

Former Griffiss Air Force Base Year 2000 Expanded Site Investigation

Volume II

**Contract Number: DACW41-99-D-9005
Work Authorization Directive 03**

December 2001

Prepared for:

U.S. ARMY CORPS OF ENGINEERS
Kansas City District
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Kansas City, Missouri 64106

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A

Subsurface Logs

Borehole Record for OTH-5485-2-SS01

- Drilling Log
- Narrative Lithologic Description
- Well Development Record
- Well Development -- Parameter Measurements
- Investigation - Derived Waste Inventory Sheet

31 Aug 94

HTRW DRILLING LOG		DISTRICT <i>OSACE CC</i>		HOLE NUMBER <i>OTH5485-SS01</i>	
1 COMPANY NAME <i>Ecology & Environment</i>		2 DRILL SUBCONTRACTOR <i>MAXIM</i>		SHEET <i>1</i> OF <i>10</i>	
3 PROJECT <i>ESI Addendum</i>		4 LOCATION <i>ROME, NY, Former GAFB</i>			
5 NAME OF DRILLER <i>AT Kimball / Scott Phouh</i>		6 MANUFACTURER'S DESIGNATION OF DRILL <i>ACKAR 87</i>			
7 SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT <i>HSA 4 1/4" Auger</i>		8 HOLE LOCATION <i>OTH5485-2-SS01</i>			
9 SURFACE ELEVATION		10 DATE STARTED <i>4/3/00</i>			
11 DATE COMPLETED <i>4/4/00</i>		12 OVERBURDEN THICKNESS <i>24.0</i>			
13 DEPTH DRILLED INTO ROCK <i>0</i>		15 DEPTH GROUNDWATER ENCOUNTERED <i>30.5 BGS</i>			
14 TOTAL DEPTH OF HOLE <i>39</i>		16 DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED <i>30.83 FEET, 5:17:00 @ 1750</i>			
17 OTHER WATER LEVEL MEASUREMENTS (SPECIFY)		18 GEOTECHNICAL SAMPLES			
DISTURBED		UNDISTURBED		19 TOTAL NUMBER OF CORE BOXES	
20 SAMPLES FOR CHEMICAL ANALYSIS		VOC		METALS	
21 TOTAL CORE RECOVERY		OTHER (SPECIFY)		OTHER (SPECIFY)	
22 DISPOSITION OF HOLE		MONITORING WELL		OTHER (SPECIFY)	
23 SIGNATURE OF INSPECTOR		24 SIGNATURE OF DRILLER		25 SIGNATURE OF WITNESS	
LOCATION SKETCH/COMMENTS: <i>SS01</i> at <i>F30</i> SCALE: <i>Not to scale</i>					
PROJECT <i>ESI Addendum</i>		HOLE NO <i>OTH5485-2-SS01</i>			

ENG FORM 5056-R, AUG 94

(Proponent: CECW-EG)

Figure 4-2. HTRW Drilling Log

07H5485-2-SS01

Lock Number Bx1

UK03.03

SCREENED WELL

OPEN-HOLE WELL

Stick-up 1.54 ft

Inner Casing Material PVC Schedule 40

Inner Casing Inside Diameter 2 inches

Stick-up _____ ft

Inner Casing Material _____

Inner Casing Inside Diameter _____ inches

Top of Grout _____ ft

Top of Seal at _____ ft

Top of Sand Pack 252 ft

Top of Screen at 28 ft

Bottom of Screen at 32 ft

Bottom of Hole at 39 ft

Bottom of Sandpack at 39 ft

Quantity of Material Used:

Bentonite Pellets _____

Cement _____

Borehole Diameter 3 1/2 inches

Cement/Bentonite _____

Grout _____

Screen Slot Size 0.010

Screen Type _____

☒ PVC Schedule 40

☐ Stainless Steel

Pack Type _____

☒ Sand Wine 40 45 bags x 50 lbs

☐ Gravel

☐ Natural

Outer Casing Diameter _____ inches

Borehole Diameter _____ ft

Bedrock _____ ft

Bottom of Rock Socket/Outer Casing _____ ft

Bottom of Inner Casing _____ ft

Corehole Diameter _____

Bottom of Corehole _____ ft

NOTE: See pages 136 and 137 for well construction diagrams

Depth-ft.	NARRATIVE LITHOLOGIC DESCRIPTION	Moisture Content		
		Dry	Moist	Wet
0-1	CLAYEY SAND: Low cohesion, low plasticity Brown clayey sand moist to dry	☒	☒	☐
1-2	NR	☐	☐	☐
2-2.5	Clayey sand as above	☐	☐	☐
2.4-4	Gray brown SILTY CLAY: silty-clay with some mottling (grayish) gray/brown color, little gravel, dry, medium plasticity and cohesion	☐	☐	☐
4-4+1"	Mottled silty clay as above	☐	☐	☐
4+1"-4+2"	Gravel with silty clay	☐	☐	☐
4+2"-4+10"	Same gray silty clay no mottling little gravel	☐	☐	☐
4+10"-5	Sand: Brown, medium well sorted sand, wet	☐	☐	☐
5-5+3"	Silty clay as above	☐	☐	☐

HTW DRILLING LOG

HOLE NO. 07H5425-SS01

PROJECT *ESI Addendum*

INSPECTOR *Leo Angelidis*

SHEET OF 3 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEO TECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
	1	SC Brown clayey sand cohesion low, plasticity low, dry	0	—	1353 07H5425- 2-SS01 -21 Co-1	2/2 3/3	
	2	NR					
	3	clayey sand as above SC	2 ppm in borehole			15/18	
	4	SILTY CLAY, reddish gray clay with gray mottling, & H-be gravel silty, medium plasticity & cohesion, A/CL	soil & BZ			18/18	
	5	CL with SP	3 ppm in borehole			16/20 22/26	
	6		soil & BZ sand				
	7	gray silty clay with gray clay at 6' to 7' - CL	8 ppm in hole	6' to 7' SPCM (CLH)		7/12	
	8	8-8.1 Gray clay CL	8 ppm in hole			28/16	
	9	8.1 - 8.25 Gravel (chale granite ls)					
	10	8.25 - 8.8 Sand & gravel GP	0.4 in the clay				

Depth (feet)

NARRATIVE LITHOLOGIC DESCRIPTION

Moisture
Content

Dry
Moist
Wet

5.3'-5.4" - Same as above

5.4'-5.5 - Same silty clay as above

5.5-6 = NR

6-7.4" - Same gray silty clay low to medium cohesion & plasticity, dry mottled, little gravel

At 6.4"-7 - Gray clay high cohesion, low med. plasticity, no gravel

7-8 NR

8-8.1 Gray clay high plasticity & cohesion - moist

8.1-8.2 Gravel/cobbles

8.2-8.8 sand & gravel, brown sand & clay & cobbles

8.8-9.0 NR

9.0-10.4 Gray clay & cobbles

10.4-10.5 Sand & gravel? Brown sand & chert gravel medium sand, moist/dry

10.5-11 Silty clay, Gray silty clay & cobbles

11-12 NR

12-13 Same as above

13-14 NR

14-14.2 Silty clay as above dry/moist (10 ppm)

14.2-15 SAND - Brown orange medium sand

15-15.6 NR

16-17 SAND Brown orange medium sand with fine layers of silty clay & gravel

17-18 NR

18-19.2 SAND + GRAVEL medium sand & large

19.2-20 NR gravel (> 1" some > 2")

HTW DRILLING LOG

PROJECT

ESI Addendum

INSPECTOR

L. Angelini

HOLE NO.

0TH59

SHEET

5

OF

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEO TECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARK h
		NR	—	—		51/27	
	10	10-10.4 clay with cobbles (CL)			60gpm	15/14	
		10.4-10.5 sand + gravel (SP)			is hole		
		10.5-11 silty clay (CL)			rock grinding		
		NR			50gpm	10/8	
					cutting		
					sand		
					100m		
					in rest		
		Silty clay & cobbles CL			15gpm	19/29	
					in hole		
					0.6 in		
					soil	22/21	
	14	14-14.2 Silty clay (CL)			7gpm	16/10	(1532)
		with little gravel (limestone)			10gpm		
		14.2-15.5 Sand			in div	10/15	
		Brown medium uniform sand SW			(CH4)		
		Top 1.5" silty clay as above (CL)			90gpm	7/15	
		SW			in hole		
		SAND (brown medium moist sand) with					
		layers of gray clay					
		and gravel (limestone)					
		NR					

OTH5485-2-5801

Sheet 6 of 10

Depth

NARRATIVE LITHOLOGIC DESCRIPTION

Moisture Content

Dry Moist

20-21.5	Shale 60% 30% Brown fine sand, 10% silt			
21.5-22	NR			
22-23.4	Shale & sand mix (40/60%) a some clay at 22.8-22.9' 36's, SAND at the bottom 1"			
23.4-24	NR			
24-25.4	SAND well sorted fine brown sand			
25.4-26	NR			
26-27.4	SAND as above, dry			
27.4-28	NR			
28-29.5	SAND as above dry to moist, moist			
29.5-30	NR at 29.4' wet at 29.4			
30-31.5	SAND as above saturated at 30.5			
31.5-32	NR			
32-32.5	SAND as above			
32.5-32.75	Brown silty clay medium cohesion & plasticity saturated			
32.75-33.6	Gray clay high cohesion & plasticity saturated			
33.6-34	NR			
34-34+9 1/4"	Fine Gravel little sand & clay, gray			
34+9 1/4"-34.5	Fine brown sand			
34.5-34.65	Coarse sand gray & clay			
34.65-35.2	Medium Gravel clay gray some sand			
35.2-36.0	NR			
36.0-36.2	SAND: brown silty fine sand			
36.2-36.5	SILTY SAND + GRAVEL Gray silty fine sand & coarse to fine gravel (a piece of 2")			
36.5-36.8	SILTY CLAYEY SAND gray NR			
36.8-37	NR			

NTW DRILLING LOG

HOLE NO. 014504
5501
SHEET 7
OF SHEETS

PROJECT 2 ESI Adjudication

INSPECTOR J. Fugle (LH)

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
	18	SP medium sand & coarse gravel (15) dry	10ppm in hole			55/76	
	19	NR	0.2 in soil			27/41	
	20	GM 30% SAND (fine to v. fine) & shale (60%) & some silt	4ppm in hole			29/18	
	21	NR	1ppm in soil			14/15	
	22	SP Brown SAND & SHALE mix (50/40%) some clay (at 22.8-22.9) 1" at bottom sand (brown fine to medium)	0 ppm			40/28	
	23	NR				15/15	
	24	SW Brown well sorted fine sand dry	0.8 CH ₄ 6 total in hole 0 in soil			15/8	
	25	NR				12/12 (847)	
	26	SW as above	0			13/14	

OTH 5485-2-5501

Sheet 8 of 10

Depth (feet)

NARRATIVE LITHOLOGIC DESCRIPTION

Moisture
Content

Dry 

Augered to 38' BGS (no refusal)
Bottom of hole will be at 38' BGS

[Handwritten signature]

7/1/00

[Handwritten notes at bottom]

HTW DRILLING LOG

PROJECT

EST Addendum

INSPECTOR

L. Angeli

HOLE NO.

05H3485-2

SHEET

9 OF SHEETS 10

ELEV.
a

DEPTH
b

DESCRIPTION OF MATERIALS
c

FIELD SCREENING
RESULTS
d

GEOTECH SAMPLE
OR CORE BOX NO.
e

ANALYTICAL
SAMPLE NO.
f

BLOW
COUNTS
g

REMARKS
h

27

27.5

28

29

30

31

32

33

34

35

36

NR

SW as above
moist at bottom

NR

SW as above
saturated

NR

SW

Silty clay brown

CH
high plasticity gray clay

NR

Gravel (fine + silty sand)

SW
Coarse sand + silty clay

Silty clay + gravel (medium)

NR

0

0

0

915
OTH
5485-
2-5801-
82
(2830)

17/21

10R

14/15

6/8

10/11

14/20

28/30

24/20

36/50

PAGE NO.
 074548
 SHEET 10
 OF 10 SHEETS

PROJECT

ESI Addressing

INSPECTOR

L. Angekhi

SHEET 10
OF 10 SHEETS

MRK FORM 55-2	PROJECT <i>EI Addendum</i>	ecology and environment
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Borehole Record for OTH 5485-2-SS02

- Drilling Log
- Narrative Lithologic Description
- Well Development Record
- Well Development -- Parameter Measurements
- Investigation - Derived Waste Inventory Sheet

31 Aug 94

HTRW DRILLING LOG				DISTRICT <u>USACE KC</u>		HOLE NUMBER <u>OTH 5485-2-SS02</u>	
1. COMPANY NAME <u>E+E</u>			2. DRILL SUBCONTRACTOR <u>MAXIM</u>			SHEET <u>1</u> OF <u>4</u>	
3. PROJECT <u>ESI Addendum</u>			4. LOCATION <u>ROME, NY / Griffiss Park</u>				
5. NAME OF DRILLER <u>Al Kimbal</u>			6. MANUFACTURER'S DESIGNATION OF DRILL <u>CMF850 ATV</u>				
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT <u>LISA 4 1/4 auger</u> <u>Split Spoon 2" & 3" ss</u>			8. HOLE LOCATION <u>OTH 5485-2-SS02</u>				
			9. SURFACE ELEVATION <u>---</u>				
			10. DATE STARTED <u>4/6/00</u>		11. DATE COMPLETED <u>4/6/00</u>		
12. OVERBURDEN THICKNESS <u>> 31.5' BGS</u>			15. DEPTH GROUNDWATER ENCOUNTERED <u>22.2</u>				
13. DEPTH DRILLED INTO ROCK <u>---</u>			16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED <u>22.16 TOEC, 5-17-00 @ 160'</u>				
14. TOTAL DEPTH OF HOLE <u>31.5' BGS</u>			17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) <u>---</u>				
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED		19. TOTAL NUMBER OF CORE BOXES <u>---</u>	
20. SAMPLES FOR CHEMICAL ANALYSIS		VOC		METALS		OTHER (SPECIFY) <u>SVOCs, PCBs, Pesticides, 30 solids</u>	
<u>SS02-21, 22</u>		<u>✓</u>		<u>✓</u>		21. TOTAL CORE RECOVERY <u>---</u>	
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL		OTHER (SPECIFY) <u>TEMP WELL</u>	
						23. SIGNATURE OF INSPECTOR <u>[Signature]</u>	
LOCATION SKETCH/COMMENTS <u>See also Fig. 3-6 of FSP</u> <u>SCALE Not to scale</u>							
PROJECT <u>ESI Addendum</u>						HOLE NO <u>OTH 5485-2-SS02</u>	

ENG FORM 5056-R, AUG 94

(Proponent: CECM)

Figure 4-2. HTRW Drilling Log

Sheet 2 of 8
2 of 9

Lock Number BX-1

DT45485-2-5502

SCREENED WELL

Inner Casing Material PVC Schedule 40

OPEN-HOLE WELL

Stick-up

Inner Casing Material

Inner Casing Inside Diameter

Stick-up 1.77 ft

Inner Casing Inside Diameter 2 inches

GROUND SURFACE

Top of Grout NA ft

Quantity of Material Used:

Bentonite Pellets

Cement

Borehole Diameter 8 1/2 inches

Cement/Bentonite

Grout

Screen Slot Size 0.010

Screen Type

☒ PVC Schedule 40

☐ Stainless Steel

Pack Type/Size

☒ Sand None #2 290 lbs

☐ Gravel

☐ Natural

Top of Seal NA ft

Top of Sand Pack 18 ft

Top of Screen at 26.6 ft BGS

Bottom of Screen at 30.6 ft

Bottom of Hole at 31.5 ft BGS

Bottom of Sandpack at 31.5 BGS

Outer Casing Diameter

Borehole Diameter

Bedrock

Bottom of Rock Socket/Outer Casing

Bottom of Inner Casing

Corehole Diameter

Bottom of Corehole

NOTE: See pages 136 and 137 for well construction diagrams

Depth-ft.	NARRATIVE LITHOLOGIC DESCRIPTION	Moisture Content		
		Dry	Moist	Wet
0	0-0.5 : TOPSOIL CLAYEY SILTY SAND (fine) organic black wet rock	☐	☒	☒
1	0.5-1 : Same as above, moist roots	☐	☒	☒
	1-1.4 : SAND - orange/brown silty fine sand, roots	☐	☒	☒
2	1.4-2 : NR	☐	☐	☐
	2.-2.5 = SAND as above	☐	☐	☐
4	2.5-3.1 = NR - Rock stuck in shoe	☐	☐	☐
	4-4.5 : SAND + Shale: Medium sand & shale (50-50%)	☐	☐	☐
	4.5-4.8 : Limestone fragments	☐	☐	☐
	4.8-5.3 : SAND + FILL-LIKE MATERIAL: Brown/orange sand (medium and fine) with rock fragments	☐	☐	☐
6	5.3-6 NR	☐	☐	☐
	6-7.5 SAME AS ABOVE	☐	☐	☐
	2" TOP: 2" x 1.5" Stone	☐	☐	☐
	2" Bottom clayey silty sand matrix, dry	☐	☐	☐

HTW DRILLING LOG

PROJECT

ESI Addendum

INSPECTOR

L. Angelino

HOLE NO.

7-50

SHEET

OF

3 of 9

SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEO TECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
	1	Top soil wet to moist	0	—	(1422) 0THS485- 2-SS02- 21 0-2"	1/1	
	2	SP with silty clay orange brown NR				3/4	
	3	SP as above rock stuck in shoe				3/3	
	4	NR	0	—	—	4/5	
	5	FILL LIKE MATERIAL 50% Medium + fine sand 50% rock fragments, dry	0	—	—	17/20 11/12	
	6	NR					
	7	SAME AS ABOVE 2" x 1.5" gravel on top little more silty clayey at bottom, dry	0	—	—	9/12 14/9	
	8	SAND + FRAGMENTS OF ROCK SILTY CLAYEY SAND + FRAGMENTS SM to SC	0	—	—	7/14	

Depth (feet)	NARRATIVE LITHOLOGIC DESCRIPTION	Moisture Content		
		Dry	Moist	Wet
8	7.5-8: NR	☐	☐	☐
	8-8.4 SAME AS ABOVE with medium sand no to v. little silt or clay	☒	☐	☐
	8.4-9.0 SILTY CLAY SAND MATRIX (medium sand) with rock fragments (50/50)	☐	☐	☐
	9-9.2 SAND + FRAGMENTS (coarse brown med. sand)	☒	☒	☐
10	9.2-10 NR	☐	☐	☐
	10-10.4 SILTY FINE SAND with some gravel & rock fragments & v. little clay (gray) little matrix	☐	☒	☐
	10.4-10.6 Rock fragments	☒	☐	☐
	10.6-11.2 SILTY FINE SAND with shale fragments	☒	☐	☐
	11.2-12 NR	☒	☐	☐
	12-12.8 SHALE + LIMESTONE FRAGMENTS (small)	☒	☐	☐
	12.8-14 NR	☐	☐	☐
	14-15 70% Gravel fragment + 30% silty sand (gray overall color, sand brown)	☐	☐	☐
	15-15.3 Silty sand with little clay & gravel fragments (60% soil 40% gravel fragm)	☒	☒	☐
	15.3-15.8 Same as before (silty sand + gravel fragments, dry)	☐	☐	☐
	15.8-16 NR	☐	☐	☐
16	16-17.2 Same as before 60% gravel fragm 40% silty sand	☒	☐	☐
	17.0-17.2 SAND with SILT: SILTY BROWN SAND (medium), moist	☒	☒	☐
	17.2-18 NR	☐	☐	☐
	18-18.8 80% gravel fragments 20% silty dry sand	☒	☐	☐
	18.8-20 NR Big cobble fragment stuck in shore	☐	☐	☐
	20-21.2 SAND: Poorly sorted, med. + fine sand, moist	☐	☒	☐
	21.2-22 NR	☐	☐	☐

HTW DRILLING LOG

HOLE NO.
07H-5925-2
-5502

PROJECT *ESI Addendum*

INSPECTOR *L. Angelaki*

SHEET *5* of *9*
OF *9* SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEO TECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
		SAND + Rock fragments, moist				11/9	
		NR	0	-	-		
10	10	SILTY FINE SAND + GRAVEL				10/28	
		Gravel fragments	0	-	-		
11	11	SILTY FINE SAND WITH SHALE FRAGMENTS				11/11	
		NR					
12	12	Shale + lime frags				14/14	
		fragments	0	-	-		
13	13	NR				15/13	
		NR					
14	14	70% Gravel fragments				16/16	
		30% Silty sand, dry					
		GM ↑	0	-	-	11/11	
15	15	MOIST SILTY SAND WITH A LITTLE CLAY 80% + FRAGM 40%					
		SILTY SAND + GRAVEL FRAGM					
16	16	NR					
		SILTY FINE SAND 40% GM				6/6	
		GRAVEL FRAGMENTS 60%	0	-	-		
17	17	SILTY SAND MOIST SM				7/7	
		NR					
18	18	NR				(400)	

HTW DRILLING LOG

HOLE NO.
07-5495-2-1
SHEET 7 of 9
OF 7 SHEETS

PROJECT		INSPECTOR					
ES I Addendum		L. Angelini					
ELEV.	DEPTH	DESCRIPTION OF MATERIALS	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS
20	18	80% gravel fragments 20% silty clayey sand dry				58	
	19	MR big rock fragment in shoe	0			76	
	20	SPD Brown Poorly sorted medium + fine sand, moist, moist	0		(1640)	43	
	21				SS02- 22		
		MR			(2022)	46	
	22	SP finer, wet sand Wet at 22.2 Sat at 22.8	0			44	
	23					56	
		MR					
	24	Saturated silty fine medium	0			33	
	25					46	
	26	Sand as above	0			44	
						60	

3. of 19

Moisture Content

春

Wolfs

Wat

~~SECRET~~

[illegible]

HTW DRILLING LOG

PROJECT

EST Addendum

INSPECTOR

L. Amrhein

HOLE NO.

