PK 8	156.72	23.1890	0.0002	23.1892	EXISTING
1331	406.53	23.9780	0.0005	23.9785	
PK 6	653.68	24.5080	0.0008	24.5088	EXISTING
PK 15	914.21	22.7360	0.0011	22.7371	EXISTING.
PK 1	1082.19	25.5080	0.0013	25.5093	EXISTING
1335	1330.35	23.3640	0.0016	23.3656	
1334	1574.61	23.4290	0.0019	23.4309	
1336	1779.53	22.1250	0.0021	22.1271	
1332	2084.39	23.1800	0.0025	23.1825	
1333	2302.24	22.1140	0.0027	22.1167	
HP 7	2549.26	23.3070	0.0030	23.3100	T/ASPH.

NA2/3000 Version 11-93

WILD NA2/3000 data extracted from file C:\94348\NA2\94348C.NA2

Date: 09-08-1995 Time: 16:53

POINT NUMBER	BACK SIGHT	FORE SIGHT	INTER. POINT	SETTING OUT	MEASURED DISTANCE	NBR REP	STAND DEV.	HEIGHT OF POINT
7	******** BEGINNING OF LEVELLING RUN ********							23.3100
7	5.7320				59.280	3	0.0001	
8		5.8530			97.440	3	0.0004	23.1890
8	6.9000				95.870	3	0.0015	
1331		6.1110			153.940	4	0.0011	23.9780
1331	6.0860				154.070	4	0.0007	
6		5.5560			93.080	3	0.0005	24.5080
6	5.3000				127.660	3	0.0004	
15		7.0720			132.870	3	0.0014	22.7360
15	6.2370				98.230	3	0.0001	
1		3.4650			69.750	3	0.0002	25.5080
1	2.6920				98.650	4	0.0001	
1335		4.8360			149.510	3	0.0005	23.3640
1335	4.8250				149.510	3	0.0005	
1334		4.7600			94.750	3	0.0004	23.4290
1334	4.4560				94.680	3	0.0008	
1336		5.7600			110.240	3	0.0003	22.1250
1336	5.7300				110.240	3	0.0004	
1332		4.6750			194.620	3	0.0001	23.1800
1332	5.4850				87.760	3	0.0003	
1333		6.5510			130.090	3	0.0002	22.1140
1333	6.5400				130.090	3	0.0002	
7		5.3470			116.930	3	0.0002	23.3070
	******** Cumulative distance: 2549.26 feet ********							
	******** Vertical closure: 0.0030 foot ********							
	******** Accuracy of leveling: 0.004 foot √Mile ********							

Path: C:\94348\NA2
File: 94348D .ADJ 557 .a.. 9-08-95 16:54:04

NA2/3000 Version 11-93

WILD NA2/3000 data extracted from file C:\94348\NA2\94348D.NA2

Date: 09-08-1995 Time: 16:53

POINT NUMBER	CUMUL. DISTANCE	MEASURED ELEVATION	VERTICAL DIFF.	ADJUSTED ELEVATION	
TP 513	0.00	34.4600	0.0000	34.4600	60-D
72819	215.62	33.0240	0.0000	33.0240	
513	431.20	34.4600	0.0000	34.4600	

NA2/3000 Version 11-93

WILD NA2/3000 data extracted from file C:\94348\NA2\94348D.NA2

Date: 09-08-1995 Time: 16:53

POINT NUMBER	BACK SIGHT	FORE SIGHT	INTER. POINT	SETTING OUT	MEASURED DISTANCE	NBR REP	STAND DEV.	HEIGHT OF POINT
513	******** BEGINNING OF LEVELLING RUN ********							34.4600
513	4.6780				123.490	3	0.0003	
72819		6.1140			92.130	3	0.0005	33.0240
72819	6.1040				92.190	3	0.0005	
513		4.6680			123.390	3	0.0009	34.4600
	******** Cumulative distance: 431.20 feet ********							
	******** Vertical closure: 0.0000 foot ********							
	******** Accuracy of leveling: 0.000 foot -IMile ********							

NA2/3000 Version 11-93

WILD NA2/3000 data extracted from file C:\94348\NA2\94348E.NA2

Date: 09-08-1995 Time: 16:54

POINT NUMBER	CUMUL. DISTANCE	MEASURED ELEVATION	VERTICAL DIFF.	ADJUSTED ELEVATION	
TP 512	0.00	37.3300	0.0000	37.3300	PK
72820	317.33	37.3570	0.0000	37.3570	
512	634.78	37.3300	0.0000	37.3300	

NA2/3000 Version 11-93

WILD NA2/3000 data extracted from file C:\94348\NA2\94348E.NA2

Date: 09-08-1995 Time: 16:54

POINT NUMBER	BACK SIGHT	FORE SIGHT	INTER. POINT	SETTING OUT	MEASURED DISTANCE	NBR REP	STAND DEV.	HEIGHT OF POINT
512	******** BEGINNING OF LEVELLING RUN ********							37.3300
512	5.7320				166.540	3	0.0021	
72820		5.7050			150.790	3	0.0013	37.3570
72820	5.6750				150.950	3	0.0005	
512		5.7020			166.500	3	0.0005	37.3300
	******** Cumulative distance: 634.78 feet ********							
	******** Vertical closure: 0.0000 foot ********							
	******** Accuracy of leveling: 0.000 foot /Mile ********							

NA2/3000 Version 11-93

WILD NA2/3000 data extracted from file C:\94348\NA2\94348F.NA2

Date: 09-08-1995 Time: 16:55

POINT NUMBER	CUMUL. DISTANCE	MEASURED ELEVATION	VERTICAL DIFF.	ADJUSTED ELEVATION	
TP 510	0.00	37.2500	0.0000	37.2500	60 D
72821	294.10	35.5940	0.0010	35.5950	
72822	501.74	32.2140	0.0018	32.2158	
72823	629.07	31.7430	0.0022	31.7452	
72824	858.10	37.2610	0.0030	37.2640	
510	1128.27	37.2460	0.0040	37.2500	

NA2/3000 Version 11-93

WILD NA2/3000 data extracted from file C:\94348\NA2\94348F.NA2

Date: 09-08-1995 Time: 16:55

POINT NUMBER	BACK SIGHT	FORE SIGHT	INTER. POINT	SETTING OUT	MEASURED DISTANCE	NBR REP	STAND DEV.	HEIGHT OF POINT
510	******** BEGINNING OF LEVELLING RUN ********							37.2500
510	3.7920				143.180	3	0.0006	
72821		5.4480			150.920	3	0.0003	35.5940
72821	4.3250				118.830	3	0.0005	
72822		7.7050			88.810	3	0.0002	32.2140
72822	7.6840				88.880	3	0.0005	
72823		8.1550			38.450	3	0.0002	31.7430
72823	9.2130				106.360	3	0.0002	
72824		3.6950			122.670	3	0.0002	37.2610
72824	3.6750				122.700	3	0.0001	
510		3.6900			147.470	3	0.0002	37.2460
	******** Cumulative distance: 1128.27 feet ********							
	******** Vertical closure: 0.0040 foot ********							
	******** Accuracy of leveling: 0.009 foot JMile ********							

NA2/3000 Version 11-93

WILD NA2/3000 data extracted from file C:\94348\NA2\94348G.NA2

Date: 09-08-1995 Time: 16:55

POINT NUMBER	CUMUL. DISTANCE	MEASURED ELEVATION	VERTICAL DIFF.	ADJUSTED ELEVATION	
TBM 800	0.00	38.0100	0.0000	38.0100	5/8" REBAR
72826	155.91	37.9800	-0.0007	37.9793	
72825	379.17	37.9780	-0.0018	37.9762	
800	628.54	38.0130	-0.0030	38.0100	

NA2/3000 Version 11-93

WILD NA2/3000 data extracted from file C:\94348\NA2\94348G.NA2

Date: 09-08-1995 Time: 16:55

POINT NUMBER	BACK SIGHT	FORE SIGHT	INTER. POINT	SETTING OUT	MEASURED DISTANCE	NBR REP	STAND DEV.	HEIGHT OF POINT
800	******** BEGINNING OF LEVELLING RUN ********							38.0100
800	5.5760				91.080	3	0.0001	
72826		5.6060			64.830	3	0.0005	37.9800
72826	5.5170				64.930	3	0.0002	
72825		5.5190			158.330	3	0.0002	37.9780
72825	5.5060				158.430	3	0.0001	
800		5.4710			90.940	3	0.0005	38.0130
	******** Cumulative distance: 628.54 feet ********							
	******** Vertical closure: -0.0030 foot ********							
	******** Accuracy of leveling: 0.009 foot √Mile ********							

NA2/3000 Version 11-93

WILD NA2/3000 data extracted from file C:\94348\NA2\94348H.NA2

Date: 09-08-1995 Time: 16:56

POINT NUMBER	CUMUL. DISTANCE	MEASURED ELEVATION	VERTICAL DIFF.	ADJUSTED ELEVATION	
MV 915	0.00	37.6700	0.0000	37.6700	PK
72828	183.04	37.2280	-0.0004	37.2276	
72829	362.60	36.9490	-0.0008	36.9482	
72830	554.76	37.2590	-0.0012	37.2578	
815	887.90	37.6720	-0.0020	37.6700	

NA2/3000 Version 11-93

WILD NA2/3000 data extracted from file C:\94348\NA2\94348H.NA2

Date: 09-08-1995 Time: 16:56

POINT NUMBER	BACK SIGHT	FORE SIGHT	INTER. POINT	SETTING OUT	MEASURED DISTANCE	NBR REP	STAND DEV.	HEIGHT OF POINT
815	******** BEGINNING OF LEVELLING RUN ********							37.6700
815	5.4920				119.290	3	0.0001	
72828		5.9340			63.750	3	0.0001	37.2280
72828	5.5590				70.510	3	0.0007	
72829		5.8380			109.050	3	0.0001	36.9490
72829	5.8180				109.120	3	0.0002	
72830		5.5080			83.040	3	0.0003	37.2590
72830	5.7450				149.610	4	0.0009	
815		5.3320			183.530	3	0.0006	37.6720
	******** Cumulative distance: 887.90 Feet ********							
	******** Vertical closure: -0.0020 Foot ********							
	******** Accuracy of leveling: 0.005 Foot √Mile ********							

NA2/3000 Version 11-93

WILD NA2/3000 data extracted from file C:\94348\NA2\94348I.NA2

Date: 09-08-1995 Time: 16:57

POINT NUMBER	CUMUL. DISTANCE	MEASURED ELEVATION	VERTICAL DIFF.	ADJUSTED ELEVATION	
HV 815	0.00	37.6700	0.0000	37.6700	PK
72827	330.41	37.4980	0.0020	37.5000	
815	660.86	37.6660	0.0040	37.6700	

NA2/3000 Version 11-93

WILD NA2/3000 data extracted from file C:\94348\NA2\94348I.NA2

Date: 09-08-1995 Time: 16:57

POINT NUMBER	BACK SIGHT	FORE SIGHT	INTER. POINT	SETTING OUT	MEASURED DISTANCE	NBR REP	STAND DEV.	HEIGHT OF POINT
815	******** BEGINNING OF LEVELLING RUN ********							37.6700
815	5.7140				187.200	3	0.0007	
72827		5.8860			143.210	3	0.0008	37.4980
72827	5.8530				143.340	3	0.0003	
815		5.6850			187.110	3	0.0004	37.6660
	******** Cumulative distance: 660.86 feet ********							
	******** Vertical closure: 0.0040 foot ********							
	******** Accuracy of leveling: 0.011 foot √Mile ********							

NA2/3000 Version 11-93

WILD NA2/3000 data extracted from file C:\94348\NA2\94348J.NA2

Date: 09-08-1995 Time: 16:58

POINT NUMBER	CUMUL. DISTANCE	MEASURED ELEVATION	VERTICAL DIFF.	ADJUSTED ELEVATION	
TP 505	0.00	36.5100	0.0000	36.5100	PK
72817	371.13	36.4890	-0.0005	36.4885	
72816	748.69	35.4350	-0.0009	35.4341	
72818	1129.04	36.9150	-0.0014	36.9136	
505	1627.59	36.5120	-0.0020	36.5100	

NA2/3000 Version 11-93

WILD NA2/3000 data extracted from file C:\94348\NA2\94348J.NA2

Date: 09-08-1995 Time: 16:58

POINT NUMBER	BACK SIGHT	FORE SIGHT	INTER. POINT	SETTING OUT	MEASURED DISTANCE	NBR REP	STAND DEV.	HEIGHT OF POINT
505	********	BEGINNING OF LEVELLING RUN ********						36.5100
505	5.4330				180.610	3	0.0004	
72817		5.4540			190.520	3	0.0002	36.4890
72817	5.4400				190.520	3	0.0000	
72816		6.4940			187.040	3	0.0006	35.4350
72816	7.4630				192.030	3	0.0002	
72818		5.9830			188.320	3	0.0001	36.9150
72818	5.5780				237.430	3	0.0005	
505		5.9810			261.120	3	0.0004	36.5120
	******** Cumulative distance: 1627.59 feet ********							
	******** Vertical closure: -0.0020 foot ********							
	******** Accuracy of leveling: 0.004 foot √Mile ********							

NA2/3000 Version 11-93

WILD NA2/3000 data extracted from file C:\94348\NA2\94348K.NA2

Date: 09-08-1995 Time: 16:59

POINT NUMBER	CUMUL. DISTANCE	MEASURED ELEVATION	VERTICAL DIFF.	ADJUSTED ELEVATION	
TP 504	0.00	37.5500	0.0000	37.5500	PK
72815	36.32	37.2900	-0.0005	37.2895	
504	72.77	37.5510	-0.0010	37.5500	

NA2/3000 Version 11-93

WILD NA2/3000 data extracted from file C:\94348\NA2\94348K.NA2

Date: 09-08-1995 Time: 16:59

POINT NUMBER	BACK SIGHT	FORE SIGHT	INTER. POINT	SETTING OUT	MEASURED DISTANCE	NBR REP	STAND DEV.	HEIGHT OF POINT
	******** BEGINNING OF LEVELLING RUN ********							37.5500
504					17.650	3	0.0001	
504	5.2540				18.670	3	0.0001	37.2900
72815		5.5140			18.730	3	0.0000	
72815	5.5010				17.720	3	0.0002	37.5510
504		5.2400						
	******** Cumulative distance: 72.77 feet ********							
	******** Vertical closure: -0.0010 foot ********							
	******** Accuracy of leveling: 0.009 foot √Mile ********							

115	943484043 SS MW 4 GC 710	N	739776.846	E	819584.852	Z	18.737
116	Stat. on occupied pt						
117	94348 513 TP TP.513 60D	D	848.120	Hz	0.0000	V1	89.1741
118	94348 513 TP TP.513 60D	dl	-0.060	dq	0.000		
119	94348 514 TP TP.514 60D	N	739043.695	E	820626.727	Z	23.761
120	94348 514 TP TP.514 60D	m	1.000020	Om	195.5047	ih	5.500
121	Sideshots						
122	943484044 SS MW 1 BC 728	D	714.310	Hz	120.1053	V1	90.2337
123	943484044 SS MW 1 BC 728	N	739557.766	E	820130.777	Z	19.524
124	943484045 SS MW 1 GC 728	D	714.720	Hz	120.1226	V1	90.2350
125	943484045 SS MW 1 GC 728	N	739558.284	E	820130.724	Z	19.477
126	943484046 SS MW 2 BC 728	D	821.450	Hz	126.4453	V1	90.1502
127	943484046 SS MW 2 BC 728	N	739696.226	E	820127.730	Z	20.843
128	943484047 SS MW 2 GC 728	D	822.170	Hz	126.4733	V1	90.1521
129	943484047 SS MW 2 GC 728	N	739697.185	E	820127.800	Z	20.764
130	943484048 SS CPC.3	D	277.370	Hz	158.5746	V1	90.2828
131	943484048 SS CPC.3	N	739319.924	E	820601.633	Z	22.126
132	943484049 SS CPC.3	D	289.720	Hz	162.1146	V1	90.2744
133	943484049 SS CPC.3	N	739333.242	E	820616.831	Z	22.086
134	943484050 SS CPC.3	D	286.690	Hz	162.3946	V1	90.2758
135	943484050 SS CPC.3	N	739330.284	E	820619.268	Z	22.090
136	943484051 SS CPC+.3	D	274.390	Hz	159.2053	V1	90.2959
137	943484051 SS CPC+.3	N	739317.116	E	820603.741	Z	22.029
138	943484052 SS SW2/SE2 H133	D	511.710	Hz	273.5435	V1	89.5441
139	943484052 SS SW2/SE2 H133	N	738870.725	E	821108.327	Z	18.318
140	943484053 SS SW1/SE1 H133	D	181.280	Hz	238.0207	V1	90.3425
141	943484053 SS SW1/SE1 H133	N	739094.021	E	820800.876	Z	15.707
142	943484054 SS MW PX15BC 133	D	196.200	Hz	231.0435	V1	90.2220
143	943484054 SS MW PX15BC 133	N	739120.600	E	820807.226	Z	23.147
144	943484055 SS MW PX15GC 133	D	196.580	Hz	230.4833	V1	90.2416
145	943484055 SS MW PX15GC 133	N	739121.591	E	820807.214	Z	23.034
146	943484056 SS MW PX1 GC 133	D	115.030	Hz	215.2753	V1	90.2931
147	943484056 SS MW PX1 GC 133	N	739115.598	E	820716.512	Z	23.434
148	943484057 SS MW PX8 BC 133	D	128.200	Hz	328.4444	V1	90.2308
149	943484057 SS MW PX8 BC 133	N	738920.103	E	820660.789	Z	23.559
150	943484058 SS MW PX8 GC 133	D	127.390	Hz	328.4221	V1	90.2745
151	943484058 SS MW PX8 GC 133	N	738920.909	E	820660.658	Z	23.393
152	943484059 SS MW PX6 BC 133	D	273.780	Hz	293.0828	V1	89.5428
153	943484059 SS MW PX6 BC 133	N	738871.443	E	820839.535	Z	24.863
154	943484060 SS MW PX6 GC 133	D	273.000	Hz	293.0128	V1	89.5743
155	943484060 SS MW PX6 GC 133	N	738872.366	E	820839.279	Z	24.604
156	943484061 SS MW 1 BC 133	D	321.220	Hz	316.0412	V1	89.5934
157	943484061 SS MW 1 BC 133	N	738760.289	E	820777.947	Z	24.464
158	943484062 SS MW 1 GC 133	D	319.780	Hz	316.0412	V1	90.0133
159	943484062 SS MW 1 GC 133	N	738761.560	E	820777.269	Z	24.279
160	943484063 SS MW 2 BC 133	D	48.860	Hz	287.4205	V1	90.5117
161	943484063 SS MW 2 BC 133	N	739016.696	E	820667.444	Z	23.692
162	943484064 SS MW 2 GC 133	D	48.170	Hz	287.1014	V1	90.5744
163	943484064 SS MW 2 GC 133	N	739017.451	E	820667.113	Z	23.612
164	943484065 SS MW 3 BC 133	D	209.440	Hz	196.4050	V1	90.2952
165	943484065 SS MW 3 BC 133	N	739220.279	E	820739.340	Z	22.602
166	943484066 SS MW 3 GC 133	D	210.350	Hz	196.4043	V1	90.3034
167	943484066 SS MW 3 GC 133	N	739221.050	E	820739.823	Z	22.552
168	943484067 SS MW 4 BC 133	D	151.780	Hz	166.0822	V1	90.1115
169	943484067 SS MW 4 BC 133	N	739195.386	E	820631.987	Z	23.925
170	943484068 SS MW 4 GC 133	D	152.800	Hz	166.1523	V1	90.1420
171	943484068 SS MW 4 GC 133	N	739196.394	E	820632.334	Z	23.784