87H 5485-2

SHEET

OF 9 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH. SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
		Coarse sand + gravel with some silt				610	
		NR					
28							
		SAND ^{4/6/00} as sub gray silty sand (fine) v. l. H ₂ O gravel				43	
		NR				106	
30							
		Angered to 31.5					
31							
		Bottom of hole 31.5 BG					

Borehole Record for DIH5485-2-5503

- Drilling Log
- Narrative Lithologic Description
- Well Development Record
- Well Development -- Parameter Measurements
- Investigation - Derived Waste Inventory Sheet

HTRW DRILLING LOG				DISTRICT USACA, KC		HOLE NUMBER OTH 5485-2-SS03	
1 COMPANY NAME E+I				2 DRILL SUBCONTRACTOR MAXIM		SHEET 7 SHEETS OF 10	
3 PROJECT ESI Addendum				4 LOCATION Rome NY, Griffiths AFB			
5 NAME OF DRILLER				6 MANUFACTURER'S DESIGNATION OF DRILL CMF 850 ATV			
7 SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT HSA 4 1/2" Split Spoons 2" & 3" 2 foot long				8 HOLE LOCATION OTH 5485-2-SS03			
				9 SURFACE ELEVATION			
12 OVERBURDEN THICKNESS > 29				10 DATE STARTED 4/7/00			
13 DEPTH DRILLED INTO ROCK				11 DATE COMPLETED 4/7/00			
14 TOTAL DEPTH OF HOLE				15 DEPTH GROUNDWATER ENCOUNTERED 20.2			
				16 DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED 19.99 TOIC, 5-17-00 @ 1010			
18 GEOTECHNICAL SAMPLES				17 OTHER WATER LEVEL MEASUREMENTS (SPECIFY)			
DISTURBED		UNDISTURBED		19 TOTAL NUMBER OF CORE BOXES			
20 SAMPLES FOR CHEMICAL ANALYSIS SS03-21 B2		VOC		METALS		OTHER (SPECIFY) SOLIDS, TCE, PCE, PCBs, TOL, PCP, BTEX	
22 DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL		21 TOTAL CORE RECOVERY	
				OTHER (SPECIFY) Temp SS03		23 SIGNATURE OF INSPECTOR [Signature]	
LOCATION SKETCH/COMMENTS see also Fig 3-6							
SCALE: not to scale Area cleared of debris, surrounded by woods. Drop of elevation Fence SS01 SS02 SS03							
PROJECT ESI Addendum				HOLE NO OTH 5485-2-SS03			

ENG FORM 5056-R, AUG 94

(Proponent: CECW-EG)

Figure 4-2. HTRW Drilling Log

SCREENED WELL

Lock Number Bx1

Inner Casing Material PVC Schedule 40

Inner Casing Inside Diameter 2 inches

Stick-up 1.73 ft

Top of Grout _____ ft

Top of Seal at _____ ft

Top of Sand Pack 16 ft

Top of Screen at 28 ft

Bottom of Screen at 28 ft

Bottom of Hole at 29 ft

Bottom of Sandpack at 29 ft

GROUND SURFACE

Quantity of Material Used:

Bentonite Pellets 10

Cement 2 1/2

Borehole Diameter 2 1/2 inches

Cement/Bentonite 2 1/2

Grout 2 1/2

Screen Slot Size 0.010

Screen Type 1

☒ PVC 40 schedule

☐ Stainless Steel

Pack Type/Size:

☒ Sand #40 fine as. silic

☐ Gravel

☐ Natural

OPEN-HOLE WELL

Stick-up _____ ft

Inner Casing Material _____

Inner Casing Inside Diameter _____ inches

Outer Casing Diameter _____ inches

Borehole Diameter _____ ft

Bedrock _____ ft

Bottom of Rock Socket/Outer Casing _____ ft

Bottom of Inner Casing _____ ft

Corehole Diameter _____

Bottom of Corehole _____ ft

NOTE: See pages 136 and 137 for well construction diagrams

[illegible]

HTW DRILLING LOG

HOLE NO.

PROJECT

EST Addendum

INSPECTOR

L. Angeli

SHEET

OF SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
	0	Topsoil, wet			848 07H54852 SS03-21 0-2' (3"SS)	3/4	
	1	SM SILTY SAND, moist some clay + gravel	0			8/12	
	2	NR					
	2	SILTY SAND as above SM				16/14	
	3	Gravel (mostly shale) GP	0			13/11	
	3	NR (rock stuck in shoe)					
	4						
	4	GM Limestone & sandstone with 10% silty sand	0			20/20	
	5	shale fragments with 10% silty sand				25/16	
	6	NR					
	6	SM Brown silty sand and shale fragments	0			142/14	
	7	NR rock stuck in shoe				15/13	
	8	GM 30% SILT (sandy) gray 70% shale + sandstone fragments	0			6/12	

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ecology and environment

0 0-0.8 TOPSOIL Silty clay with sand, organic rooty (black)

0.8-1.8 SILTY SAND with some clay & gravel
+ 2.2-2.6' BOS (orange/brown)

1.6-2 NR

2

2-2.1 Silty sand orange brown, dry

2.1-3 Gravel (large > 2") dry

3-4' - NR, Rocks stuck in shoe

4

4-4.8 Limestone & sandstone fragments with very little silty sand (10%) dry

4.8-5.2 Shale fragments with very little silty sand, dry (fine sand)

5.2-6 NR

6

6-6.5 Brown silty sand with shale fragments (sand: fine), dry

6.5-8 Rock stuck in shoe, NR

8-9 SANDY SILT with rock fragments (shale & limestone) dry (30% silt, 70% rock fragment), grey

9-9.2 SILTY SAND (brown) with rock fragments, dry (40/60)

HTW DRILLING LOG

HOLE NO.
07H 5485-2
SHEET 5 OF 10 SHEETS

PROJECT *ESI Addendum*

INSPECTOR *L. Angelis*

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
	10	SAND (silty) brown 40% Fragments 60% NR GP	0	—	—	13/13	
	11	50% SILTY SAND 50% shale fragments brown GP 30% SANDY SILT gray 70% shale fragments	0	—	—	5/6	
	12	NR				8/10	
	13	40% SILTY SAND GP 60% Fragments of shale, lim, sandstone	0	—	—	11/11	
	14	NR				19/12	
	15	50% sand with some silt 50% shale fragments SAND medium (SW) shale fragments	0	—	—	11/8	
	16	NR				7/4	
	17	SILTY SAND + ROCK FRAGMENTS SAND + GRAVEL (black brown) moist (GP) Fine medium SAND (brown) dry to moist (SW)	0	—	—	4/4	
	18	NR				5/4	

ESL Addendum 0145495-2-5303 Sheet 6 of 10		NARRATIVE LITHOLOGIC DESCRIPTION			Moisture Content		
Depth (feet)					Dry	Moist	Wet
9.2-10	NR				☐	☐	☐
					☐	☐	☐
					☐	☐	☐
					☐	☐	☐
10					☐	☐	☐
10-10.2	50% SILTY SAND, fine, brown, dry and				☐	☐	☐
	50% shale fragments, dry				☐	☐	☐
10.2-11.2	30% SANDY SILT, gray, dry				☐	☐	☐
	70% shale fragments, dry				☐	☐	☐
11.2-12	NR				☐	☐	☐
					☐	☐	☐
12					☐	☐	☐
12-13	40% SILTY FINE SAND, Brown, dry				☐	☐	☐
	60% Fragments of limestone, shale, & sandstone				☐	☐	☐
13-14	NR				☐	☐	☐
					☐	☐	☐
					☐	☐	☐
14					☐	☐	☐
14-14.5	50% SAND with some silt, fine to medium				☐	☐	☐
	size range, dry, brown				☐	☐	☐
	50% shale fragments, dry				☐	☐	☐
14.5-14.6	SAND, medium, brown, dry to moist				☐	☐	☐
14.6-15	Shale fragments, dry				☐	☐	☐
15-16	NR				☐	☐	☐
16					☐	☐	☐
16-16.2	Silty sand mixed with limestone & shale				☐	☐	☐
	fragments (40/60 %)				☐	☐	☐
16.2-16.6	Brown & black medium to coarse (range) SAND				☐	☐	☐
	and fine gravel, moist				☐	☐	☐
16.6-17	Brown medium to fine (size), uniformly sorted sand				☐	☐	☐
	dry to moist, 17-28 NR				☐	☐	☐

HTW DRILLING LOG

HOLE NO. 485-2
DCH 3303

PROJECT ESI Addendum

INSPECTOR L. Angelidis

SHEET 7
OF 10 SHEETS 10

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEO TECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
	19	SAND medium & fine brown moist, wet.	0	-	1105	3/4	-
	19	NR			07715485 SSD3 -22 (105) -202	3/4	
	20	SAND as above SW	0	-		3/4	
	21	Water at 20-2				5/5	
	21	NR					
	22	SAND as above SW	0	-		1/3	
	23	saturated				4/5	
	23	NR					
	24	SAND AS ABOVE (SW)	0	-		3/8	
	24	CLAY WITH SAND + CLAY (CL)					
	24	CLAY, SAND, GRAVEL & CLAY MIX					
	25	coarse sand, and gravel					
	25	some silt (GP)					
	25	Black silty clayey sand, little gravel				10/11	
	25	SM-SC					
	25	NR					
	26	Gray silty clayey sand				3/6	
	26	SM-SC					

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ecology and environment

OTH5485-2-5503

NARRATIVE LITHOLOGIC DESCRIPTION

Sheet 8 of 10

Moisture
Content

Dry

Wet

18

18-19.2 SAND brown fine & medium sand,
moist, well sorted 19' BGs

19.2-20 NR

20

20-21.1 SAND as above water at 20.2

21.1-22 NR

22

22-23.4 SAND as above, saturated

23.4-24 NR

24

24-24.2 SAND as above, brown

24.2-24.7 SILT with sand and clay, brown-gray

24.7-24.8 ^{SILT} ~~NET~~ with sand, clay, and gravel brown-gray24.6-25.0 Coarse sand with gravel some silt
(orange sand)

25-25.2 Black silty clayey sand

25.2-26 NR

26-27.4 Silty clayey sand black gray or hop
brown at bottom

ecology and environment

HTW DRILLING LOG

OTM 5455-2-303

EST Addendum

L. Anacker

SHEET 9
OF SHEETS 10

[illegible]

ecology and environment

PROJECT

ES2 Addendum^{A-37}

HOLE NO.

014152

Depth (feet)

NARRATIVE LITHOLOGIC DESCRIPTION

OTH 5485-2-SS03

Sheet 10 of 10

Moisture
Content

Dry Moist %

27

27.2-28 NK

28

Bottom of hole at 29 BGS

Borehole Record for G007-MW01

- Drilling Log
- Narrative Lithologic Description
- Well Development Record
- Well Development -- Parameter Measurements
- Investigation - Derived Waste Inventory Sheet

HTRW DRILLING LOG		DISTRICT		HOLE NUMBER	
1 COMPANY NAME <u>E+E</u>		2 DRILL SUBCONTRACTOR <u>Maxim</u>		HOLE NUMBER <u>G007-MW01</u>	
3 PROJECT <u>ESI Addendum</u>		4 LOCATION <u>Griffiss Park, Rome, NY</u>		SHEET <u>ONE</u> OF <u>SIX</u>	
5 NAME OF DRILLER <u>Al Kimbal</u>		6 MANUFACTURER'S DESIGNATION OF DRILL <u>ACKAR 82</u>			
7 SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT <u>2" SS (2 foot) low HSA 4 1/4" ID</u>		8 HOLE LOCATION <u>ADT, G007-MW01</u>			
		9 SURFACE ELEVATION			
		10 DATE STARTED <u>3/31/00</u>		11 DATE COMPLETED <u>3-31-00</u>	
12 OVERBURDEN THICKNESS <u>> 21'</u>		13 DEPTH GROUNDWATER ENCOUNTERED <u>12.5</u>			
13 DEPTH DRILLED INTO ROCK		16 DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED <u>5-17-00 @ 1630 W.L. = 10.92' TOIC</u>			
14 TOTAL DEPTH OF HOLE <u>21'</u>		17 OTHER WATER LEVEL MEASUREMENTS (SPECIFY)			
18 GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED	
20 SAMPLES FOR CHEMICAL ANALYSIS		VOC		METALS	
		OTHER (SPECIFY)		OTHER (SPECIFY)	
22 DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL	
		OTHER (SPECIFY)		21 SIGNATURE OF INSPECTOR <u>[Signature]</u>	
19 TOTAL NUMBER OF CORE BOXES		21 TOTAL CORE RECOVERY <u>NA</u>			
LOCATION SKETCH/COMMENTS <u>See also Fig 3-1 in FSP</u> SCALE: <u>No to scale</u>					
PROJECT <u>ESI Addendum</u>		HOLE NO <u>G007-MW01</u>			

ENG FORM 5056-R, AUG 94

(Proponent: CECW-EG)

Figure 4-2. HTRW Drilling Log

G007-UW01

Lock Number BX-1

Sheet 2 of 7

SCREENED WELL

OPEN-HOLE WELL

Stick-up 1.42 ftTop of Grout 3 ftTop of Seal at 4.5 ftTop of Sand Pack 7.5 ftTop of Screen at 10.5 ftBottom of Screen at 20.5 ftBottom of Hole at 21 ftBottom of Sandpack at 21Inner Casing Material PVCInner Casing Inside Diameter 2 inches

GROUND SURFACE

Quantity of Material Used:
Bentonite Medium Chips
Pellets #201bs

Cement _____

Borehole 8 inches Diameter

Cement/Bentonite _____

Grout _____

Screen Slot Size 0.010Screen Type _____
☒ PVC Schedule 40☐ Stainless Steel _____Pack Type/Size:
☒ Sand #0 Moric ~ 220lbs
☐ Gravel _____
☐ Natural _____

Stick-up _____ ft

Inner Casing Material _____

Inner Casing Inside Diameter _____ inches

Outer Casing Diameter _____ inches

Borehole Diameter _____ ft

Bedrock _____ ft

Bottom of Rock Socket/
Outer Casing _____ ft

Bottom of Inner Casing _____ ft

Corehole Diameter _____

Bottom of Corehole _____ ft

NOTE: See pages 136 and 137 for well construction diagrams

Depth-ft.	NARRATIVE LITHOLOGIC DESCRIPTION	Moisture Content		
		Dry	Moist	Wet
0-1"	Topsoil	☐	☒	☐
1"-7"	SAND: Light brown sand, (fine) with very little silt	☐	☒	☐
7"-2	NR	☐	☐	☐
2-3	Gray Silty Sand: Gray silty sand fine with v. little clay content, moist/dry low to 0 plasticity, low cohesion	☒	☒	☐
3-3.1	Orange Silty Sand as above	☒	☒	☐
3.1-3.3	SAND: Light brown fine sand with silt	☐	☒	☐
3.3-3.5	SILTY SAND: Orange/brown silty sand with v. little clay, low plasticity & cohesion, moist	☐	☒	☐
3.5-4	NR	☐	☐	☐
4-3.5	Orange Brown fine sand with little silt	☐	☒	☐

3/3/00 BTJ/ST

HTW DRILLING LOG							HOLE NO. G007-M
PROJECT EST Addendum			INSPECTOR L. Angelini		SHEET 3 OF 7 SHEETS		
ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
	1	0-8" SAND with v. little silt Brown, fine sand with v. little silt, moist Top 1" Topsoil, silty sand, organic rooty	0	-	-	1/2 1/2	
	2	SM Gray silty sand with very little clay moist/dry low plasticity and cohesion	0	-	-	1/8	
	3	SM Orange silty sand SP Light brown fine sand with silt SM Orange/brown silty sand 3.5-4 NR	0	-	-	8/8	
	4	SM orange brown silty sand with v. little clay, low plasticity & cohesion, moist	0	-	-	4/4 6/5	
	5	SP medium, fine sand with very little silt NR 5.3-6					
	6	SM Orange/brown fine sand & silt, wet wet at 6.2	0	-	-	5/8 8/6	Silty sand wet (perched water table)
	7	7.3-7.5 SW fine brown sand dry 7.5-8 NR					
	8	SW light brown fine sand (uniform) dry	0	-	-	3/4 4/5	

[illegible]

HTW DRILLING LOG

HOLE NO. 6007-MW

PROJECT ESI Addendum

INSPECTOR L. Angelakis

SHEET 5 OF 7 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEO TECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
		SW					
		9.8-10 NR					
	10	SW (light brown to orange sand fine in size & uniform dry to moist)				4/4	
	11	11.5-12 No recovery				4/4	
	12	SW Brown sand fine, uniform wet at 12' saturated at 13				3 1/4	
	13					4/3	water at 12.5'
	14	NR					
	14	SW as above				3/4	Saturated sand
	15					3/4	
		NR 15.5-16					
	16	SW saturated				1/2	Saturated sand
						1/3	Because of sand in the augers we will not take

Good - Mrs!

Depth(feet)

NARRATIVE LITHOLOGIC DESCRIPTION

Moisture Content

[illegible]

A-46

HTW DRILLING LOG

HOLE NO.
6007-N

PROJECT

E 57 Addendum

INSPECTOR

Leo Angelker

SHEET 7
OF 7 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
	15	no sgt specy at this interval. Based on cuttings SW.					
	20						
		Bottom of borehole at 20.5					

A-47

MRK FORM 55-2
JUN 59

PROJECT

ESI Addendum.

HOLE NO.

HOLE NO. CONT MWA1

Borehole Record for 6007-MW02

- Drilling Log
- Narrative Lithologic Description
- Well Development Record
- Well Development -- Parameter Measurements
- Investigation - Derived Waste Inventory Sheet

HTRW DRILLING LOG		DISTRICT USACE Kansas City Dist.		HOLE NUMBER 6007-MW02	
1. COMPANY NAME Ecology + Environment		2. DRILL SUBCONTRACTOR MAXIM		SHEET 1 OF 5	
3. PROJECT EST Addendum		4. LOCATION Rome, NY / Former Griffiss AFB		5. MANUFACTURER'S DESIGNATION OF DRILL Acker 8Z	
5. NAME OF DRILLER AL Kimbal		6. HOLE LOCATION A017 6007-MW02		7. SURFACE ELEVATION	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT 2 FT SS (2" DIA) NSA 4 1/4"		8. DATE STARTED 3/29/00		11. DATE COMPLETED 3-30-00	
12. OVERBURDEN THICKNESS > 20		15. DEPTH GROUNDWATER ENCOUNTERED 10.8 (est at 11.5-12)		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED 7.13' TOILE, 5-17-00 @ 1655	
13. DEPTH DRILLED INTO ROCK		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) 10.34' TOILE, 5-17-00 @ 1722		19. TOTAL NUMBER OF CORE BOXES NA	
14. TOTAL DEPTH OF HOLE 20' B68		18. GEOTECHNICAL SAMPLES		21. TOTAL CORE RECOVERY	
20. SAMPLES FOR CHEMICAL ANALYSIS		DISTURBED		UNDISTURBED	
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL	
		M.W.02		23. SIGNATURE OF INSPECTOR	
LOCATION SKETCH/COMMENTS See also Fig 3.2 of FSP SCALE Not to scale					
PROJECT EST Addendum		HOLE NO 6007-MW02			

ENG FORM 5056-R, AUG 94

(Proponent: CECW-EG)

Figure 4-2. HTRW Drilling Log

6007-MW02

Sheet 2 of 5

Lock Number BX-1

SCREENED WELL

Inner Casing Material PVC schedule 40

Inner Casing Inside Diameter 2 inches

Stick-up 1.69 ft

Top of Grout 3 ft

Top of Seal at 5 ft

Top of Sand Pack 7 ft

Top of Screen at 9 ft

Bottom of Screen at 19 ft

Bottom of Hole at 19 ft

Bottom of Sandpack at 19 ft

OPEN-HOLE WELL

Stick-up _____ ft

Inner Casing Material _____

Inner Casing Inside Diameter _____ inches

Outer Casing Diameter _____ inches

Borehole Diameter _____ ft

Bedrock _____ ft

Bottom of Rock Socket/Outer Casing _____ ft

Bottom of Inner Casing _____ ft

Corehole Diameter _____

Bottom of Corehole _____ ft

GROUND SURFACE

Quantity of Material Used:

Bentonite Pellets Medium Bent chips ~ 30 lbs - 2 feet

Cement _____

Borehole Diameter _____ inches

Cement/Bentonite _____

Grout _____

Screen Slot Size 0.010

Screen Type

☒ PVC Schedule 40 0.010 slots

☐ Stainless Steel _____

Pack Type/Size:

☒ Sand Fluorine (250 lbs)

☐ Gravel _____

☐ Natural _____

NOTE: See pages 136 and 137 for well construction diagrams

Depth-ft.	NARRATIVE LITHOLOGIC DESCRIPTION	Moisture Content		
		Dry	Moist	Wet
0	0-5" Topsoil: Silty sand, little clay, brown, root	○	⊗	⊗
	5"-1.5' Sand: Brown, medium to fine uniformly sorted sand	○	⊗	⊗
2	1.5-2 NR	○	○	○
	2-3.7 Sand same as above, moist	○	⊗	○
4	3.7-4 NR	○	○	○
	4-5.5 Same as above at 5' BGS dry	⊗	⊗	○
6	5.5-6 NR	○	○	○
	6-7.5 Same as above	○	○	○
8	7.5-8 NR	⊗	○	○
	8-9.5 Sand as above (moister at 8.4)	○	○	○
10	9.5-10 NR	⊗	⊗	○
	10-11.5 Sand as above. wet at 10.8	○	○	○
12	11.5-12 NR	○	⊗	⊗
	12-13.5 disturbed	○	○	○

HTW DRILLING LOG

HOLE NO. 607-MWC

PROJECT

ESI Addendum

INSPECTOR

Lee Angeles

SHEET 3 OF 3 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
	0	Top Soil (sandy sand)				7/3	
	1	SW (well sorted fine sand, brown moist)	0	—	—	4/7	
	2	SW same as above	0	—	—	3/6 8/6	
	4	NR at 3.7-4					
		SW (same as above) dry at 5.	0	—	—	3/6 9/12	
	6	NR at 5.5-6					
		SW (same as above)	0	—	—	4/6 5/6	
	8	NR at 7.5-8					
		SW (as above) Moist at 8.1	0	—	—	3/3 4/4	
	10	NR at 8.5-10					
		SW as above (wet at 10.8)	0	—	—	4/3 3/3	
	12	NR at 11.5-12 Saturated SW					
			0	—	—	1/1 1/3	
	14	NR at 13.5-14					
		SW wet as above	0	—	—	2/2 2/3	
	16	NR 13.8-16					
		SW wet as above	0	—	—	1/1 2/3	13.5 Sand came up the auger
	18						

HOLE NO.
6007-M

INSPECTOR *L. Angelakis*

SHEET
OF 5 SHEETS

MRK FORM 55-2 PROJECT *EST Addendum* A-55 HOLE NO. *6007-MW02*

Borehole Record for GOO7-MW03

- Drilling Log
- Narrative Lithologic Description
- Well Development Record
- Well Development -- Parameter Measurements
- Investigation - Derived Waste Inventory Sheet

30/60

HTRW DRILLING LOG				DISTRICT <i>USACE KC District</i>		HOLE NUMBER <i>6007-1</i>	
1 COMPANY NAME <i>Ecology & Environment</i>			2 DRILL SUBCONTRACTOR <i>Maxim</i>			SHEET <i>1</i> OF <i>5</i>	
3 PROJECT <i>ESI Addendum</i>				4 LOCATION <i>Rome, NY / Former GAFB</i>			
5 NAME OF DRILLER <i>Al Kimball</i>				6 MANUFACTURER'S DESIGNATION OF DRILL <i>ACKAR 82</i>			
7 SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT <i>2" ID, 2' Long SS HSA</i>			8 HOLE LOCATION <i>AOI 7, 6007-MW03</i>				
				9 SURFACE ELEVATION			
				10. DATE STARTED <i>3/30/00</i>		11. DATE COMPLETED <i>3/30/00</i>	
12. OVERBURDEN THICKNESS <i>> 20</i>				15. DEPTH GROUNDWATER ENCOUNTERED <i>8</i>			
13. DEPTH DRILLED INTO ROCK				16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED <i>7.13' 5-17-00 @ 1655 (TOIC)</i>			
14. TOTAL DEPTH OF HOLE <i>Total depth achieved 20' BGS</i>				17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)			
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED		19. TOTAL NUMBER OF CORE BOXES	
20. SAMPLES FOR CHEMICAL ANALYSIS		VOC		METALS		OTHER (SPECIFY)	
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL		21. SIGNATURE OF INSPECTOR <i>[Signature]</i>	
				<i>MW03</i>			
LOCATION SKETCH/COMMENTS <i>See Fig 3.1 of FSP</i> SCALE: <i>Not to scale</i>							
PROJECT <i>ESI Addendum</i>						HOLE NO. <i>6007-MW03</i>	

ENG FORM 5056-R, AUG 94

(Proponent: CECW-EG)

Figure 4-2. HTRW Drilling Log

G007-MW03

Lock Number BX-1

Sheet 2 of 5

SCREENED WELL

OPEN-HOLE WELL

Stick-up 1.51'
1.44' RAM
 ft

Inner Casing
 Material PVC schedule 40

Inner Casing Inside
 Diameter 2 inches

Stick-up _____ ft

Inner Casing
 Material _____

Inner Casing Inside
 Diameter _____ inches

Top of Grout 3 ft

Quantity of Material Used: Med chips
 Bentonite 1 1/2 (20-25 lbs)
 Pellets _____

Top of Seal at 4 ft

Cement _____

Borehole 3 inches
 Diameter

Outer Casing
 Diameter _____ inches

Top of Sand Pack 5 ft

Cement/
 Bentonite _____

Borehole
 Diameter _____ ft

Top of Screen at 6 ft

Grout _____

Bedrock _____ ft

Bottom of Screen at 16 ft

Screen Slot Size 0.010

Bottom of Rock Socket/
 Outer Casing _____ ft

Bottom of Hole at 20 ft

Screen Type
☒ PVC 40 schedule ~ 200 lbs
☐ Stainless Steel _____

Bottom of Inner
 Casing _____ ft

Bottom of Sandpack at 16.5

Pack Type/Size:
☒ Sand Monie #0
☐ Gravel _____
☐ Natural _____

Corehole
 Diameter _____

Bottom of
 Corehole _____ ft

NOTE: See pages 136 and 137 for well construction diagrams

Depth-ft.	NARRATIVE LITHOLOGIC DESCRIPTION	Moisture Content		
		Dry	Moist	Wet
0	0-4" Topsoil: Dark brown, sandy silt, rooty, moist	☐	☒	☒
	4'-1.8 SAND: Brown well sorted medium sand dry/moist	☒	☒	☐
2	1.8-2 NR	☐	☐	☐
	2-3.7 SAND: As above, dry	☒	☐	☐
4	3.7-4 NR	☐	☐	☐
	4-6 SAND: Brown well sorted medium to fine (size finer than medium & coarser than fine) dry sand.	☒	☐	☐
	6-8 SAND	☐	☐	☐
	6.0-7.5 Same as above	☐	☐	☐
	7.5-8 Coarse uniform brown sand	☐	☒	☐
	8-8.5 Same as above	☐	☒	☐
	8.5-10 SAND: Medium, uniform, brown, sand wet at 8' BGS	☐	☐	☒
	10-12 SAND) as above	☐	☐	☐

HTW DRILLING LOG

HOLE NO. 6007-Mus3

PROJECT ESI Addendum

INSPECTOR J. Angelaki

SHEET 3 OF 5 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
	4"	Topsoil: Dark, sand & silt rocky, mo. s!	0	-	-	1/3	
	1	8W Brown well sorted medium sand dry/moist				5/8	
	2	1.8-2 NR					
		SW as above dry	0	-	-	3/6 5/6	-
	4	3.7-4 NR					
	4	SW as above only medium to fine size (there is a bit finer than upper layers)	0	-	-	3/3 4/5	-
	5					5/4 VA 3/30/00	
	6	SW as above	0	-	-	5/4	-
	7					6/3	
	8	SW as above exp coarse sand, moist.					
	8.5	Wet at 8' BGS SW: Coarse brown sand, wet SW: Medium sand				2/4	-

PROJECT ESI Addendum

HOLE NO. 6007-Mus

HTW DRILLING LOG							HOLE NO. G-007-M
PROJECT ESI Addendum			INSPECTOR Lee Angeles		SHEET 5 OF 5 SHEETS		
ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
		SW: Brown medium uniform sand, wet	0	-	-	3/5	-
	10	SW: as above saturated.	0	-	-	1/2 1/3	Flowing sands may be a problem
	12	SW as above saturated	0	-	-	1/1	Flowing sands
	13					2/3	We will auger to 16 BGs without SS
	14	No split spoon	0	-	-	NA	
	16	No split spoons only augering to 20' BGs	0	-	-	NA	

Borehole Record for G007-5505

- Drilling Log
- Narrative Lithologic Description
- Well Development Record
- Well Development -- Parameter Measurements
- Investigation - Derived Waste Inventory Sheet

HTRW DRILLING LOG				DISTRICT KC		HOLE NUMBER 6007-SS05	
1. COMPANY NAME E & E				2. DRILL SUBCONTRACTOR Maxim		SHEET 1 OF 3	
3. PROJECT Addendum for ESI				4. LOCATION Rome, NY Former Griffiths AFB			
5. NAME OF DRILLER Scott Breda				6. MANUFACTURER'S DESIGNATION OF DRILL			
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT 3" Split Spoon				8. HOLE LOCATION 6007-SS05			
				9. SURFACE ELEVATION			
				10. DATE STARTED 3/27/00		11. DATE COMPLETED 3/27/00	
12. OVERBURDEN THICKNESS 16' BGS				15. DEPTH GROUNDWATER ENCOUNTERED 15.5			
13. DEPTH DRILLED INTO ROCK N/A				16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED			
14. TOTAL DEPTH OF HOLE 16' BGS				17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)			
18. GEOTECHNICAL SAMPLES None		DISTURBED N/A		UNDISTURBED N/A		19. TOTAL NUMBER OF CORE BOXES N/A	
20. SAMPLES FOR CHEMICAL ANALYSIS SS05-21-22		VOC		METALS Pb, Cu		OTHER (SPECIFY) % Solids	
22. DISPOSITION OF HOLE Not Sampling		BACKFILLED		MONITORING WELL		21. TOTAL CORE RECOVERY	
		Not Sampling		Soil Boring		23. SIGNATURE OF INSPECTOR Breda	
LOCATION SKETCH/COMMENTS See Field Sampling Plan Figure 3.1 SCALE: Not to scale							
PROJECT Addendum for ESI UK03.03						HOLE NO 6007-SS05	

ENG FORM 5056-R, AUG 94

(Proponent: CECW-EG)

Figure 4-2. HTRW Drilling Log

SCREENED WELL

Lock Number _____

Inner Casing Material _____

Inner Casing Inside Diameter _____ inches

Stick-up _____ ft

Top of Grout _____ ft

Top of Seal at _____ ft

Top of Sand Pack _____ ft

Top of Screen at _____ ft

Bottom of Screen at _____ ft

Bottom of Hole at _____ ft

Bottom of Sandpack at _____ ft

OPEN-HOLE WELL

Stick-up _____ ft

Inner Casing Material _____

Inner Casing Inside Diameter _____ inches

Outer Casing Diameter _____ inches

Borehole Diameter _____ ft

Bedrock _____ ft

Bottom of Rock Socket/Outer Casing _____ ft

Bottom of Inner Casing _____ ft

Corehole Diameter _____

Bottom of Corehole _____ ft

GROUND SURFACE

Quantity of Material Used:

Bentonite Pellets _____

Cement _____

Borehole _____ inches Diameter

Cement/Bentonite _____

Grout _____

Screen Slot Size _____

Screen Type _____

☐ PVC _____

☐ Stainless Steel _____

Pack Type/Size:

☐ Sand _____

☐ Gravel _____

☐ Natural _____

NOTE: See pages 136 and 137 for well construction diagrams

Depth-ft.	NARRATIVE LITHOLOGIC DESCRIPTION	Moisture Content		
		Dry	Moist	Wet
0	0-5" Clayey Topsoil, dark brown peaty	☐	☐	☐
1.7	5'-1.5' Sand. Brown, medium uniform sand	☒	☒	☐
	1'-7"-2' Gravel NR	☐	☐	☐
	2'-3.8' Orange brown medium sand	☒	☐	☐
4	3.9-5' NR	☐	☐	☐
6	4-6' Same as above	☐	☐	☐
8	6'-8' Orange/brown medium to fine uniform sand	☐	☐	☐
10	8-10' Same as above	☐	☐	☐
12	10-12' Same as above	☐	☐	☐
	12-12'40" Same as above	☐	☐	☐
14	12'10"-14' NR	☐	☐	☐
	14-15.5' Same as above	☐	☒	☐
16	15- wet	☐	☒	☒
	15.5-16' NR	☐	☐	☒
	Bottom of hole at 16	☐	☐	☒

HTW DRILLING LOG							HOLE NO. 5505
PROJECT Addendum of ESI			INSPECTOR Lea Angelaki		SHEET OF 3 SHEETS		
ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
		Topsoil - clay	φ	←	1315 SS05-21 0.5-1'	1/2 4/6	
	1	Brown sand (SW) medium well sorted					
	2	Brown/orange uniform medium sand SW	0	—	1323 SS05-22 2'-4'	4/4 3/4	
	4	Same as above SW	0	—	1323 SS05-22 2'-4'	4/4 3/4	
	6	SW Sample as above only med to fine sand	0	—		3/3 5/5	
	8	Same as above SW	0	—		5/5 6/5	
	10	Same as above SW	0	—		3/3 5/6	
	12	12-12'+10" Sample as above (softer) SW 12'+10"-14' N2	0	—		3/4 5/5	recovery 12-12'
	14	Sample as above (SW) wet at 15' BGS wet: 15.5-16'	0	—	8007 -SS05 -23 (1415)	3/5 4/4	wet at NR at 15.5'
	16	Bottom of hole at 16'					

Borehole Record for 6007-SS06

- Drilling Log
- Narrative Lithologic Description
- Well Development Record
- Well Development -- Parameter Measurements
- Investigation - Derived Waste Inventory Sheet

31 Aug 94

HTRW DRILLING LOG				DISTRICT <i>KC - USACE</i>		HOLE NUMBER <i>6007-SS06</i>	
1 COMPANY NAME <i>E & E</i>		2 DRILL SUBCONTRACTOR <i>Maxim</i>				SHEET <i>7</i> OF <i>4</i>	
3 PROJECT <i>ESI Addendum</i>				4 LOCATION <i>AOI 7, SS06, GAFB, Rome, NY</i>			
5 NAME OF DRILLER <i>S. Breeds</i>				6 MANUFACTURER'S DESIGNATION OF DRILL			
7 SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT <i>2" split</i>		8 HOLE LOCATION <i>AOI 7, 6007-SS06</i>		9 SURFACE ELEVATION			
12 OVERBURDEN THICKNESS, <i>16'</i>		10. DATE STARTED <i>3/27/00</i>		11 DATE COMPLETED <i>3/27/00</i>			
13 DEPTH DRILLED INTO ROCK		15 DEPTH GROUNDWATER ENCOUNTERED <i>14' BGS</i>		16 DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED			
14 TOTAL DEPTH OF HOLE <i>16' BGS</i>		17 OTHER WATER LEVEL MEASUREMENTS (SPECIFY)					
18 GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED		19 TOTAL NUMBER OF CORE BOXES	
20. SAMPLES FOR CHEMICAL ANALYSIS		VOC		METALS		OTHER (SPECIFY)	
<i>6007-SS06-21</i>				<i>Pb, Cu</i>		<i>SS01/02</i>	
22 DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL		21 SIGNATURE OF INSPECTOR	
<i>Yes</i>				<i>Paul Borling</i>		<i>[Signature]</i>	
LOCATION SKETCH/COMMENTS <i>See FSP Fig. 3-1</i> SCALE <i>Not to scale</i>							
PROJECT <i>ESI Addendum 4203.03</i>						HOLE NO <i>6007-SS06</i>	

ENG FORM 5056-R, AUG 94

(Proponent: CECW-EG)

Figure 4-2. HTRW Drilling Log

UK03-03

G007-SS06

Sheet 2 of 4

Lock Number _____

SCREENED WELL

Inner Casing Material _____

Inner Casing Inside Diameter _____ inches

Stick-up _____ ft

Top of Grout _____ ft

Top of Seal at _____ ft

Top of Sand Pack _____ ft

Top of Screen at _____ ft

Bottom of Screen at _____ ft

Bottom of Hole at _____ ft

Bottom of Sandpack at _____ ft

GROUND SURFACE

Quantity of Material Used:

Bentonite Pellets _____

Cement _____

Borehole Diameter _____ inches

Cement/Bentonite _____

Grout _____

Screen Slot Size _____

Screen Type _____

☐ PVC _____

☐ Stainless Steel _____

Pack Type/Size:

☐ Sand _____

☐ Gravel _____

☐ Natural _____

OPEN-HOLE WELL

Stick-up _____ ft

Inner Casing Material _____

Inner Casing Inside Diameter _____ inches

Outer Casing Diameter _____ inches

Borehole Diameter _____ ft

Bedrock _____ ft

Bottom of Rock Socket/Outer Casing _____ ft

Bottom of Inner Casing _____ ft

Corehole Diameter _____

Bottom of Corehole _____ ft

NOTE: See pages 136 and 137 for well construction diagrams

Depth-ft.	NARRATIVE LITHOLOGIC DESCRIPTION	Moisture Content		
		Dry	Moist	Wet
0	0-0.2 Topsoil ^{water} sandy silty topsoil, brown	☒	☒	☐
	0.2-1 Sand: Brown/orange fine to medium sand uniformly sorted	☒	☒	☐
2	1-2 - NR	☐	☐	☐
	2-3.8 Same as above	☐	☐	☐
4	3.8-4 NR	☐	☐	☐
	4-5.8 Same as above	☐	☐	☐
6	5.8-6 NR	☐	☐	☐
	6-7.8 Same as above	☐	☐	☐
8	7.8-8 NR	☐	☐	☐
	8-9.5 Same as above	☐	☐	☐
10	9.5-10 NR	☐	☐	☐
	10-11.5 Orange/brown fine to medium sand, dry, uniform	☒	☐	☐
12	11.5-12 NR	☒	☐	☐
	12-13.8 Same as above, ^{Moist} at 12.7	☒	☒	☐

HTW DRILLING LOG

HOLE NO. 6007-5506

PROJECT ESI Addendum

INSPECTOR Vassilix Angeliki

SHEET OF 3 SHEETS 4

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
1	1	Orange/brown fine to medium sand, dry uniformly sorted. (SW) (0.2 Topsoil at top)	0	—	1453 6007- 5506-21 (0.6-1')	1 1/2 3/7	Sample at 0.6-1' BGS
	2	Same as above (Orange/Brown sand - (SW) fine to medium, uniformly sorted)	0	—	1507 6007- 5506- 22 22/3 22/3	5/7 9/7	Took dup 1 PLT at 2-4' BGS
	4	Same as above SW (0.2 nr - at bottom)	0	—	—	3/4 4/4	—
	6	SW Sample as above (0.2 at bottom nr)	0	—	—	7/5 6/6	—
	8	Same as above 0.5' at bottom nr	0	—	—	3/4 4/5	—
	10	Same as above 0.5 at bottom nr	0	—	—	4/3 3/4	—
	12	Same as above 0.2 at bottom nr	0	—	1548 6007- 5506- 23 (13-14)	3/4 4/5	Sample at 13-14'
	14	Same as above	0	—	—	2/3 2/3	Wet at 14'
	16						

[illegible]

Borehole Record for 6007-SS07

- Drilling Log
- Narrative Lithologic Description
- Well Development Record
- Well Development -- Parameter Measurements
- Investigation - Derived Waste Inventory Sheet

HTRW DRILLING LOG		DISTRICT	K C		HOLE NUMBER	6007-5507	
1 COMPANY NAME		E+E		2 DRILL SUBCONTRACTOR		Maxim	
3 PROJECT		ESI Addendum		4 LOCATION		Former GAFB, Rome, NY	
5 NAME OF DRILLER		Scott Breed		6 MANUFACTURER'S DESIGNATION OF DRILL			
7 SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT		2" split spoon		8 HOLE LOCATION		ASI 7, 6007-5507	
		HSA		9 SURFACE ELEVATION			
				10. DATE STARTED		3/27/00	
				11 DATE COMPLETED		3/27/00	
12. OVERBURDEN THICKNESS		210		15. DEPTH GROUNDWATER ENCOUNTERED		9.4	
13. DEPTH DRILLED INTO ROCK				16 DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED			
14. TOTAL DEPTH OF HOLE		10		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)			
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED		19. TOTAL NUMBER OF CORE BOXES	
20. SAMPLES FOR CHEMICAL ANALYSIS		VOC		METALS		OTHER (SPECIFY)	
				PB, Cu		C/O S. J. H.	
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL		OTHER (SPECIFY)	
		Yes		-		Soil Bore	
21. TOTAL CORE RECOVERY				22. SIGNATURE OF INSPECTOR			
LOCATION SKETCH/COMMENTS		see fig 3-1 in FSP		SCALE		Not to scale	
PROJECT		ESI Addendum		HOLE NO		6007-5507	

(Proponent: CECW-EG)

Figure 4-2. HTRW Drilling Log

SCREENED WELL

Stick-up _____ ft

Top of Grout _____ ft

Top of Seal at _____ ft

Top of Sand Pack _____ ft

Top of Screen at _____ ft

Bottom of Screen at _____ ft

Bottom of Hole at _____ ft

Bottom of Sandpack at _____

OPEN-HOLE WELL

Stick-up _____ ft

Outer Casing Diameter _____ inches

Borehole Diameter _____ ft

Bedrock _____ ft

Bottom of Rock Socket/Outer Casing _____ ft

Bottom of Inner Casing _____ ft

Corehole Diameter _____

Bottom of Corehole _____ ft

Lock Number _____

Inner Casing Material _____

Inner Casing Inside Diameter _____ inches

GROUND SURFACE

Quantity of Material Used:

Bentonite Pellets _____

Cement _____

Borehole Diameter _____ inches

Cement/Bentonite _____

Grout _____

Screen Slot Size _____

Screen Type _____

☐ PVC _____

☐ Stainless Steel _____

Pack Type/Size:

☐ Sand _____

☐ Gravel _____

☐ Natural _____

NOTE: See pages 136 and 137 for well construction diagrams

Depth-ft.	NARRATIVE LITHOLOGIC DESCRIPTION	Moisture Content		
		Dry	Moist	Wet
0-3"	Topsoil dark brown/black sandy/silt	☒	☒	☒
	topsoil	☒	☒	☒
3'-1.5	Orange/brown fine to medium uniform sand, dk/	☒	☒	☒
2	1.5-2 NR	☒	☒	☒
4	2-4 Sand as above	☒	☒	☒
6	4-6 Orange/brown fine sand with very little silt dry to moist	☒	☒	☒
8	6-7.8 Same as above.	☒	☒	☒
	7.8-8 NR	☒	☒	☒
10	8-9.8 Same as above	☒	☒	☒
	9.4 - wet	☒	☒	☒
	Bottom of the hole at 10' BGS	☒	☒	☒
		☒	☒	☒
		☒	☒	☒

ELEV.	DEPTH	DESCRIPTION OF MATERIALS	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS
1	0-3" Topsoil	5W sand	0	6007	5507	2/2	
2	1.5-2 NR	Brown/gray sand fine medium uniform	0	1642	6007	3/5	
3	2.0-3.0 NR	dry SW	0	1642	5507	5/6	
4	3.0-4.0 NR	Brown/gray sand fine with little	0	1642	5507	4/5	
5	4.0-5.0 NR	Same as above	0	1642	5507	5/5	
6	5.0-6.0 NR	8-9.8 Same as above	0	1642	5507	5/5	
7	6.0-7.0 NR	9.4 wet SM	0	1642	5507	5/5	
8	7.0-8.0 NR	Bottom of hole at 10.865	0	1642	5507	5/5	

PROJECT 6007-5567 INSPECTOR J. Angeles

HOLE NO. 6007-55 SHEET 3 OF 3

HTW DRILLING LOG

Borehole Record for 6007-SS08

- Drilling Log
- Narrative Lithologic Description
- Well Development Record
- Well Development -- Parameter Measurements
- Investigation - Derived Waste Inventory Sheet