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172 943484069 SS MW 5 BC 133     D      204.680 Hz     172.3612 V1   90.1051
173 943484069 SS MW 5 BC 133     N   739246.156 E    820656.804 Z    23.776
174 943484070 SS MW 5 GC 133     D      205.620 Hz     172.3758 V1   90.1336
175 943484070 SS MW 5 GC 133     N   739247.070 E    820657.046 Z    23.608
176 943484071 SS MW 6 BC 133     D      229.760 Hz     152.3939 V1   90.2720
177 943484071 SS MW 6 BC 133     N   739268.846 E    820580.949 Z    22.595
178 943484072 SS MW 6 GC 133     D      230.830 Hz     152.4535 V1   90.2844
179 943484072 SS MW 6 GC 133     N   739269.973 E    820581.127 Z    22.493
180 943484073 SS HA HA44 NG      D      140.100 Hz      37.3544 V1   90.1311
181 943484073 SS HA HA44 NG      N   738960.245 E    820514.190 Z    23.884
182 Stat. on occupied pt
183 94348 514 TP TP.514  60D     D      848.120 Hz       0.0000 V1   90.4503
184 94348 514 TP TP.514  60D     dl      -0.053 dg       0.000
185 94348 513 TP TP.513  60D     N   738227.910 E    820395.169 Z    34.631
186 94348 513 TP TP.513  60D     m     1.000020 Om      15.5047 ih     5.380
187 Sideshots
188 943484074 SS MW 19BC 728     D      215.320 Hz     338.1221 V1   90.2636
189 943484074 SS MW 19BC 728     N   738442.069 E    820372.857 Z    33.506
190 943484075 SS MW 19GC 728     D      216.620 Hz     338.0813 V1   90.2908
191 943484075 SS MW 19GC 728     N   738443.333 E    820372.464 Z    33.336
192 Stat. on occupied pt
193 94348 513 TP TP.513  60D     D      644.130 Hz       0.0000 V1   90.1954
194 94348 513 TP TP.513  60D     dl      -0.043 dg       0.000
195 94348 512 TP TP.512  60D     N   737584.713 E    820361.282 Z    37.501
196 94348 512 TP TP.512  60D     m     1.000020 Om       3.0057 ih     5.660
197 Sideshots
198 943484076 SS MW 20BC 728     D      309.020 Hz     323.3708 V1   88.4637
199 943484076 SS MW 20BC 728     N   737842.747 E    820191.364 Z    38.019
200 943484077 SS MW 20GC 728     D      309.980 Hz     323.4513 V1   88.4813
201 943484077 SS MW 20GC 728     N   737843.951 E    820191.444 Z    37.895
202 943484078 SS MW 17BC 728     D      484.160 Hz     265.5458 V1   90.0955
203 943484078 SS MW 17BC 728     N   737575.688 E    819877.198 Z    36.929
204 94348 510 TR TP 510  60D     N   736646.788 E    821142.944 Z    37.471
205 94348 509 TR TP 509  PK      N   736133.907 E    820508.152 Z    38.261
206 Stat. on occupied pt
207 94348 509 TR TP 509  PK      D      816.100 Hz       0.0000 V1   89.5743
208 94348 509 TR TP 509  PK      dl      -0.023 dg       0.000
209 94348 510 TR TP 510  60D     N   736646.788 E    821142.944 Z    37.471
210 94348 510 TR TP 510  60D     m     1.000020 Om     231.0349 ih     5.550
211 Sideshots
212 943484079 SS MW 21BC 728     D      155.640 Hz     163.0656 V1   90.4554
213 943484079 SS MW 21BC 728     N   736775.538 E    821230.374 Z    36.103
214 943484080 SS MW 21GC 728     D      156.320 Hz     162.5208 V1   90.4624
215 943484080 SS MW 21GC 728     N   736776.477 E    821230.198 Z    36.072
216 943484081 SS MW 22BC 728     D      194.620 Hz     179.4145 V1   91.3654
217 943484081 SS MW 22BC 728     N   736769.854 E    821293.619 Z    32.697
218 943484082 SS MW 22GC 728     D      195.050 Hz     179.1430 V1   91.3714
219 943484082 SS MW 22GC 728     N   736771.319 E    821292.970 Z    32.666
220 943484083 SS MW 23BC 728     D      200.310 Hz     202.2835 V1   91.4311
221 943484083 SS MW 23BC 728     N   736703.521 E    821334.962 Z    32.170
222 943484084 SS MW 23GC 728     D      200.370 Hz     202.0154 V1   91.4431
223 943484084 SS MW 23GC 728     N   736705.026 E    821334.571 Z    32.091
224 943484085 SS MW 24BC 728     D      130.960 Hz     285.3957 V1   90.1104
225 943484085 SS MW 24BC 728     N   736526.480 E    821194.684 Z    37.760
226 943484086 SS MW 24GC 728     D      129.610 Hz     285.3202 V1   90.1338
227 943484086 SS MW 24GC 728     N   736527.839 E    821194.424 Z    37.667
228 943484087 SS MW 25BC 728     D      393.650 Hz       6.4924 V1   88.5656
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229 943484087 SS MW 25BC 728     N   736437.557 E    820809.572 Z    38.505
230 943484088 SS MW 26BC 728     D      485.730 Hz       4.4540 V1   89.3426
231 943484088 SS MW 26BC 728     N   736373.942 E    820741.092 Z    38.368
232 Stat. on occupied pt
233 94348 510 TR TP 510  60D     D      816.090 Hz     359.5959 V1   90.0450
234 94348 510 TR TP 510  60D     dl      -0.013 dg       0.000
235 94348 509 TR TP 509  PK      N   736133.907 E    820508.152 Z    38.261
236 94348 509 TR TP 509  PK      m     1.000020 Om      51.0350 ih    5.580
237 Sideshots
238 943484089 SS MW 29BC 728     D     1211.330 Hz     180.3418 V1   90.0444
239 943484089 SS MW 29BC 728     N   735382.065 E    819558.357 Z    37.364
240 943484090 SS MW 30BC 728     D     1181.900 Hz     178.3814 V1   90.0410
241 943484090 SS MW 30BC 728     N   735369.467 E    819606.724 Z    37.597
242 943484091 SS MW 28BC 728     D     1034.560 Hz     180.5016 V1   90.0433
243 943484091 SS MW 28BC 728     N   735495.556 E    819693.988 Z    37.654
244 943484092 SS MW 27BC 728     D      528.710 Hz     182.2739 V1   90.0723
245 943484092 SS MW 27BC 728     N   735819.595 E    820083.002 Z    37.871
246 Stat. on occupied pt
247 94348 509 TR TP 509  PK      D      816.100 Hz       0.0000 V1   89.5934
248 94348 509 TR TP 509  PK      dl      -0.023 dg       0.000
249 94348 510 TR TP 510  60D     N   736646.788 E    821142.944 Z    37.471
250 94348 510 TR TP 510  60D     m     1.000020 Om     231.0349 ih    5.550
251 Sideshots
252 943484093 SS HA HA89 728     D      480.110 Hz       5.1215 V1   89.5844
253 943484093 SS HA HA89 728     N   736380.171 E    820743.657 Z    38.363
254 Hoffman & Co. Inc.
255 MONITOR WELL LOCATION
256 JOB NO.: 94348
257 Date:08 SEPT 95
258 Project Name:HUNTER A.A.F.
259 Client:M&E
260 Weather: RAIN 80DEG
261 94348 504 TR TP 504  60D     N   737941.417 E    819032.123 Z    37.767
262 94348 505 TR TP 505  60D     N   737668.118 E    819518.355 Z    36.727
263 94348 506 TR TP 506  60D     N   737054.646 E    819246.841 Z    37.354
264 Stat. on occupied pt
265 94348 504 TR TP 504  60D     D      557.790 Hz       0.0000 V1   89.5901
266 94348 504 TR TP 504  60D     dl      -0.025 dg       0.000
267 94348 505 TR TP 505  60D     N   737668.118 E    819518.355 Z    36.727
268 94348 505 TR TP 505  60D     m     1.000020 Om     299.2021 ih    5.730
269 Sideshots
270 943484094 SS MW 15BC 728     D      543.940 Hz     359.3730 V1   89.5914
271 943484094 SS MW 15BC 728     N   737931.534 E    819042.440 Z    37.744
272 943484095 SS MW 16BC 728     D      122.190 Hz     243.0416 V1   90.4827
273 943484095 SS MW 16BC 728     N   737546.046 E    819513.217 Z    35.895
274 943484096 SS MW 18BC 728     D      499.120 Hz     253.4602 V1   90.0151
275 943484096 SS MW 18BC 728     N   737181.990 E    819405.172 Z    37.354
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 1 Hoffman & Co. Inc.
 2 MONITOR WELL LOCATION
 3 JOB NO.: 94348
 4 Date:06 SEPT 95
 5 Project Name:HUNTER A.A.F.
 6 Client:M&E
 7 Weather: RAIN 80DEG
 8 943481005 TR TP.1005 5/8RB   N    739481.860 E    819451.190 Z    21.700
 9 943483203 SS SPUR 2  60D     N    739863.387 E    819684.087 Z    18.875
10 943481004 TP TP.1004 5/8RB   N    739005.420 E    819294.000 Z    33.930
11 94348 512 TP TP.512  60D     N    737584.713 E    820361.282 Z    37.501
12 94348 513 TP TP.513  60D     N    738227.910 E    820395.169 Z    34.631
13 94348 514 TP TP.514  60D     N    739043.695 E    820626.727 Z    23.761
14 Stat. on occupied pt
15 943481005 TR TP.1005 5/8RB   D      136.244 Hz       0.0000 V1  89.3842
16 943482000 SS SPUR 1  60D     N    738356.516 E    819155.216 Z    37.361
17 Stat. on occupied pt
18 943481005 TR TP.1005 5/8RB   D      446.980 Hz     359.5958 V1  89.3838
19 943481004 TP TP.1004 5/8RB   D      446.980 Hz       0.0000 V1  89.3838
20 Stat. on occupied pt
21 943481004 TP TP.1004 5/8RB   D      446.970 Hz     359.5953 V1  89.3838
22 Stat. on occupied pt
23 943481005 TR TP.1005 5/8RB   D      446.980 Hz     359.5950 V1  89.3841
24 943481005 TR TP.1005 5/8RB   dl       0.014 dq       0.000
25 943483203 SS SPUR 2  60D     N    739863.387 E    819684.087 Z    18.875
26 943483203 SS SPUR 2  60D     m      1.000020 Om     211.2415 ih     5.630
27 Sideshots
28 943484000 SS MW 3 BC 710     D       44.300 Hz     338.2202 V1  90.5726
29 943484000 SS MW 3 BC 710     N    739819.735 E    819676.569 Z    18.925
30 943484001 SS MW 3 GC 710     D       42.850 Hz     339.4146 V1  91.1554
31 943484001 SS MW 3 GC 710     N    739821.348 E    819675.839 Z    18.719
32 943484002 SS MW 1 BC 710     D      176.290 Hz      72.0557 V1  90.2129
33 943484002 SS MW 1 BC 710     N    739904.551 E    819512.670 Z    18.564
34 943484003 SS MW 1 GC 710     D      176.190 Hz      72.3922 V1  90.2505
35 943484003 SS MW 1 GC 710     N    739906.191 E    819513.177 Z    18.380
36 943484004 SS MW 2 BC 710     D      121.030 Hz      85.1931 V1  90.2938
37 943484004 SS MW 2 BC 710     N    739917.823 E    819575.992 Z    18.622
38 943484005 SS MW 2 GC 710     D      121.090 Hz      86.0113 V1  90.3714
39 943484005 SS MW 2 GC 710     N    739919.156 E    819576.609 Z    18.354
40 943484006 SS MW 14BC 728     D      327.260 Hz     141.2043 V1  90.0517
41 943484006 SS MW 14BC 728     N    740188.036 E    819642.783 Z    19.164
42 943484007 SS MW 14GC 728     D      328.790 Hz     141.1952 V1  90.0704
43 943484007 SS MW 14GC 728     N    740189.543 E    819642.509 Z    18.991
44 943484008 SS MW 13BC 728     D       91.880 Hz     127.0327 V1  90.2824
45 943484008 SS MW 13BC 728     N    739948.850 E    819650.356 Z    18.906
46 943484009 SS MW 13GC 728     D       92.930 Hz     127.2330 V1  90.3408
47 943484009 SS MW 13GC 728     N    739950.023 E    819650.476 Z    18.742
48 943484010 SS MW 11BC 728     D      153.530 Hz     163.2826 V1  90.0501
49 943484010 SS MW 11BC 728     N    740011.773 E    819723.508 Z    19.441
50 943484011 SS MW 11GC 728     D      154.620 Hz     163.2433 V1  90.0844
51 943484011 SS MW 11GC 728     N    740012.871 E    819723.619 Z    19.273
52 943484012 SS MW 10BC 728     D      231.780 Hz     173.4308 V1  90.0053
53 943484012 SS MW 10BC 728     N    740073.244 E    819782.494 Z    19.607
54 943484013 SS MW 10GC 728     D      232.820 Hz     173.4145 V1  90.0342
55 943484013 SS MW 10GC 728     N    740074.226 E    819782.851 Z    19.416
56 943484014 SS MW 9 BC 728     D      257.820 Hz     205.4832 V1  89.4556
57 943484014 SS MW 9 BC 728     N    740003.003 E    819900.836 Z    20.721
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58	943484015	SS	MW 9 GC 728	D	258.780	Hz	205.4215	V1	89.4821
59	943484015	SS	MW 9 GC 728	N	740003.920	E	819901.387	Z	20.543
60	943484016	SS	MW 5 BC 728	D	349.170	Hz	232.1928	V1	89.4846
61	943484016	SS	MW 5 BC 728	N	739901.531	E	820031.172	Z	20.808
62	943484017	SS	MW 5 GC 728	D	349.120	Hz	232.0711	V1	89.4934
63	943484017	SS	MW 5 GC 728	N	739902.765	E	820030.985	Z	20.727
64	943484018	SS	MW 3 BC 728	D	376.600	Hz	250.4451	V1	89.4551
65	943484018	SS	MW 3 BC 728	N	739784.112	E	820052.253	Z	21.218
66	943484019	SS	MW 3 GC 728	D	376.040	Hz	250.3510	V1	89.4717
67	943484019	SS	MW 3 GC 728	N	739785.266	E	820051.928	Z	21.059
68	943484020	SS	MW 12BC 728	D	143.880	Hz	274.2228	V1	90.1735
69	943484020	SS	MW 12BC 728	N	739779.266	E	819800.815	Z	18.930
70	943484021	SS	MW 12GC 728	D	143.280	Hz	273.5514	V1	90.2125
71	943484021	SS	MW 12GC 728	N	739780.541	E	819800.988	Z	18.773
72	943484022	SS	MW 8 BC 728	D	184.330	Hz	217.1620	V1	90.0008
73	943484022	SS	MW 8 BC 728	N	739930.417	E	819855.801	Z	19.659
74	943484023	SS	MW 8 GC 728	D	184.570	Hz	216.5319	V1	90.0019
75	943484023	SS	MW 8 GC 728	N	739931.654	E	819855.572	Z	19.649
76	943484024	SS	MW 6 BC 728	D	255.850	Hz	238.1917	V1	89.4932
77	943484024	SS	MW 6 BC 728	N	739864.613	E	819939.938	Z	20.445
78	943484025	SS	MW 6 GC 728	D	255.150	Hz	238.0531	V1	89.4940
79	943484025	SS	MW 6 GC 728	N	739865.631	E	819939.231	Z	20.433
80	943484026	SS	CPC.1	D	183.880	Hz	157.0151	V1	90.3132
81	943484026	SS	CPC.1	N	740045.274	E	819711.059	Z	17.979
82	943484027	SS	CPC.1	D	183.380	Hz	158.0714	V1	90.3103
83	943484027	SS	CPC.1	N	740044.235	E	819714.431	Z	18.009
84	943484028	SS	CPC.1	D	170.430	Hz	157.3256	V1	90.2425
85	943484028	SS	CPC.1	N	740031.740	E	819710.610	Z	18.455
86	943484029	SS	CPC+.1	D	170.570	Hz	156.1348	V1	90.2228
87	943484029	SS	CPC+.1	N	740032.445	E	819706.747	Z	18.551
88	943484030	SS	CPC.2	D	283.300	Hz	216.1233	V1	89.5708
89	943484030	SS	CPC.2	N	739971.286	E	819946.041	Z	19.903
90	943484031	SS	CPC.2	D	286.440	Hz	216.4015	V1	89.5648
91	943484031	SS	CPC.2	N	739970.344	E	819949.815	Z	19.933
92	943484032	SS	CPC.2	D	274.990	Hz	219.5656	V1	89.5705
93	943484032	SS	CPC.2	N	739951.313	E	819944.647	Z	19.900
94	943484033	SS	CPC+.2	D	271.980	Hz	219.3450	V1	89.5635
95	943484033	SS	CPC+.2	N	739952.006	E	819941.230	Z	19.937
96	943484034	SS	MW 4 BC 728	D	283.580	Hz	272.5823	V1	90.0514
97	943484034	SS	MW 4 BC 728	N	739703.264	E	819918.141	Z	19.235
98	943484035	SS	MW 4 GC 728	D	282.950	Hz	272.5231	V1	90.0636
99	943484035	SS	MW 4 GC 728	N	739704.019	E	819917.893	Z	19.123
100	943484036	SS	MW 7 BC 728	D	233.620	Hz	282.2428	V1	90.0016
101	943484036	SS	MW 7 BC 728	N	739701.650	E	819852.675	Z	19.648
102	943484037	SS	MW 7 GC 728	D	232.830	Hz	282.1358	V1	90.0124
103	943484037	SS	MW 7 GC 728	N	739702.711	E	819852.596	Z	19.571
104	943484038	SS	MW 6 BC 710	D	307.590	Hz	321.5322	V1	89.5036
105	943484038	SS	MW 6 BC 710	N	739557.897	E	819720.009	Z	20.508
106	943484039	SS	MW 6 GC 710	D	306.220	Hz	321.5427	V1	89.5243
107	943484039	SS	MW 6 GC 710	N	739559.246	E	819719.753	Z	20.316
108	943484040	SS	MW 5 BC 710	D	204.930	Hz	331.4009	V1	90.0828
109	943484040	SS	MW 5 BC 710	N	739658.748	E	819673.100	Z	19.161
110	943484041	SS	MW 5 GC 710	D	203.350	Hz	331.4703	V1	90.1318
111	943484041	SS	MW 5 GC 710	N	739660.349	E	819672.777	Z	18.879
112	943484042	SS	MW 4 BC 710	D	132.710	Hz	16.5532	V1	90.1916
113	943484042	SS	MW 4 BC 710	N	739775.155	E	819584.955	Z	18.922
114	943484043	SS	MW 4 GC 710	D	131.670	Hz	17.3017	V1	90.2415

MONITORING WELLS - AREA 728

MONITOR WELL	N - COORD	E - COORD	TOC EL	BOC EL	GROUND EL.
728-MW-1	739557.766	820130.777	19.20	19.5	19.5
728-MW-2	739696.226	820127.730	20.51	20.8	20.8
728-MW-3	739784.112	820052.253	20.80	21.2	21.1
728-MW-4	739703.264	819918.141	18.74	19.2	19.1
728-MW-5	739901.531	820031.172	20.37	20.8	20.7
728-MW-6	739864.613	819939.938	20.02	20.4	20.4
728-MW-7	739701.650	819852.675	19.17	19.6	19.6
728-MW-8	739930.417	819855.801	19.17	19.7	19.6
728-MW-9	740003.003	819900.836	20.27	20.7	20.5
728-MW-10	740073.244	819782.494	19.11	19.6	19.4
728-MW-11	740011.773	819723.508	18.89	19.4	19.3
728-MW-12	739779.266	819800.815	18.51	18.9	18.8
728-MW-13	739948.850	819650.356	18.39	18.9	18.7
728-MW-14	740188.036	819642.783	18.76	19.2	19.0
728-MW-15	737931.534	819042.440	37.29	37.7	37.7
728-MW-16	737546.046	819513.217	35.43	35.9	35.9
728-MW-17	737575.688	819877.198	36.49	36.9	36.9
728-MW-18	737181.990	819405.172	36.91	37.4	37.4
728-MW-19	738442.069	820372.857	33.02	33.5	33.3
728-MW-20	737842.747	820191.364	37.36	38.0	37.9
728-MW-21	736775.538	821230.374	35.60	36.1	36.1
728-MW-22	736769.854	821293.619	32.22	32.7	32.7
728-MW-23	736703.521	821334.962	31.75	32.2	32.1
728-MW-24	736526.480	821194.684	37.26	37.8	37.7
728-MW-25	736437.557	820809.572	37.98	38.5	38.5
728-MW-26	736373.942	820741.092	37.98	38.4	38.4
728-MW-27	735819.595	820083.002	37.50	37.9	37.9
728-MW-28	735495.556	819693.988	37.23	37.6	37.6
728-MW-29	735382.065	819558.357	36.95	37.4	37.4
728-MW-30	735369.467	819606.724	37.25	37.6	37.6

MONITORING WELLS - AREA 133

MONITOR WELLS	N- COORD	E - COORD	TOC EL	BOC EL	GROUND EL.
133-MW-1	738760.289	820777.947	23.99	24.5	24.3
133-MW-2	739016.696	820667.444	23.18	23.7	23.6
133-MW-3	739220.279	820739.340	22.1	22.6	22.6
133-MW-4	739195.386	820631.987	23.43	23.9	23.8
133-MW-5	739246.156	820656.804	23.37	23.8	23.6
133-MW-6	739268.846	820580.949	22.13	22.6	22.5
133-MW-PX1	739115.598	820716.512	25.51	23.4	23.4
133-MW-PX8	738920.103	820660.789	23.19	23.6	23.4
133-MW-PX6	738871.443	820839.535	24.51	24.9	24.6
133-MW-PX15	739120.600	820807.226	22.74	23.1	23.0
SW-SW2/SE2	738870.725	821108.327	18.318		
SW-SW1/SE1	739094.021	820800.876	15.707		

MONITORING WELLS - AREA 710

MONITOR WELL	N - COORD	E - COORD	TOC EL	BOC EL	GROUND EL
710-MW-1	739904.551	819512.670	18.03	18.6	18.4
710-MW-2	739917.823	819575.992	18.06	18.6	18.4
710-MW-3	739819.735	819676.569	18.44	18.9	18.7
710-MW-4	739775.155	819584.955	18.36	18.9	18.7
710-MW-5	739658.748	819673.100	18.46	19.2	18.9
710-MW-6	739557.897	819720.009	19.99	20.5	20.3

APPENDIX F

MONITORING WELL DEVELOPMENT SHEETS

WELL DEVELOPMENT SUMMARY

All monitoring wells were developed using the same basic procedures described herein. A decontaminated surge block was used to surge the well after the water level was measured. The surge block consisted of 1-inch PVC pipe connected to a bottom end cap that contained three teflon disks which have an outer diameter of 2 inches. The surge block was firmly lowered and raised the length of the water column repeatedly up to 10 times. Following surging, the well was pumped until the next surge episode. Each individual well development form presented in this appendix shows how often wells were surged and the gallons removed during development.

016602/develop

MONITORING WELL DEVELOPMENT

Well I.D. No.: H 710 - MW 1

Date: 8/19/95

Logged By: D. Humphris

Method of Development: 12v DC Whale Pump

Static Water Level: 5.8' bgs

TD = 13.3

5 vol = 50 gal

Sample No.	Time 1205	PARAMETERS: Temp (°F)	pH	Cond'y (umhos)	Turbidity (NTU)	Pumping Rate (gpm)	Volume Pumped (gal)	Photo Taken	OBSERVATIONS
1	1215	86.0	5.47	520	-NA-	1.5	10		Surge, pump 10, Surge
2	1225	84.6	5.42	474		"	20		surge@20, DK Grey Color
3	1236	85.7	5.34	470		"	30		Surge@30, v. little sediment
4	1247	85.7	5.26	460		"	40		
5	1254	84.2	5.23	457		"	50		clearing
6	1305	84.6	5.16	457		"	70	✓	fairly clear,

Total Development Time: 1:00

Total Volume Purged: 70 gal

Comments:

MONITORING WELL DEVELOPMENT

Well I.D. No.: H 710 - MW 2

Date: 8/10/95

Logged By: D. Humphris

Method of Development: 12v DC Whale Pump

Static Water Level: 5.8' bgs

TD = 13.6

5 vol = 52 gal

Sample No.	Time 0725	PARAMETERS: Temp (°F)	pH	Cond'y (umhos)	Turbidity (NTU)	Pumping Rate (gpm)	Volume Pumped (gal)	Photo Taken	OBSERVATIONS
1	0744	79.7	6.57	328	-NA-	1.5	20		surge, pump 10, surge @ 10, 20
2	0754	79.3	6.18	342		"	30		surge @ 30
3	0801	79.1	6.29	346		"	40		
4	0812	79.2	6.29	363		"	50		clearing
5	0818	79.4	6.20	369		"	60		clearing
6	0824	79.3	6.21	368		"	75		OVA in well 120, in jar headspace
									110 ppm. HC odor.
7	0827	—	—	—			80	X	fairly clear, sl. br. tint.

Total Development Time: 1:02

Total Volume Purged: 80 gal

Comments: HC odor - OVA 120 ppm in well.

MONITORING WELL DEVELOPMENT

Well I.D. No.: H710 - MW3

Date: 8/20/95

Logged By: D. Humphrey

Method of Development: 12v DC Whale Pump

Static Water Level: 4.6' bgs

TD = 13.0

500l = 56 gal

Sample No.	Time 1405	PARAMETERS Temp (°F)	pH	Cond'y (umhos)	Turbidity (NTU)	Pumping Rate (gpm)	Volume Pumped (gal)	Photo Taken	OBSERVATIONS
1	1420	81.9	6.35	852	-NA-	1.5	10		Surge @ 0, 10 ; DIC Gray Color
2	1432	79.7	6.07	304	-	"	20		surge @ 20 , clearing
3	1444	79.1	5.63	280		"	35		surge @ 35
4	1458	79.4	5.66	276		"	50		clearing
5	1505	79.1	5.62	269		"	65	Y	fairly clear to clear
—	—	—	—	—					

Total Development Time: 1:00

Total Volume Purged: 65 gal

Comments:

OVA - 500 in well

MONITORING WELL DEVELOPMENT

Well I.D. No.: #710-MW4

Date: 8/21/95

Logged By: D. Humphs

Method of Development: 12v DC Whale Pump

Static Water Level: ~~4.4~~ 'bgs

TD = 12.9

5 vol = ~~53~~ 57 gal

Sample No.	Time 1033	PARAMETERS Temp (°C)	pH	Cond'y (umhos)	Turbidity (NTU)	Pumping Rate (gpm)	Volume Pumped (gal)	Photo Taken	OBSERVATIONS
1	1041	82.3	6.78	503		1.5	10		Surge @ 0, 10, 30
2	1054	83.2	6.52	500		"	30		
3	1108	82.3	6.52	469		"	45		Surge @ 45
4	1122	81.0	6.47	454			60		clearing
5	1132	80.3	6.50	431			75	Y	clear.