HTRW DRILLING LOG				DISTRICT		HOLE NUMBER	
1. COMPANY NAME		E+G		USACE KC District		6007-5508	
2. DRILL SUBCONTRACTOR		MAXIM				SHEET 1 OF 3	
3. PROJECT				4. LOCATION			
ESI Addendum				Rome, NY, Griffith Park			
5. NAME OF DRILLER				6. MANUFACTURER'S DESIGNATION OF DRILL			
A1 Kimball				ACKAR 82			
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT				8. HOLE LOCATION			
2" SS (2 FT 10 in) HSA 4 1/4 Auger				ADIT, 6007-5508			
9. SURFACE ELEVATION				10. DATE STARTED			
				3/31/00			
11. DATE COMPLETED				7/31/00			
12. OVERBURDEN THICKNESS				13. DEPTH GROUNDWATER ENCOUNTERED			
> 12				11" BGS			
14. DEPTH DRILLED INTO ROCK				15. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED			
16. TOTAL DEPTH OF HOLE				17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)			
12							
18. GEOTECHNICAL SAMPLES		DISBURBED		UNDISTURBED		19. TOTAL NUMBER OF CORE BOXES	
20. SAMPLES FOR CHEMICAL ANALYSIS		VOC		METALS		OTHER (SPECIFY)	
6007-5508-21				Pb, Cu		Other Solid	
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL		OTHER (SPECIFY)	
				Boring		23. SIGNATURE OF INSPECTOR	
						[Signature]	
LOCATION SKETCH/COMMENTS							
See Fig 3-1 of FSP							
PROJECT				HOLE NO			
ESI Addendum				6007-5508			

ENG FORM 5056-R, AUG 94

(Proponent: CECW-EG)

Figure 4-2. HTRW Drilling Log

6007-5508

Sheet 2 of 9

Lock Number _____

SCREENED WELL

Inner Casing Material _____

Inner Casing Inside Diameter _____ inches

Stick-up _____ ft

Top of Grout _____ ft

Top of Seal at _____ ft

Top of Sand Pack _____ ft

Top of Screen at _____ ft

Bottom of Screen at _____ ft

Bottom of Hole at _____ ft

Bottom of Sandpack at _____ ft

GROUND SURFACE

Quantity of Material Used:

Bentonite Pellets _____

Cement _____

Borehole Diameter _____ inches

Cement/Bentonite _____

Grout _____

Screen Slot Size _____

Screen Type _____

☐ PVC _____

☐ Stainless Steel _____

Pack Type/Size:

☐ Sand _____

☐ Gravel _____

☐ Natural _____

OPEN-HOLE WELL

Stick-up _____ ft

Inner Casing Material _____

Inner Casing Inside Diameter _____ inches

Outer Casing Diameter _____ inches

Borehole Diameter _____ ft

Bedrock _____ ft

Bottom of Rock Socket/Outer Casing _____ ft

Bottom of Inner Casing _____ ft

Corehole Diameter _____

Bottom of Corehole _____ ft

NOTE: See pages 136 and 137 for well construction diagrams

Depth-ft.	NARRATIVE LITHOLOGIC DESCRIPTION	Moisture Content		
		Dry	Moist	Wet
0	0-0.6 Topsoil: Dark brown silty sand	☐	☒	☐
	0.6-0.8 SAND Orange brown medium to fine (uniformly sized) dry/moist sand	☒	☒	☐
	0.8-2 NR	☐	☐	☐
2	2-3.8 Brown sand, medium to fine (uniformly sized) dry/moist	☒	☒	☐
	3.8-4 NR	☐	☐	☐
	4-5.8 SAND as above, dry	☒	☐	☐
	5.8-6 NR	☒	☐	☐
6	6-7.5 SAND as above, dry	☒	☐	☐
	7.5-8 NR	☒	☐	☐
	8-9.8 SAND as above (medium size) moist	☐	☒	☐
	9.8-10 NR	☐	☐	☐
	10-12 SAND as above / water at 11 BGS	☐	☐	☒

HTW DRILLING LOG

HOLE NO.
G007-SS08

PROJECT *ESI Addendum*

INSPECTOR *L. Amick*

SHEET 3
OF 5 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
	0.0 - 0.6	Topsoil silty sand dark brown, moist	O	-	1252 G007-SS08 Z1	5/8	Poor recycled gravel encountered
	0.6 - 0.8	SAW (orange/brown sand medium to fine)			0.6 - 0.8	10/4	
	0.8 - 2	NR					
	2 - 3.8	SW: Brown fine to med sand dry/moist	C	-	1301 G007-SS08- Z2 2-4	3/9 15/8	Same as above (Gravelly whitish)
	3.8 - 4	NR					
	4 - 5	SW as above dry	O	-	-	6/4 10/12	Same as above
	5 - 6	NR 5-6					
	6 - 7	SW as above	O	-	-	5/12 12/12	Gravelly again
	7 - 8	NR 7-8					
	8 - 9	SW as above (medium) moist	C	-	-	2/3	Gravelly Gravel encountered during augering

recycled paper

ecology and environment

Moisture Content

Sheet 4 of 5

6007-5508

Molst.

23/00

[illegible]

revoked paper

~~A-88~~

ecology and environment

HOLE NO.
G007550

EST Addendum

L. Angelino

SHEET 5
OF 5 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
						3/4	
	10	SW as above moist / wet wet at 11.			6007- -SS08 -23 10- 10.5 (1338)	2/3 4/4	
	12	Bottom of hole at 12' BGS					

Borehole Record for 6007-8509

- Drilling Log
- Narrative Lithologic Description
- Well Development Record
- Well Development -- Parameter Measurements
- Investigation - Derived Waste Inventory Sheet

HTRW DRILLING LOG				DISTRICT <i>USACE RC District</i>		HOLE NUMBER <i>6007-SS09</i>	
1 COMPANY NAME <i>E+E</i>				2 DRILL SUBCONTRACTOR <i>MAXIM</i>		SHEET <i>1</i> OF <i>5</i>	
3 PROJECT <i>ESI Addendum</i>				4 LOCATION <i>Griffiss Park, Rome, NY</i>			
5 NAME OF DRILLER <i>Al Kimball</i>				6 MANUFACTURER'S DESIGNATION OF DRILL <i>AUGAR 82</i>			
7 SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT <i>2" & 3" Split Spoon C2 Foot Long</i>				8 HOLE LOCATION <i>AD17, 6007-SS09</i>			
9 SURFACE ELEVATION				10 DATE STARTED <i>3/31/00</i>			
11 DATE COMPLETED <i>5/31/00</i>				12 OVERBURDEN THICKNESS <i>> 12'</i>			
13 DEPTH DRILLED INTO ROCK				15 DEPTH GROUNDWATER ENCOUNTERED <i>11.5</i>			
14 TOTAL DEPTH OF HOLE <i>12' BGS</i>				16 DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED			
17 OTHER WATER LEVEL MEASUREMENTS (SPECIFY)				18 GEOTECHNICAL SAMPLES			
DISTURBED				UNDISTURBED			
19 TOTAL NUMBER OF CORE BOXES				20 SAMPLES FOR CHEMICAL ANALYSIS			
VOC				METALS			
OTHER (SPECIFY)				OTHER (SPECIFY)			
OTHER (SPECIFY)				OTHER (SPECIFY)			
OTHER (SPECIFY)				21 TOTAL CORE RECOVERY			
22 DISPOSITION OF HOLE				23 SIGNATURE OF INSPECTOR			
BACKFILLED				MONITORING WELL			
OTHER (SPECIFY)				OTHER (SPECIFY)			
LOCATION SKETCH/COMMENTS <i>See Fig 3-1 of FSP also</i>				SCALE: <i>Not to Scale</i>			
PROJECT <i>ESI Addendum</i>				HOLE NO. <i>6007-SS09</i>			

ENG FORM 5056-R, AUG 94

(Proponent: CECW-EG)

Figure 4-2. HTRW Drilling Log

G007-SS09

Sheet 2 of 5

SCREENED WELL

Lock Number _____

Inner Casing
Material _____Inner Casing Inside
Diameter _____ inches

GROUND SURFACE

Quantity of Material Used:

Bentonite
Pellets _____

Cement _____

Borehole
Diameter _____ inchesCement/
Bentonite _____

Grout _____

Screen Slot Size _____

Screen Type _____

☐ PVC _____☐ Stainless Steel _____

Pack Type/Size:

☐ Sand _____☐ Gravel _____☐ Natural _____

OPEN-HOLE WELL

Stick-up _____ ft

Inner Casing
Material _____Inner Casing Inside
Diameter _____ inchesOuter Casing
Diameter _____ inchesBorehole
Diameter _____ ft

Bedrock _____ ft

Bottom of Rock Socket/
Outer Casing _____ ftBottom of Inner
Casing _____ ftCorehole
Diameter _____Bottom of
Corehole _____ ft

Stick-up _____ ft

Top of Grout
_____ ftTop of
Seal at _____ ft

Top of Sand Pack _____ ft

Top of
Screen at _____ ftBottom of
Screen at _____ ftBottom of
Hole at _____ ft

Bottom of Sandpack at _____

NOTE: See pages 136 and 137 for well construction diagrams

Depth-ft.	NARRATIVE LITHOLOGIC DESCRIPTION	Moisture Content		
		Dry	Moist	Wet
0-0.5	Topsoil: Dark brown silty fine sand	☐	☒	☐
0.5-1.8	SAND: Orange brown, medium to fine sand dry, uniform	☒	☐	☐
1.8-2	NR	☐	☐	☐
2-3	SAND: as above medium size	☒	☐	☐
At 3' BGs	hit cobble -	☐	☐	☐
3-4	NR	☐	☐	☐
4-5	Some large gravel with the SAND	☐	☐	☐
5-6	NR hit a cobble at the bottom	☐	☒	☐
6-8	: 0.75' ft Relatively SAND as above	☐	☐	☐
8-10	: 1' inch recovery SAND as above	☐	☐	☐
10-12	- SAND: Brown, medium (uniform) sand wet at 11.5	☐	☒	☒
Bottom of hole	at 12' BGs	☐	☐	☐
	7/31/09	☐	☐	☐

HTW DRILLING LOG

HOLE NO.
6007-SS09

PROJECT

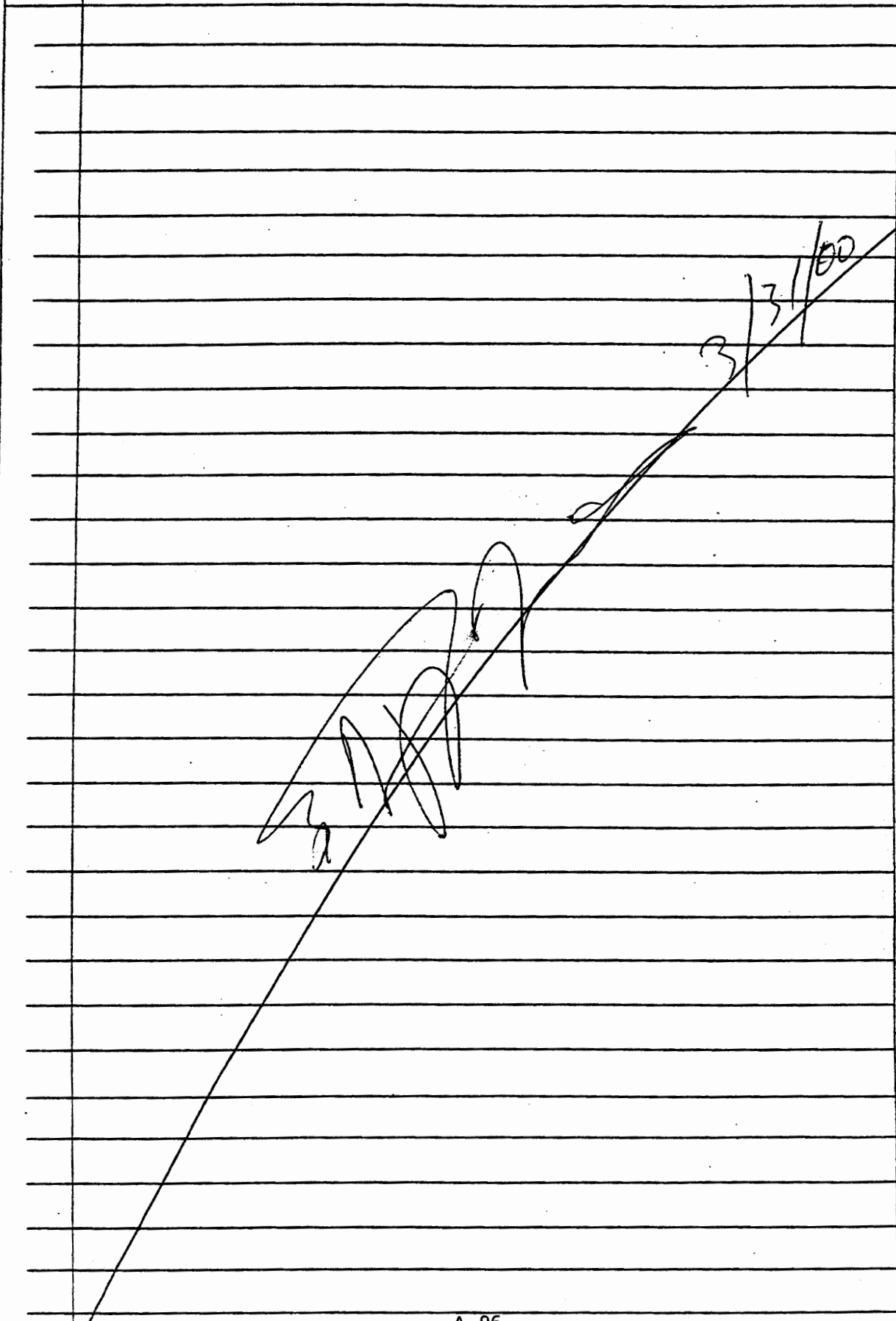
ESI Addendum

INSPECTOR

A. Angelaki

SHEET 3
OF 3 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEO TECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
		Topsoil			808		
		SW Orange/brown sand medium to fine in size (uniform) dry	0	—	6007- SS09- 21 21.5 21.0 0.6-1 (1'ss)	1 5 6 7	—
		NR at 1.8-2					
		SW (medium size)	0	—	813 6007 SS09 22	1 5 46 17	—
		Hit a cobble (1st) No recovery					
		SW as above	0 in BZ 0 in soil 10.5 gpm (in bore- hole)	—	—	3 5 7 27	—
		NR cobble					
		0.75 recovery SW still a cobble in the way	0 in soil 0 in BZ 3 gpm (in borehole)			1 50 36 7	
		1" recovery SW A piece of the cobble stuck in the	7 gpm in hole (due to spindles sharper A-95 large cobble)			4 5	

[illegible]

HTW DRILLING LOG

HOLE NO.
6007-5509

PROJECT *ESI Addendum*

INSPECTOR *L. Angelaki*

SHEET 3
OF 6 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
		NR				45	
	10	SW as before (Brown medium sand (uniform) moist to wet 11.5 Wet.			855 6001- 5509 23 (10-11.5)	23	Wet at 11.5
	11					23	
	12	Bottom of hole at 12.36					

A-97

Borehole Record for 6469-5501

- Drilling Log
- Narrative Lithologic Description
- Well Development Record
- Well Development -- Parameter Measurements
- Investigation - Derived Waste Inventory Sheet

HTW DRILLING LOG

HOLE NO.
6469-SS 13

PROJECT *ESI Addendum*

INSPECTOR *L. Angelini*

SHEET 3
OF 6 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
		NR	6	-		4/2	-
	10	SAND SW	0		400 6469-SS13 -22 (10-12.5)	3/3	-
	11	NR		-		4/7	-
	12	SAND + GRAVEL SP	0	-		14/6	-
	13	NR				2/2	-
	14	End of hole					

Depth (feet)	G469-5513	NARRATIVE LITHOLOGIC DESCRIPTION	Sheet 4 of 6	Moisture Content		
				Dry	Moist	Wet
0		0-2" Topsoil: Rooty, slightly orange, moist, silty soil		☐	☒	☐
		2"-1' SILTY SAND. Brown, silty, fine sand, few gravel, little medium sand, moist to dry		☒	☒	☐
		1'-2' NR		☐	☐	☐
				☐	☐	☐
				☐	☐	☐
				☐	☐	☐
2		2-2.2 SAND + GRAVEL. Brown med-fine sand & subangular med gravel, dry		☒	☐	☐
		2.2-4 NR		☐	☐	☐
				☐	☐	☐
				☐	☐	☐
4		4-6 NR		☐	☐	☐
		Little silt sand and gravel in gray (clayey) dry		☐	☐	☐
				☐	☐	☐
				☐	☐	☐
6		6-7: SAND + GRAVEL: SILTY SAND (fine & medium) + subang gravel, dry (fine med + large)		☐	☐	☐
		7-8 NR		☐	☐	☐
				☐	☐	☐
8		8-8.5: SAND + GRAVEL. (fine brown sand & some med gravel, dry)		☐	☐	☐
		8.5-10 NR		☐	☐	☐

HTW DRILLING LOG

HOLE NO. 6469-513

PROJECT EST Addendum

INSPECTOR L. Angelini

SHEET 3 OF 6 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
	1	Topsoil				5/3	
	1	SILTY SAND SM	0			3/2	
	1	NR					
	2	SAND + GRAVEL SP	0			10/11	
	2	NR					
	3					7/9	
	4						
	5	NR	0			11/15	
	5						
	6	SAND + GRAVEL SP	0	0925 6469 -5513- 21 (6-7)	→	7/6	3"
	7	NR				5/5	
	8	SAND + GRAVEL SP	0			10/5	
	8	NR					

SCREENED WELL

Stick-up _____ ft

Top of Grout _____ ft

Top of Seal at _____ ft

Top of Sand Pack _____ ft

Top of Screen at _____ ft

Bottom of Screen at _____ ft

Bottom of Hole at _____ ft

Bottom of Sandpack at _____

Lock Number _____

Inner Casing Material _____

Inner Casing Inside Diameter _____ inches

Quantity of Material Used:

Bentonite Pellets _____

Cement _____

Borehole Diameter 8 1/4 inches

Cement/Bentonite _____

Grout _____

Screen Slot Size _____

Screen Type _____

☐ PVC _____

☐ Stainless Steel _____

Pack Type/Size:

☐ Sand _____

☐ Gravel _____

☐ Natural _____

OPEN-HOLE WELL

Stick-up _____ ft

Inner Casing Material _____

Inner Casing Inside Diameter _____ inches

Outer Casing Diameter _____ inches

Borehole Diameter _____ ft

Bedrock _____ ft

Bottom of Rock Socket/Outer Casing _____ ft

Bottom of Inner Casing _____ ft

Corehole Diameter _____

Bottom of Corehole _____ ft

Sheet 2 of 6

GROUND SURFACE

NOTE: See pages 136 and 137 for well construction diagrams

[illegible]

HTRW DRILLING LOG		DISTRICT USACE, KC		HOLE NUMBER 6469-PS 13	
1. COMPANY NAME Ecology + Environment		2. DRILL SUBCONTRACTOR MAXIM		SHEET 1 OF 6	
3. PROJECT EIS Addendum		4. LOCATION Rome NY, Griffis AFB			
5. NAME OF DRILLER A1 Kimbal		6. MANUFACTURER'S DESIGNATION OF DRILL ATV CMEB50			
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT HSA 4 1/4 augers 2" & 3" split spoons		8. HOLE LOCATION Building 112 6469-51			
		9. SURFACE ELEVATION			
		10. DATE STARTED 4/21/00		11. DATE COMPLETED 4-21-00	
12. OVERBURDEN THICKNESS 14		15. DEPTH GROUNDWATER ENCOUNTERED 13			
13. DEPTH DRILLED INTO ROCK		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED			
14. TOTAL DEPTH OF HOLE 14'		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)			
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED	
20. SAMPLES FOR CHEMICAL ANALYSIS		VOC		METALS	
		NO		YES	
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL	
19. TOTAL NUMBER OF CORE BOXES		OTHER (SPECIFY)		OTHER (SPECIFY)	
		40 solution		GRAPH, PCB, SNOG	
		OTHER (SPECIFY)		21. SIGNATURE OF INSPECTOR [Signature]	
LOCATION SKETCH/COMMENTS See also fig 3-4 of EIP SCALE: Not to scale					
PROJECT EIS Addendum		HOLE NO. 6469-51 13			

ENG FORM 5056-R, AUG 94

(Proponent: CECW-EG)

Figure 4-2. HTRW Drilling Log

Borehole Record for 6469-SS13 (red'n)

- Drilling Log
- Narrative Lithologic Description
- Well Development Record
- Well Development -- Parameter Measurements
- Investigation - Derived Waste Inventory Sheet

HTW DRILLING LOG

HOLE NO.
6469-5522

PROJECT *E-2 Addendum*

INSPECTOR *L. Angelakis*

SHEET 5
OF 6 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
		NR	—	—	—	4/3	2"
		SAND - SW	Open	—	1600 6469 5522 -22 (10-12)	4/3 3/2	3"
		SAND & GRAVEL SP	0	—	—	4/3	2"
		NR	—	—	—	3/1	
		End at 14' BGS					

Depth (feet)

NARRATIVE LITHOLOGIC DESCRIPTION

Sheet 9 of 6

Moisture
ContentDry
Moist
Wet

0

0-0.5 Topsoil: Rooty dark brown, silty
soil0.5-0.7 SILT: Brown cohesive, dry, non plastic
silt

0.7-1 NR

2

2-2.7 SILTY SAND & GRAVEL: Brown med. fine
sand with silt & gravel
Subrounded medium, dry2.7-3 SILT: Dark gray silt, dry, non-plastic
cohesive

3-4 NR

4-5.2 GRAVEL & SAND: Brown, coarse sand
with subangular gravel dry to moist

5.2-6 NR

6

6-7.2 SAND & GRAVEL: Brown, med. &
coarse sand & med. & coarse
gravel, dry to moist

7.2-8 NR

8

8-8.2 SAND: Brown, medium sand little silt
8.2-10 NR and gravel, moist

HTW DRILLING LOG

HOLE NO. 6469-5522

PROJECT ESI Addendum

INSPECTOR L. H. C. C. C.

SHEET 3 OF 5 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
	1	Topsoil SILT	Hole 4 ppm 32, soil 0	—	—	18/31	2"
	1	NR				44/32	
	2	SAND + GRAVEL (Silty) SP	Hole 100 ppm 20 ppm CHL	—	—	8/7	2"
	3	SILT ML	0.21-30 0.14 BE			5/7	
	4	SAND + GRAVEL SP	Hole 45 ppm 35 ppm (H ₂)			7/4	2"
	5	NR	0.41-30 0.14 BE	—	—	6/5	
	6	SAND + GRAVEL SP	Hole 20 ppm 15 ppm CHL		(013) 6469 5522 -21 (5-7)	9/7	3"
	7	NR	0.14-32 2 soil	—	—	5/4	
	8	SAND SW	2 ppm Hole 0.14-32 5 ppm	—	—	8/5	Catch up with CMF 55
		NR					

31 Aug 94

HTRW DRILLING LOG		DISTRICT USACE, KC		HOLE NUMBER 6469-5522	
1. COMPANY NAME E.I. Addendum		2. DRILL SUBCONTRACTOR MAXIM		SHEET 1 OF 6	
3. PROJECT E.I. Addendum		4. LOCATION Griffis Park Road, NY			
5. NAME OF DRILLER		6. MANUFACTURER'S DESIGNATION OF DRILL ATV CME 850 & CME 55			
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT 2" & 3" split spools (12-ft long)		8. HOLE LOCATION Building 112, 6469-5522			
		9. SURFACE ELEVATION			
		10. DATE STARTED 4/20/00		11. DATE COMPLETED 4/20/00	
12. OVERBURDEN THICKNESS 14'		15. DEPTH GROUNDWATER ENCOUNTERED 12.3' BGS			
13. DEPTH DRILLED INTO ROCK		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED			
14. TOTAL DEPTH OF HOLE 14'		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)			
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED	
19. TOTAL NUMBER OF CORE BOXES					
20. SAMPLES FOR CHEMICAL ANALYSIS		VOC		METALS	
6469-5522-21, 22		VOC		VFS	
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL	
				OTHER (SPECIFY)	
				21. TOTAL CORE RECOVERY	
				20. SIGNATURE OF INSPECTOR	
LOCATION SKETCH/COMMENTS See also log in FSP SCALE 50' to 1" scale					
PROJECT E.I. Addendum		HOLE NO. 6469-5522			

ENG FORM 5056-R, AUG 94

(Proponent: CECW-EG)

Figure 4-2. HTRW Drilling Log

Borehole Record for G469-SS 22

- Drilling Log
- Narrative Lithologic Description
- Well Development Record
- Well Development -- Parameter Measurements
- Investigation - Derived Waste Inventory Sheet

Depth (feet)	6469-5521 NARRATIVE LITHOLOGIC DESCRIPTION sheet 6 of 6	Moisture Content		
		Dry	Moist	Wet
7	8.8-9 Wood	☐	☒	☐
	9-10 NR	☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
10	Some sand & concrete in spoon	☐	☒	☐
	10-12 NR	☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
12	12-12.7 SAND + GRAVEL: Coarse brown sand and medium & coarse gravel little ill moist	☐	☒	☐
	12.9-14 NR	☐	☒	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
14	14-14.4 Gravel + silty sand, saturated	☐	☐	☒
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
	Bottom of hole at 16 BG	☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐

HTW DRILLING LOG

HOLE NO.
6469-5521

PROJECT *EST Addendum*

INSPECTOR *L. Angeles*

SHEET 5
OF 6 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
	9	NR				4230	3" ss
	10						
	11	NR	Hole 60 ppm CH ₄ (due to bustling through the borehole)			86	2" ss
	12					67	
	13	SAND & GRAVEL SP	Hole 4 ppm (CH ₄)		6464 -5521 -22 (12-13)	108	3" ss
	14		1.1 ppm in soil 0 in BGS		925	1311	
	15	GRAVEL & SILT GM	4 ppm - hole 0 ppm in soil 0 in BGS			43	Water at 14' BGS
	16					22	2" ss
	17	End of 16' BGS					

Depth (feet)	6469-SS-1 NARRATIVE LITHOLOGIC DESCRIPTION	Moisture Content		
		Dry	Moist	Wet
0	0-0.5 Topsoil : Brown silty sand, somewhat	☐	☒	☐
	0.5-0.65 silt : Brown cohesive dry silt	☒	☐	☐
	0.65-0.7 Gravel	☐	☐	☐
	0.7-2 NR	☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
2	2-2.6 SILT-Gravel Brown cohesive silt	☐	☒	☐
	and subrounded med gravel	☐	☒	☐
	2.6-2.75 SILTY SAND-Gravel : Brown silty	☐	☒	☐
	med sand + gravel matrix	☐	☒	☐
	2.75-4 NR	☐	☐	☐
		☐	☐	☐
4	4-4.75 SANDY SILT + Gravel : Brown sandy	☐	☐	☐
	(coarse) silt and med. gravel matrix	☐	☐	☐
	4.75-6 NR	☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
6	6-8 NR	☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
8	8-8.3 SANDY SILT-Gravel as above moist	☐	☐	☐
	8.3-8.8 CONCRETE	☐	☐	☐

HTW DRILLING LOG

HOLE NO.
6469-5521

PROJECT *SSI Addendum*

INSPECTOR *L. Angelich*

SHEET *3*
OF 6 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
	0	Topsoil				WH/2	WH = weight of hammer
	1	SILT ML	0	—	—	9/5	2"
	2	NR					
	3	SILT + GRAVEL GP	0.	—	—	5/4	2"
	4	SILT + SAND + GRAVEL GP/GM		—	—	4/3	
	5	NR					
	6	SANDY SILT + GRAVEL GM	Hole 0.6	—	—	4/4	2"
	7	NR	BZ: 0	—	—	2/3	
	8	NR	Soil: 0	—	—		
	9	NR	Hole 0.9	—	—	7/5	3"
	10	NR	BZ: 0.	—	—	5/6	
	11	SANDY SILT + GRAVEL	Hole 1.5	—	—	13/31	3 4-oz J-13
	12	concrete	15 ppm Chloride	—	—		
	13	wood	0 in BE	—	—		

6469-5521

Lock Number _____

Sheet 2 of 6

SCREENED WELL

OPEN-HOLE WELL

Stick-up _____ ft

Inner Casing
Material _____Inner Casing Inside
Diameter _____ inches

GROUND SURFACE

Top of Grout _____ ft

Quantity of Material Used:
Bentonite
Pellets _____

Cement _____

Borehole $5\frac{1}{2}$ inches
Diameter _____Cement/
Bentonite _____

Grout _____

Screen Slot Size _____

Screen Type _____

☐ PVC
☐ Stainless Steel

Pack Type/Size:

☐ Sand
☐ Gravel
☐ NaturalInner Casing
Material _____Inner Casing Inside
Diameter _____ inchesOuter Casing
Diameter _____ inchesBorehole
Diameter _____ ft

Bedrock _____ ft

Bottom of Rock Socket/
Outer Casing _____ ftBottom of Inner
Casing _____ ftCorehole
Diameter _____Bottom of
Corehole _____ ftTop of
Seal at _____ ft

Top of Sand Pack _____ ft

Top of
Screen at _____ ftBottom of
Screen at _____ ftBottom of
Hole at _____ ft

Bottom of Sandpack at _____

NOTE: See pages 136 and 137 for well construction diagrams

Depth-ft.

NARRATIVE LITHOLOGIC DESCRIPTION

See next pages

Moisture
Content

Dry

Moist

Wet

HTRW DRILLING LOG		DISTRICT <u>USACE KCC</u>		HOLE NUMBER <u>G469-5521</u>	
1. COMPANY NAME <u>ESR</u>		2. DRILL SUBCONTRACTOR <u>MTA 112</u>		SHEET <u>1</u> OF <u>6</u>	
3. PROJECT <u>ESR Addendum</u>		4. LOCATION <u>GRIFISS PARK, Rome, NY</u>			
5. NAME OF DRILLER <u>AI Kimbal</u>		6. MANUFACTURER'S DESIGNATION OF DRILL <u>BIV CME 850</u>			
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT <u>1 1/2" 4 1/4" auger</u> <u>8" - 3" S 2-ft core</u>		8. HOLE LOCATION <u>Building 112 - G469-5521</u>			
		9. SURFACE ELEVATION			
		10. DATE STARTED <u>9/20/00</u>		11. DATE COMPLETED <u>9/20/00</u>	
12. OVERBURDEN THICKNESS <u>>16'</u>		15. DEPTH GROUNDWATER ENCOUNTERED <u>14'</u>			
13. DEPTH DRILLED INTO ROCK		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED			
14. TOTAL DEPTH OF HOLE <u>16'</u>		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)			
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED	
				19. TOTAL NUMBER OF CORE BOXES	
20. SAMPLES FOR CHEMICAL ANALYSIS		VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)
<u>G469-5521-11-1-1</u>			<u>YES</u>	<u>3006, PCBs</u>	<u>GRAPH</u>
22. DISPOSITION OF HOLE		BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
					<u>920/1965</u>
23. SIGNATURE OF INSPECTOR					
		<u>[Signature]</u>			
LOCATION SKETCH/COMMENTS <u>See also fig. 14 FSP</u> SCALE: 1" = 100'					
PROJECT <u>ESR Addendum</u>		HOLE NO. <u>G469-5521</u>			

ENG FORM 5056-R, AUG 94

(Proponent: CECW-EG)

Figure 4-2. HTRW Drilling Log

Borehole Record for G469-5521

- Drilling Log
- Narrative Lithologic Description
- Well Development Record
- Well Development -- Parameter Measurements
- Investigation - Derived Waste Inventory Sheet

9	
---	--

6469-SS2Q

NARRATIVE LITHOLOGIC DESCRIPTION

Sheet 6 of 4

Moisture
Content

10-

10-11.2 SAND as above, moist

 $n =$

17-12.2 SAND + GRAVEL saturated

12. L-14 NR

14-

Bottom of hole at 14' BGL

HTW DRILLING LOG

HOLE NO.
6469-5320

PROJECT

ESI Addendum

INSPECTOR

L. Angeles

SHEET
OF 6 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
	9	SAND SW NR	-	-	-	2/2	-
	10	SAND SW NR	3.6 ppm in CH4 0 in soil in BZ	-	(1535) 6469- 5520 -26	3/2 2/7	48 oz Jars
	12	SAND + GRAVEL, 12 ft NR SP	1.4 ppm in hole 0 in soil + BZ	-	Schubert Ford	11/17 13/13	-
	14	End of boring at 14' BGS					

Depth (feet)	NARRATIVE LITHOLOGIC DESCRIPTION	Moisture Content		
		Dry	Moist	Wet
0	0-3" TOP SOIL: Brown roots, gravel silt, organic, moist (dark brown)	☐	☒	☒
	3"-8" SILT: Brown silt with little clay & gravel (subrounded), bond cohesive, dry	☒	☐	☐
	8"-2 NR	☐	☐	☐
		☐	☐	☐
2	2-3 SAND+GRAVEL: Brown med. sand and subrounded gravel dry to moist	☐	☒	☐
	3-4 NR	☐	☐	☐
		☐	☐	☐
4	4-5 SAND+GRAVEL: Brown coarse sand and med-subrounded gravel, dry	☐	☐	☐
	5-6 NR	☐	☐	☐
		☐	☐	☐
6	6-7 SAND+GRAVEL: Brown coarse+med silt and coarse+medium gravel, dry	☐	☐	☐
	7-8 NR	☐	☐	☐
		☐	☐	☐
8	8-9.5 SAND: Medium brown sand, dry	☒	☐	☐
	9.5-10 NR	☐	☐	☐
		☐	☐	☐

HOLE NO.
6469-5120

SHEET 3
OF 10 SHEETS

PROJECT

ES I Adolendum

INSPECTOR

L. Angelelli

MRK FORM 55-2
JUN 89

PROJECT

ESI Add ending ^{A-100}

HOLE NO.

969-5520

Stick-up _____

SCREENED WELL

Inner Casing Material _____

~~Inner Casing Inside~~
Diameter _____ inches

Stick-up _____ ft

Top of Grout

Top of
Seal at _____ ft

Top of Sand Pack ft

Top of Screen at _____ ft

Bottom of Screen at _____ ft

Bottom of
Hole at _____ ft

Bottom of Sandpack at _____

GROUND SURFACE

Quantity of Material Used:
Bentonite
Pellets

Cement_____

Borehole 8 1/4 inches
Diameter

Cement/
Bentonite_____

Grout _____

Screen Slot Size 1/2

Screen Type /

☐ PVC /

☐ **Stainless Steel** _____

Pack Type/Size:

☒ Sand _____

Gravel _____

☐ **Natural** _____

OPEN-HOLE WELL

**Inner Casing
Material**

Inner Casing Inside
Diameter _____ inches

Outer Casing Diameter _____ inches

Borehole Diameter _____ ft

Bedrock _____ ft

Bottom of Rock Socket/
Outer Casing _____ ft

Bottom of Inner
Casing _____ ft

Corehole
Diameter_____

Bottom of
Corehole _____ ft

NOTE: See pages 136 and 137 for well construction diagrams

[illegible]

Figure 4-2. HTRW Drilling Log

Borehole Record for 6469-SS20

- Drilling Log
- Narrative Lithologic Description
- Well Development Record
- Well Development -- Parameter Measurements
- Investigation - Derived Waste Inventory Sheet

6469-5519

Sheet 6 of 6

Depth (feet)

NARRATIVE LITHOLOGIC DESCRIPTION

Moisture
ContentDry
Moist
Wet

9

10

10-12 NR

12

12-13.5 SAND : Coarse brown sand & some
gravel med + coarse subrounded
wetwater $\approx$ 13.5

13.5-14 NR

14

Bottom of hole at 14' BGS

HTW DRILLING LOG

HOLE NO.
G469-SSK

PROJECT *EST Addendum*

INSPECTOR *L. Angeleshi*

SHEET 5
OF 6 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
	9					3/5	
	10					2/2	
	11					2/2	
	12						
	13	SAND SP			G469 -SS19 Z2, Z2/D, Z2/S (940) 12-13	4/2 3/3	web at 13.5
	14	Bottom at 14' BGS					
	15						
	16						
	17						

recycled paper

ecology and environment

Depth (feet)	NARRATIVE LITHOLOGIC DESCRIPTION										Moisture Content	
											Dry	Wet
0-5"	Top soil. Dark brown silty, very sandy soil. Little gravel at bottom, wet.											
5'-9"	NR (have stuck in shot)											
9-9.8	Silty sand + gravel. Brown silty fine sand & medium and coarse gravel some medium sand at 2.5-2.8											
9.8-4	NR											
4-4.8	Silt + gravel. Brown silt & med + coarse gravel few sand											
4.2-6	NR											
6-7	SAND + GRAVEL. Brown sand medium and fine and medium and coarse gravel, some silt, med.											
7-8	NR											
8-9	sand as above											

Sheet 4 of 6

NARRATIVE LITHOLOGIC DESCRIPTION

G469-8519

HTW DRILLING LOG

HOLE NO.
G469-SS19

PROJECT *EST Addendum*

INSPECTOR *L. Angeles*

SHEET 3
OF 6 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
	0	Topsoil	0	-	-	3/3	-
	1	NR				5/12	
	2	SILTY SAND + GRAVEL SM-SP				4/5	
	3					74	
	4	SILT + GRAVEL GP					
	5	SILT + SAND + GRAVEL NR NOT 4/19/00				43	
	6					3/5	
	7	SAND + GRAVEL, moist GP			G469 -SS19 -2' (922) 6'-7'	8/5	3" ss.
	8	NR				16/13	
	9	SAND + GRAVEL GP				4/3	

recycled paper

ecology and environment

Stick-up _____ ft

OPEN-HOLE WELL

Stick-up _____ ft

Inner Casing
Material _____

Inner Casing Inside
Diameter _____ inches

GROUND SURFACE

Top of Grout _____ **ft**

Quantity of Material Used:
Bentonite
Pellets

Top of
Seal at _____ ft

Cement _____

Top of Sand Pack _____ ft

Borehole _____ inches
Diameter

Top of
Screen at _____ ft

Cement/
Bentonite

Bottom of
Screen at _____ ft

Gout _____

Bottom of
Hole at _____ ft

Screen Slot Size _____

Bottom of Sandpack at _____

Screen Type _____
☐ PVC _____
☐ Stainless Steel _____

Pack Type/Size:
☐ Sand _____
☐ Gravel _____
☐ Natural _____

NOTE: See pages 136 and 137 for well construction diagrams

Inner Casing
Material _____

Inner Casing Inside
Diameter _____ inches

Outer Casing
Diameter _____ inches

Borehole Diameter _____ ft

Bedrock _____ ft

Bottom of Rock Socket/
Outer Casing _____ ft

Bottom of Inner
Casing _____ ft

Corehole
Diameter _____

Bottom of
Corehole _____ ft

[illegible]

HTRW DRILLING LOG				DISTRICT		HOLE NUMBER	
1. COMPANY NAME Ecology + Environment				2. DRILL SUBCONTRACTOR MAXIM		G469-SS19	
3. PROJECT EST Addition				4. LOCATION ROME NY, GRIFFISS PARK		SHEET 1 OF 6	
5. NAME OF DRILLER A. Kimbal				6. MANUFACTURER'S DESIGNATION OF DRILL ATV CME 850			
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT HSA 9/4 auger				8. HOLE LOCATION G469-SS19, Building 112			
2" + 3" split spoon				9. SURFACE ELEVATION			
12. OVERBURDEN THICKNESS 14				10. DATE STARTED 4/19/00		11. DATE COMPLETED 4/19/00	
13. DEPTH DRILLED INTO ROCK				15. DEPTH GROUNDWATER ENCOUNTERED 15.5			
14. TOTAL DEPTH OF HOLE 14				16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED			
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)				18. GEOTECHNICAL SAMPLES			
DISTURBED				UNDISTURBED		19. TOTAL NUMBER OF CORE BOXES	
20. SAMPLES FOR CHEMICAL ANALYSIS				VOC		METALS	
G469-SS19-2, 12				YES		YES	
22. DISPOSITION OF HOLE				BACKFILLED		MONITORING WELL	
				OTHER (SPECIFY)		21. TOTAL CORE RECOVERY	
				SIGNATURE OF INSPECTOR			
LOCATION SKETCH/COMMENTS							
HANGAR ROAD Door Building 112 fence SS19 Patio stairs garage SCALE							
PROJECT EST Addition				HOLE NO. G469-SS19			

ENG FORM 5056-R, AUG 94

(Proponent: CECW-EG)

Figure 4-2. HTRW Drilling Log

Borehole Record for G469-SS/9

- Drilling Log
- Narrative Lithologic Description
- Well Development Record
- Well Development -- Parameter Measurements
- Investigation - Derived Waste Inventory Sheet

Sheet 6 of 6

NARRATIVE LITHOLOGIC DESCRIPTION

Dry	Moist	Wet
-----	-------	-----

~~SECRET~~

10-11 SAND as above

11-12 NR

12-12.8 GRAVEL: Coarse & Med ~~sand~~ ^{gravel} and
v. coarse sand, silt.