Total Development Time: 1:00

Total Volume Purged: 75 gal

Comments: Sheen on water

OVA - 800 ppm in well

MONITORING WELL DEVELOPMENT

Well I.D. No.: H710 - MW 5

Date: 8/19/95

Logged By: D. Humphus

Method of Development: 12v DC Whale Pump

Static Water Level: 3.5 ' bgs

TD = 13.7

5 vol = 68 gal

Sample No.	Time	PARAMETERS				Pumping Rate (gpm)	Volume Pumped (gal)	Photo Taken	OBSERVATIONS
		Temp (°F)	pH	Cond'y (umhos)	Turbidity (NTU)				
1	0825	78.2	6.28	152.8	-NA-	1.5	10		surge, pump 10, surge
2	0839	77.2	5.26	133.5		"	25		surge @ 25
3	0847	77.3	5.39	132.2		"	40		surge @ 40
4	0857	77.1	5.56	131.4		"	50		surge @ 50, clearing
5	0908	77.1	5.63	124.9		"	60		
6	0921	77.7	5.55	121.1		"	75		
7	0935	77.7	5.56	118.9		"	100	Y	No silt, sl. br color

Total Development Time: 1:15 min

Total Volume Purged: 100 gal

Comments: No silt, sl. brown color

MONITORING WELL DEVELOPMENT

Well I.D. No.: H710 - MW6

Date: 8/19/95

Logged By: D. Humphris

Method of Development: 12 V DC Whale Pump

Static Water Level: 3.8' bgs

TD = 13.1

5 vol = 62 gals

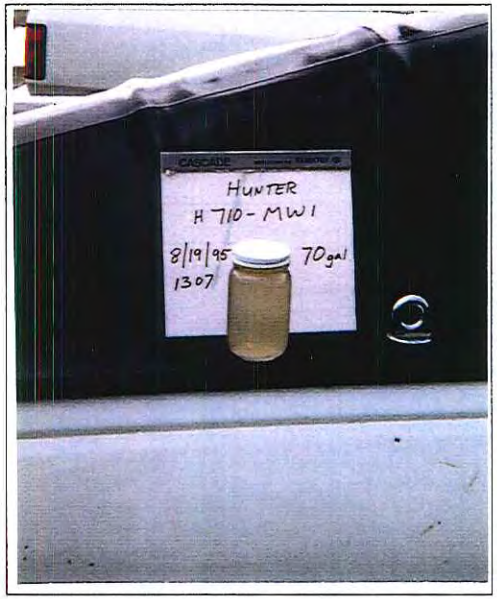
Sample No.	Time 0955	PARAMETERS: Temp (°F)	pH	Cond'y (umhos)	Turbidity (NTU)	Pumping Rate (gpm)	Volume Pumped (gal)	Photo Taken	OBSERVATIONS
1	1018	80.7	5.41	109.7	- NA -	1.5	15		Surge, pump 15, Surge
2	1024	80.0	5.16	109.7		"	25		surge @ 25, 35,
3	1036	80.3	5.07	105.4		"	40		Dk Br color, v. turbid.
4	1043	79.7	5.14	100.7		"	50		surge @ 50
5	1053	80.1	5.29	97.6		"	60		no change
6	1108	80.0	5.30	92.9		"	75		no change
7	1123	80.2	5.30	90.6			100		slight clearing, dk br color to med
8	1139	80.4	5.26	89.9			125	Y	No real change in color
	END								from 50 gal, no silt
									settling out.

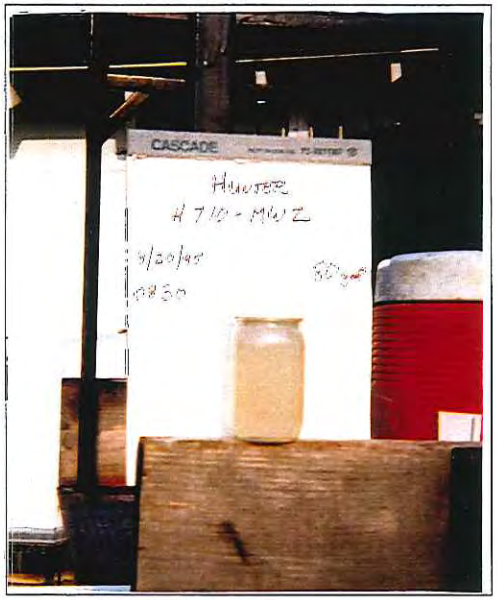
Total Development Time: 1:40

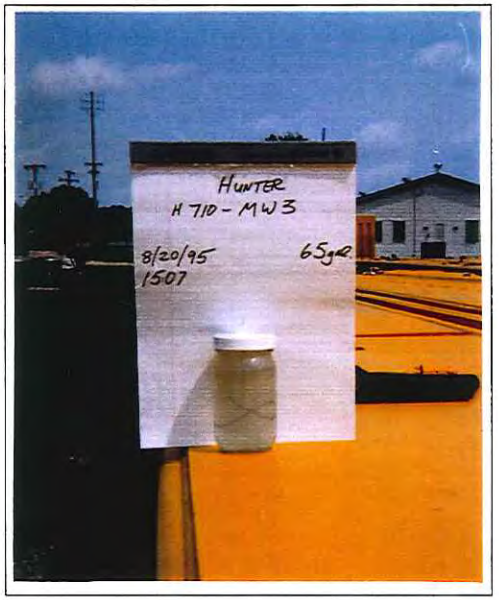
Total Volume Purged: 125 gal

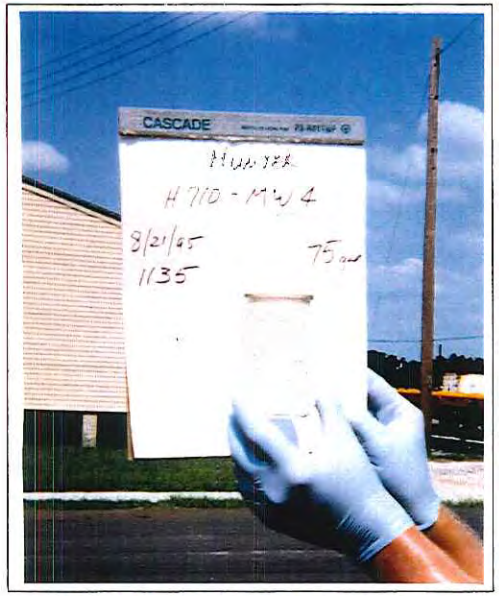
Comments:

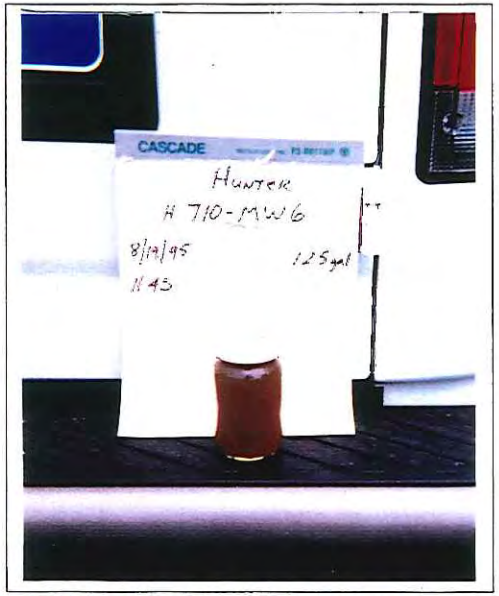
H_2S odor









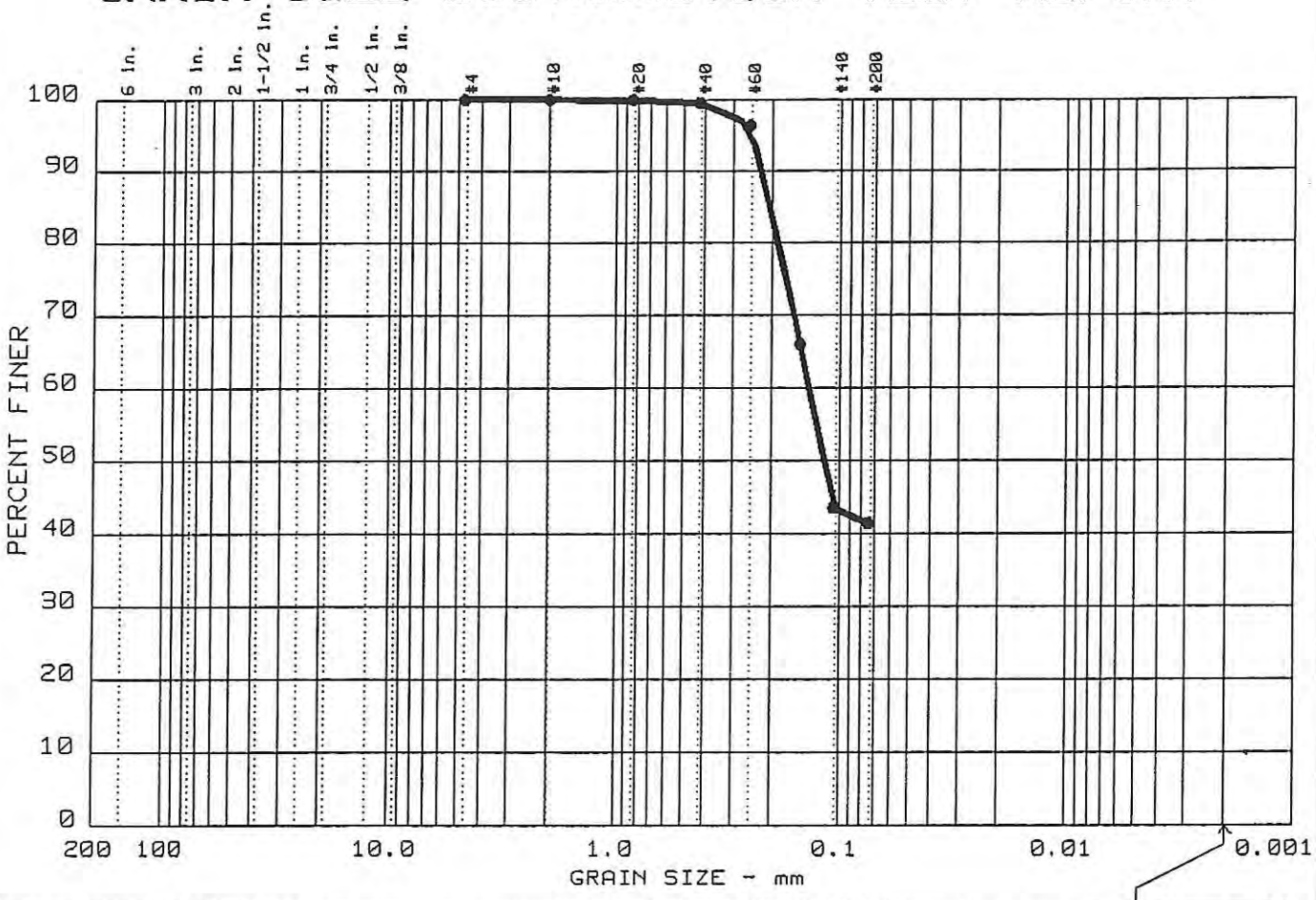


MONITORING WELL DEVELOPMENT PHOTOGRAPHS, BUILDING 710, HUNTER ARMY AIRFIELD

APPENDIX G

GEOTECHNICAL DATA

GRAIN SIZE DISTRIBUTION TEST REPORT



	Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
●	7	0.0	0.0	58.6	41.4	

	LL	PI	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
●	33	16	0.21	0.14	0.12					

	MATERIAL DESCRIPTION	USCS	AASHTO
●		SC	A-6

Project No.: 016602-4102
Project: HUNTER AIR FORCE BASE
● Location: H710-SB1, 5'- 7'

Date: 8-24-95

GRAIN SIZE DISTRIBUTION TEST REPORT

PROFESSIONAL SERVICE INDUSTRIES, INC.

Remarks:

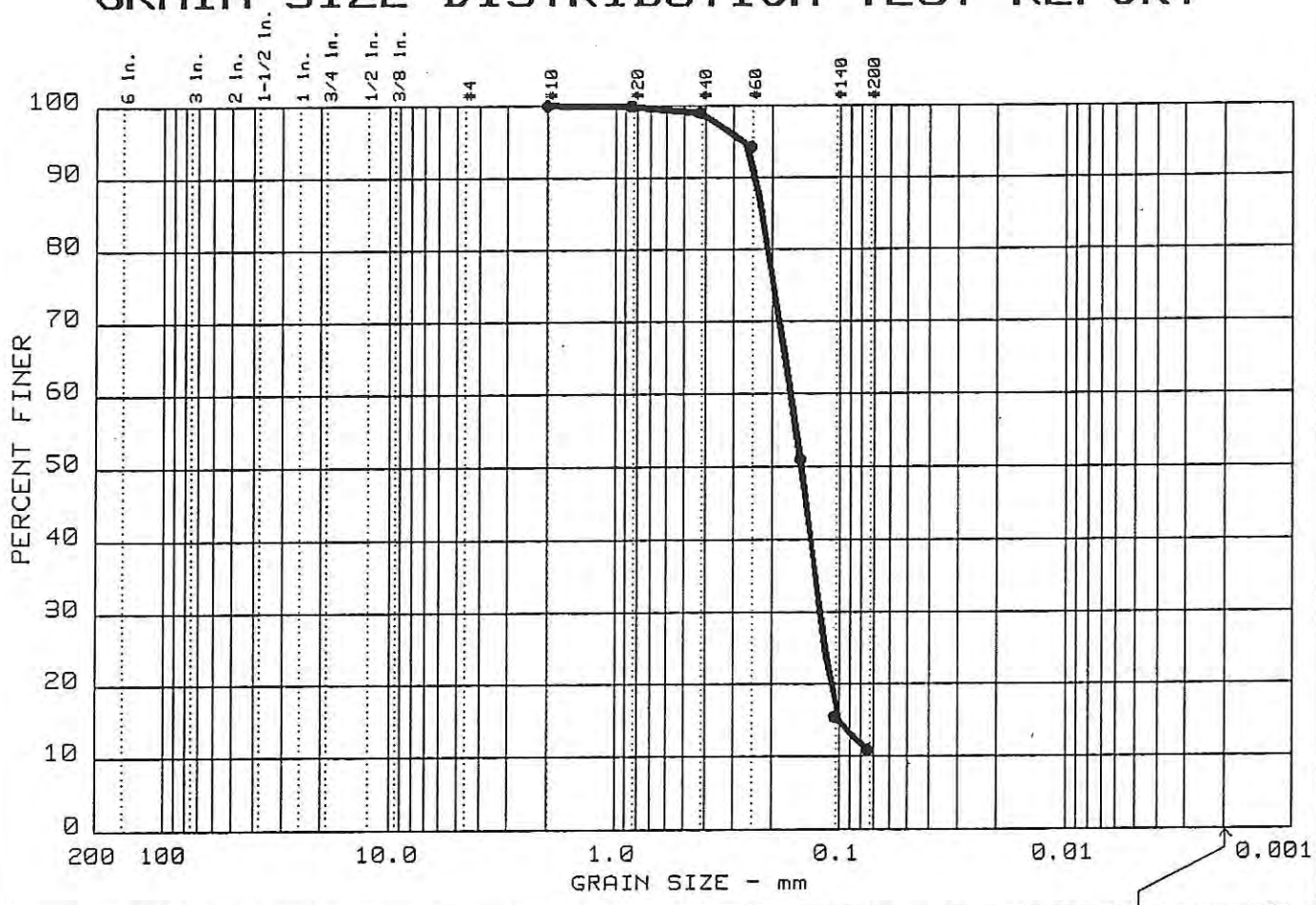
TESTED BY: A. WALSH

CHECKED BY: R. LALLE

NMC = 26.7%

Figure No. _____

GRAIN SIZE DISTRIBUTION TEST REPORT



	Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
●	8	0.0	0.0	89.1	10.9	

	LL	PI	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
●	NP	NP	0.22	0.17	0.15	0.122	0.1015			

	MATERIAL DESCRIPTION	USCS	AASHTO
●		SP-SM	A-2-4

Project No.: 016602-4102
Project: HUNTER AIR FORCE BASE
● Location: H710-SB2, 3'- 5'

Date: 8-24-95

Remarks:
TESTED BY: A. WALSH
CHECKED BY: R. LALLE

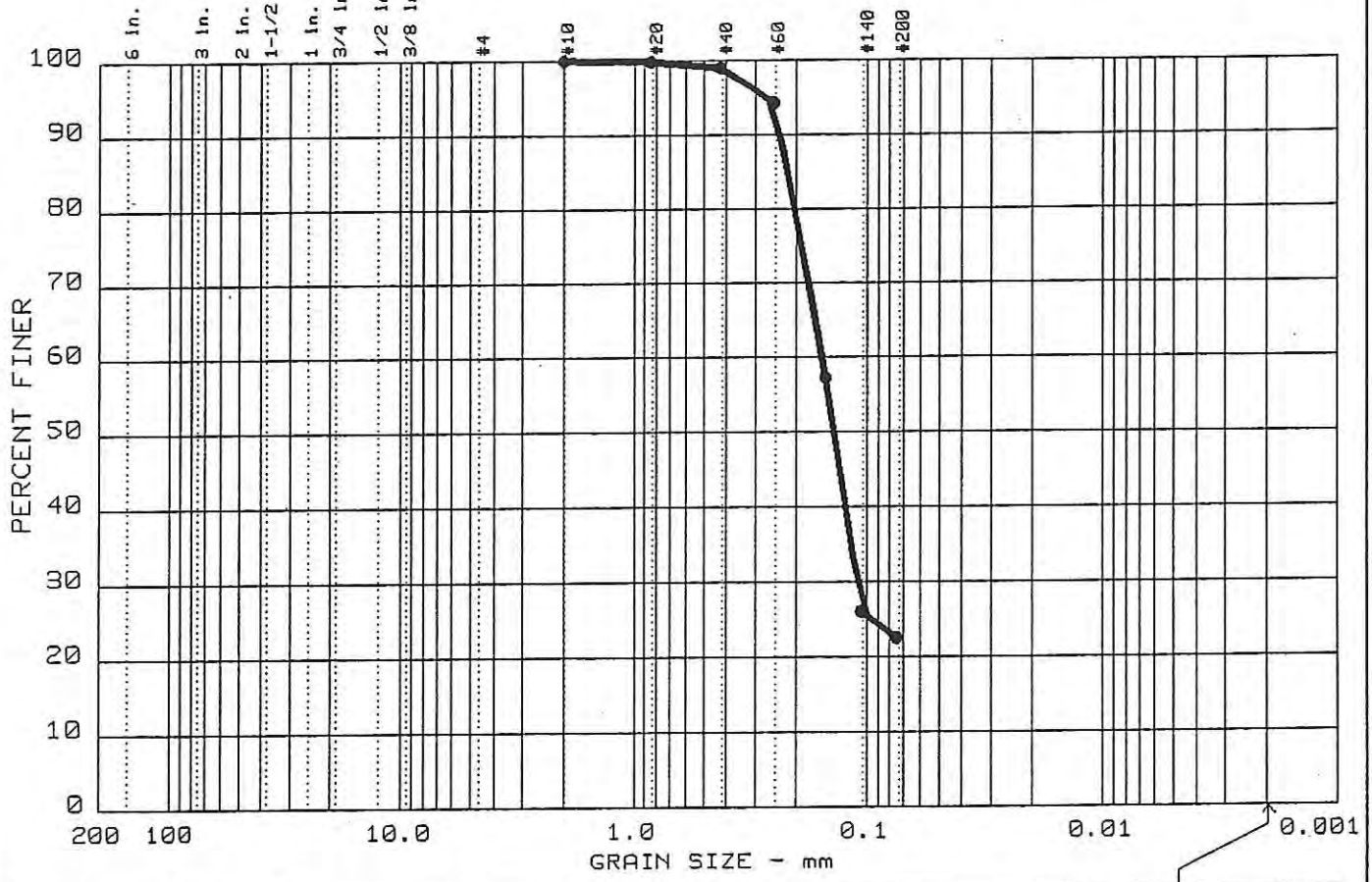
NMC = 16.0%

GRAIN SIZE DISTRIBUTION TEST REPORT

PROFESSIONAL SERVICE INDUSTRIES, INC.