12.8-14 NA

Bottom of hole at 14' BGS

HTW DRILLING LOG

HOLE NO.
6469-5517

PROJECT *ESI Addendum*

INSPECTOR *C Angelaki*

SHEET *5*
OF 6 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
		SAND SW	—	—		2/2	—
		NR	—	—			—
	10	SAND SW	38 ppm CH ₄ in hole	—	6469- 5517- 72	2/2	3"
	11	NR	0.14 soil in BZ		10-11 (1330)	2/2	
	12	GRAVEL, sat GP	248 ppm CH ₄ in hole			4/4	water at 12
	13	na	0.14 soil + BZ			5/6	
	14	end of boring at	14' BGS				

G469-SS17

NARRATIVE LITHOLOGIC DESCRIPTION

Sheet 4 of 6

Depth (feet)		Moisture Content		
		Dry	Moist	Wet
0	0-0.4 <u>Topsoil</u> : Rocky brown, silty, sandy soil with few gravel, moist	☐	☒	☐
	0.4-2 NR	☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
2	2-2.5 SAND: Coarse brown sand with some med gravel & little silt dry	☒	☐	☐
	2.5-4 NR	☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
4	4-6 NR	☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
6	6-7 SAND: ^{med} medium brown sand & some ^{med} medium subrounded gravel dry/moist	☐	☒	☐
	7-8 NR	☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
8	8-9.5 SAND: Medium brown sand, moist	☐	☒	☐
	9.5-10 NR	☐	☒	☐

HTW DRILLING LOG

HOLE NO. 6469-5197

PROJECT

E 37 Addendum

INSPECTOR

L. Angeles

SHEET 3 OF 6 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEO TECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
		Topsoil:				4/4	
	1	NR	0	—	—	4/4	—
	2	SAND SW	2 ppm HOLE total (0.8 CH ₄)	—	—	5/5	—
	3	NR	0 in soil + BZ	—	—	7/4	—
	4	NR	3 ppm CH ₄ in hole	—	—	6/3	—
	5	NR	0 in BZ & soil	—	—	3/4	—
	6	SAND SW	Hole 1 ppm	—	(B18) 6469 5517 21 21/D 21/S 6-7	5/4	3" ss collected 6-7 BGS sample
	7	NR	0 in BZ 0 in soil	—	—	8/8	(4 8-oz jars) (2 4-oz jars)
	8	SAND SW	HOLE 0.8 ppm CH ₄ 0 in BZ in soil	—	—	2/2	—

Stick-up _____ ft

SCREENED WELL

Inner Casing Material _____

Inner Casing Inside Diameter _____ inches

GROUND SURFACE

Quantity of Material Used:

Bentonite Pellets

Cement/_____

Borehole 8 1/4 inches
Diameter

Cement/
Bentonite

Grout

Screen Slot Size _____

Screen Type _____

☐ PVC _____

☐ Stainless Steel _____

Pack Type/Size:

☐ Sand _____

☐ Gravel _____

☐ Natural _____

OPEN-HOLE WELL

Inner Casing Material

Inner Casing Inside
Diameter _____ inches

Outer Casing
Diameter _____ inches

Borehole
Diameter _____ ft

Bedrock _____ **ft**

Bottom of Rock Socket/
Outer Casing _____ ft

Bottom of Inner
Casing _____ ft

Corehole
Diameter

Bottom of Corehole _____ ft

Stick-up _____ ft

Top of Grout

Top of Seal at _____ ft

Top of Sand Pack _____ ft

Top of
Screen at _____ ft

Bottom of Screen at _____ ft

Bottom of Hole at _____ ft

Bottom of Sandpack at _____

NOTE: See pages 136 and 137 for well construction diagrams

[illegible]

HTRW DRILLING LOG		DISTRICT USACE, LAC		HOLE NUMBER 6469-SS17	
1. COMPANY NAME Ecology + Environment		2. DRILL SUBCONTRACTOR MAXIM		SHEET SHEETS 1 of 6	
3. PROJECT EST Addendum		4. LOCATION GRIFFISS PARK, ROME, NY			
5. NAME OF DRILLER A1 Kimbzi		6. MANUFACTURER'S DESIGNATION OF DRILL CME 850 ATV			
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT HSA 3/4 auger 2" & 3" Sphl Spoon		8. HOLE LOCATION Building 112 6469-SS17			
		9. SURFACE ELEVATION			
		10. DATE STARTED 4/19/00		11. DATE COMPLETED 4/19/00	
12. OVERBURDEN THICKNESS 2 1/4		13. DEPTH GROUNDWATER ENCOUNTERED 12			
13. DEPTH DRILLED INTO ROCK		14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED			
14. TOTAL DEPTH OF HOLE 14		15. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)			
16. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED	
17. TOTAL NUMBER OF CORE BOXES					
18. SAMPLES FOR CHEMICAL ANALYSIS		VOC		METALS	
6469-SS17-2, 22		—		YES	
19. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL	
20. OTHER (SPECIFY)		OTHER (SPECIFY)		OTHER (SPECIFY)	
Solid		PCB, SDC, TBP, PAH		21. TOTAL CORE RECOVERY %	
22. SIGNATURE OF INSPECTOR					
LOCATION SKETCH/COMMENTS See Fig 3-12					
PROJECT EST Addendum		HOLE NO. 6469-SS17			

ENG FORM 5056-R, AUG 94

(Proponent: CECW-EG)

Figure 4-2. HTRW Drilling Log

Borehole Record for 6469-8517

- Drilling Log
- Narrative Lithologic Description
- Well Development Record
- Well Development -- Parameter Measurements
- Investigation - Derived Waste Inventory Sheet

Depth (feet)

6469-SS 15-2

NARRATIVE LITHOLOGIC DESCRIPTION

Sheet 6 of 6

Moisture
Content

Dry

Moist

Wet

10

10-10.8 SAND: Coarse brown sand,
few gravel, moist

10.8-12 NR

12

12-14 NR

14

Bottom of hole at 14 BGS

HTW DRILLING LOG

HOLE NO. 6469-SS15

PROJECT EST Addendum

INSPECTOR L. Angelotti

SHEET 5 OF 6 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
		nr		—		3/2	—
	10	SAND SW		—	6469 SS15 -22 (10-11) 1100	3/3	18 oz jar 2 14 oz not enough recovery
	11	nr	0			5/6	
	12					4/4	no recovery water comp out of spoon & intercept soils
	13	nr				4/4	
	14	End at 14' BGS					

recycled paper

ecology and environment

Depth (feet)	G469-5515	NARRATIVE LITHOLOGIC DESCRIPTION	Sheet 4 of 6			Moisture Content		
			Dry	Moist	wet			
0		0-4" Topsoil: Silty red, dark brown, organic soil, v. few gravel, moist	☐	☒	☒			
		4"-2' NR	☐	☐	☐			
			☐	☐	☐			
			☐	☐	☐			
			☐	☐	☐			
			☐	☐	☐			
2		2-2.5 : SAND + GRAVEL: Orange brown fine and medium sand and med gravel; dry	☒	☐	☐			
		2.5-4 NR	☐	☐	☐			
			☐	☐	☐			
			☐	☐	☐			
			☐	☐	☐			
			☐	☐	☐			
4		4-4.5 SAND + GRAVEL: Coarse sand brown and med. gravel, v. little fine; dry	☐	☐	☐			
		4.5-6 NR	☐	☐	☐			
			☐	☐	☐			
			☐	☐	☐			
			☐	☐	☐			
6		6-7.5: SAND + GRAVEL as above	☐	☐	☐			
		7.5-8 = NR	☐	☐	☐			
			☐	☐	☐			
			☐	☐	☐			
			☐	☐	☐			
			☐	☐	☐			
8		8-10 NR	☐	☐	☐			
			☐	☐	☐			
			☐	☐	☐			
			☐	☐	☐			

HTW DRILLING LOG

HOLE NO.
6469-5515

PROJECT

EST Addendum

INSPECTOR

L. Angelakis

SHEET 3
OF 6 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
	0	TOPSOIL				15/13	
	1	NA	0			7/5	
	2	SAND + GRAVEL SP				5/6	
	3	NR	0			4/7	
	4	SAND + GRAVEL SP				5/5	
	5	NR	0			4/2	
	6	SAND + GRAVEL SP	0		6469-5515-21, 21/D, 21/S (1038) 6-7' (65)	7/9	3" S
	7					8/11	
	8	NR	0			8/5	

recycled paper

A-141

ecology and environment

PROJECT

EST Addendum

HOLE NO.

6469-5515

Sheet 20 of 6

Lock Number _____

Stick-up _____ ft

SCREENED WELL

OPEN-HOLE WELL

Inner Casing Material _____

Inner Casing Material _____

Inner Casing Inside
Diameter _____ inches

Inner Casing Inside
Diameter _____ inches

Stick-up _____ **ft**

GROUND SURFACE

Top of Grout _____ **ft**

Quantity of Material Used:
Bentonite
Pellets

Outer Casing
Diameter _____ inches

Top of Seal at _____ ft

Comment _____

Borehole Diameter _____ ft

Top of Sand Pack _____ft

Borehole _____ inches
Diameter

Bedrock _____ ft

Top of
Screen at _____ ft

Grout _____

Bottom of Rock Socket/
Outer Casing _____ ft

Bottom of Screen at _____ ft

Screen Slot Size _____

Bottom of Inner
Casing _____ ft

Bottom of Hole at _____ ft

Screen Type _____

Corehole Diameter _____

Bottom of Sandpack at _____

☐ PVC _____
☐ Stainless Steel _____

Bottom of
Corehole _____ ft

Pack Type/Size:
☐ Sand _____
☐ Gravel _____
☐ Natural _____

NOTE: See pages 136 and 137 for well construction diagrams

[illegible]

HTRW DRILLING LOG			DISTRICT		HOLE NUMBER	
1 COMPANY NAME <i>E+E</i>			2 DRILL SUBCONTRACTOR <i>MAXIM</i>		3 HOLE NUMBER <i>6469-SS15</i>	
4 PROJECT <i>EJI Addendum</i>			5 LOCATION <i>Rome NY, GRIFFIN BAR</i>		6 SHEET <i>1</i> OF <i>6</i>	
7 NAME OF DRILLER <i>Al Kimball</i>			8 MANUFACTURER'S DESIGNATION OF DRILL <i>ATV CME 850</i>		9 HOLE LOCATION <i>Building 112, 6469-SS15</i>	
10 SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT <i>HIA 4 1/2" auger</i>			11 SURFACE ELEVATION		12 DATE STARTED <i>4/19/00</i>	
13 2" + 3" Split Spoons			14 DATE COMPLETED <i>4/19/00</i>		15 DEPTH GROUNDWATER ENCOUNTERED <i>14</i>	
16 OVERBURDEN THICKNESS <i>> 14</i>			17 DEPTH DRILLED INTO ROCK		18 DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
19 TOTAL DEPTH OF HOLE <i>14</i>			20 OTHER WATER LEVEL MEASUREMENTS (SPECIFY)		21 TOTAL CORE RECOVERY	
22 GEOTECHNICAL SAMPLES			23 DISTURBED		24 UNDISTURBED	
25 SAMPLES FOR CHEMICAL ANALYSIS			26 VOC		27 METALS	
28 DEPOSITION OF HOLE			29 BACKFILLED		30 MONITORING WELL	
31 LOCATION SKETCH/COMMENTS			32 SCALE		33 SIGNATURE OF INSPECTOR	
<i>See Fig 3-4 in FSP</i> <i>Hangar Road</i> <i>Door</i> <i>Patio</i> <i>Garage Doors</i> <i>55.15</i>			<i>Not to scale</i>		<i>[Signature]</i>	
PROJECT <i>EJI Addendum</i>			HOLE NO <i>6469-SS15</i>			

ENG FORM 5056-R, AUG 94

(Proponent: CECW-EG)

Figure 4-2. HTRW Drilling Log

Borehole Record for 6469-SS15

- Drilling Log
- Narrative Lithologic Description
- Well Development Record
- Well Development -- Parameter Measurements
- Investigation - Derived Waste Inventory Sheet

Moisture Content			Dry			Wet		
NARRATIVE LITHOLOGIC DESCRIPTION								
Sheet 6 of 6								
6469 - 5513								
9								
1								
2								
4								

HTW DRILLING LOG

HOLE NO.
G469-55.3

PROJECT *ESI Addendum*

INSPECTOR *L. Angilotti*

SHEET 5
OF 5 SHEETS 6

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
	10						
	11						
	12						
	13						
	14						
	15						
	16						
	17						

0-4": Topsoil, silty, rooty, moist soil

4"-1 = SILT : SILT with some gravel
little fine sand, dry

1-2 nd

2-2.9 SILT + GRAVEL: Brown, y. lt & medium
fine, little sand, dry moist

2.9-4 NR

4-4.5 SILTY SAND + GRAVEL as above (more sand)

4.5-6 ~R

4. Is water line/Drain line? (Black 3" Dia. Plastic)

HTW DRILLING LOG

HOLE NO. 6469-5513

PROJECT *ESI Addendum*

INSPECTOR *L. Angsch*

SHEET 3 OF 6 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
		Topsoil				4/4	
	1	SILT ML	0	—	—	5/6	—
	2	nr				1/2	
	3	SILT + GRAVEL GM	0	—	—	1/2	—
	4	nr				3/8	
	5	SAND + GRAVEL SP	0	—	—	1/11	—
	6	nr					
	7	Hit water lyl (Black Plastic ≈ 3" dia.)	—	—	—		—
	8						

SCREENED WELL		OPEN-HOLE WELL
	Lock Number _____	
	Inner Casing Material _____	
	Inner Casing Inside Diameter _____ inches	
Stick-up _____ ft		Stick-up _____ ft
	GROUND SURFACE	
Top of Grout _____ ft	Quantity of Material Used:	
	Bentonite Pellets _____	
Top of Seal at _____ ft	Cement _____	
	Borehole _____ inches	
Top of Sand Pack _____ ft	Diameter _____	
	Cement/Bentonite _____	
Top of Screen at _____ ft	Grout _____	
	Screen Slot Size _____	
Bottom of Screen at _____ ft	Screen Type _____	
	☐ PVC _____	
Bottom of Hole at _____ ft	☐ Stainless Steel _____	
Bottom of Sandpack at _____	Pack Type/Size:	
	☐ Sand _____	
	☐ Gravel _____	
	☐ Natural _____	
		Outer Casing Diameter _____ inches
		Borehole Diameter _____ ft
		Bedrock _____ ft
		Bottom of Rock Socket/Outer Casing _____ ft
		Bottom of Inner Casing _____ ft
		Corehole Diameter _____
		Bottom of Corehole _____ ft

NOTE: See pages 136 and 137 for well construction diagrams

[illegible]

HTRW DRILLING LOG		DISTRICT USACE-KC		HOLE NUMBER 6469-5513	
1. COMPANY NAME Ecody Environmental		2. DRILL SUBCONTRACTOR MAXIM		3. SHEET 1 OF 6	
4. PROJECT ESI Addendum		5. NAME OF DRILLER A1 CML		6. MANUFACTURER'S DESIGNATION OF DRILL ATV CME850	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT 4 1/4" & 2" bits		8. HOLE LOCATION 6469-5513		9. SURFACE ELEVATION 211 + 371 584.7 - 580.4 2-ft. box	
10. DATE STARTED 9/18/00		11. DATE COMPLETED 9/18/00		12. OVERBURDEN THICKNESS 5'	
13. DEPTH DRILLED INTO ROCK 5'		14. TOTAL DEPTH OF HOLE 8'		15. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)		18. GEOTECHNICAL SAMPLES DISTURBED UNDISTURBED	
19. TOTAL NUMBER OF CORE BOXES		20. SAMPLES FOR CHEMICAL ANALYSIS VOC METALS		21. TOTAL CORE RECOVERY %	
22. DISPOSITION OF HOLE BACKFILLED		23. SIGNATURE OF INSPECTOR [Signature]		24. SCALE [Scale]	

LOCATION SKETCH/COMMENTS

PROJECT
ESI Addendum

HOLE NO
6469-5513

(Proponent: CECW-EG)

Figure 4-2. HTRW Drilling Log

Borehole Record for 6469-S S13

- Drilling Log
- Narrative Lithologic Description
- Well Development Record
- Well Development -- Parameter Measurements
- Investigation - Derived Waste Inventory Sheet

G469-5511

Sheet 6 of 6

Depth (feet)

NARRATIVE LITHOLOGIC DESCRIPTION

Moisture
ContentDry
Moist
Wet

9

10

10-10.6 : SAND + GRAVEL : Coarse brown sand
and med. gravel, moist

10.6-12 NR

12

12-14 no recovery, very saturated

Bottom of hole at 14' B6

14

HTW DRILLING LOG

HOLE NO.
6469-5511

PROJECT *ESI Addendum*

INSPECTOR *L. Angelini*

SHEET *5*
OF *6* SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEO TECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
		<i>NR</i>				<i>2/4</i>	
	<i>10</i>	<i>SAND + GRAVEL SP</i>	<i>0.2 gpm in hole</i>		<i>1502 6469 5511 - 22 10-12</i>	<i>6/2</i>	
	<i>11</i>	<i>NR</i>	<i>0 ppm in B2 8/20/11</i>			<i>3/13</i>	
	<i>12</i>		<i>0</i>			<i>8/9</i>	<i>wet at 12.3</i>
	<i>13</i>	<i>NR</i>				<i>5/7</i>	
	<i>14</i>						
	<i>15</i>						
	<i>16</i>						
	<i>17</i>						

4/18/00

recycled paper

A-127

ecology and environment

Depth (feet)

G-469-5511

NARRATIVE LITHOLOGIC DESCRIPTION

Sheet 4 of 6

Moisture
ContentDry
Moist
Vel

0

0-2" Topsoil Brown silt with roots, wet

2"-1 SILTY SAND: Brown silt & sand (fine)

some gravel at 0.9, moist to dry

1-2 NR

2

2-2.9 SANDY SILT: Brown fine sandy
silt with little medium
subrounded gravel, dry

2.9-4 NR

4

4-4.5: GRAVEL + SAND: Brown sand fine
silty & gravel med & coarse, dry

4.5-6 NR

6

6-7.2 GRAVEL + SAND = Brown fine + coarse
sand and medium & coarse
gravel, dry

7.2-8 NR

8

8-10 No recovery gravel (unclay) stuck in shoe

HTW DRILLING LOG

HOLE NO.
6469-5511

SHEET 3
OF 6 SHEETS

PROJECT *ESI Addendum*

INSPECTOR *L. Angelakis*

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEO TECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
	0	TOP SOIL					
	1	SAND-SILT SM	0 ppm	—		4/5	
	2	NR				6/7	
	3	SANDY SILT WITH LITTLE GRAVEL SM	0			3/4	
	4	NR				5/4	
	5	SAND + GRAVEL (silty) SP	0		14	4/3	
	6	NR				2/3	
	7	SAND + GRAVEL SP	0		1455 6469- 5501 -21 1D, 15 (6-7)	13/14 3/4	Took dus & split also here.
	8	NR	4 ppm total in hole 0 in BT			4/2	

recycled paper

31 Aug 94

HTRW DRILLING LOG				DISTRICT USACE, KC		HOLE NUMBER 6469-SS11	
1. COMPANY NAME ETE				2. DRILL SUBCONTRACTOR MAXIM		SHEET 1 OF 6	
3. PROJECT ESI Addendum				4. LOCATION ROME, NY Griffiss Park			
5. NAME OF DRILLER A1 Kimbri				6. MANUFACTURER'S DESIGNATION OF DRILL AIR CMC 880			
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT HIA 5/4 Auger				8. HOLE LOCATION 6469-SS11			
2" & 3" Split Spoons 2-ft long				9. SURFACE ELEVATION			
10. DATE STARTED 4/13/00				11. DATE COMPLETED 4/16/00			
12. OVERBURDEN THICKNESS 14				15. DEPTH GROUNDWATER ENCOUNTERED 12.3			
13. DEPTH DRILLED INTO ROCK				16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED			
14. TOTAL DEPTH OF HOLE 121				17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)			
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED		19. TOTAL NUMBER OF CORE BOXES	
20. SAMPLES FOR CHEMICAL ANALYSIS		VOC		METALS		OTHER (SPECIFY)	
6469-SS11-21, 22		NO		YES		PCBs, SVOCs	
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL		OTHER (SPECIFY)	
						23. SIGNATURE OF INSPECTOR [Signature]	
LOCATION SKETCH/COMMENTS Fig 3-4 SCALE: not to scale							
PROJECT ESI Addendum						HOLE NO. 6469-SS11	

ENG FORM 5056-R, AUG 94

(Proponent: CECW-EG)

Figure 4-2. HTRW Drilling Log

Borehole Record for G469-SS11

- Drilling Log
- Narrative Lithologic Description
- Well Development Record
- Well Development -- Parameter Measurements
- Investigation - Derived Waste Inventory Sheet

HTW DRILLING LOG

HOLE NO.
6469-SS1
SHEET 3
OF 4 SHEETS

PROJECT

EST Addendum

INSPECTOR

L. Angelakis

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
	0	0-4" Topsoil					
	2	4"-10" NR	Ø				Poor recovery due to pebbles
	4	Brown, sand & gravel, moist SP					
	6	NR			A01469-SS06-21		21 = 4-5'
	8						
	10	NR					
	12	Brown sand & pebbles moist SP	5 ppm in hole		A01469-SS06-22		22 = 12-13'
	13		600 ppm 12.5				Net at 13'
	14	NR	15 ppm 13				
	16						End of hole

Lock Number _____

SCREENED WELL

Inner Casing Material _____

Inner Casing Inside Diameter _____ inches

Stick-up _____ ft

Top of Grout _____ ft

Top of Seal at _____ ft

Top of Sand Pack _____ ft

Top of Screen at _____ ft

Bottom of Screen at _____ ft

Bottom of Hole at _____ ft

Bottom of Sandpack at _____ ft

GROUND SURFACE

Quantity of Material Used:

Bentonite Pellets _____

Cement _____

Borehole Diameter _____ inches

Cement/Bentonite _____

Grout _____

Screen Slot Size _____

Screen Type _____

☐ PVC

☐ Stainless Steel

Pack Type/Size:

☐ Sand

☐ Gravel

☐ Natural

OPEN-HOLE WELL

Stick-up _____ ft

Inner Casing Material _____

Inner Casing Inside Diameter _____ inches

Outer Casing Diameter _____ inches

Borehole Diameter _____ ft

Bedrock _____ ft

Bottom of Rock Socket/Outer Casing _____ ft

Bottom of Inner Casing _____ ft

Corehole Diameter _____

Bottom of Corehole _____ ft

NOTE: See pages 136 and 137 for well construction diagrams

Depth-ft.	NARRATIVE LITHOLOGIC DESCRIPTION	Moisture Content		
		Dry	Moist	Wet
0	0-0.6 ft Top soil, Brown fine sand-silt, roots	○	⊗	○
	0.5'-9" Gravel mixed with the sand & silt	○	○	○
	9"-16" Gray gravel & pebbles	○	○	○
	16'-20" Brown gravel & smaller pebbles, coarse sand, ORT = 0.2 ppm	○	⊗	○
	20"-4' NR	○	○	○
	4'-4'48" Coarse sand (subrounded) & gravel, Brown, 0.2 ppm	○	⊗	○
	4'48"-8' NR	○	○	○
	8'-9' Same as above coarse sand, some fine sand & gravel	○	⊗	○
918	Since we are not getting enough recovery we will mop 6" and replot (according to PM)	○	○	○
	0-18" Recovery	○	○	○
	0-4" Topsoil, Brown fine sand, moist	○	⊗	○
	4"-10" Brown fine-medium sand, silt, gravel subrounded	○	⊗	○
	10"-12" Gray coarse sand & gravel subangular	○	⊗	○

HTRW DRILLING LOG		DISTRICT		HOLE NUMBER	
1 COMPANY NAME <i>E+E</i>		2 DRILL SUBCONTRACTOR <i>Maxim</i>		HOLE NUMBER <i>6469-SS06</i>	
3 PROJECT <i>EST Addendum</i>		4 LOCATION <i>Rome, NY GAB</i>		SHEET <i>1</i> OF <i>4</i>	
5 NAME OF DRILLER <i>Scott Breeds</i>		6 MANUFACTURER'S DESIGNATION OF DRILL <i>Geoprobe</i>			
7 SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT <i>Geoprobe 4' Macroprobe (1')</i>		8 HOLE LOCATION <i>AOI 469 6469-SS06</i>			
		9 SURFACE ELEVATION			
		10. DATE STARTED <i>3/20/00</i>		11. DATE COMPLETED <i>3/20/00</i>	
12. OVERBURDEN THICKNESS <i>>16</i>		13. DEPTH DRILLED INTO ROCK		15. DEPTH GROUNDWATER ENCOUNTERED <i>13</i>	
13. DEPTH DRILLED INTO ROCK		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED			
14. TOTAL DEPTH OF HOLE <i>16</i>		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)			
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED	
19. TOTAL NUMBER OF CORE BOXES					
20. SAMPLES FOR CHEMICAL ANALYSIS		VOC		METALS	
<i>6469-SS06-21, 22, 23</i>				<i>TAL M, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100</i>	
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL	
<i>Backfilled</i>				<i>Monitoring Well</i>	
21. SIGNATURE OF INSPECTOR					
LOCATION SKETCH/COMMENTS <i>See also Fig 3-4 of FSP</i>				SCALE	
<i>Note: Only Boring Sampled with Geoprobe Macro Probe (Pos: Sample Recovery)</i>					
PROJECT <i>EST Addendum</i>		HOLE NO <i>6469-SS06</i>			