Figure No. _____

GRAIN SIZE DISTRIBUTION TEST REPORT



	Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
●	9	0.0	0.0	77.4	22.6	

	LL	PI	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
●	NP	NP	0.22	0.16	0.14	0.111				

	MATERIAL DESCRIPTION	USCS	AASHTO
●		SM	A-2-4

Project No.: 016602-4102
Project: HUNTER AIR FORCE BASE
● Location: H710-SB3, 5'- 7'

Date: 8-24-95

Remarks:
TESTED BY: A. WALSH
CHECKED BY: R. LALLE

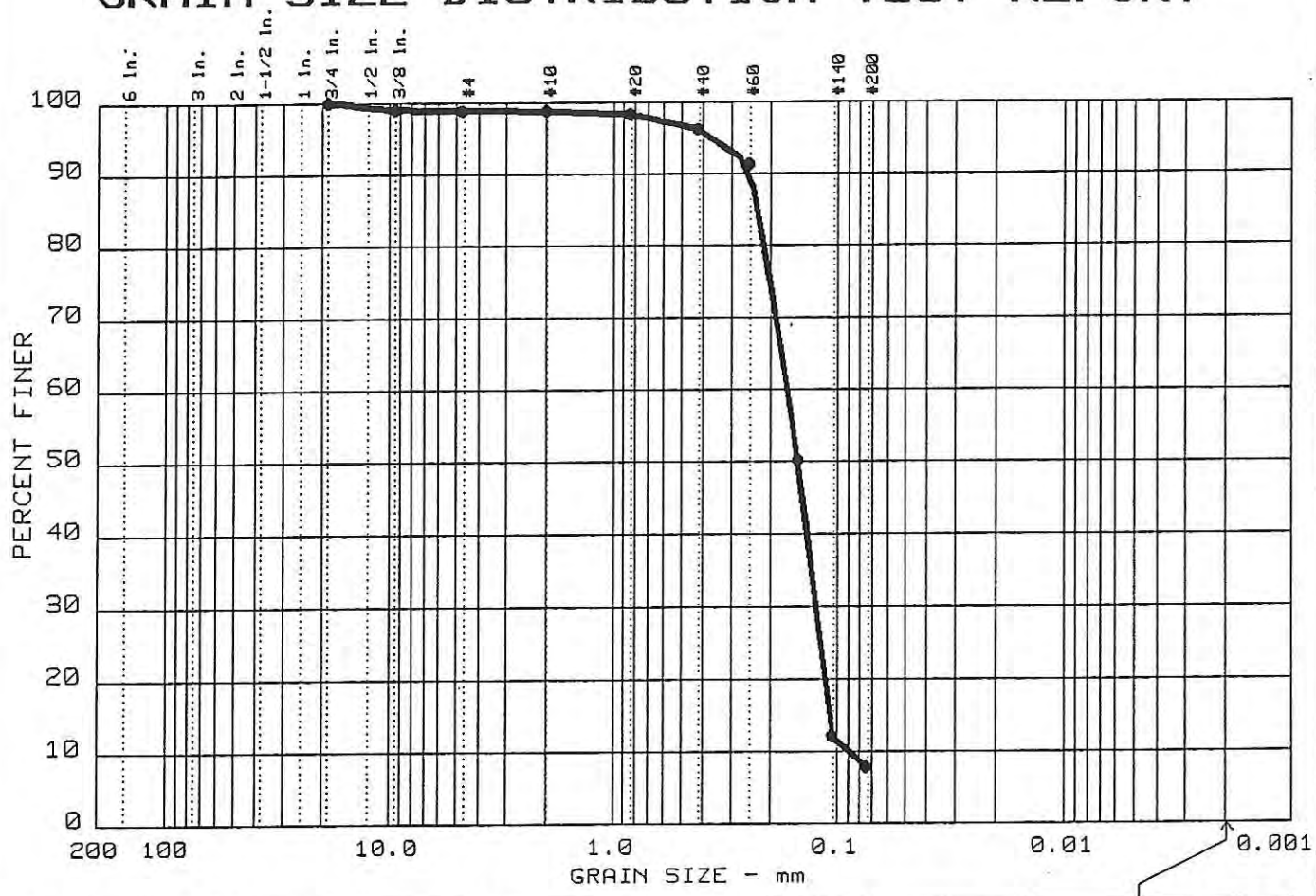
NMC = 20.1%

GRAIN SIZE DISTRIBUTION TEST REPORT

PROFESSIONAL SERVICE INDUSTRIES, INC.

Figure No. _____

GRAIN SIZE DISTRIBUTION TEST REPORT



	Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
●	10	0.0	1.1	90.9	8.0	

	LL	PI	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
●	NP	NP	0.23	0.17	0.15	0.125	0.1086	0.0883	1.05	1.9

	MATERIAL DESCRIPTION	USCS	AASHTO
●		SP-SM	A-3

Project No.: 016602-4102
Project: HUNTER AIR FORCE BASE
● Location: H710-SB4, 11'- 13'

Date: 8-24-95

Remarks:
TESTED BY: A. WALSH
CHECKED BY: R. LALLE

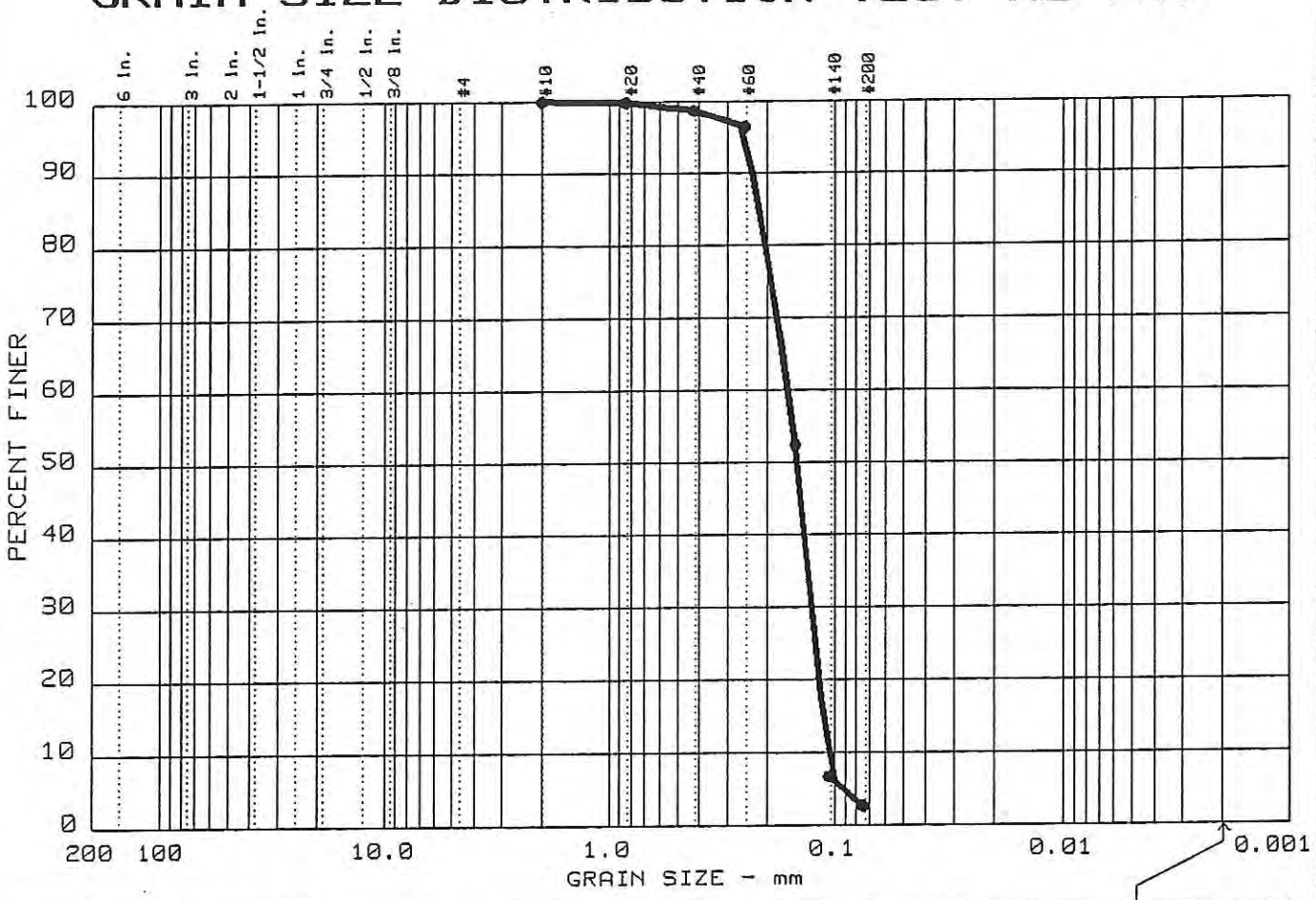
NMC = 29.0%

GRAIN SIZE DISTRIBUTION TEST REPORT

PROFESSIONAL SERVICE INDUSTRIES, INC.

Figure No. _____

GRAIN SIZE DISTRIBUTION TEST REPORT



	Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
●	11	0.0	0.0	97.2	2.8	

	LL	PI	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
●	NP	NP	0.22	0.16	0.15	0.126	0.1127	0.1086	0.91	1.5

	MATERIAL DESCRIPTION	USCS	AASHTO
●		SP	A-3

Project No.: 016602-4102
Project: HUNTER AIR FORCE BASE
● Location: H710-SB5, 9'- 11'

Date: 8-24-95

Remarks:
TESTED BY: A. WALSH
CHECKED BY: R. LALLE

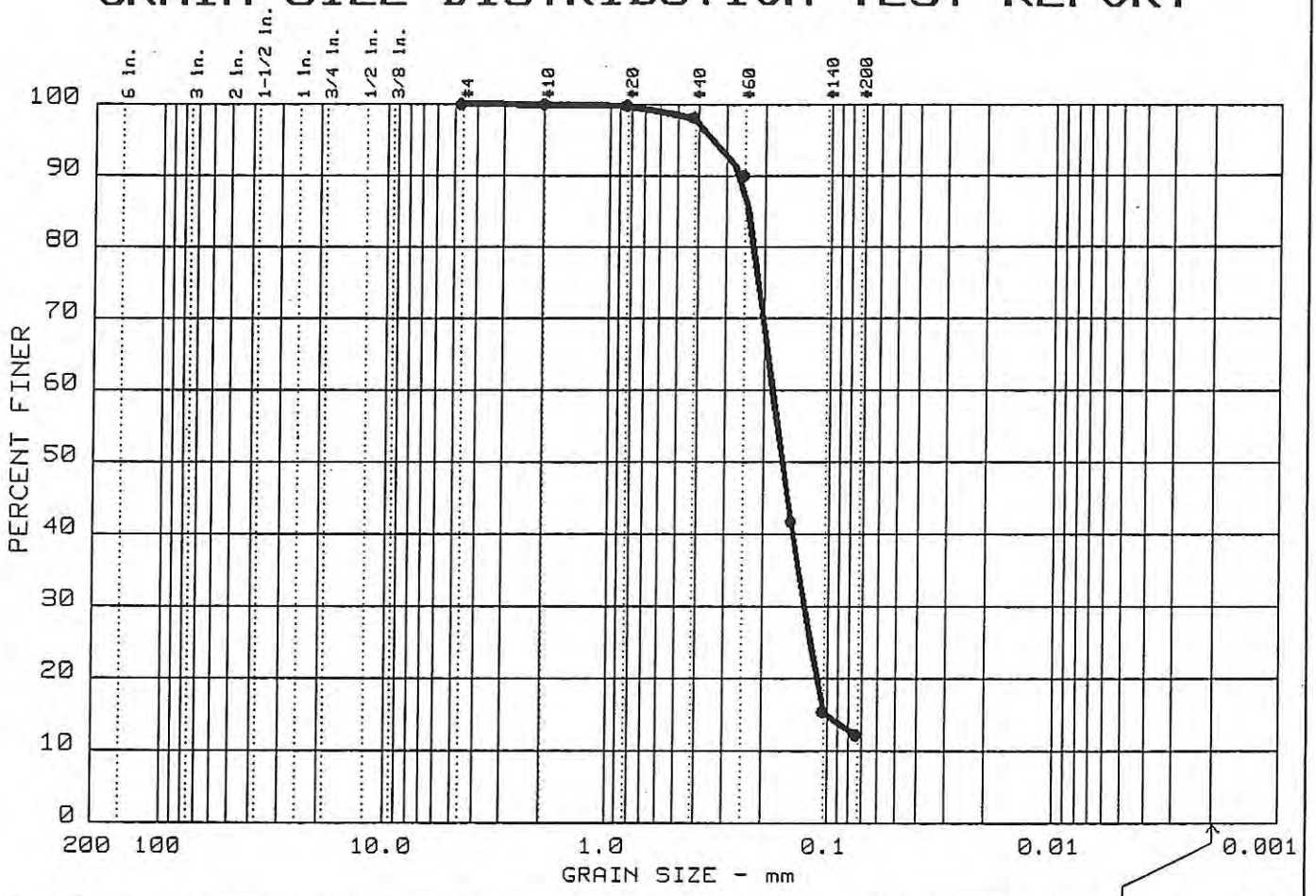
NMC = 24.5%

GRAIN SIZE DISTRIBUTION TEST REPORT

PROFESSIONAL SERVICE INDUSTRIES, INC.

Figure No. _____

GRAIN SIZE DISTRIBUTION TEST REPORT



	Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
●	12	0.0	0.0	87.7	12.3	

	LL	PI	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
●	NP	NP	0.24	0.18	0.16	0.128	0.1008			

MATERIAL DESCRIPTION	USCS	AASHTO
●	SM	A-2-4

Project No.: 016602-4102
Project: HUNTER AIR FORCE BASE
● Location: H710-SB6, 1'- 3'

Date: 8-24-95

GRAIN SIZE DISTRIBUTION TEST REPORT

PROFESSIONAL SERVICE INDUSTRIES, INC.

Remarks:

TESTED BY: A. WALSH

CHECKED BY: R. LALLE

NMC = 16.8%

Figure No. _____

APPENDIX H

QUALITY CONTROL SUMMARY REPORT AND ANALYTICAL DATA*

* The analytical data presented in this appendix is obtained from the Subcontractor Analytical Laboratory in a direct download from the laboratory LIMS System. The analytical data is loaded into M&E's analytical Database, printed in a specified format, validated and checked for accuracy against the hard copy report submitted by the Subcontractor Lab. M&E maintains the Original Analytical Report as part of the Project Files. A copy of the Original Analytical Report is available on request.

DATA VALIDATION SUMMARY REPORT

Hunter Army Airfield
Project #016602-4102
September 25, 1995

The following report summarizes the validation findings of the samples included in the SDG's below.

SDG#	*Date*	*Matrix*	*Samples*	*Field Duplicates*	*Trip Blanks*	*Equipment Blanks*
HAA01	06/13/95	SOIL	17	1	1	0
HAA02	06/14/95	SOIL	15	2	2	0
HAA03	06/17/95	SOIL	16	2	1	0
HAA04	06/19/95	SOIL	18	2	1	0
HAA05	06/20/95	SOIL	17	2	1	0
HAA06	06/21/95	SOIL	18	1	1	0
HAA07	06/22/95	SOIL	12	2	2	0
HAA08	06/27/95	SOIL	17	0	1	0
HAA09	07/31/95	WATER	4	1	1	1
HAA10	08/02/95	SOIL	16	1	2	0
HAA11	08/06/95	SOIL	17	2	1	0
HAA12	08/09/95	SOIL	10	3	1	0
HAA13	08/21/95	SOIL	4	0	0	0

Samples were analyzed by Savannah Laboratories - Tallahassee, using the following USEPA SW-846 Methods:

6010	ICP Metals
7000	GFAA Metals
8020	Purgeableable Organics
8015M	Gasoline Range Organics (GRO)
8100M	Diesel Range Organics (DRO)
8100	Polynuclear Aromatics
8270	Semivolatile Organics
418.1	Total Recoverable Petroleum Hydrocarbons (TRPH)

All samples were not analyzed by all methods. All soil sample results were reported on a dry weight basis.

All data received from Savannah Laboratories was analyzed in accordance with the DQO's required in the CDAP. Data was reviewed and validated under USEPA CLP National Functional Guidelines for Organic Review and Evaluating Inorganic Analyses.

1.0 VOLATILE ORGANIC COMPOUNDS - Data Validation Summary -

1.1 Holding Times

Holding times were met for all samples.
No errors were observed in transcription from raw data to the report.
No data qualifiers are applied.

1.2 Surrogate Recovery

The following samples exhibited surrogate recoveries below the QC limit. Detects are qualified as (J), non-detects as (UJ); H133-HA2, H133-HA9, H133-HA11, H133-HA12, H728-HA5, H728-HA13, H728-HA15, H728-HA16, H728-HA42, H728-HA43, H728-HA45, H728-HA47, H728-HA90, H728-HA98, H728-HA132, H728-SB12, and H728-SB13.
The following samples exhibited surrogate recoveries above the QC limit. Detects are qualified as (J), non-detects are not qualified; H728-HA46, H728-HA47, H728-HA126, H728-SB26, H710-SB2, and H710-SB3.
All other surrogate recoveries are within QC limits determined for each matrix.
No errors were observed in transcription from raw data to the report.
No errors were observed in calculation of the percent recoveries.

1.3 Field Duplicates

Sample/duplicate pairs H728-HA10/H728-HA111 and H728-HA125/H728-HA132 exhibited RPD's greater than the QC limit.
All other sample/duplicate pairs were either within QC limits, which indicate acceptable precision, or non-detects and no RPD calculations were required.
No errors were observed in transcription from raw data to the report.
No errors were observed in calculation of the RPDs.
No data qualifiers are applied.

1.4 Blanks

Method blanks were run at the appropriate frequency.
All blanks are free of contaminants.
No errors were observed in transcription from raw data to the report.
No data qualifiers are applied.

1.5 Matrix Spike/ Matrix Spike Duplicates

All MS/MSD samples were analyzed at the appropriate frequency.
HAA03 Batch - MS/MSD recoveries for Benzene are above the QC limit. Detects for associated samples are qualified as (J).
HAA04 Batch - MS/MSD recoveries for Benzene and Toluene are above the QC limit. Detects for associated samples are qualified as (J), non-detects are not qualified.
HAA06 Batch - MSD recovery for GRO is above the QC limit. Detects for associated samples are qualified as (J), non-detects are not qualified.
HAA07 Batch - MS/MSD recoveries for Benzene and Toluene are above the QC limit. Detects for associated samples are qualified as (J), non-detects are not qualified.
HAA11 Batch - The RPD for Benzene is above the QC limit, no qualifiers are applied.

All other MS/MSD recoveries are within QC limits and indicate acceptable accuracy.
All other RPDs are within the QC limit and indicate acceptable precision.
No errors were observed in transcription from raw data to the report.
No errors were observed in calculation of the percent recoveries and RPDs.

1.6 Detection Limits

All sample detection limits are adequate for the intended purposes.

1.7 Completeness

The amount of valid data obtained compared to the amount of data that was expected to be obtained is enough to achieve > 99% completeness.

1.8 Overall Assessment

The system performed to specifications in all areas of evaluation. Sample/duplicate precision indicates that these data are representative of field conditions. These data are useable for their intended purpose.

2.0 SEMIVOLATILE ORGANIC COMPOUNDS - Data Validation Summary -

2.1 Holding Times

Holding times were met for all samples.
No errors were observed in transcription from raw data to the report.
No data qualifiers are applied.

2.2 Surrogate Recovery

Sample H728-HA75 exhibited a surrogate recovery of 4.8%, less than the lower QC limit of 17% for 2-Fluorobiphenyl.
All other surrogate recoveries are within QC limits determined for each matrix.
No errors were observed in transcription from raw data to the report.
No errors were observed in calculation of the percent recoveries.
No data qualifiers are applied.

2.3 Field Duplicates

Sample/duplicate pairs H728-HA115/H728-HA51, H728-HA118/H728-HA79, H728-HA119/ H728-HA85, H728-HA102/H728-HA120, H728-HA125/H728-HA132 and H133-SB2/H133-SB7 exhibited RPD's greater than the QC limit.
All other sample/duplicate pairs are either within QC limits, which indicate acceptable precision, or non-detects and no RPD calculations are required.
No errors were observed in transcription from raw data to the report.
No data qualifiers are applied.

2.4 Blanks

Method blanks were run at the appropriate frequency.
No errors were observed in transcription from raw data to the report.
No data qualifiers are applied.

2.5 Matrix Spike/ Matrix Spike Duplicates

MS/MSD samples were analyzed at the appropriate frequency.
HAA05 Batch - The RPD for DRO is above the QC limit, no qualifiers are applied.
HAA06 Batch - MS/MSD recoveries for DRO are below the QC limit. Detects for associated samples are qualified as (J), non-detects as (UJ). Also, the RPD for DRO is above the QC limit.
HAA07 Batch - MSD recoveries for DRO, Acenaphthene, Benzo(a)pyrene, Fluorene, Naphthalene and Pyrene are above the QC limit. Detects are qualified as (J), non-detects are not qualified. Also, RPD's for DRO, Acenaphthene, Fluorene, Naphthalene and Pyrene are above QC limits.
All other MS/MSD recoveries are within QC limits and indicate acceptable accuracy.
All other RPDs are within QC limits and indicate acceptable precision.
No bias due to matrix interference is evident.
No errors were observed in transcription from raw data to the report.
No errors were observed in calculation of the percent recoveries and RPDs.

2.6 Detection Limits

All sample detection limits are adequate for the intended purposes.

2.7 Completeness

The amount of valid data obtained compared to the amount of data that was expected to be obtained is enough to achieve the goal of >90% completeness.

2.8 **Overall Assessment**

The system performed to specifications in all areas of evaluation. Sample/duplicate precision indicates that these data are representative of field conditions.
These data are useable for their intended purposes.

3.0 TOTAL PETROLEUM HYDROCARBONS - Data Validation Summary -

3.1 Holding Times

Holding times were met for all samples.
No errors were observed in transcription from raw data to the report.
No data qualifiers are applied.

3.3 Field Duplicates

Sample/duplicate pair H133-SB2/H133-SB7 exhibited an RPD greater than the QC limit.
All other sample/duplicate pairs are either within QC limits, which indicate acceptable precision, or non-detects and no RPD calculations are required.
No errors were observed in transcription from raw data to the report.
No data qualifiers are applied.

3.4 Matrix Spike / Matrix Spike Duplicates

MS/MSD samples were analyzed at the appropriate frequency.
HAA06 - Batch - MS/MSD recoveries for DRO and TPH are below the QC limit. Detects for associated samples are qualified as (J), non-detects as (UJ). Also, the RPD for DRO is above the QC limit.
All other MS/MSD recoveries are within QC limits and indicate acceptable accuracy.
All other RPDs are within QC limits and indicate acceptable precision.
No errors were observed in transcription from raw data to the report.
No errors were observed in calculation of the percent recoveries and RPDs.

3.5 Blanks

Method blanks were run at the appropriate frequency.
No errors were observed in transcription from raw data to the report.
No data qualifiers are applied.

3.6 Detection Limits

All sample detection limits are adequate for the intended purposes.

3.7 Completeness

The amount of valid data obtained compared to the amount of data that was expected to be obtained is enough to achieve the goal of >90% completeness.

3.8 Overall Assessment

The system performed to specifications in all areas of evaluation. Sample/duplicate precision indicates that these data are representative of field conditions.
These data are useable for their intended purposes.

4.0 INORGANIC COMPOUNDS - Data Validation Summary -

4.1 Holding Times

Holding times were met for all samples.
No errors were observed in transcription from raw data to the report.
No data qualifiers are applied.

4.2 Field Duplicates

Sample/duplicate pair H728-SB4/H728-SB50 exhibited RPD's greater than the QC limit for Barium and Chromium. Sample/duplicate pair H133-SB2/H133-SB7 exhibited RPD's greater than the QC limit for Barium, Chromium, Lead and Mercury.
All other RPD's are within QC limits and indicate acceptable precision.
No errors were observed in transcription from raw data to the report.
No errors were observed in calculation of the RPDs.
No data qualifiers are applied.

4.3 Blanks

Method blanks were run at the appropriate frequency.
No errors were observed in transcription from raw data to the report.
No data qualifiers are applied.

4.4 Matrix Spike / Matrix Spike Duplicates

MS/MSD samples were analyzed at the appropriate frequency.
Batch HAA03 - MS/MSD recoveries for Lead are well below QC limit. Detects for associated samples are qualified as (J), non-detects are rejected (R). Also, the RPD is above the QC limit.
MS/MSD recoveries for Selenium are below the QC limit. Detects for associated samples are qualified as (J), non-detects as (UJ).
Batch HAA06 - MSD recovery for Lead is below the QC limit. Detects for associated samples are qualified as (J), non-detects as (UJ). Also, the RPD is above the QC limit.
MS/MSD recoveries for Selenium is below the QC limit. Detects for associated samples are qualified as (J), non-detects as (UJ).
Batch HAA10 - MSD recovery for Selenium is below the QC limit. Detects for associated samples are qualified as (J), non-detects as (UJ).
Batch HAA11 - MSD recovery for Arsenic is below the QC limit. Detects for associated samples are qualified as (J), non-detects as (UJ).
MS/MSD recoveries for Chromium are above the QC limit. Detects for associated samples are qualified as (J), non-detects are not qualified.
MS recovery for Lead is above the QC limit. Detects for associated samples are qualified as (J), non-detects are not qualified. Also, The RPD is above the QC limit.
MS/MSD recoveries for Selenium are below the QC limit. Detects for associated samples are qualified as (J), non-detects as (UJ).
All other MS/MSD recoveries are within QC limits and indicate acceptable accuracy.
All other RPDs are within QC limits and indicate acceptable precision.
No errors were observed in transcription from raw data to the report.
No errors were observed in calculation of the percent recoveries and RPDs.

4.5 Detection Limits

All sample detection limits are adequate for the intended purposes.

4.6 Completeness

The amount of valid data obtained compared to the amount of data that was expected to be obtained is enough to achieve the goal of 90% completeness.

4.7 Overall Assessment

The system performed to specifications in all areas of evaluation. Sample/duplicate precision indicates that these data are representative of field conditions.
These data are useable for their intended purposes.

DATA VALIDATION SUMMARY REPORT

Hunter Army Airfield
Project #016602-4102
October 11, 1995

The following report summarizes the validation findings of the samples included in the SDG's below.

SDG#	*Date*	*Matrix*	*Samples*	*Field Duplicates*	*Trip Blanks*	*Equipment Blanks*
HAA14	09/06/95	WATER	18	1	1	0
HAA15	09/07/95	WATER	26	2	0	2
HAA16	09/07/95	WATER	22	3	2	2
HAA17	09/08/95	SEDIMENT	3	1	0	0

Samples were analyzed by Savannah Laboratories - Tallahassee, using the following USEPA SW-846 Methods:

6010	ICP Metals
7000	GFAA Metals
8020	Purgeableable Organics
8100	Polynuclear Aromatics

All samples were not analyzed by all methods. All soil sample results were reported on a dry weight basis.

All data received from Savannah Laboratories was analyzed in accordance with the DQO's required in the CDAP. Data was reviewed and validated under USEPA CLP National Functional Guidelines for Organic Review and Evaluating Inorganic Analyses.

Wayne Hyde

1.0 VOLATILE ORGANIC COMPOUNDS - Data Validation Summary -

1.1 Holding Times

Holding times were met for all samples.
No errors were observed in transcription from raw data to the report.
No data qualifiers are applied.

1.2 Surrogate Recovery

All surrogate recoveries are within QC limits determined for each matrix.
No errors were observed in transcription from raw data to the report.
No errors were observed in calculation of the percent recoveries.

1.3 Field Duplicates

Sample/duplicate pairs H133-SE1/H133-SE3, H133-SW1/H133-SE3 and H710-MW4/ H710-MW7 exhibited RPD's greater than the QC limit.
All other sample/duplicate pairs were either within QC limits, which indicate acceptable precision, or non-detects and no RPD calculations were required.
No errors were observed in transcription from raw data to the report.
No errors were observed in calculation of the RPDs.
No data qualifiers are applied.

1.4 Blanks

Method blanks were run at the appropriate frequency.
All blanks are free of contaminants.
No errors were observed in transcription from raw data to the report.
No data qualifiers are applied.

1.5 Matrix Spike/ Matrix Spike Duplicates

All MS/MSD samples were analyzed at the appropriate frequency.
HAA17 Batch - MSD recovery for Benzene was above the QC limit. Detects for associated samples are qualified as (J), non-detects are not qualified. MS recovery for GRO was below the QC limit. Detects fot associated samples are qualified as (J), non-detects as (UJ).
All other MS/MSD recoveries are within QC limits and indicate acceptable accuracy.
All other RPDs are within the QC limit and indicate acceptable precision.
No errors were observed in transcription from raw data to the report.
No errors were observed in calculation of the percent recoveries and RPDs.

1.6 Detection Limits

All sample detection limits are adequate for the intended purposes.

1.7 Completeness

The amount of valid data obtained compared to the amount of data that was expected to be obtained is enough to achieve > 99% completeness.

1.8 Overall Assessment

The system performed to specifications in all areas of evaluation. Sample/duplicate precision indicates that these data are representative of field conditions. These data are useable for their intended purpose.

2.0 SEMIVOLATILE ORGANIC COMPOUNDS - Data Validation Summary -

2.1 Holding Times

Holding times were met for all samples.
No errors were observed in transcription from raw data to the report.
No data qualifiers are applied.

2.2 Surrogate Recovery

All surrogate recoveries are within QC limits determined for each matrix.
No errors were observed in transcription from raw data to the report.
No errors were observed in calculation of the percent recoveries.
No data qualifiers are applied.

2.3 Field Duplicates

Sample/duplicate pair H133-SE1/H133-SE3 exhibited RPD's greater than the QC limit.
All other sample/duplicate pairs are either within QC limits, which indicate acceptable precision, or non-detects and no RPD calculations are required.
No errors were observed in transcription from raw data to the report.
No data qualifiers are applied.

2.4 Blanks

Method blanks were run at the appropriate frequency.
No errors were observed in transcription from raw data to the report.
No data qualifiers are applied.

2.5 Matrix Spike/ Matrix Spike Duplicates

MS/MSD samples were analyzed at the appropriate frequency.
HAA15 Batch - MS recovery for Benzo(a)pyrene was below the QC limit. Detects are qualified as (J), non-detects as (UJ). Also, RPD's Acenaphthene, Benzo(a)pyrene and Pyrene are above QC limits.
HAA16 Batch - MS recovery for Benzo(a)pyrene was below the QC limit. Detects are qualified as (J), non-detects as (UJ). Also, the RPD for Pyrene is above the QC limit.
HAA17 Batch - MSD recovery for Pyrene is above the QC limit. Detects are qualified as (J), non-detects are not qualified. MS/MSD recoveries for DRO are outside QC limits due to matrix interference. Detects are qualified as (J), non-detects as (UJ). Also, RPD's for DRO, Acenaphthene, and Pyrene are above QC limits.
All other MS/MSD recoveries are within QC limits and indicate acceptable accuracy.
All other RPDs are within QC limits and indicate acceptable precision.
No bias due to matrix interference is evident.
No errors were observed in transcription from raw data to the report.
No errors were observed in calculation of the percent recoveries and RPDs.

2.6 Detection Limits

All sample detection limits are adequate for the intended purposes.

2.7 Completeness

The amount of valid data obtained compared to the amount of data that was expected to be obtained is enough to achieve the goal of >90% completeness.

2.8 Overall Assessment

The system performed to specifications in all areas of evaluation. Sample/duplicate precision indicates that these data are representative of field conditions.
These data are useable for their intended purposes.

3.0 INORGANIC COMPOUNDS - Data Validation Summary -

3.1 Holding Times

Holding times were met for all samples.
No errors were observed in transcription from raw data to the report.
No data qualifiers are applied.

3.2 Field Duplicates

Sample/duplicate pair H728-MW4/H728-MW31 exhibited RPD's greater than the QC limit for Barium, Chromium, Lead and Mercury.
No errors were observed in transcription from raw data to the report.
No data qualifiers are applied.

3.3 Blanks

Method blanks were run at the appropriate frequency.
No errors were observed in transcription from raw data to the report.
No data qualifiers are applied.

3.4 Matrix Spike / Matrix Spike Duplicates

MS/MSD samples were analyzed at the appropriate frequency.
Batch HAA14 - MS/MSD recoveries for Selenium are below the QC limit. Detects for associated samples are qualified as (J), non-detects as (UJ).
All other MS/MSD recoveries are within QC limits and indicate acceptable accuracy.
All other RPDs are within QC limits and indicate acceptable precision.
No errors were observed in transcription from raw data to the report.
No errors were observed in calculation of the percent recoveries and RPDs.

3.5 Detection Limits

All sample detection limits are adequate for the intended purposes.

3.6 Completeness

The amount of valid data obtained compared to the amount of data that was expected to be obtained is enough to achieve the goal of 90% completeness.

3.7 Overall Assessment

The system performed to specifications in all areas of evaluation. Sample/duplicate precision indicates that these data are representative of field conditions.
These data are useable for their intended purposes.

TABLE 4-1
SAMPLING SCHEDULE
HUNTER army AIRFIELD
SAVANNAH, GEORGIA

SAMPLE LOCATION	SAMPLE IDENTIFICATION	QA/QC SAMPLE	QA/QC MATRIX	SAMPLE DEPTH (FT)	SDG #	SAMPLE DATE	LAB RC'D DATE	REPORT RC'D DATE	PARAMETERS BTEX 8020	TPH (1) 8015M/8100M	TRPH 418.1M	PAH (2) 8100/8310	METALS 6000/7000	COMMENTS
	H728-MW24		WATER		HAA14	9-06-95	9-06-95	9-29-95	X			X		
	H728-MW25		WATER		HAA15	9-07-95	9-07-95	9-29-95	X			X		H728-MW32
	H728-MW26		WATER		HAA15/16	9-07-95	9-07-95	9-29-95	X			X		
	H728-MW27		WATER		HAA15/16	9-07-95	9-07-95	9-29-95	X			X		
	H728-MW28		WATER		HAA15/16	9-07-95	9-07-95	9-29-95	X			X		
	H728-MW29	SPLIT	WATER		HAA15/16	9-07-95	9-07-95	9-29-95	X			X		
	H728-MW30		WATER		HAA15/16	9-07-95	9-07-95	9-29-95	X			X		
	H728-MW31	DUPLICATE	WATER		HAA14	9-06-95	9-06-95	9-29-95	X			X	X	H728-MW3
	H728-MW32	DUPLICATE	WATER		HAA15	9-07-95	9-07-95	9-29-95	X			X		H728-MW25
	H728-MW33	DUPLICATE	WATER		HAA15/16	9-07-95	9-07-95	9-29-95	X			X		H728-MW13
	H728-ER2	EQ. RINS.	WATER		HAA15/16	9-07-95	9-07-95	9-29-95	X			X		
	H728-TB27	SAV. LAB	WATER		HAA16	9-07-95	9-07-95	9-29-95	X					
BUILDING 710 MOGAS DIESEL TANKS														
Hand Auger	H710-HA1		SOIL	4	HAA03	6-17-95	6-17-95	7-17-95	X	X		X		
	H710-HA2		SOIL	4	HAA03	6-17-95	6-17-95	7-17-95	X	X		X		
	H710-HA3	QC/DUP	SOIL	4	HAA03	6-17-95	6-17-95	7-17-95	X	X		X		H710-HA9
	H710-HA9	DUPLICATE	SOIL	4	HAA03/08	6-17-95	6-17-95	7-17-95	X	X		X		H710-HA3
	H710-HA4	QA/SPLIT	SOIL	2	HAA03	6-17-95	6-19-95	7-17-95	X	X		X		H728-TB3/SADL
	H710-HA5		SOIL	1	HAA03	6-17-95	6-17-95	7-17-95	X	X		X		
	H710-HA6		SOIL	4	HAA03	6-17-95	6-17-95	7-17-95	X	X		X		
	H710-HA7		SOIL	4	HAA03	6-17-95	6-17-95	7-17-95	X	X		X		*-TPH analysis for purg.
	H710-HA8		SOIL	4	HAA03	6-17-95	6-17-95	7-17-95	X	X		X		
	H710-TB32	SAV.LAB	WATER		HAA03	6-17-95	6-17-95	7-17-95	X	X*				
	H710-HA10		SOIL	2	HAA08	6-28-95	6-28-95	7-28-95	X	X		X		
Monitoring Well Soil	H710-SB1		SOIL	5	HAA11	8-05-95	8-08-95	9-08-95	X	X		X		
	H710-SB2		SOIL	5	HAA11	8-05-95	8-08-95	9-08-95	X	X		X		H710-SB7
	H710-SB3		SOIL	5	HAA11	8-05-95	8-08-95	9-08-95	X	X		X		
	H710-SB4		SOIL	7	HAA11	8-05-95	8-08-95	9-08-95	X	X		X		
	H710-SB5	SPLIT	SOIL	5	HAA11	8-05-95	8-08-95	9-08-95	X	X		X		
	H710-SB6		SOIL	5	HAA11	8-06-95	8-08-95	9-08-95	X	X		X		
	H710-SB7	DUPLICATE	SOIL	5	HAA11	8-05-95	8-08-95	9-08-95	X	X		X		H710-SB2
	H710-TB34	SAV. LAB	WATER		HAA11	8-05-95	8-08-95	9-08-95	X	X*				*-TPH analysis for purg.
	H710-TB35	SADL	WATER			8-05-95			X	X*				*-TPH analysis for purg.
Monitoring Well Groundwater	H710-MW1		WATER		HAA15/16	9-07-95	9-07-95	9-29-95	X			X		
	H710-MW2		WATER		HAA15	9-07-95	9-07-95	9-29-95	X			X		
	H710-MW3		WATER		HAA16	9-08-95	9-08-95	9-29-95	X			X		
	H710-MW4		WATER		HAA16	9-08-95	9-08-95	9-29-95	X			X		H710-MW7
	H710-MW5	SPLIT	WATER		HAA16	9-08-95	9-08-95	9-29-95	X			X		
	H710-MW6		WATER		HAA16	9-08-95	9-08-95	9-29-95	X			X		
	H710-MW7	DUPLICATE	WATER		HAA16	9-08-95	9-08-95	9-29-95	X			X		H710-MW4
	H710-ER3	EQ. RINS.	WATER		HAA15/16	9-07-95	9-07-95	9-29-95	X			X		
BUILDING 710 MOGAS DIESEL TANKS, cont'd.														
MW Groundwater	H710-TB36	SAV. LAB	WATER		HAA16	9-08-95	9-08-95	9-29-95	X					
Supply Well GW	H710-SMW 1		WATER		HAA15/16	9-07-95	9-07-95	9-29-95	X			X		

(1) - Extractable PH - 8100MOD; Purgeable PH - 8015MOD
(2) - Soil Samples - 8100; Water Samples - 8310

S553352.WK1

SAMPLE ID		H710-HA8	H710-HA7	H710-HA6	H710-HA5	H710-HA4	H710-HA3	H710-HA9	H710-HA2	H710-HA1
SL LOG NUMBER		S553352*1	S553352*2	S553352*3	S553352*4	S553352*5	S553352*6	S553352*7	S553352*8	S553352*9
SAMPLE DATE		06/17/95	06/17/95	06/17/95	06/17/95	06/17/95	06/17/95	06/17/95	06/17/95	06/17/95
MATRIX		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	UNITS									
Purgeable Aromatics (8020)										
Benzene	ug/kg dw	<6.0	<5.7	<5.3	<5.3	<5.7	<5.7	<5.7	<5.8	<5.6
Toluene	ug/kg dw	<6.0	<5.7	<5.3	<5.3	<5.7	<5.7	<5.7	<5.8	<5.6
Ethylbenzene	ug/kg dw	<6.0	<5.7	<5.3	<5.3	150	<5.7	<5.7	<5.8	<5.6
Total Xylenes	ug/kg dw	<6.0	<5.7	<5.3	<5.3	320	<5.7	<5.7	<5.8	<5.6
Surrogate - a,a,a-Trifluorotoluene		114 %	106 %	104 %	101 %	90 %	104 %	102 %	111 %	93 %
Dilution factor		1	1	1	1	1	1	1	1	1
Date Analyzed		06.30.95	06.30.95	06.30.95	06.30.95	06.30.95	07.01.95	06.30.95	07.01.95	06.30.95
Batch ID		0628A	0628A	0628A	0628A	0628A	0628B	0628B	0628B	0628B
Clock ID		1E0630	1E0630	1E0630	1E0630	1E0630	1E0701	2E0630	1E0701	2E0630
Gasoline Range Organics (8015M)										
Hydrocarbons as GRO	mg/kg dw	<0.21	<0.20	<0.19	<0.19	20	<0.21	<0.21	<0.21	<1.0
Surrogate - a,a,a-Trifluorotoluene		98 %	111 %	111 %	103 %	120 %	109 %	117 %	79 %	99 %
Dilution factor		1	1	1	1	5	1	1	1	5
Date Analyzed		06.30.95	06.30.95	06.30.95	06.30.95	07.01.95	06.30.95	06.30.95	07.01.95	07.01.95
Batch ID		0630B	0630B	0630B	0630B	0630B	0630B	0630B	0630B	0630B
Clock ID		1D0629	1D0629	1D0629	1D0629	1D0629	1D0629	1D0629	1D0629	1D0629
Percent Solids (160.3)										
Percent Solids (160.3)	%	84	88	94	94	88	87	87	86	89
Diesel Range Organics (8100M)										
Hydrocarbons as DRO	mg/kg dw	<12	<11	<11	<11	110	<11	<11	<12	550
Surrogate - 2-Fluorobiphenyl		58 %	70 %	64 %	80 %	86 %	70 %	79 %	79 %	94 %
Dilution factor		1	1	1	1	1	1	1	1	5
Date Extracted		06.21.95	06.21.95	06.21.95	06.21.95	06.21.95	06.21.95	06.21.95	06.21.95	06.21.95
Date Analyzed		07.13.95	07.13.95	07.13.95	07.13.95	07.13.95	07.13.95	07.12.95	07.13.95	07.13.95
Batch ID		0621O	0621O	0621O	0621O	0621O	0621O	0621O	0621O	0621O
Instrument ID		SGC9	SGC9	SGC9	SGC9	SGC9	SGC9	SGC9	SGC9	SGC9
Polynuclear Aromatics (8100)										
Acenaphthene	ug/kg dw	<390	<380	<350	<350	<380	<380	<380	<380	1100
Acenaphthylene	ug/kg dw	<390	<380	<350	<350	<380	<380	<380	<380	<370
Benzo(a)pyrene	ug/kg dw	<390	<380	<350	<350	<380	<380	<380	<380	<370
Benzo(g,h,i)perylene	ug/kg dw	<390	<380	<350	<350	<380	<380	<380	<380	<370
Benzo(b,k)fluoranthene	ug/kg dw	<390	<380	<350	<350	<380	<380	<380	<380	<370
Chrysene + Benzo(a)anthracene	ug/kg dw	<390	<380	<350	<350	<380	<380	<380	<380	<370
Fluoranthene	ug/kg dw	<390	<380	<350	<350	<380	<380	<380	<380	<370
Fluorene	ug/kg dw	<390	<380	<350	<350	<380	<380	<380	<380	<370
Indeno(1,2,3-cd)pyrene+Dibenzo(a,h)anthracene	ug/kg dw	<390	<380	<350	<350	<380	<380	<380	<380	<370
Naphthalene	ug/kg dw	<390	<380	<350	<350	1400	<380	<380	<380	2300
Phenanthrene + Anthracene	ug/kg dw	<390	<380	<350	<350	<380	<380	<380	<380	460
Pyrene	ug/kg dw	<390	<380	<350	<350	<380	<380	<380	<380	<370
1-Methylnaphthalene	ug/kg dw	<390	<380	<350	<350	550	<380	<380	<380	650
2-Methylnaphthalene	ug/kg dw	<390	<380	<350	<350	1500	<380	<380	<380	3000
Surrogate - 2-Fluorobiphenyl		58 %	70 %	64 %	80 %	86 %	70 %	79 %	79 %	94 %
Dilution factor		1	1	1	1	1	1	1	1	1
Date Extracted		06.21.95	06.21.95	06.21.95	06.21.95	06.21.95	06.21.95	06.21.95	06.21.95	06.21.95
Date Analyzed		07.08.95	07.07.95	07.08.95	07.08.95	07.08.95	07.07.95	07.07.5	07.08.95	07.08.95
Batch ID		06210QSG	06210QSG	06210QSG	06210QSG	06210QSG	06210QSG	06210QSG	06210QSG	06210QSG
Instrument ID		SGC8	SGC8	SGC8	SGC8	SGC8	SGC8	SGC8	SGC8	SGC8

S553352.WK1

SAMPLE ID		H710-TB32
SL LOG NUMBER		S553352*10
SAMPLE DATE		06/17/95
MATRIX		WATER
	UNITS	
Purgeable Aromatics (8020)		
Benzene	ug/l	<1.0
Toluene	ug/l	<1.0
Ethylbenzene	ug/l	<1.0
Total Xylenes	ug/l	<1.0
Surrogate - a,a,a-Trifluorotoluene		102 %
Dilution factor		1
Date Analyzed		07.01.95
Batch ID		0701A
Clock ID		1D0701
Gasoline Range Organics (8015M)		
Hydrocarbons as GRO	mg/l	<0.036
Surrogate - a,a,a-Trifluorotoluene		98 %
Dilution factor		1
Date Analyzed		07.01.95
Batch ID		0701A
Clock ID		1D0701

SAMPLE ID		H710-HA5 RE	H710-HA4 RE	H710-HA3 RE	H710-HA9 RE	H710-H2S RE
SL LOG NUMBER		S553352*39	S553352*40	S553352*41	S553352*42	S553352*43
SAMPLE DATE		06/17/95	06/17/95	06/17/95	06/17/95	06/17/95
MATRIX		SOIL	SOIL	SOIL	SOIL	SOIL
	UNITS					
Gasoline Range Organics (8015M)						
Hydrocarbons as GRO	mg/kg dw	<0.19	12	<0.21	<0.21	<0.21
Surrogate - a,a,a-Trifluorotoluene		81 %	123 %	109 %	102 %	86 %
Dilution factor		1	1	1	1	1
Date Analyzed		07.02.95	07.02.95	07.02.95	07.02.95	07.02.95
Batch ID		0630B	0630B	0630B	0630B	0630B
Clock ID		2D0701	2D0701	2D0701	2D0701	2D0701

SAMPLE ID		H710-HA1 RE
SL LOG NUMBER		S553352*45
SAMPLE DATE		06/17/95
MATRIX		SOIL
	UNITS	
Gasoline Range Organics (8015M)		
Hydrocarbons as GRO	mg/kg dw	13
Surrogate - a,a,a-Trifluorotoluene		75 %
Dilution factor		1
Date Analyzed		07.02.95
Batch ID		0630B
Clock ID		2D0701