ENG FORM 5056-R, AUG 94

(Proponent: CECW-EG)

Figure 4-2. HTRW Drilling Log

Borehole Record for AOI 469-SS06

- Drilling Log
- Narrative Lithologic Description
- Well Development Record
- Well Development -- Parameter Measurements
- Investigation - Derived Waste Inventory Sheet

HTW DRILLING LOG

HOLE NO.
6469-SS03

PROJECT *ESI Addendum*

INSPECTOR *L. Angelakis*

SHEET 5
OF 6 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEO TECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
		<i>NR</i>		<i>—</i>	<i>53</i>		<i>—</i>
	<i>10</i>	<i>GRAVEL + SAND SP</i>	<i>80 gpm</i>			<i>3/3</i>	
			<i>CH4 in</i>				
			<i>hole</i>				
	<i>11</i>	<i>NR</i>	<i>Oppm</i>		<i>1220</i>	<i>5/8</i>	<i>—</i>
			<i>in soil</i>		<i>60469</i>		
			<i>& BZ</i>		<i>SS03</i>		
					<i>-22</i>		
	<i>12</i>	<i>SAND + GRAVEL SP</i>	<i>8 gpm</i>			<i>7/3</i>	<i>Wet at</i>
			<i>total,</i>				<i>12.5</i>
			<i>5 gpm CH4</i>				
			<i>in hole</i>				
	<i>13</i>	<i>NR</i>	<i>Oppm in</i>			<i>7/10</i>	
			<i>soil &</i>				
			<i>BZ</i>				
	<i>14</i>	<i>SILTY SAND + GRAVEL</i>	<i>7 gpm</i>			<i>8/4</i>	<i>Submerged</i>
		<i>SM-SP</i>	<i>in hole</i>				
			<i>1.5 CH4</i>				
			<i>in hole</i>				
	<i>15</i>	<i>NR</i>	<i>0 in</i>			<i>2/1</i>	
			<i>BZ</i>				
	<i>16</i>	<i>4/18/00</i>					
	<i>17</i>	<i>3/17/02</i>					

Depth (feet)	6469-5503 NARRATIVE LITHOLOGIC DESCRIPTION Sheet 9 of 6	Moisture Content		
		Dry	Moist	Wet
0	0.0-5 TOPSOIL: Silty organic, rooty, moist soil	☐	☒	☒
		☐	☒	☐
	0.5-1.2 SAND + GRAVEL: Brown silty fine sand & gravel (med); dry	☒	☐	☐
		☐	☐	☐
	1.2-2 NR	☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
2	2-2.5 SANDY SILT & GRAVEL: Brown fine sand and silt & gravel, dry	☒	☐	☐
		☐	☐	☐
	2.5-4 NR	☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
9	4-5.2 SILTY SAND + GRAVEL: Silty Brown fine sand and gravel (med) dry	☒	☐	☒
		☐	☐	☐
	5.2-6 NR	☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
6	6-7.2 SAND + Gravel as above (unrounded med gravel & med sand)	☒	☒	☐
		☐	☐	☐
	7-7.2 SAND: Coarse brown sand with a little gravel med/dry	☐	☐	☐
		☐	☐	☐
	7.2-8 NR	☐	☐	☐
		☐	☐	☐
9	8-8.1 Same as above	☐	☐	☒
	8.1-10 NR (gravel stuck in shal)	☐	☐	☐
		☐	☐	☐

HTW DRILLING LOG

HOLE NO.
6469-SS03

SHEET 3
OF 3 SHEETS

PROJECT

ESI Addendum

INSPECTOR

L. Angelak

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
	1	Topsoil	0	—	—	5/5	
	1	SAND-GRVEL SP		—	—	7/8	
	2	NR		—	—	7/8	
	2	SANDY SILT + GRAVEL SM-SP	5ppm in hole total 1ppm CH ₄ 0 in B ₂ 2 soil			7/8	
	3	NR		—	—	8/10	
	4	SAND * GRAVEL SP	5ppm in hole - 1.2 CH ₄ in hole 0ppm in B ₂ soil			6/9	
	5	NR			1140 6469 SS03	3/3	
	6	SAND + GRAVEL SP	1.5ppm in soil	30ppm in hole CH ₄ 1.5ppm in soil	22 5.0 7	8/5	
	7	SAND SW NR				3/3	
	8	SAME as ABOVE SW GRAVEL	4ppm total 2.5 CH ₄ in hole 0ppm in B ₂ 2 soil			8/5	

SCREENED WELL

**Inner Casing
Material**

Inner Casing Inside
Diameter _____ inches

GROUND SURFACE

Stick-up _____ ft

Top of Grout

Top of
Seal at _____ ft

Top of Sand Pack _____ ft

Top of
Screen at _____ ft

Bottom of
Screen at _____ ft

Bottom of
Hole at _____ ft

Bottom of Sandpack at _____

Quantity of Material Used:

Bentonite Pellets

Cement _____

Borehole _____ inches
Diameter

Cement/
Bentonite

Grout _____

Screen Slot Size _____

Screen Type _____

☐ PVC _____

☐ Stainless Steel _____

Pack Type/Size:

☐ Sand _____

☐ Gravel _____

☐ Natural _____

NOTE: See pages 136 and 137 for well construction diagrams

OPEN-HOLE WELL

Stick-up _____ ft

Inner Casing Material _____

Inner Casing Inside
Diameter _____ inches

Outer Casing
Diameter _____ inches

Borehole Diameter _____ ft

Bedrock _____ **ft**

Bottom of Rock Socket/
Outer Casing _____ ft

Bottom of Inner
Casing _____ ft

Corehole
Diameter_____

Bottom of
Corehole _____ ft

[illegible]

HTRW DRILLING LOG				DISTRICT <u>USACE, KL</u>		HOLE NUMBER <u>6469-SS03</u>	
1. COMPANY NAME <u>E+E</u>		2. DRILL SUBCONTRACTOR <u>MAXIM</u>				SHEET <u>1</u> OF <u>6</u>	
3. PROJECT <u>ESI Addendum</u>				4. LOCATION <u>Rome, NY, Griffiths Park</u>			
5. NAME OF DRILLER <u>A. Kimbal</u>				6. MANUFACTURER'S DESIGNATION OF DRILL <u>CME 850 AIV</u>			
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT <u>ASA 4 1/4 Auger</u>		8. HOLE LOCATION <u>6469-SS03 (Build 112)</u>					
<u>Split Spoons: 3" & 2-foot long</u>		9. SURFACE ELEVATION					
12. OVERBURDEN THICKNESS <u>> 16</u>		10. DATE STARTED <u>4/18/00</u>		11. DATE COMPLETED <u>4/18/00</u>			
13. DEPTH DRILLED INTO ROCK <u>-</u>		15. DEPTH GROUNDWATER ENCOUNTERED <u>12.5</u>		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED			
14. TOTAL DEPTH OF HOLE <u>16</u>		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)					
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED		19. TOTAL NUMBER OF CORE BOXES	
20. SAMPLES FOR CHEMICAL ANALYSIS		VOC		METALS		OTHER (SPECIFY)	
<u>6469-SS03-21622</u>		<u>-</u>		<u>YES</u>		<u>PCB, SVOC, TPH, TOC, SOL</u>	
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL		OTHER (SPECIFY)	
<u>-</u>		<u>-</u>		<u>-</u>		<u>-</u>	
21. SIGNATURE OF INSPECTOR <u>[Signature]</u>							
LOCATION SKETCH/COMMENTS <u>See also fig 3-4</u> SCALE: <u>Not to scale</u>							
PROJECT <u>ESI Addendum</u>				HOLE NO. <u>6469-SS03</u>			

ENG FORM 5056-R, AUG 94

(Proponent: CECW-EG)

Figure 4-2. HTRW Drilling Log

Borehole Record for G469-SS03

- Drilling Log
- Narrative Lithologic Description
- Well Development Record
- Well Development -- Parameter Measurements
- Investigation - Derived Waste Inventory Sheet

20

Depth (feet)	6469-5501 NARRATIVE LITHOLOGIC DESCRIPTION	Sheet 6 of 6 Moisture Content		
		Dry	Moist	Wet
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
10	10-11.5 SAND + GRAVEL: coarse brown sand + med & coarse gravel; not	☐	☐	☐
	11.5-12 NR	☐	☒	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
12	12-12.1 SAND + GRAVEL ~ above	☐	☒	☐
	12.2-14 NR	☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
14	No recovery - water in space	☐	☐	☒
		☐	☐	☒
		☐	☐	☒
15		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
16	Bottom of hole at 16 BAGS	☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐

HTW DRILLING LOG

HOLE NO.
G469-SS01

PROJECT EST Addendum

INSPECTOR L. Angeles

SHEET 5
OF 6 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
		NR	3 ppm in soil 0.6 CH ₄			7/8	
	10	SAND+GRAVEL SP	2.4 ppm in hole 2 ppm in soil 0.2 ppm CH ₄ in soil 0.14 BZ	1043 G469-SS01 Z 6 MS/MSD		5/5 8/7	
	11	NR					
	12	SAND+GRAVEL SP	5 ppm in hole, 0.2 ppm in soil CH ₄ 0.2 ppm in soil 0.14 BZ		1053 G469-SS0 Z 7	7/7	
	13	NR				7/8	
	14		2 ppm in hole			8/7	1100 water in spool no recovery because too saturated
	15	NR				4/3	
	16						
	17						

4/18/00

[Handwritten signature]

Depth (feet)	6469-SS01	NARRATIVE LITHOLOGIC DESCRIPTION Sheet 4 of 6	Moisture Content		
			Dry	Moist	Wet
0		0-2" Silty Topsoil wet organic	☐	☐	☒
		2"-1' SILTY SAND: Silty sand brown, with some gravel (subrounded), moist	☐	☒	☐
		1-2 NR	☐	☐	☐
			☐	☐	☐
			☐	☐	☐
			☐	☐	☐
			☐	☐	☐
			☐	☐	☐
2		2-2.5 SAND: Brown fine to coarse sand little silt, little gravel, moist/dry	☐	☐	☐
		2.5-3.3 SAND: Brown coarse & fine sand & gravel moist/dry	☐	☐	☐
		3.3-4 NR	☐	☐	☐
			☐	☐	☐
4		4-4.8 SILTY SAND: Light brown silty sand with gravel, moist/dry	☐	☐	☐
		4.8-6 NR Shale	☐	☐	☐
			☐	☐	☐
			☐	☐	☐
			☐	☐	☐
6		6-6.5 SILTY SAND + GRAVEL Brown silty sand slightly moist with gravel (med to coarse)	☐	☐	☐
		6.5-8 NR Rock stuck in shoe	☐	☐	☐
			☐	☐	☐
8		8-9.25 SILTY SAND + GRAVEL	☐	☐	☐
			☐	☐	☐
			☐	☐	☐

HTW DRILLING LOG							HOLE NO. 6469-5
PROJECT ES2 Addendum			INSPECTOR L. Angeles		SHEET 3 OF 6 SHEETS		
ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEO TECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
	0	Topsoil		943		2/3	
	1	Silty sand SM	0	6469 3501-29 2'-2'			
	2	NR				3/3	
	3	SAND SAND SW (3' SS)	0.6 in hole without Charcoal probe 0 CH4 in hole 0 in soil & BZ	1000 6469-5501 Z2 2-4		3/3	Get a sec spoon to have env recovery sample
	4	NR				3/3	(3')
	5	SILTY SAND + GR SM-SP	7 in hole 2 ppm total 0.6 CH4 0 in soil + BZ	1005 6469-5501- Z3 4-6		2/3	Not env recovery only Dnt 8-52 jar
	6	NR				2/3	
	7	SILTY SAND - GRAVEL SM-SP	0	1012 6469-5501 -Z4 6-8		16/13 12/29	
	8	NR					
	9	SILTY SAND SM	22 ppm total & 12 ppm CH4 in hole 0 ppm in BZ	1027 6469-5501- Z5		6/8	

HTRW DRILLING LOG		DISTRICT WMAFAC		HOLE NUMBER 6469-SS01	
1. COMPANY NAME Ecology + Environment		2. DRILL SUBCONTRACTOR MAXIM		SHEET 7 of 6	
3. PROJECT ES7 Addendum		4. LOCATION ROME NY Golf/Is Park			
5. NAME OF DRILLER H. Kimbal		6. MANUFACTURER'S DESIGNATION OF DRILL LME 850 AIR			
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT 4 1/4 Augers HSA Split Spoons 2", 3" 2-ft long		8. HOLE LOCATION 6469-SS01			
		9. SURFACE ELEVATION			
		10. DATE STARTED 4/15/00		11. DATE COMPLETED 4/18/00	
12. OVERBURDEN THICKNESS 16		15. DEPTH GROUNDWATER ENCOUNTERED 14.1			
13. DEPTH DRILLED INTO ROCK		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED			
14. TOTAL DEPTH OF HOLE 16		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)			
18. GEOTECHNICAL SAMPLES		DISTURBED		UNDISTURBED	
19. TOTAL NUMBER OF CORE BOXES					
20. SAMPLES FOR CHEMICAL ANALYSIS		VOC		METALS	
LME ENV 241 Z1-Z2		NO		YES	
22. DISPOSITION OF HOLE		BACKFILLED		MONITORING WELL	
21. TOTAL CORE RECOVERY		OTHER (SPECIFY)		OTHER (SPECIFY)	
		SOLIDS, PCBs		SOLIDS, PCBs	
		OTHER (SPECIFY)		OTHER (SPECIFY)	
				23. SIGNATURE OF INSPECTOR	
LOCATION SKETCH/COMMENTS		SCALE: Not to scale			
PROJECT ES7 Addendum		HOLE NO. 6469-SS01			

ENG FORM 5056-R, AUG 94 (Proponent: CECW-EG)

Figure 4-2. HTRW Drilling Log

B

Survey Data

TEST LOCATIONS AND ELEVATIONS
GRIFFISS AIR FORCE BASE, ROME, NY
PREPARED FOR ECOLOGY AND ENVIRONMENTAL, INC
PREPARED BY; LAFAVE WHITE AND MCGIVERN LS PC
DATED MAY 19, 2000

PT NO	NORTHING	EASTING	ELEV	DESCRIPTION
101	1171273.83	1134355.52		BS-A
102	1170948.96	1134734.88		BS-B
103	1171024.85	1134800.02		BS-C
104	1171350.48	1134420.59		BS-D
1815	1183465.43	1135764.78		EOD-B
1816	1183461.59	1135864.71		EOD-C
1820	1183565.18	1135768.44		EOD-A
1821	1183561.52	1135868.37		EOD-D
2034	1179193.9	1126835.09	470.38	PC120NS04
2035	1179180.77	1126831.71	469.25	PC120NS03
2036	1179172.45	1126844.41	472.36	PC120NS05
2037	1179156.43	1126829.1	468.36	PC120NS02
2038	1179140.43	1126839.09	471.6	PC120NS02
2039	1177297.75	1133290.94	472.71	G469NS01
2040	1177326.18	1133286.79	472.6	G469NS02
2041	1177334.31	1133300.73	472.88	G469NS03
2042	1177323.51	1133312.6	472.67	G469NS04
2043	1177332.03	1133325.13	472.67	G469NS05
2044	1177325.75	1133337.59	472.73	G469NS06
2045	1177332.57	1133349	472.48	G469NS07
2046	1177324.95	1133362.29	472.86	G469NS08
2047	1177335.14	1133374.54	472.44	G469NS09
2048	1177325.82	1133389.2	472.49	G469NS10
2049	1177334.3	1133402.12	472.14	G469NS11
2050	1177326.89	1133412.71	471.88	G469NS12
2051	1177330.11	1133428.27	471.82	G469NS13
2052	1177313.53	1133425.33	471.94	G469NS15
2053	1177313.79	1133396.72	471.5	G469NS14
2054	1177302.37	1133393.83	471.82	G469NS16
2055	1177276.11	1133395.95	472.25	G469NS19
2056	1177301.14	1133413.02	471.64	G469NS17
2057	1177289.41	1133423.36	471.31	G469NS18
2058	1177275.67	1133424.11	471.47	G469NS20
2059	1177248.9	1133412.97	472.12	G469NS22
2060	1177232.49	1133394.87	472.69	G469NS21B
2061	1181725.83	1137224.89	577.62	SWGRIDCORN
2062	1181711.42	1137384.2	567.56	SEGRID CORN
2063	1181703.11	1137368.38	569.56	WIRE FL
2064	1181915.61	1137346.41	561.27	FENCE FORN
2065	1181932.36	1137370.11	556.99	NE GRID CORN
2066	1181888.95	1137344.68	BASE 563.03/ RISER 564.63	MWSS03
2067	1181878.88	1137347.45	563.03	NS05
2068	1181884.64	1137325.06	563.31	NS06
2069	1181855.77	1137320.85	564.92	NS02
2070	1181848.25	1137324.83	564.99	NS01
2071	1181896.46	1137298.57	BASE 564.77 / RIASER 566.47	MWSS02

G469

5435-5

TEST LOCATIONS AND ELEVATIONS
GRIFFISS AIR FORCE BASE, ROME, NY
PREPARED FOR ECOLOGY AND ENVIRONMENTAL, INC
PREPARED BY: LAFAVE WHITE AND MCGIVERN LS PC
DATED MAY 19, 2000

2072	1181911.25	1137296.56	564.37	NS03
2073	1181924.72	1137220.98	568.87	NWGRIDCORN
2074	1181900.47	1137191.87	572.81	WIRE FL
2075	1181798.18	1137282.57	ASE 570.81 / RISER PVC 572.91	MWSS01
2076	1171099.81	1134668.63	465.04	G007SS08
2077	1171106.41	1134742.15	BASE 462.08 / RISER 463.54	G007MW03
2078	1171010.98	1134719.19	464.94	G007SS09
2079	1171131.82	1134562.02	467.19	G007SS07
2080	1171226.45	1134597.04	BASE 465.82 / RISER 467.45	G007MW02
2081	1171233.31	1134517.58	469.34	G007SS06
2082	1171258.88	1134405.74	470.32	G007SS05
2083	1171096.38	1134320.36	BASE 471.41 / RISER 472.83	G007MW01
2084	1183485.43	1136112.9	545.97	EOD2SW03
2085	1183557.32	1135968.38	547.1	EOD2SS05
2087	1183559.36	1135918.64	546.92	EOD2SS04
2088	1183563.28	1135818.11	548.4	EOD2SS02
2089	1183567.2	1135718.59	547.87	EOD2SS01
2090	1183516.79	1135719.48	545.9	EOD2SS10
2091	1183435.93	1135574.52	548.67	EOD2SS21
2093	1183415.51	1135763.51	543.54	EOD2SS23
2094	1183525.87	1135770.55	547.47	EOD2SS07
2095	1183542.72	1135748.38	547.7	EOD2SS06
2097	1183513.52	1135782.22	546.86	EOD2SS11
2098	1183462.78	1135814.97	547.21	EOD2SS18
2099	1183512.44	1135816.72	547.89	EOD2SS12
2100	1183538.59	1135857.6	547.26	EOD2SS08
2101	1183537.67	1135886.61	546.56	EOD2SS09
2102	1183561.61	1135868.49	547.26	EOD2SS03
2103	1183504.26	1135904.5	546.01	EOD2SS14
2104	1183507.39	1135868.56	547.02	EOD2SS13
2105	1183487.79	1135854.8	546.75	EOD2SS15
2106	1183461.7	1135865.23	546.14	EOD2SS19
2107	1183477.73	1135908.98	545.6	EOD2SS16
2108	1183459.95	1135914.8	545.77	EOD2SS20
2109	1183410.76	1135863.48	544.42	EOD2SS24
2110	1183464.61	1135765.06	546.55	EOD2SS17
2111	1183432.63	1135595.45	548.07	EOD2SS22
2112	1183258.78	1135653.73	539.83	EOD2SW01
2113	1183244.3	1135865.72	539.77	EOD2SW2
2114	1183250.59	1136002.25	541.48	EOD2SW4
2115	1180198.23	1135971	BASE 520.37 / RISER 521.88	WSAMW8
2116	1180025.65	1135981.39	520.27	WSAGP01
2117	1179929.78	1135978.78	518.91	WSAGP14
2118	1179835.29	1135976.75	514.59	WSAGP15
2119	1179981.33	1135879.57	516.09	WSAGP03
2120	1180171.7	1136156.86	526.91	WSAGP36
2121	1180364.36	1136013	530.57	WSAGP34
2122	1180089.72	1135873.6	517.78	WSAGP02

OTH 5485-2

TEST LOCATIONS AND ELEVATIONS
 GRIFFISS AIR FORCE BASE, ROME, NY
 PREPARED FOR ECOLOGY AND ENVIRONMENTAL, INC
 PREPARED BY; LAFAVE WHITE AND MCGIVERN LS PC
 DATED MAY 19, 2000