S554366.WK1

SAMPLE ID		H710-SB1	H710-SB2	H710-SB7	H710-SB3	H710-SB4	H710-SB5	H710-SB6	H728-SB23	H728-SB25	H728-SB19
SL LOG NUMBER		S554366*3	S554366*4	S554366*5	S554366*6	S554366*7	S554366*8	S554366*9	S554366*10	S554366*11	S554366*12
SAMPLE DATE		08/05/95	08/05/95	08/05/95	08/05/95	08/05/95	08/05/95	08/06/95	08/06/95	08/07/95	08/08/95
MATRIX		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	UNITS										
Purgeable Aromatics (8020)											
Benzene	ug/kg dw	<6.1	<6.2	<6.2	<29	<5.6	<6.6	<6.0	<6.2	6.7	<5.7
Toluene	ug/kg dw	<6.1	<6.2	<6.2	<29	<5.6	<6.6	<6.0	<6.2	6.4	<5.7
Ethylbenzene	ug/kg dw	<6.1	<6.2	<6.2	<29	<5.6	<6.6	<6.0	<6.2	18	<5.7
Total Xylenes	ug/kg dw	<6.1	<6.2	<6.2	36	<5.6	<6.6	<6.0	<6.2	9.9	<5.7
Surrogate - a,a,a-Trifluorotoluene		108 %	101 %	102 %	101 %	98 %	137 %	101 %	105 %	129 %	103 %
Dilution factor		1	1	1	5	1	1	1	1	1	1
Date Analyzed		08.17.95	08.17.95	08.17.95	08.17.95	08.16.95	08.16.95	08.16.95	08.16.95	08.18.95	08.16.95
Batch ID		0815B	0815B	0815B	0815B	0815B	0815B	0815B	0815B	0815B	0815B
Clock ID		1D0817	1D0817	1D0817	1D0817	1D0816	1D0816	1D0816	1D0816	1D0816	1D0816
Gasoline Range Organics (8015M)											
Hydrocarbons as GRO	mg/kg dw	<0.22	<0.22	<0.22	17	<0.20	0.25	<0.22	<0.22	1.6	<0.21
Surrogate - a,a,a-Trifluorotoluene		115 %	143 %	119 %	143 %	132 %	79 %	108 %	117 %	54 %	105 %
Dilution factor		1	1	1	5	1	1	1	1	1	1
Date Analyzed		08.17.95	08.17.95	08.17.95	08.17.95	08.16.95	08.16.95	08.16.95	08.16.95	08.18.95	08.16.95
Batch ID		0815B	0815B	0815B	0815B	0815B	0815B	0815B	0815B	0815B	0815B
Clock ID		1D0817	1D0817	1D0817	1D0817	1D0816	1D0816	1D0816	1D0816	1D0816	1D0816
Polynuclear Aromatics (8100)											
Acenaphthene	ug/kg dw	<460	<430	<420	<380	<420	<420	<420	<430	61000	<380
Acenaphthylene	ug/kg dw	<460	<430	<420	<380	<420	<420	<420	<430	35000	<380
Benzo(a)pyrene	ug/kg dw	<460	<430	<420	<380	<420	<420	<420	<430	120000	<380
Benzo(g,h,i)perylene	ug/kg dw	<460	<430	<420	<380	<420	<420	<420	<430	68000	<380
Benzo(b,k)fluoranthene	ug/kg dw	<460	<430	<420	<380	<420	<420	<420	<430	250000	<380
Chrysene + Benzo(a)anthracene	ug/kg dw	<460	<430	<420	<380	<420	<420	<420	<430	380000	<380
Fluoranthene	ug/kg dw	<460	<430	<420	<380	<420	<420	<420	<430	510000	<380
Fluorene	ug/kg dw	<460	<430	<420	<380	<420	<420	<420	<430	240000	<380
Indeno(1,2,3-cd)pyrene+Dibenzo(a,h)anthracene	ug/kg dw	<460	<430	<420	<380	<420	<420	<420	<430	72000	<380
Naphthalene	ug/kg dw	<460	<430	<420	<380	<420	<420	<420	<430	81000	<380
Phenanthrene + Anthracene	ug/kg dw	<460	<430	<420	<380	<420	<420	<420	<430	880000	<380
Pyrene	ug/kg dw	<460	<430	<420	<380	<420	<420	<420	<430	410000	<380
1-Methylnaphthalene	ug/kg dw	<460	<430	<420	<380	<420	<420	<420	<430	64000	<380
2-Methylnaphthalene	ug/kg dw	<460	<430	<420	<380	<420	<420	<420	<430	100000	<380
Surrogate - 2-Fluorobiphenyl		64 %	58 %	51 %	64 %	57 %	62 %	57 %	54 %	*F33	63 %
Dilution factor		1	1	1	1	1	1	1	1	50	1
Date Extracted		08.11.95	08.11.95	08.11.95	08.11.95	08.11.95	08.11.95	08.11.95	08.11.95	08.11.95	08.11.95
Date Analyzed		08.16.95	08.16.95	08.16.95	08.16.95	08.16.95	08.17.95	08.17.95	08.17.95	08.18.95	08.16.95
Batch ID		0811H	0811H	0811H	0811H	0811H	0811H	0811H	0811H	0811H	0811H
Instrument ID		SGC9	SGC9	SGC9	SGC9	SGC9	SGC9	SGC9	SGC9	SGC8	SGC9
Diesel Range Organics (8100M)											
Hydrocarbons as DRO	mg/kg dw	<14	<13	<13	<12	<13	<13	17	<13	8000	<11
Surrogate - OTP		108 %	75 %	65 %	83 %	89 %	87 %	74 %	69 %	*F33	75 %
Dilution factor		1	1	1	1	1	1	1	1	125	1
Date Extracted		08.11.95	08.11.95	08.11.95	08.11.95	08.11.95	08.11.95	08.11.95	08.11.95	08.11.95	08.11.95
Date Analyzed		08.25.95	08.20.95	08.20.95	08.20.95	08.20.95	08.20.95	08.30.95	08.20.95	08.30.95	08.20.95
Batch ID		0811H	0811H	0811H	0811H	0811H	0811H	0811H	0811H	0811H	0811H
Instrument ID		SGC9	SCG9	SCG9	SCG9	SCG9	SCG9	SGC-9	SCG9	SGC-9	SCG9
Percent Solids (160.3)											
Percent Solids (160.3)	%	82	81	81	85	89	76	83	80	89	87

S554366.WK1

SAMPLE ID		H728-SB20	H133-SB1	H728-SB24	H728-SB28	H728-SB26	H728-SB27
SL LOG NUMBER		S554366*13	S554366*14	S554366*15	S554366*16	S554366*17	S554366*18
SAMPLE DATE		08/06/95	08/06/95	08/06/95	08/07/95	08/07/95	08/07/95
MATRIX		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	UNITS						
Purgeable Aromatics (8020)							
Benzene	ug/kg dw	<5.4	<6.3	<5.8	<5.8	41	<6.6
Toluene	ug/kg dw	<5.4	<6.3	<5.8	<5.8	<5.4	<6.6
Ethylbenzene	ug/kg dw	<5.4	8.2	<5.8	<5.8	34	<6.6
Total Xylenes	ug/kg dw	<5.4	<6.3	<5.8	<5.8	19	<6.6
Surrogate - a,a,a-Trifluorotoluene		100 %	119 %	101 %	112 %	158 %	125 %
Dilution factor		1	1	1	1	1	1
Date Analyzed		08.16.95	08.16.95	08.16.95	08.17.95	08.16.95	08.17.95
Batch ID		0815B	0815B	0815B	0815B	0815B	0815B
Clock ID		1D0816	1D0816	1D0816	1D0817	1D0818	1D0817
Gasoline Range Organics (8015M)							
Hydrocarbons as GRO	mg/kg dw	<0.20	0.28	<0.21	<0.21	20E	<0.24
Surrogate - a,a,a-Trifluorotoluene		97 %	57 %	109 %	103 %	139 %	75 %
Dilution factor		1	1	1	1	1	1
Date Analyzed		08.16.95	08.16.95	08.16.95	08.17.95	08.16.95	08.17.95
Batch ID		0815B	0815B	0815B	0815B	0815B	0815B
Clock ID		1D0816	1D0816	1D0816	1D0817	1D0818	1D0817
Polynuclear Aromatics (8100)							
Acenaphthene	ug/kg dw	<360	<420	<390	<410	33000	<450
Acenaphthylene	ug/kg dw	<360	<420	<390	<410	<8800	<450
Benzo(a)pyrene	ug/kg dw	<360	<420	<390	<410	31000	<450
Benzo(g,h,i)perylene	ug/kg dw	<360	<420	<390	<410	15000	<450
Benzo(b,k)fluoranthene	ug/kg dw	<360	<420	<390	<410	62000	<450
Chrysene + Benzo(a)anthracene	ug/kg dw	<360	<420	<390	<410	110000	<450
Fluoranthene	ug/kg dw	<360	<420	<390	<410	180000	<450
Fluorene	ug/kg dw	<360	<420	<390	<410	82000	<450
Indeno(1,2,3-cd)pyrene+Dibenzo(a,h)anthracene	ug/kg dw	<360	<420	<390	<410	19000	<450
Naphthalene	ug/kg dw	<360	<420	<390	<410	10000	<450
Phenanthrene + Anthracene	ug/kg dw	<360	<420	<390	<410	360000	<450
Pyrene	ug/kg dw	<360	<420	<390	<410	150000	<450
1-Methylnaphthalene	ug/kg dw	<360	<420	<390	<410	13000	<450
2-Methylnaphthalene	ug/kg dw	<360	<420	<390	<410	17000	<450
Surrogate - 2-Fluorobiphenyl		62 %	38 %	54 %	89 %	*F33	60 %
Dilution factor		1	1	1	1	5	1
Date Extracted		08.11.95	08.11.95	08.11.95	08.11.95	08.11.95	08.11.95
Date Analyzed		08.17.95	08.17.95	08.16.95	08.21.95	08.21.95	08.17.95
Batch ID		0811H	0811H	0811H	0811H	0811H	0811H
Instrument ID		SGC9	SGC9	SGC9	SGC9	SGC9	SGC9
Diesel Range Organics (8100M)							
Hydrocarbons as DRO	mg/kg dw	<11	15	<12	<12	960	19
Surrogate - OTP		76 %	37 %	78 %	74 %	*F33	85 %
Dilution factor		1	1	1	1	10	1
Date Extracted		08.11.95	08.11.95	08.11.95	08.11.95	08.11.95	08.11.95
Date Analyzed		08.21.95	08.30.95	08.21.95	08.30.95	08.30.95	08.29.95
Batch ID		0811H	0811H	0811H	0811H	0811H	0811H
Instrument ID		SCG9	SGC9	SCG9	SGC9	SGC9	SGC9
Percent Solids (160.3)							
Percent Solids (160.3)	%	92	79	88	86	93	76

S554366.WK1

	UNITS		
SAMPLE ID		HA-B224	
SL LOG NUMBER		S554366*19	
SAMPLE DATE		08/07/95	
MATRIX		SOIL	
Purgeable Aromatics (8020)			
Benzene	ug/kg dw	<5.3	
Toluene	ug/kg dw	<5.3	
Ethylbenzene	ug/kg dw	<5.3	
Total Xylenes	ug/kg dw	<5.3	
Surrogate - a,a,a-Trifluorotoluene		120 %	
Dilution factor		1	
Date Analyzed		08.17.95	
Batch ID		0815B	
Clock ID		1D0817	
Polynuclear Aromatics (8100)			
Acenaphthene	ug/kg dw	<350	
Acenaphthylene	ug/kg dw	<350	
Benzo(a)pyrene	ug/kg dw	<350	
Benzo(g,h,i)perylene	ug/kg dw	<350	
Benzo(b,k)fluoranthene	ug/kg dw	<350	
Chrysene + Benzo(a)anthracene	ug/kg dw	<350	
Fluoranthene	ug/kg dw	<350	
Fluorene	ug/kg dw	<350	
Indeno(1,2,3-cd)pyrene+Dibenzo(a,h)anthracene	ug/kg dw	<350	
Naphthalene	ug/kg dw	<350	
Phenanthrene + Anthracene	ug/kg dw	<350	
Pyrene	ug/kg dw	<350	
1-Methylnaphthalene	ug/kg dw	<350	
2-Methylnaphthalene	ug/kg dw	<350	
Surrogate - 2-Fluorobiphenyl		62 %	
Dilution factor		1	
Date Extracted		08.11.95	
Date Analyzed		08.17.95	
Batch ID		0811H	
Instrument ID		SGC9	
Diesel Range Organics (8100M)			
Hydrocarbons as DRO	mg/kg dw	<11	
Surrogate - OTP		66 %	
Dilution factor		1	
Date Extracted		08.11.95	
Date Analyzed		08.21.95	
Batch ID		0811H	
Instrument ID		SCG9	
Percent Solids (160.3)			
Percent Solids (160.3)	%		94

S554366.WK1

SAMPLE ID		H710-TB34
SL LOG NUMBER		S554366*20
SAMPLE DATE		
MATRIX		WATER
	UNITS	
Purgeable Aromatics (8020)		
Benzene	ug/l	<1.0
Toluene	ug/l	<1.0
Ethylbenzene	ug/l	<1.0
Total Xylenes	ug/l	<1.0
Surrogate - a,a,a-Trifluorotoluene		116 %
Dilution factor		1
Date Analyzed		08.12.95
Batch ID		0812A
Clock ID		1D0812
Gasoline Range Organics (8015M)		
Hydrocarbons as GRO	mg/l	<0.036
Surrogate - a,a,a-Trifluorotoluene		90 %
Dilution factor		1
Date Analyzed		08.12.95
Batch ID		0812A
Clock ID		1D0812

SAMPLE ID		Method Blank - Liquid
SL LOG NUMBER		S554366*21
SAMPLE DATE		
MATRIX		WATER
	UNITS	
Purgeable Aromatics (8020)		
Benzene	ug/l	<1.0
Toluene	ug/l	<1.0
Ethylbenzene	ug/l	<1.0
Total Xylenes	ug/l	<1.0
Surrogate - a,a,a-Trifluorotoluene		121 %
Dilution factor		1
Date Analyzed		08.12.95
Batch ID		0812A
Clock ID		1D0812
Gasoline Range Organics (8015M)		
Hydrocarbons as GRO	ug/l	<0.036
Surrogate - a,a,a-Trifluorotoluene		95 %
Dilution factor		1
Date Analyzed		08.12.95
Batch ID		0812A
Clock ID		1D0812

S554366.WK1

	UNITS	
SAMPLE ID		Method Blank - Soil
SL LOG NUMBER		S554366*22
SAMPLE DATE		
MATRIX		SOIL
Purgeable Aromatics (8020)		
Benzene	ug/kg dw	<5.0
Toluene	ug/kg dw	<5.0
Ethylbenzene	ug/kg dw	<5.0
Total Xylenes	ug/kg dw	<5.0
Surrogate - a,a,a-Trifluorotoluene		103 %
Dilution factor		1
Date Analyzed		08.16.95
Batch ID		0815B
Clock ID		1D0816
Gasoline Range Organics (8015M)		
Hydrocarbons as GRO	mg/kg dw	<0.18
Surrogate - a,a,a-Trifluorotoluene		107 %
Dilution factor		1
Date Analyzed		08.16.95
Batch ID		0815B
Clock ID		1D0816
Polynuclear Aromatics (8100)		
Acenaphthene	ug/kg dw	<330
Acenaphthylene	ug/kg dw	<330
Benzo(a)pyrene	ug/kg dw	<330
Benzo(g,h,i)perylene	ug/kg dw	<330
Benzo(b,k)fluoranthene	ug/kg dw	<330
Chrysene + Benzo(a)anthracene	ug/kg dw	<330
Fluoranthene	ug/kg dw	<330
Fluorene	ug/kg dw	<330
Indeno(1,2,3-cd)pyrene+Dibenzo(a,h)anthracene	ug/kg dw	<330
Naphthalene	ug/kg dw	<330
Phenanthrene + Anthracene	ug/kg dw	<330
Pyrene	ug/kg dw	<330
1-Methylnaphthalene	ug/kg dw	<330
2-Methylnaphthalene	ug/kg dw	<330
Surrogate - 2-Fluorobiphenyl		65 %
Dilution factor		1
Date Extracted		08.11.95
Date Analyzed		08.16.95
Batch ID		0811H
Diesel Range Organics (8100M)		
Hydrocarbons as DRO	mg/kg dw	<10
Surrogate - OTP		85 %
Dilution factor		1
Date Extracted		08.11.95
Date Analyzed		08.20.95
Batch ID		0811H
Instrument ID		SCG9
Petroleum Hydrocarbons		
Total Recoverable Petroleum Hydrocarbons (418.	mg/kg dw	<10
Dilution factor		1
Date Analyzed		08.14.95
Initial Volume/Weight		25
Final Volume (FV1)		100

S554368.WK1

Batch ID		0814F
Arsenic (7060)		
Arsenic (7060)	mg/kg dw	<1.0
Initial Volume/Weight		1
Final Volume (FV1)		100
Dilution factor		1
Preparation Date		08.11.95
Date Analyzed		08.16.95
Batch ID		0811B
Barium (6010)		
Barium (6010)	mg/kg dw	<1.0
Initial Volume/Weight		1
Final Volume (FV1)		100
Dilution factor		1
Preparation Date		08.11.95
Date Analyzed		08.14.95
Batch ID		0811A
Cadmium (6010)		
Cadmium (6010)	mg/kg dw	<0.50
Initial Volume/Weight		1
Final Volume (FV1)		100
Dilution factor		1
Preparation Date		08.11.95
Date Analyzed		08.14.95
Batch ID		0811A
Chromium (6010)		
Chromium (6010)	mg/kg dw	<1.0
Initial Volume/Weight		1
Final Volume (FV1)		100
Dilution factor		1
Preparation Date		08.11.95
Date Analyzed		08.14.95
Batch ID		0811A
Silver (6010)		
Silver (6010)	mg/kg dw	<1.0
Initial Volume/Weight		1
Final Volume (FV1)		100
Dilution factor		1
Preparation Date		08.11.95
Date Analyzed		08.14.95
Batch ID		0811A
Lead (7421)		
Lead (7421)	mg/kg dw	<0.50
Initial Volume/Weight		1
Final Volume (FV1)		100
Dilution factor		1
Preparation Date		08.11.95
Date Analyzed		08.15.95
Batch ID		0811B
Selenium (7740)		
Selenium (7740)	mg/kg dw	<1.0
Initial Volume/Weight		1
Final Volume (FV1)		100
Dilution factor		1

S554366.WK1

Preparation Date		08.11.95
Date Analyzed		08.16.95
Batch ID		0811B
Mercury (7470/7471)		
Mercury	mg/kg dw	<0.010
Initial Volume/Weight		1
Final Volume (FV1)		50
Dilution factor		1
Preparation Date		08.10.95
Date Analyzed		08.11.95
Batch ID		0810R

S554366.WK1

SAMPLE ID		Method Blank	Method Blank	Method Blank
SL LOG NUMBER		S554366*23	S554366*24	S554366*25
SAMPLE DATE				
MATRIX		SOIL	SOIL	SOIL
	UNITS			
Purgeable Aromatics (8020)				
Benzene	ug/kg dw	<5.0	<5.0	<400*F39
Toluene	ug/kg dw	<5.0	<5.0	<400
Ethylbenzene	ug/kg dw	<5.0	<5.0	<400
Total Xylenes	ug/kg dw	<5.0	<5.0	<400
Surrogate - a,a,a-Trifluorotoluene		104 %	102 %	130 %
Dilution factor		1	1	80
Date Analyzed		08.17.95	08.18.95	08.22.95
Batch ID		0815B	0815B	0822A
Clock ID		1D0817	1D0818	2D0822
Gasoline Range Organics (8015M)				
Hydrocarbons as GRO	mg/kg dw	<0.18	<0.18	<14*F39
Surrogate - a,a,a-Trifluorotoluene		104 %	85 %	100 %
Dilution factor		1	1	80
Date Analyzed		08.17.95	08.18.95	08.22.95
Batch ID		0815B	0815B	0822A
Clock ID		1D0817	1D0818	2D0822

SAMPLE ID		Method Blank
SL LOG NUMBER		S554366*26
SAMPLE DATE		
MATRIX		SOIL
	UNITS	
Gasoline Range Organics (8015M)		
Hydrocarbons as GRO	mg/kg dw	<0.18
Surrogate - a,a,a-Trifluorotoluene		112 %
Dilution factor		1
Date Analyzed		08.17.95
Batch ID		0815B
Clock ID		2D0817
Diesel Range Organics (8100M)		
Hydrocarbons as DRO	mg/kg dw	<10
Surrogate - OTP		65 %
Dilution factor		1
Date Extracted		08.30.95
Date Analyzed		08.31.95
Batch ID		0830L
Instrument ID		SCG9

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LOG NO: S5-HAA15

Received: 08 SEP 95

Ms. Christine Hettinger
Metcalf & Eddy
1201 Peachtree St., NE
Atlanta, GA 30361

Purchase Order: 016602-4102/HUNTER AAF

Sampled By: Client

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	SDG#
HAA15-1	Lab Control Standard (LCS) Result	HAA15
HAA15-2	LCS Expected Value	HAA15
HAA15-3	LCS % Recovery	HAA15
HAA15-4	LCS % Recovery Control Limits	HAA15
HAA15-5	Matrix Spike Result	HAA15

PARAMETER	HAA15-1	HAA15-2	HAA15-3	HAA15-4	HAA15-5
Purgeable Aromatics (8020)					
Benzene, ug/l	24.6	20	123 %	68-134 %	25.8
Toluene, ug/l	20.7	20	104 %	69-131 %	21.3
Surrogate - F3-Toluene	110 %	---	---	---	108 %
PF Code	T	---	---	---	T
Dilution factor	1.0	---	---	---	1.0
Batch ID	0912B	---	---	---	0912B
Preparation Date	09.14.95	---	---	---	09.15.95
Preparation Time	2044	---	---	---	0601
Analysis Time	2044	---	---	---	0601
Date Analyzed	09.14.95	---	---	---	09.15.95
RES Code	CK1	---	---	---	SL1
Initial Volume/Weight	25	---	---	---	25
Final Extraction Volume (FV1)	25	---	---	---	25

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LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	SDG#
HAA15-1	Lab Control Standard (LCS) Result	HAA15
HAA15-2	LCS Expected Value	HAA15
HAA15-3	LCS % Recovery	HAA15
HAA15-4	LCS % Recovery Control Limits	HAA15
HAA15-5	Matrix Spike Result	HAA15

PARAMETER	HAA15-1	HAA15-2	HAA15-3	HAA15-4	HAA15-5
Polynuclear Aromatic HC (8100)					
Acenaphthene, ug/l	54	50	108 %	35-130 %	30
Benzo(a)pyrene, ug/l	39	50	78 %	14-165 %	3.5
Fluorene, ug/l	56	50	112 %	32-136 %	40
Naphthalene, ug/l	50	50	100 %	40-116 %	38
Pyrene, ug/l	51	50	102 %	41-137 %	22
Surrogate - 2-Fluorobiphenyl	100 %	---	---	---	92 %
PF Code	T	---	---	---	T
Initial Volume/Weight	1000	---	---	---	1000
Final Extraction Volume (FV1)	1.0	---	---	---	1.0
Dilution factor	1.0	---	---	---	1.0
Batch ID	0912S	---	---	---	0912S
Preparation Date	09.12.95	---	---	---	09.12.95
Preparation Time	1645	---	---	---	1645
Analysis Time	1333	---	---	---	2025
Date Analyzed	09.20.95	---	---	---	09.26.95
RES Code	CK1	---	---	---	SL1

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	SDG#
HAA15-6	Matrix Spike Duplicate Result	HAA15
HAA15-7	Matrix Spike (MS) Expected Value	HAA15
HAA15-8	MS/MSD % Recovery	HAA15
HAA15-9	MS/MSD % Recovery Limits	HAA15
HAA15-10	MS/MSD % RPD (Limit)	HAA15

PARAMETER	HAA15-6	HAA15-7	HAA15-8	HAA15-9	HAA15-10
Purgeable Aromatics (8020)					
Benzene, ug/l	26.5	20	129/132 %	68-134 %	2.3(<19) %
Toluene, ug/l	22.1	20	106/110 %	69-131 %	3.7(<19) %
Surrogate - F3-Toluene	109 %	---	---	---	---
PF Code	T	---	---	---	---
Dilution factor	1.0	---	---	---	---
Batch ID	0912B	---	---	---	---
Preparation Date	09.15.95	---	---	---	---
Preparation Time	0657	---	---	---	---
Analysis Time	0657	---	---	---	---
Date Analyzed	09.15.95	---	---	---	---
RES Code	DL1	---	---	---	---
Initial Volume/Weight	25	---	---	---	---
Final Extraction Volume (FV1)	25	---	---	---	---

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	SDG#
HAA15-6	Matrix Spike Duplicate Result	HAA15
HAA15-7	Matrix Spike (MS) Expected Value	HAA15
HAA15-8	MS/MSD % Recovery	HAA15
HAA15-9	MS/MSD % Recovery Limits	HAA15
HAA15-10	MS/MSD % RPD (Limit)	HAA15

PARAMETER	HAA15-6	HAA15-7	HAA15-8	HAA15-9	HAA15-10
Polynuclear Aromatic HC (8100)					
Acenaphthene, ug/l	39	50	60/78 %	35-130 %	26(<21) %
Benzo(a)pyrene, ug/l	10	50	7.0/20 %	14-165 %	96(<40) %
Fluorene, ug/l	42	50	80/84 %	32-136 %	4.9(<19) %
Naphthalene, ug/l	38	50	76/76 %	40-116 %	0(<28) %
Pyrene, ug/l	43	50	44/86 %	41-137 %	65(<28) %
Surrogate - 2-Fluorobiphenyl	74 %	---	---	---	---
PF Code	T	---	---	---	---
Initial Volume/Weight	1000	---	---	---	---
Final Extraction Volume (FV1)	1.0	---	---	---	---
Dilution factor	1.0	---	---	---	---
Batch ID	0912S	---	---	---	---
Preparation Date	09.12.95	---	---	---	---
Preparation Time	1645	---	---	---	---
Analysis Time	1836	---	---	---	---
Date Analyzed	09.26.95	---	---	---	---
RES Code	DL1	---	---	---	---

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LOG NO: S5-54922A

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Project: HAA15/016602-4102/HUNTER AAF
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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	SDG#
54922A-7	Method Blank Liquid	HAA15
54922A-8	Detection Limits	HAA15

PARAMETER	54922A-7	54922A-8
Polynuclear Aromatic HC (8100)		
Acenaphthene, ug/l	<10	10
Acenaphthylene, ug/l	<10	10
Benzo(a)pyrene, ug/l	<10	10
Benzo(g,h,i)perylene, ug/l	<10	10
Benzo(b,k)fluoranthene, ug/l	<10	10
Chrysene + Benzo(a)anthracene, ug/l	<10	10
Fluoranthene, ug/l	<10	10
Fluorene, ug/l	<10	10
Indeno(1,2,3-cd)pyrene+Dibenzo(a,h)anthracene, ug/l	<10	10
Naphthalene, ug/l	<10	10
Phenanthrene + Anthracene, ug/l	<10	10
Pyrene, ug/l	<10	10
1-Methylnaphthalene, ug/l	<10	10
2-Methylnaphthalene, ug/l	<10	10
Surrogate - 2-Fluorobiphenyl	90 %	---
PF Code	T	---
Initial Volume/Weight	1000	---

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Project: HAA15/016602-4102/HUNTER AAF
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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	SDG#
54922A-7	Method Blank Liquid	HAA15
54922A-8	Detection Limits	HAA15

PARAMETER	54922A-7	54922A-8	
Final Extraction Volume (FV1)	1.0	---	
Dilution factor	1.0	---	
Batch ID	0912S	---	
Preparation Date	09.12.95	---	
Preparation Time	1645	---	
Analysis Time	1048	---	
Date Analyzed	09.20.95	---	
RES Code	BM1	---	

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	SDG#
54922A-7	Method Blank Liquid	HAA15
54922A-8	Detection Limits	HAA15

PARAMETER	54922A-7	54922A-8
Purgeable Aromatics (8020)		
Benzene, ug/l	<1.0	1.0
Toluene, ug/l	<1.0	1.0
Ethylbenzene, ug/l	<1.0	1.0
Xylenes, ug/l	<1.0	1.0
Surrogate - F3-Toluene	116 %	---
PF Code	T	---
Dilution factor	1.0	---
Batch ID	0912B	---
Preparation Date	09.12.95	---
Preparation Time	2141	---
Analysis Time	2141	---
Date Analyzed	09.12.95	---
RES Code	BM1	---
Initial Volume/Weight	25	---
Final Extraction Volume (FV1)	25	---

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LOG NO: S5-54922A

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	SDG#
54922A-9	Method Blank Liquid	HAA15

PARAMETER	54922A-9
Purgeable Aromatics (8020)	
Benzene, ug/l	<1.0
Toluene, ug/l	<1.0
Ethylbenzene, ug/l	<1.0
Xylenes, ug/l	<1.0
Surrogate - F3-Toluene	128 %
PF Code	T
Dilution factor	1.0
Batch ID	912B
Preparation Date	09.14.95
Preparation Time	0930
Analysis Time	0930
Date Analyzed	09.14.95
RES Code	BM2
Initial Volume/Weight	25
Final Extraction Volume (FV1)	25

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LOG NO: S5-54990

Received: 06 SEP 95

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1201 Peachtree St., NE
Atlanta, GA 30361

Project: HAA16/016602-4102/HUNTER AAF
Sampled By: Client

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
54990-1	H710-TB36	09-08-95/0710	HAA16
54990-2	H710-MW6	09-08-95/0815	HAA16
54990-3	H710-MW5	09-08-95/0855	HAA16
54990-4	H710-MW4	09-08-95/1010	HAA16
54990-5	H710-MW7	09-08-95/1015	HAA16

PARAMETER	54990-1	54990-2	54990-3	54990-4	54990-5
Purgeable Aromatics (8020)					
Benzene, ug/l	<1.0	<1.0	<1.0	1600	1400
Toluene, ug/l	<1.0	1.6	<1.0	1700	1300
Ethylbenzene, ug/l	<1.0	<1.0	<1.0	1700	1300
Xylenes, ug/l	<1.0	<1.0	<1.0	5800	4500
Surrogate - F3-Toluene	91 %	96 %	99 %	100 %	97 %
PF Code	T	T	T	T	T
Dilution factor	1.0	1.0	1.0	100	100
Batch ID	0915A	0915A	0915A	0915A	0915A
Preparation Date	09.15.95	09.19.95	09.20.95	09.19.95	09.19.95
Preparation Time	1302	1247	1150	1409	1455
Analysis Time	1302	1247	1150	1409	1455
Date Analyzed	09.15.95	09.19.95	09.20.95	09.19.95	09.19.95
RES Code	BT36	PO	PO	PO	PO
Initial Volume/Weight	25	25	25	25	25
Final Extraction Volume (FV1)	25	25	25	25	25

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Project: HAA16/016602-4102/HUNTER AAF
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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
54990-7	H710-MW6	09-08-95/0815	HAA16
54990-8	H710-MW5	09-08-95/0855	HAA16
54990-9	H710-MW4	09-08-95/1010	HAA16
54990-10	H710-MW7	09-08-95/1015	HAA16
54990-11	H710-MW3	09-08-95/1030	HAA16

PARAMETER	54990-7	54990-8	54990-9	54990-10	54990-11
Dilution factor	1.0	1.0	5.0	2.0	1.0
Batch ID	0913N	0913N	0913N	0913N	0913N
Preparation Date	09.13.95	09.13.95	09.13.95	09.13.95	09.13.95
Preparation Time	1430	1430	1430	1430	1430
Analysis Time	0123	0312	2309	0537	0218
Date Analyzed	09.21.95	09.21.95	09.26.95	09.21.95	09.21.95
RES Code	PO	PO	PO	PO	PO

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
54990-7	H710-MW6	09-08-95/0815	HAA16
54990-8	H710-MW5	09-08-95/0855	HAA16
54990-9	H710-MW4	09-08-95/1010	HAA16
54990-10	H710-MW7	09-08-95/1015	HAA16
54990-11	H710-MW3	09-08-95/1030	HAA16

PARAMETER	54990-7	54990-8	54990-9	54990-10	54990-11
Polynuclear Aromatic HC (8100)					
Acenaphthene, ug/l	<10	<10	<50	<20	<10
Acenaphthylene, ug/l	<10	<10	<50	<20	<10
Benzo(a)pyrene, ug/l	<10	<10	<50	<20	<10
Benzo(g,h,i)perylene, ug/l	<10	<10	<50	<20	<10
Benzo(b,k)fluoranthene, ug/l	<10	<10	<50	<20	<10
Chrysene + Benzo(a)anthracene, ug/l	<10	<10	<50	<20	<10
Fluoranthene, ug/l	<10	<10	<50	<20	<10
Fluorene, ug/l	<10	<10	<50	<20	<10
Indeno(1,2,3-cd)pyrene+Dibenzo(a,h)anthracene, ug/l	<10	<10	<50	<20	<10
Naphthalene, ug/l	<10	<10	350	430	<10
Phenanthrene + Anthracene, ug/l	<10	<10	<50	<20	14
Pyrene, ug/l	<10	<10	<50	<20	<10
1-Methylnaphthalene, ug/l	<10	<10	50	58	<10
2-Methylnaphthalene, ug/l	<10	<10	88	120	<10
Surrogate - 2-Fluorobiphenyl	70 %	81 %	60 %	98 %	87 %
PF Code	T	T	T	T	T
Initial Volume/Weight	1000	1000	1000	1000	1000
Final Extraction Volume (FV1)	1.0	1.0	1.0	1.0	1.0

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
54990-6	H710-MW3	09-08-95/1030	HAA16

PARAMETER	54990-6				
Purgeable Aromatics (8020)					
Benzene, ug/l	350				
Toluene, ug/l	<5.0				
Ethylbenzene, ug/l	9.4				
Xylenes, ug/l	88				
Surrogate - F3-Toluene	99 %				
PF Code	T				
Dilution factor	5.0				
Batch ID	0915A				
Preparation Date	09.19.95				
Preparation Time	1149				
Analysis Time	1149				
Date Analyzed	09.19.95				
RES Code	PO				
Initial Volume/Weight	25				
Final Extraction Volume (FV1)	25				

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LOG NO: S5-54990

Received: 06 SEP 95

Ms. Christine Hettinger
Metcalf & Eddy
1201 Peachtree St., NE
Atlanta, GA 30361

Project: HAA16/016602-4102/HUNTER AAF
Sampled By: Client

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	SDG#
54990-12	Method Blank Liquid	HAA16
54990-13	Detection Limits	HAA16

PARAMETER	54990-12	54990-13
Purgeable Aromatics (8020)		
Benzene, ug/l	<1.0	1.0
Toluene, ug/l	<1.0	1.0
Ethylbenzene, ug/l	<1.0	1.0
Xylenes, ug/l	<1.0	1.0
Surrogate - F3-Toluene	90 %	---
PF Code	T	---
Dilution factor	1.0	---
Batch ID	0915A	---
Preparation Date	09.15.95	---
Preparation Time	0925	---
Analysis Time	0925	---
Date Analyzed	09.15.95	---
RES Code	BM1	---
Initial Volume/Weight	25	---
Final Extraction Volume (FV1)	25	---

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

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LOG NO: S5-54990

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Project: HAA16/016602-4102/HUNTER AAF
Sampled By: Client

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	SDG#
54990-12	Method Blank Liquid	HAA16
54990-13	Detection Limits	HAA16

PARAMETER	54990-12	54990-13	
Polynuclear Aromatic HC (8100)			
Acenaphthene, ug/l	<10	10	
Acenaphthylene, ug/l	<10	10	
Benzo(a)pyrene, ug/l	<10	10	
Benzo(g,h,i)perylene, ug/l	<10	10	
Benzo(b,k)fluoranthene, ug/l	<10	10	
Chrysene + Benzo(a)anthracene, ug/l	<10	10	
Fluoranthene, ug/l	<10	10	
Fluorene, ug/l	<10	10	
Indeno(1,2,3-cd)pyrene+Dibenzo(a,h)anthracene, ug/l	<10	10	
Naphthalene, ug/l	<10	10	
Phenanthrene + Anthracene, ug/l	<10	10	
Pyrene, ug/l	<10	10	
1-Methylnaphthalene, ug/l	<10	10	
2-Methylnaphthalene, ug/l	<10	10	
Surrogate - 2-Fluorobiphenyl	84 %	---	
PF Code	T	---	
Initial Volume/Weight	1000	---	
Final Extraction Volume (FV1)	1.0	---	
Dilution factor	1.0	---	
Batch ID	0913N	---	
Preparation Date	09.13.95	---	
Preparation Time	1430	---	
Analysis Time	2239	---	
Date Analyzed	09.20.95	---	
RES Code	BM1	---	

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Received: 06 SEP 95

Ms. Christine Hettinger
Metcalf & Eddy
1201 Peachtree St., NE
Atlanta, GA 30361

Project: HAA16/016602-4102/HUNTER AAF
Sampled By: Client

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	SDG#
54990-14	Method Blank Liquid	HAA16
54990-15	Method Blank Liquid	HAA16

PARAMETER	54990-14	54990-15	
Purgeable Aromatics (8020)			
Benzene, ug/l	<1.0	<1.0	
Toluene, ug/l	<1.0	<1.0	
Ethylbenzene, ug/l	<1.0	<1.0	
Xylenes, ug/l	<1.0	<1.0	
Surrogate - F3-Toluene	101 %	98 %	
PF Code	T	T	
Dilution factor	1.0	1.0	
Batch ID	0915A	0915A	
Preparation Date	09.19.95	09.20.95	
Preparation Time	0845	1029	
Analysis Time	0845	1029	
Date Analyzed	09.19.95	09.20.95	
RES Code	BM2	BM3	
Initial Volume/Weight	25	25	
Final Extraction Volume (FV1)	25	25	

Karri L. Derr

Final Page Of Report

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LOG NO: S5-54966

Received: 07 SEP 95

Ms. Christine Hettinger
Metcalf & Eddy
1201 Peachtree St., NE
Atlanta, GA 30361

Project: HAA15/016602-4102/HUNTER AAF
Sampled By: Client

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
54966-11	H728-MW7	09-07-95/1625	HAA15
54966-12	H728-MW13	09-07-95/1700	HAA15
54966-13	H728-MW33	09-07-95/1705	HAA15
54966-14	H710-MW2	09-07-95/1745	HAA15
54966-15	H710-MW1	09-07-95/1820	HAA15

PARAMETER	54966-11	54966-12	54966-13	54966-14	54966-15
Purgeable Aromatics (8020)					
Benzene, ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene, ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene, ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes, ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Surrogate - F3-Toluene	110 %	109 %	107 %	106 %	117 %
PF Code	T	T	T	T	T
Dilution factor	1.0	1.0	1.0	1.0	1.0
Batch ID	0912B	0912B	0912B	0912B	0912B
Preparation Date	09.14.95	09.14.95	09.14.95	09.14.95	09.15.95
Preparation Time	1659	1755	1852	1948	1757
Analysis Time	1659	1755	1852	1948	1757
Date Analyzed	09.14.95	09.14.95	09.14.95	09.14.95	09.15.95
RES Code	PO	PO	PO	PO	PO
Initial Volume/Weight	25	25	25	25	25
Final Extraction Volume (FV1)	25	25	25	25	25

SL SAVANNAH LABORATORIES
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5102 LaRoche Avenue • Savannah, GA 31404 • (912) 354-7858 • Fax (912) 352-0165

LOG NO: SS-54966

Received: 07 SEP 95

Ms. Christine Hettinger
Metcalf & Eddy
1201 Peachtree St., NE
Atlanta, GA 30361

Project: HAA15/016602-4102/HUNTER AAF
Sampled By: Client

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
54966-16	H710-ER3	09-07-95/1800	HAA15
54966-17	H710-SMW1	09-07-95/1830	HAA15

PARAMETER	54966-16	54966-17
Purgeable Aromatics (8020)		
Benzene, ug/l	<1.0	<1.0
Toluene, ug/l	<1.0	<1.0
Ethylbenzene, ug/l	<1.0	<1.0
Xylenes, ug/l	<1.0	<1.0
Surrogate - F3-Toluene	110 %	108 %
PF Code	T	T
Dilution factor	1.0	1.0
Batch ID	0912B	0912B
Preparation Date	09.15.95	09.15.95
Preparation Time	1853	1949
Analysis Time	1853	1949
Date Analyzed	09.15.95	09.15.95
RES Code	PO	PO
Initial Volume/Weight	25	25
Final Extraction Volume (FV1)	25	25

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LOG NO: S5-54966A

Received: 07 SEP 95

Ms. Christine Hettinger
Metcalf & Eddy
1201 Peachtree St., NE
Atlanta, GA 30361

Project: HAA16/016602-4102/HUNTER AAF
Sampled By: Client

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
54966A-11	H710-SMW1	09-07-95/1830	HAA16

PARAMETER	54966A-11		
Polynuclear Aromatic HC (8100)			
Acenaphthene, ug/l	<10		
Acenaphthylene, ug/l	<10		
Benzo(a)pyrene, ug/l	<10		
Benzo(g,h,i)perylene, ug/l	<10		
Benzo(b,k)fluoranthene, ug/l	<10		
Chrysene + Benzo(a)anthracene, ug/l	<10		
Fluoranthene, ug/l	<10		
Fluorene, ug/l	<10		
Indeno(1,2,3-cd)pyrene+Dibenzo(a,h)anthracene, ug/l	<10		
Naphthalene, ug/l	<10		
Phenanthrene + Anthracene, ug/l	<10		
Pyrene, ug/l	<10		
1-Methylnaphthalene, ug/l	<10		
2-Methylnaphthalene, ug/l	<10		
Surrogate - 2-Fluorobiphenyl	82 %		
PF Code	T		
Initial Volume/Weight	1000		
Final Extraction Volume (FV1)	1.0		
Dilution factor	1.0		
Batch ID	0913N		
Preparation Date	09.13.95		
Preparation Time	1430		
Analysis Time	1513		
Date Analyzed	09.21.95		
RES Code	PO		

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LOG NO: S5-54966A

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Atlanta, GA 30361

Project: HAA16/016602-4102/HUNTER AAF
Sampled By: Client

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
54966A-6	H728-MW13	09-07-95/1700	HAA16
54966A-7	H728-MW33	09-07-95/1705	HAA16
54966A-8	H728-MW2	09-07-95/1745	HAA16
54966A-9	H710-MW1	09-07-95/1820	HAA16
54966A-10	H710-ER3	09-07-95/1800	HAA16

PARAMETER	54966A-6	54966A-7	54966A-8	54966A-9	54966A-10
Polynuclear Aromatic HC (8100)					
Acenaphthene, ug/l	<10	<10	<10	<10	<10
Acenaphthylene, ug/l	<10	<10	<10	<10	<10
Benzo(a)pyrene, ug/l	<10	<10	<10	<10	<10
Benzo(g,h,i)perylene, ug/l	<10	<10	<10	<10	<10
Benzo(b,k)fluoranthene, ug/l	<10	<10	<10	<10	<10
Chrysene + Benzo(a)anthracene, ug/l	<10	<10	<10	<10	<10
Fluoranthene, ug/l	<10	<10	<10	<10	13
Fluorene, ug/l	<10	<10	<10	<10	<10
Indeno(1,2,3-cd)pyrene+Dibenzo(a,h)anthracene, ug/l	<10	<10	<10	<10	<10
Naphthalene, ug/l	<10	<10	<10	<10	26
Phenanthrene + Anthracene, ug/l	<10	<10	<10	<10	15
Pyrene, ug/l	<10	<10	<10	<10	<10
1-Methylnaphthalene, ug/l	<10	<10	<10	<10	<10
2-Methylnaphthalene, ug/l	<10	<10	<10	<10	<10
Surrogate - 2-Fluorobiphenyl	70 %	74 %	71 %	90 %	84 %
PF Code	T	T	T	T	T
Initial Volume/Weight	1000	1000	1000	1000	1000
Final Extraction Volume (FV1)	1.0	1.0	1.0	1.0	1.0

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LOG NO: SS-54966A

Received: 07 SEP 95

Ms. Christine Hettinger
Metcalf & Eddy
1201 Peachtree St., NE
Atlanta, GA 30361

Project: HAA16/016602-4102/HUNTER AAF
Sampled By: Client

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
54966A-6	H728-MW13	09-07-95/1700	HAA16
54966A-7	H728-MW33	09-07-95/1705	HAA16
54966A-8	H728-MW2	09-07-95/1745	HAA16
54966A-9	H710-MW1	09-07-95/1820	HAA16
54966A-10	H710-ER3	09-07-95/1800	HAA16

PARAMETER	54966A-6	54966A-7	54966A-8	54966A-9	54966A-10
Dilution factor	1.0	1.0	1.0	1.0	1.0
Batch ID	0913N	0913N	0913N	0913N	0913N
Preparation Date	09.13.95	09.13.95	09.13.95	09.13.95	09.13.95
Preparation Time	1430	1430	1430	1430	1430
Analysis Time	1703	1758	1608	0021	1418
Date Analyzed	09.21.95	09.21.95	09.21.95	09.21.95	09.21.95
RES Code	PO	PO	PO	PO	BR3

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LOG NO: S5-54966A

Received: 07 SEP 95

Ms. Christine Hettinger
Metcalf & Eddy
1201 Peachtree St., NE
Atlanta, GA 30361

Project: HAA16/016602-4102/HUNTER AAF
Sampled By: Client

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	SDG#
54966A-24	Method Blank Liquid	HAA16
54966A-25	Detection Limits	HAA16

PARAMETER	54966A-24	54966A-25
Polynuclear Aromatic HC (8100)		
Acenaphthene, ug/l	<10	10
Acenaphthylene, ug/l	<10	10
Benzo(a)pyrene, ug/l	<10	10
Benzo(g,h,i)perylene, ug/l	<10	10
Benzo(b,k)fluoranthene, ug/l	<10	10
Chrysene + Benzo(a)anthracene, ug/l	<10	10
Fluoranthene, ug/l	<10	10
Fluorene, ug/l	<10	10
Indeno(1,2,3-cd)pyrene+Dibenzo(a,h)anthracene, ug/l	<10	10
Naphthalene, ug/l	<10	10
Phenanthrene + Anthracene, ug/l	<10	10
Pyrene, ug/l	<10	10
1-Methylnaphthalene, ug/l	<10	10
2-Methylnaphthalene, ug/l	<10	10
Surrogate - 2-Fluorobiphenyl	84 %	---
PF Code	T	---
Initial Volume/Weight	1000	---
Final Extraction Volume (FV1)	1.0	---
Dilution factor	1.0	---
Batch ID	0913N	---
Preparation Date	09.13.95	---
Preparation Time	1430	---
Analysis Time	2239	---
Date Analyzed	09.20.95	---
RES Code	BM1	---

SL SAVANNAH LABORATORIES
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Atlanta, GA 30361

Project: HAA16/016602-4102/HUNTER AAF
Sampled By: Client

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	SDG#
54966A-24	Method Blank Liquid	HAA16
54966A-25	Detection Limits	HAA16

PARAMETER	54966A-24	54966A-25
Purgeable Aromatics (8020)		
Benzene, ug/l	<1.0	1.0
Toluene, ug/l	<1.0	1.0
Ethylbenzene, ug/l	<1.0	1.0
Xylenes, ug/l	<1.0	1.0
Surrogate - F3-Toluene	90 %	---
PF Code	T	---
Dilution factor	1.0	---
Batch ID	0915A	---
Preparation Date	09.15.95	---
Preparation Time	0925	---
Analysis Time	0925	---
Date Analyzed	09.15.95	---
RES Code	BM1	---
Initial Volume/Weight	25	---
Final Extraction Volume (FV1)	25	---

SL SAVANNAH LABORATORIES
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LOG NO: S5-54966A

Received: 07 SEP 95

Ms. Christine Hettinger
Metcalf & Eddy
1201 Peachtree St., NE
Atlanta, GA 30361

Project: HAA16/016602-4102/HUNTER AAF
Sampled By: Client

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	SDG#
54966A-26	Method Blank Liquid	HAA16
54966A-27	Method Blank Liquid	HAA16

PARAMETER	54966A-26	54966A-27
Purgeable Aromatics (8020)		
Benzene, ug/l	<1.0	<1.0
Toluene, ug/l	<1.0	<1.0
Ethylbenzene, ug/l	<1.0	<1.0
Xylenes, ug/l	<1.0	<1.0
Surrogate - F3-Toluene	94 %	101 %
PF Code	T	T
Dilution factor	1.0	1.0
Batch ID	0915A	0915A
Preparation Date	09.15.95	09.19.95
Preparation Time	1909	0845
Analysis Time	1909	0845
Date Analyzed	09.15.95	09.19.95
RES Code	BM2	BM3
Initial Volume/Weight	25	25
Final Extraction Volume (FV1)	25	25

*F33 = Control limits are established only for surrogate concentration levels specified by EPA methods. Because the sample was diluted prior to analysis, surrogate recoveries are not reported.

Karri L. Derr

Karri L. Derr

Final Page Of Report

CHAIN-OF-CUSTODY DOCUMENTATION

M&E Metcalf & Eddy

CHAIN OF CUSTODY FORM

Job/Project Name: Hunter AAF Phase I	Job/Project Location: Savannah, GA	Job/Project Number: 016602-4102
Samplers: (Signatures) Greg Rowell	Recorder: (Signature) Greg Rowell	Date: 6-28-95
Lab (Samples Sent To): Savannah LAB		

SAMPLING Date	SAMPLING Time	SAMPLE NUMBER	SAMPLE LOCATION	MATRIX Water	MATRIX Soil	COMPOSITE/GRAB	PRESERVATIVE (Y/N)	ANALYSIS REQUESTED VOC (8020)	GRO (8015P)	DRO (8015E)	PAH (8100)	Total #	COMMENTS
6-27-95	1750	H728-HA101	H728		X	G	N	X	X	X	X	2	
↓	1825	H728-HA102	H728		↓	↓	↓	↓	↓	↓	↓	↓	
↓	—	H728-HA120	↓		↓	↓	↓	↓	↓	↓	↓	↓	
6-28-95	0900	H728-HA103	↓		↓	↓	↓	↓	↓	↓	↓	↓	
↓	0930	H728-HA104	↓		↓	↓	↓	↓	↓	↓	↓	↓	
↓	—	Temp		X		↓	↓	↓	↓	↓	↓	1	
↓	0830	H710-HA1 9 or 2	H710		X	↓	↓	X	X	X	X	2	

Relinquished By: (Signature) Greg Rowell	Date: 6-28-95 Time: 1200	Relinquished By: (Signature)	Relinquished By: (Signature)	Date: Time:	Received By: (Signature)
Relinquished By: (Signature)	Date: Time:	Relinquished By: (Signature)	Relinquished By: (Signature)	Date: Time:	Received By: (Signature)
Relinquished By: (Signature)	Date: Time:	Received for Lab By: (Signature) V. Bruscher	Date: 6.28.95 Time: 1200	Comments:	
Method of Shipment: M&E Courier		~~53555~~ 53556			

Distribution: **Original** to Lab. **Copy 1** to Field Files, **Copy 2** to Project Manager

Form 274 (Rev. 5/89)

SAMPLE RECIEPT CONFIRMATION SUMMARY REPORT

* TO BE COMPLETED BY SUBCONTRACTOR SAMPLE CUSTODIAN FOR EACH SHIPMENT RECEIVED FROM METCALF & EDDY.

* UPON COMPLETION,FAX TO THE DESIGNATED METCALF & EDDY REPRESENTATIVE LISTED BELOW SAME DAY AS SHIPMENT.

METCALF & EDDY Representative CHRISTINE HETTINGER — FAX Number 404/872-3161

SUBCONTRACTOR SAVANNAH LABORATORIES - SAVANNAH — PROJECT # 016602-4102/HUNTER AAF

Sample Custodian Lona Bonds 53556 — Today's Date 6-28-95

DATE/TIME SAMPLES RECEIVED 6-28-95/12:00pm V. Baisden

AIRBILL NUMBER _____ — No. of Coolers in shipment 1

DATE/TIME COOLER OPENED 6-28-95 1:00pm

CHAIN OF CUSTODY SEAL INTACT? YES ✓ NO _____

CHAIN OF CUSTODY PROVIDED? YES ✓ NO _____

SAMPLE LABELS PRESENT? YES ✓ NO _____

BOTTLE LABELS CORRESPOND W/COC? YES ✓ NO _____

TYPE OF COOLANT USED Ice

COOLANT CONDITION; MELTED _____ PARTIALLY MELTED/FROZEN

FROZEN _____

COOLER TEMPERATURE # 0.8 TEMP _____

RECORD TEMPERATURE BLANK (1) 0.8°C (2) _____ (3) _____

CONDITION OF BOTTLES IN SHIPMENT: (BROKEN, LEAKING, INTACT)

IF BROKEN OR LEAKING LIST SAMPLE ID#'S AND BOTTLE TYPES AFFECTED

COMMENTS

Metcalf & Eddy

CHAIN OF CUSTODY FORM

Job/Project Name: HAAF | Job/Project Location: Sav. GA | Job/Project Number: 016602-4102

Samplers: (Signatures) D. Humphris Robert Johnson | Recorder: (Signature) D. Humphris | Date: 8/5/95

Lab (Samples Sent To): Sav. Labs

SAMPLING Date	SAMPLING Time	SAMPLE NUMBER	SAMPLE LOCATION	MATRIX Water	MATRIX Soil	COMPOSITE/GRAB	PRESERVATIVE (Y/N)	ANALYSIS REQUESTED 8020/8021B/P	8100/8015E	6010/7000 Metals	PET HC	Total #	COMMENTS
8/5/95	0823	H710-SB1	3-5'		✓	G	N	1	1			2	
"	1157	H710-SB2	3-5'		✓	G	N	1	1			2	ICEWATER WFILTRATED SAMPLE JARS
"	1157	H710-SB7	3-5'		✓	G	N	1	1			2	ICEWATER WFILTRATED SAMPLE JARS
"	1005	H710-SB3	3-5'		X	G	N	1	1			2	
"	1220	H710-SB4	5-7'		X	G	N	1	1			2	
"	1620	H710-SB5	3-5'		X	G	N	1	1			2	
		H710-TB34		X		G	HCl	3				3	
8/6/95	0840	H710-SB6	3-5		✓	G	N	1	1			2	
	1150	H733-SB2	7-9		✓	G	N	1	1	1	1	4	
	1150	H733-SB7	7-9		✓	G	N	1	1	1	1	4	
	1513	H728-SB23	3-5'		✓	G	N	1	1			2	
8/7/95	1028	H728-SB25	7-9		✓	G	N	1	1				

Relinquished By: (Signature)	Date:	Time:	Relinquished By: (Signature)	Relinquished By: (Signature)	Date:	Time:	Received By: (Signature)
[signature]	8-7-95	1740					
Relinquished By: (Signature)	Date:	Time:	Relinquished By: (Signature)	Relinquished By: (Signature)	Date:	Time:	Received By: (Signature)
Relinquished By: (Signature)	Date:	Time:	Received for Lab By: (Signature)	Date:	Time:	Comments:	
			[signature] Borcb 5436	8-8-95	9:05 am	8/8 per David Humphris use H133-SB2 for MS/MSD BH	

Method of Shipment:

Distribu Original to Lab. Copy 1 to Field Files, Copy 2 to Project Manager

Form 274 (Rev. 5/89)

SAMPLE RECIEPT CONFIRMATION SUMMARY REPORT

* TO BE COMPLETED BY SUBCONTRACTOR SAMPLE CUSTODIAN FOR EACH SHIPMENT RECEIVED FROM METCALF & EDDY.

* UPON COMPLETION, FAX TO THE DESIGNATED METCALF & EDDY REPRESENTATIVE LISTED BELOW SAME DAY AS SHIPMENT.

METCALF & EDDY Representative: CHRISTINE HETTINGER — FAX Number: 404/872-3161

SUBCONTRACTOR: SAVANNAH LABORATORIES - SAVANNAH — PROJECT #: 016602-4102/HUNTER AAF

Sample Custodian: L. Bonds 54366 — Today's Date: 8-8-95

DATE/TIME SAMPLES RECEIVED: 8-8-95 / 8:05 am

AIRBILL NUMBER: _____ — No. of Coolers in shipment: 2

DATE/TIME COOLER OPENED: 8-8-95 / 8:05 am

CHAIN OF CUSTODY SEAL INTACT? YES: ✓ NO: _____

CHAIN OF CUSTODY PROVIDED? YES: ✓ NO: _____

SAMPLE LABELS PRESENT? YES: ✓ NO: _____

BOTTLE LABELS CORRESPOND W/COC? YES: ✓ NO: _____

TYPE OF COOLANT USED: Wet Ice

COOLANT CONDITION: MELTED _____ PARTIALLY MELTED/FROZEN _____

FROZEN _____

COOLER TEMPERATURE #	TEMP
#1	3.6
#2	4.2

RECORD TEMPERATURE BLANK (1) 3.6 (2) 4.2 (3) _____

CONDITION OF BOTTLES IN SHIPMENT: (BROKEN, LEAKING, INTACT?)

IF BROKEN OR LEAKING LIST SAMPLE ID#'S AND BOTTLE TYPES AFFECTED

COMMENTS _____

M&E Metcalf & Eddy

CHAIN OF CUSTODY FORM

Job/Project Name: Hunter AAF | Job/Project Location: Savannah GA | Job/Project Number: 016602-4102

Samplers: (Signatures) Daniel Howard | Recorder: (Signature) Daniel Howard | Date: 9/7/95

Lab (Samples Sent To): Savannah Labs

SAMPLING Date	SAMPLING Time	SAMPLE NUMBER	SAMPLE LOCATION	MATRIX Water	MATRIX Soil	COMPOSITE/GRAB	PRESERVATIVE (Y/N)	ANALYSIS REQUESTED PAH (8100)	Metals (6000/7000)	Mercury	Total # Bottles	COMMENTS
9/7/95	1500	H728-MW12	H728	X		G	N	X			2	Preserved
	1535	H728-MW6		X		G	N	X			2	Metals-HNO_3
	1605	H728-MW4		X		G	Y	X	X	X	4	
	1625	H728-MW7		X		G	N	X			2	
	1700	H728-MW13		X		G	N	X			2	
	1705	H728-MW33		X		G	N	X			2	
	1745	H710-MW2	H710	X		G	N	X			2	
	1820	H710-MW1		X		G	N	X			2	
	1800	H710-ER23		X		G	N	X			2	
	1830	H710-SMW1 DN		X		G	N	X			2	
												All samples are cooled

Relinquished By: (Signature)	Date:	Time:	Relinquished By: (Signature)	Relinquished By: (Signature)	Date:	Time:	Received By: (Signature)
David Howard	9/7/95	2049					
Relinquished By: (Signature)	Date:	Time:	Relinquished By: (Signature)	Relinquished By: (Signature)	Date:	Time:	Received By: (Signature)
Relinquished By: (Signature)	Date:	Time:	Received for Lab By: (Signature)	Date:	Time:	Comments:	
			Joan Timeus	9/7/95	8:50 pm		

Method of Shipment: M-E Courier 54946

Distribution: Original to Lab. Copy 1 to Field Files, Copy 2 to Project Manager

Form 274 (Rev. 5/89)

Metcalf & Eddy

CHAIN OF CUSTODY FORM

Job/Project Name: Hunter AAF	Job/Project Location: Savannah, GA	Job/Project Number: 016602-4102
Samplers: (Signatures) Daniel Howard	Recorder: (Signature) Daniel Howard	Date: 9/7/95
Lab (Samples Sent To): Savannah Labs		

SAMPLING Date	SAMPLING Time	SAMPLE NUMBER	SAMPLE LOCATION	MATRIX Water	MATRIX Soil	COMPOSITE/GRAB	PRESERVATIVE (Y/N)	BTEX (8020)	Total # Bottles	COMMENTS
9/7/95	1700	H728-MW13	H728	X		G	Y	X	3	Pres
	1705	H728-MW33	↓	X		G	Y	X	3	BTEX-HCl
	1745	H710-MW2	H710	X		G	Y	X	3	
	1820	H710-MW1		X		G	Y	X	3	
	1800	H710-ER3		X		G	Y	X	3	
	1830	H710-SMW1	↓	X		G	Y	X	3	
↓		TEMP	Blank	X		G	Y		1	
										All samples are cooled

Relinquished By: (Signature) Daniel Howard	Date: 9/7/95 Time: 2050	Relinquished By: (Signature)	Relinquished By: (Signature)	Date: Time:	Received By: (Signature)
Relinquished By: (Signature)	Date: Time:	Relinquished By: (Signature)	Relinquished By: (Signature)	Date: Time:	Received By: (Signature)
Relinquished By: (Signature)	Date: Time:	Received for Lab By: (Signature) Joan Jenkins	Date: 9/7/95 Time: 8:50pm	Comments:	
Method of Shipment M&E Courier		54964			

Distribution: Original to Lab. Copy 1 to Field Files, Copy 2 to Project Manager

Form 274 (Rev. 5/89)

M&E Metcalf & Eddy

CHAIN OF CUSTODY FORM

Job/Project Name: Hunter AAF | Job/Project Location: Savannah, GA | Job/Project Number: 016602-4102

Samplers: (Signatures) Daniel Howard | Recorder: (Signature) Daniel Howard | Date: 9/8/95

Lab (Samples Sent To): Savannah Labs

SAMPLING Date	SAMPLING Time	SAMPLE NUMBER	SAMPLE LOCATION	MATRIX Water	MATRIX Soil	COMPOSITE/GRAB	PRESERVATIVE (Y/N)	BTEX (8020)	PAH (8100)	Total # Bottles	COMMENTS
9/8/95	0855	H710-MW5	H710	X		G	N		X	2	
	1010	H710-MW4		X		G	N		X	2	
	1015	H710-MW7		X		G	N		X	2	
	1030	H710-MW3		X		G	N		X	2	
	—	TEMP	Blank	X						1	
											All samples are cooled

Relinquished By: (Signature)	Date:	Time:	Relinquished By: (Signature)	Relinquished By: (Signature)	Date:	Time:	Received By: (Signature)
Daniel Howard	9/8/95	1247					
Relinquished By: (Signature)	Date:	Time:	Relinquished By: (Signature)	Relinquished By: (Signature)	Date:	Time:	Received By: (Signature)
Relinquished By: (Signature)	Date:	Time:	Received for Lab By: (Signature)	Date:	Time:	Comments:	
			J Baker	9/8/95	12:47		

Method of Shipment: M&E Courier 55-54990 (B)

Distribution: Original to Lab. Copy 1 to Field Files, Copy 2 to Project Manager

Form 274 (Rev. 5/89)

Metcalf & Eddy

CHAIN OF CUSTODY FORM

Job/Project Name: Hunter AAF	Job/Project Location: Savannah, GA	Job/Project Number: 016602-4102
Samplers: (Signatures) Daniel Howard	Recorder: (Signature) Daniel Howard	Date: 9/8/95
Lab (Samples Sent To): Savannah Labs		

	SAMPLING		SAMPLE NUMBER	SAMPLE LOCATION	MATRIX					COMPOSITE/GRAB	PRESERVATIVE (Y/N)	ANALYSIS REQUESTED									COMMENTS
	Date	Time			Water	Soil	Sediment					BTEX (8020)	PAH (8100)	TPH (8015P)	TPH (8015E)					Total # Bottles	
*	9/8/95	0700	H133-SE2	H133			X			G	N	X	X	X	X					2	Pres water!
		0710	H710-TB36	H710	X					G	Y	X								3	BTEX - HCl
		0715	~~H133-SE1~~ PH H133-SE1	H133			X			G	N	X	X	X	X					2	
		0720	H133-SE3	↓			X			G	N	X	X	X	X					2	*
		0815	H710-MW6	H710	X					G	Y	X	X							5	Use sample 8"
		0815	H710-MW6 MS/MSD		X					G	Y	X	X							10	H133-SE2
		0855	H710-MW5		X					G	Y	X								3	as MS/MSD also
		1010	H710-MW4		X					G	Y	X								3	
		1015	H710-MW7		X					G	Y	X								3	
		1030	H710-MW3		X					G	Y	X								3	
	↓	—	TEMP	Blank	X					~~G~~ DH	DH X									1	All samples are cooled

Relinquished By: (Signature) Daniel Howard	Date: 9/8/95 Time: 1247	Relinquished By: (Signature)	Relinquished By: (Signature)	Date: Time:	Received By: (Signature)
Relinquished By: (Signature)	Date: Time:	Relinquished By: (Signature)	Relinquished By: (Signature)	Date: Time:	Received By: (Signature)
Relinquished By: (Signature)	Date: Time:	Received for Lab By: (Signature) J Baker	Date: 9/8/95 Time: 12:47	Comments:	
Method of Shipment M+E Courier		55-54990 (M)			

Distribution: Original to Lab. Copy 1 to Field Files. Copy 2 to Project Manager

Form 274 (Rev. 5/89)

SAMPLE RECEIPT CONFIRMATION SUMMARY REPORT

Metcalf & Eddy

TO BE COMPLETED BY SUBCONTRACTOR SAMPLE CUSTODIAN FOR EACH SHIPMENT RECEIVED FROM METCALF & EDDY

UPON COMPLETION, FAX TO THE DESIGNATED M&E REPRESENTATIVE LISTED BELOW SAME DAY AS SHIPMENT

METCALF & EDDY Representative CHRISTINE HETTINGER FAX # 404/872-3161

SUBCONTRACTOR SAVANNAH LABORATORIES & ENV. SERVICES, INC. PROJECT # 016602-4102/HAAF

SAMPLE CUSTODIAN Lanora Baker (A) TODAY'S DATE 9-8-95

DATE/TIME SAMPLES RECEIVED 9/8/95 12:47 55-54990

AIRBILL NUMBER _____ NO. OF COOLERS IN SHIPMENT 2

COOLER OPENED: DATE 9-8-95 TIME 2:25

CHAIN OF CUSTODY SEAL INTACT? YES ☑ NO ☐

CHAIN OF CUSTODY PROVIDED? YES ☑ NO ☐

SAMPLE LABELS PRESENT? YES ☑ NO ☐

BOTTLE LABELS CORRESPOND W/COC? YES ☑ NO ☐

TYPE OF COLLANT USED wet ice

COOLANT CONDITION: MELTED _____ PARTIALLY MELTED/FROZEN _____

FROZEN

COOLER NUMBER # #1 TEMP INSIDE COOLER 1.4

_____ _____

_____ _____

_____ _____

_____ _____

RECORD TEMPERATURE BLANK (1) 1.4 (2) _____ (3) _____

CONDITION OF BOTTLES IN SHIPMENT: (BROKEN, LEAKING, INTACT?)

IF BROKEN OR LEAKING LIST SAMPLE ID#'S AND BOTTLE TYPES AFFECTED

LIST SAMPLE ID'S IN EACH SHIPMENT: H710-MW6 / H710-MW6 MS/MSD
H710-MW3/H710-MW4 / H710-MW5/H710-MW7/H710-TB36
H133-SE1 / H133-SE2 / H133-SE3

SAMPLE RECEIPT CONFIRMATION SUMMARY REPORT

Metcalf & Eddy

TO BE COMPLETED BY SUBCONTRACTOR SAMPLE CUSTODIAN FOR EACH SHIPMENT RECEIVED FROM METCALF & EDDY

UPON COMPLETION, FAX TO THE DESIGNATED M&E REPRESENTATIVE LISTED BELOW SAME DAY AS SHIPMENT

METCALF & EDDY Representative CHRISTINE HETTINGER FAX # 404/872-3161

SUBCONTRACTOR SAVANNAH LABORATORIES & ENV. SERVICES, INC. PROJECT # 016602-4102/HAAF

SAMPLE CUSTODIAN Lavora Baker TODAY'S DATE 9-8-95

55-54990

DATE/TIME SAMPLES RECEIVED 9-8-95 12:47

AIRBILL NUMBER _____ NO. OF COOLERS IN SHIPMENT 2

COOLER OPENED: DATE 9-8-95 TIME 7:25

CHAIN OF CUSTODY SEAL INTACT? YES [✓] NO [ ]

CHAIN OF CUSTODY PROVIDED? YES [✓] NO [ ]

SAMPLE LABELS PRESENT? YES [✓] NO [ ]

BOTTLE LABELS CORRESPOND W/COC? YES [✓] NO [ ]

TYPE OF COLLANT USED wet ice

COLANT CONDITION: MELTED _____ PARTIALLY MELTED/FROZEN _____

(FROZEN) _____

COOLER NUMBER # #2 TEMP INSIDE COOLER 1.2

_____ _____

_____ _____

_____ _____

_____ _____

RECORD TEMPERATURE BLANK (1) 1.2 (2) _____ (3) _____

CONDITION OF BOTTLES IN SHIPMENT: (BROKEN, LEAKING, (INTACT?))

IF BROKEN OR LEAKING LIST SAMPLE ID#'S AND BOTTLE TYPES AFFECTED

H710-MW3

LIST SAMPLE ID'S IN EACH SHIPMENT: H710-MW5 / H710-MW7 H710-MW4

H710-MW3