2123	1180034.61	1135778.8	513.95	WSAGP28
2124	1180082.55	1135693.01	514.57	WSAGP29
2125	1179878.66	1135878.18	511.57	WSAGP05
2126	1179943.53	1135785.51	512.48	WSAGP04
2127	1180078.07	1135484.56	508.88	WSAGP13
2128	1180041.57	1135581.91	511.24	WSAGP ?
2129	1179935.3	1135575.79	506.72	WSAGP30
2130	1179883.76	1135569.32	505.76	LAWMW9
2131	1179836.88	1135567.41	506.35	WSA GP ?
2132	1179786.62	1135654.8	509.36	WSAGP09
2133	1179894.16	1135661.78	509.69	WSAGP31
2134	1179834.58	1135778.75	512.85	WSAGP10
2135	1179778.61	1135875.49	514.54	WSAGP24
2136	1179721.47	1135974.38	509.62	WSAGP16
2137	1179680.82	1135874.95	517.97	WSAGP23
2138	1179591.97	1135860.54	516.55	WSAGP ?
2139	1179604.58	1135811.51	517.97	WSAGP32
2140	1179686.29	1135641.15	509.36	WSAGP08
2141	1179733.39	1135563.86	507.73	WSAGP27
2142	1179586.32	1135631.05	507.3	WSAGP26
2143	1179487.2	1135564.4	495.93	WSAGP33
2144	1179587.23	1135449.35	495.04	WSAGP06
2145	1179628.21	1135554.25	504.51	WSAGP07
2146	1179701.88	1135433.99	502.28	WSAGP11
2147	1179887.49	1135470.72	505.87	WSAGP12
2148	1179815.05	1135368.13	501.29	WSAGP20
2149	1180006.18	1135378.56	503.69	WSAGP19
2150	1179533.27	1135085.25	477.79	WSAGP21
2151	1179372.07	1135287.37	477.68	WSAGP22
2152	1179250.33	1135309.9	479.56	WSAGP25
2153	1179245.51	1135314	BASE 479.76 / RISER 481.07	WSAMW10
2154	1179454.19	1135370.27	481.17	WSA GP17DRY
2155	1179466.5	1135390.14	482.52	WSAGP17
2156	1179468.66	1135387.24	BASE 482.60 / RISER 484.19	WSAMW9
2157	1180237.19	1136095.14	530.43	WSAGP35
2158	1181870.57	1137307.46	564.84	OTH5485NS04
2159	1181238.52	1134469.46	520.65	AOC9TP06B
2160	1181259.05	1134488.66	523.17	AOC9TP06A
2161	1181158.86	1134747.87	531.55	AOC9DTP06A
2162	1181159.52	1134800.19	536.85	AOC9DTP06A
2163	1181530.47	1134401.74	530.25	AOC9GP41
2164	1181686.65	1134231.56	526.74	AOC9GP39
2165	1181523.71	1134206.77	514.57	AOC9TP05B
2166	1181532.74	1134226.55	521.82	AOC9TP05A
2167	1181749.67	1133925.22	507.64	AOC9SW18
2168	1181753.9	1133930.38	508.45	AOC9SW19
2169	1181930.53	1134136.12	536.33	AOC9GP36
2170	1181987.14	1134111.52	533.47	AOC9SW20

OTH NS04

TEST LOCATIONS AND ELEVATIONS
 GRIFFISS AIR FORCE BASE, ROME, NY
 PREPARED FOR ECOLOGY AND ENVIRONMENTAL, INC
 PREPARED BY: LAFAVE WHITE AND MCGIVERN LS PC
 DATED MAY 19, 2000

2171	1182157.33	1133972.6	539.79	AOC9GP38
2172	1182117.92	1133780.87	535.48	AOC9GP32
2173	1181949.5	1133727.84	526.11	AOC9GP33
2174	1181949.51	1133754.46	526.98	AOC9DTP01A
2175	1181949.61	1133789.68	527.19	AOC9DTP01B
2176	1181830.99	1133888.39	BASE 514.28 / RISER 515.54	AOC9MW08/GP28
2177	1181624.16	1133958.46	523.79	AOC9DTP02B
2178	1181569.44	1134012.01	523.97	AOC9DTP02A
2179	1181008.85	1134473.41	521.93	AOC9DTP05B
2180	1181116.27	1134415.69	522.71	AOC9DTP05A
2181	1181173.89	1134125.04	514.65	AOC9DTP04A
2182	1181162.1	1134075.87	510.63	AOC9DTP04B
2183	1181398.98	1134080.02	521.4	AOC9TP04B
2184	1181381.14	1134060.53	519.44	AOC9TP04A
2185	1181398.31	1133993.21	516.99	AOC9DTP03A
2186	1181389.48	1133945.41	514.77	AOC9DTP03B
2187	1181753.72	1134030.54	530.19	AOC9SW16
2188	1181651.88	1134079.31	532.85	AOC9GP34
2189	1181862.77	1134045.72	534.33	AOC9GP29
2190	1182000.93	1133903.49	534.43	AOC9GP30
2191	1181678.27	1133867.38	516.91	AOC9SW15
2192	1181723.32	1133813.4	517.85	AOC9GP27
2193	1181739.19	1133722.72	513.42	AOC9TP03A
2194	1181750.36	1133745.79	513.36	AOC9TP03B
2195	1181739.96	1133746.28	513.54	AOC9HYD-1
2196	1181729.92	1133752.28	513.1	AOC9SW14
2197	1181688.64	1133672.54	509.62	AOC9SW17
2198	1181691.55	1133636.75	510.46	AOC9GP12
2199	1181616.4	1133571.58	505.8	AOC9GP16
2200	1181588.61	1133417.27	502.62	AOC9GP23
2201	1181686.49	1133478.36	503.82	AOC9GP24
2202	1181399.71	1133582.06	498.35	AOC9GP06
2203	1181413.79	1133599.95	498.33	AOC9SW13
2204	1181337.38	1133661.04	498.85	AOC9GP19
2205	1181229.26	1133725.86	494.38	AOC9SWSD11
2206	1181040.2	1133886.95	493.51	AOC9SWSD12
2207	1181343.04	1133729.8	499.5	AOC9GP20
2208	1181407.65	1133655.07	500.52	AOC9GP04
2209	1181483.94	1133721.6	507.54	AOC9GP02
2210	1181419.15	1133796.56	505.2	AOC9GP21
2211	1181493.01	1133861.14	514.1	AOC9GP22
2212	1181493.82	1133801.76	511.14	AOC9TP01B
2213	1181517.91	1133767.73	511.08	AOC9TP01A
2214	1181560.95	1133785.78	512.53	AOC9GP01
2215	1181636.02	1133722.76	514.93	AOC9TP02A
2216	1181643.3	1133704.34	511.21	AOC9TP02B
2217	1181615.3	1133700.35	510.22	AOC9GP11
2218	1181035.53	1133815.84	497.97	AOC9GP25/MW6

TEST LOCATIONS AND ELEVATIONS
 GRIFFISS AIR FORCE BASE, ROME, NY
 PREPARED FOR ECOLOGY AND ENVIRONMENTAL, INC
 PREPARED BY; LAFAVE WHITE AND MCGIVERN LS PC
 DATED MAY 19, 2000

2219	1181235.58	1133635.64	498.29	AOC9GP17
2220	1181235.36	1133566.85	498.18	AOC9GP08
2221	1181572.13	1133232.21	503.66	AOC9GP26
2222	1181444.08	1133422.85	501.3	AOC9GP18
2223	1181373.97	1133423.87	499.9	AOC9GP07
2224	1180955.61	1133596.18	496.8	AOC9GP31
2225	1181123.49	1133537.99	493.2	AOC9GP10
2226	1181171.85	1133372.26	498.11	AOC9GP9/MW5
2227	1181334.42	1133310.3	494.59	AOC9GP13
2228	1181637.29	1133354.54	496.47	AOC9SW5SD09
2229	1181535.44	1133501.53	502.73	AOC9GP15
2230	1181520.49	1133458.31	500.88	AOC9HYD-2
2231	1181467.93	1133481.04	495.85	AOC9SWSD10
2232	1181463.77	1133507.16	499.39	AOC9GP14
2233	1181437.34	1133545.46	498.52	AOC9MW07
2234	1181469.95	1133577.36	500.5	AOC9GP05
2236	1181549.72	1133645.72	506.8	AOC9GP03
2237	1182302.61	1134393.32	523.65	AOC9GP35
2238	1182260.05	1134064.62	525.73	AOC9GP42
2239	1181818.44	1134318.05	522.52	AOC9GP37
2240	1181935.38	1134427.64	526.78	AOC9GP43
2241	1182108.11	1134303.9	522.65	AOC9GP40
2260	1175743.32	1130649.17	471.92	G102NS07
2261	1175722.47	1130628.74	471.53	G102NS08
2262	1175774.21	1130622.39	472.02	G102NS09
2263	1175802.46	1130654.78	471.96	G102NS10
2264	1175774.45	1130660.3	471.83	G102NS05
2265	1175743.47	1130681.96	471.47	G102NS06
2269	1183808	1132037.83	498.74	G431-NS01

C

Analytical Results

Table C-1
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
AOI 7: SOUTHEAST SKYLINE HOUSING/FORMER BASE FIRING RANGE,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	G007-SS05-Z1 3/27/00 0.5 - 1	G007-SS05-Z2 3/27/00 2 - 4	G007-SS05-Z3 3/27/00 14 - 15	G007-SS06-Z1 3/27/00 0.5 - 1	G007-SS06-Z2 3/27/00 2 - 4	G007-SS06-Z2/D 3/27/00 2 - 4
Test : Percent Moisture - D2216		Units: %					
Percent Moisture		5.29	4.95	25.4	7.81	8.71	8.00
Test : TAL Metals - SW6010B/7471A/7470A		Units: mg/kg					
Copper		36.1	7.82	8.70	8.07	8.32	11.3
Lead		26.9	1.78	1.92	2.62	3.14	3.82

Table C-1
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
AOI 7: SOUTHEAST SKYLINE HOUSING/FORMER BASE FIRING RANGE,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	G007-SS06-Z3 3/27/00 13 - 14	G007-SS07-Z1 3/27/00 0.5 - 1	G007-SS07-Z2 3/27/00 2 - 4	G007-SS07-Z3 3/27/00 8.4 - 9.4	G007-SS08-Z1 3/31/00 0.5 - 0.8	G007-SS08-Z2 3/31/00 2 - 4
Test : Percent Moisture - D2216		Units: %					
Percent Moisture		16.3	6.07	12.5	10.4	12.1	10.2
Test : TAL Metals - SW6010B/7471A/7470A		Units: mg/kg					
Copper		12.8	10.6	8.31	8.56	14.0	9.59
Lead		46.7	4.29	1.68	2.03	12.3	3.64

C-4

Table C-1
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
AOI 7: SOUTHEAST SKYLINE HOUSING/FORMER BASE FIRING RANGE,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

Sample ID:	G007-SS08-Z3	G007-SS09-Z1	G007-SS09-Z1/D	G007-SS09-Z2	G007-SS09-Z3	
Sample Date:	3/31/00	3/31/00	3/31/00	3/31/00	3/31/00	
Depth (ft):	10 - 10.5	0.5 - 1	0.5 - 1	2 - 4	10 - 11.5	
PARAMETER						
Test : Percent Moisture - D2216						
	Units: %					
Percent Moisture	12.6	8.59	9.23	14.7	18.0	
Test : TAL Metals - SW6010B/7471A/7470A						
	Units: mg/kg					
Copper	8.21	8.77	8.06	7.37	7.94	
Lead	2.05	2.83	3.43	1.31	2.18	

C-5

Table C-1
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
AOI 7: SOUTHEAST SKYLINE HOUSING/FORMER BASE FIRING RANGE,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

Key:

Qualifiers:

Surrogate Limits: Analysis

Media

Surrogates

Recovery Range

Units:

mg/L = milligrams per liter
mg/kg = milligrams per kilogram
µg/L = micrograms per liter
µg/kg = micrograms per kilogram

Test and Sample Information:

PCBs = polychlorinated biphenyls
TAL = Target Analyte List
TRPH = total recoverable petroleum hydrocarbons
/D = duplicate sample
NA = not analyzed

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Table C-2
COMPLETE ANALYTICAL DATA SUMMARY FOR THE GROUNDWATER SAMPLES FROM
AOI 7: SOUTHEAST SKYLINE HOUSING/FORMER BASE FIRING RANGE,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	G007-MW01-GW 5/5/00 10.5 - 20.5	G007-MW01-GW-F 5/5/00 10.5 - 20.5	G007-MW02-GW 5/4/00 9 - 19	G007-MW02-GW-F 5/4/00 9 - 19	G007-MW03-GW 5/4/00 6 - 16	G007-MW03-GW-F 5/4/00 6 - 16
Test : TAL Metals - SW6010B/7471A/7470A		Units: µg/L					
Copper		44.3	20 U	20 U	55.0	20 U	20 U
Lead		5 U	5 U	5 U	5 U	5 U	5 U

C-7

Table C-2
COMPLETE ANALYTICAL DATA SUMMARY FOR THE GROUNDWATER SAMPLES FROM
AOI 7: SOUTHEAST SKYLINE HOUSING/FORMER BASE FIRING RANGE,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

	Sample ID:	G007-MW03-GW-F/D	G007-MW03-GW/D				
	Sample Date:	5/4/00	5/4/00				
PARAMETER	Depth (ft):	6 - 16	6 - 16				
Test : TAL Metals - SW6010B/7471A/7470A Units: µg/L							
Copper		20 U	20 U				
Lead		5 U	5 U				

C-8

Table C-2
COMPLETE ANALYTICAL DATA SUMMARY FOR THE GROUNDWATER SAMPLES FROM
AOI 7: SOUTHEAST SKYLINE HOUSING/FORMER BASE FIRING RANGE,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

Key:

Qualifiers:

U not detected

Surrogate Limits: Analysis

Media

Surrogates

Recovery Range

Units:

mg/L = milligrams per liter
mg/kg = milligrams per kilogram
µg/L = micrograms per liter
µg/kg = micrograms per kilogram

Test and Sample Information:

PCBs = polychlorinated biphenyls
TAL = Target Analyte List
TRPH = total recoverable petroleum hydrocarbons
/D = duplicate sample
NA = not analyzed

C-9

Table C-3
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
AOI 102: LINDANE SPILL SITE,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	G102-NS05 3/13/00 0 - 0.17	G102-NS06 3/13/00 0 - 0.17	G102-NS07 3/13/00 0 - 0.17	G102-NS08 3/13/00 0 - 0.17	G102-NS09 3/13/00 0 - 0.17	G102-NS10 3/13/00 0 - 0.17
Test : Percent Moisture - D2216		Units: %					
Percent Moisture		21.0	19.2	19.9	22.2	22.2	26.2
Test : Pesticides - SW 8081A		Units: µg/kg					
Dieldrin		10.1	13.9	21.1	2.42	24.5	6.72
Test : Pesticides - SW 8081A - Surrogates		Units: %					
Decachlorobiphenyl-s		85.8	77.3	94.6	82.2	80.1	87.5
Tetrachloro-m-xylene-s		219	80.1	88.7	84.9	87.6	80.4

C-10

Table C-3
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
AOI 102: LINDANE SPILL SITE,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID:	G102-NS10/D				
	Sample Date:	3/13/00				
	Depth (ft):	0 - 0.17				
Test : Percent Moisture - D2216						
			Units:	%		
Percent Moisture	27.7					
Test : Pesticides - SW 8081A						
			Units:	µg/kg		
Dieldrin	5.39					
Test : Pesticides -SW 8081A - Surrogates						
			Units:	%		
Decachlorobiphenyl-s	83.1					
Tetrachloro-m-xylene-s	87.6					

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Table C-3
**COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
 AOI 102: LINDANE SPILL SITE,
 YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK**

Key:

Qualifiers:

<u>Surrogate Limits:</u>	<u>Analysis</u>	<u>Media</u>	<u>Surrogates</u>	<u>Recovery Range</u>
	Pesticides by Method 8081A	Soil	Decachlorobiphenyl-s Tetrachloro-m-xylene-s	39 - 135% 47 - 140%

Units:

mg/L = milligrams per liter
 mg/kg = milligrams per kilogram
 µg/L = micrograms per liter
 µg/kg = micrograms per kilogram

Test and Sample Information:

PCBs = polychlorinated biphenyls
 TAL = Target Analyte List
 TRPH = total recoverable petroleum hydrocarbons
 /D = duplicate sample
 NA = not analyzed

C-12

Table C-5
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
AOI 431: BIVOUAC DUMP AREA,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	G431-NS01 5/16/00 1.5 - 1.67	G431-NS01/D 5/16/00 1.5 - 1.67			
Test : PCBs - SW 8082 Units: mg/kg						
Aroclor 1016		0.0242 U	0.022 U			
Aroclor 1221		0.0485 U	0.044 U			
Aroclor 1232		0.0242 U	0.022 U			
Aroclor 1242		0.0242 U	0.022 U			
Aroclor 1248		0.0242 U	0.022 U			
Aroclor 1254		0.0242 U	0.022 U			
Aroclor 1260		0.0242 U	0.022 U			
Test : PCBs - SW 8082 - Surrogates Units: %						
Decachlorobiphenyl-s		93 %	42 %			
Tetrachloro-m-xylene-s		91 %	40 %			
Test : Percent Moisture - D2216 Units: %						
Percent Moisture		23.5	14.1			
Test : Pesticides - SW 8081A Units: µg/kg						
4,4'-DDD		2.42 U	2.2 U			
4,4'-DDE		2.42 U	2.2 U			
4,4'-DDT		2.42 U	2.2 U			
Aldrin		1.21 U	1.1 U			
alpha-BHC		1.21 U	1.1 U			

Table C-5
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
AOI 431: BIVOUAC DUMP AREA,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	G431-NS01 5/16/00 1.5 - 1.67	G431-NS01/D 5/16/00 1.5 - 1.67				
alpha-Chlordane		1.21 U	1.1 U				
beta-BHC		1.21 U	1.1 U				
delta-BHC		1.21 U	1.1 U				
Dieldrin		35.1	38.1				
Endosulfan I		2.42 U	2.2 U				
Endosulfan II		2.42 U	2.2 U				
Endosulfan sulfate		2.42 U	2.2 U				
Endrin		2.42 U	2.2 U				
Endrin aldehyde		2.42 U	2.2 U				
Endrin ketone		2.42 U	2.2 U				
gamma-BHC		1.21 U	1.1 U				
gamma-Chlordane		1.21 U	1.1 U				
Heptachlor		2.42 U	2.2 U				
Heptachlor epoxide		2.42 U	2.2 U				
Methoxychlor		12.1 U	11 U				
Toxaphene		60.6 U	55 U				
Test : Pesticides - SW 8081A - Surrogates Units: %							
Decachlorobiphenyl-s		134	173				
Tetrachloro-m-xylene-s		129	311				

Table C-5
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
AOI 431: BIVOUAC DUMP AREA,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

Sample ID:	G431-NS01	G431-NS01/D				
Sample Date:	5/16/00	5/16/00				
Depth (ft):	1.5 - 1.67	1.5 - 1.67				
PARAMETER						
Test : Semivolatiles - SW 8270C			Units: µg/kg			
1,2,4-Trichlorobenzene	315 U	323 U				
1,2-Dichlorobenzene	315 U	323 U				
1,3-Dichlorobenzene	315 U	323 U				
1,4-Dichlorobenzene	315 U	323 U				
2,4,5-Trichlorophenol	793 U	812 U				
2,4,6-Trichlorophenol	315 U	323 U				
2,4-Dichlorophenol	315 U	323 U				
2,4-Dimethylphenol	315 U	323 U				
2,4-Dinitrophenol	315 U	323 U				
2,4-Dinitrotoluene	315 U	323 U				
2,6-Dinitrotoluene	315 U	323 U				
2-Chloronaphthalene	315 U	323 U				
2-Chlorophenol	315 U	323 U				
2-Methylnaphthalene	315 U	323 U				
2-Methylphenol	315 U	323 U				
2-Nitroaniline	793 U	812 U				
2-Nitrophenol	315 U	323 U				
3,3'-Dichlorobenzidine	631 U	645 U				

Table C-5
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
AOI 431: BIVOUAC DUMP AREA,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	G431-NS01 5/16/00 1.5 - 1.67	G431-NS01/D 5/16/00 1.5 - 1.67				
3-Nitroaniline	793 U	812 U					
4,6-Dinitro-2-methylphenol	793 U	812 U					
4-Bromophenyl phenyl ether	315 U	323 U					
4-Chloro-3-methylphenol	315 U	323 U					
4-Chloroaniline	315 U	323 U					
4-Chlorophenyl phenyl ether	315 U	323 U					
4-Methylphenol	315 U	323 U					
4-Nitroaniline	793 U	812 U					
4-Nitrophenol	793 U	812 U					
Acenaphthene	315 U	323 U					
Acenaphthylene	315 U	323 U					
Anthracene	315 U	323 U					
Benz(a)anthracene	315 U	323 U					
Benzo(a)pyrene	315 U	323 U					
Benzo(b)fluoranthene	315 U	323 U					
Benzo(g,h,i)perylene	315 U	323 U					
Benzo(k)fluoranthene	315 U	323 U					
Benzoic acid	793 U	812 U					
Benzyl alcohol	315 U	323 U					

Table C-5
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
AOI 431: BIVOUAC DUMP AREA,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	G431-NS01 5/16/00 1.5 - 1.67	G431-NS01/D 5/16/00 1.5 - 1.67				
Bis(2-chloroethoxy)methane		315 U	323 U				
Bis(2-chloroethyl)ether		315 U	323 U				
Bis(2-chloroisopropyl)ether		315 U	323 U				
Bis(2-ethylhexyl)phthalate		315 U	323 U				
Butyl benzyl phthalate		315 U	323 U				
Carbazole		315 U	323 U				
Chrysene		315 U	36.0 J				
Di-n-butyl phthalate		315 U	323 U				
Di-n-octyl phthalate		315 U	323 U				
Dibenz(a,h)anthracene		315 U	323 U				
Dibenzofuran		315 U	323 U				
Diethyl phthalate		315 U	323 U				
Dimethyl phthalate		315 U	323 U				
Fluoranthene		33.0 J	34.1 J				
Fluorene		315 U	323 U				
Hexachlorobenzene		315 U	323 U				
Hexachlorobutadiene		315 U	323 U				
Hexachlorocyclopentadiene		793 U	812 U				
Hexachloroethane		315 U	323 U				

Table C-5
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
AOI 431: BIVOUAC DUMP AREA,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	G431-NS01 5/16/00 1.5 - 1.67	G431-NS01/D 5/16/00 1.5 - 1.67				
Indeno(1,2,3-cd)pyrene		315 U	323 U				
Isophorone		315 U	323 U				
N-Nitrosodi-n-propylamine		315 U	323 U				
N-Nitrosodimethylamine		315 U	323 U				
N-Nitrosodiphenylamine		315 U	323 U				
Naphthalene		315 U	323 U				
Nitrobenzene		315 U	323 U				
Pentachlorophenol		793 U	812 U				
Phenanthrene		315 U	323 U				
Phenol		315 U	323 U				
Pyrene		37.3 J	64.1 J				
Test : Semivolatiles - SW 8270C - Surrogates Units: %							
2,4,6-Tribromophenol-s		80	85				
2-Fluorobiphenyl-s		79	81				
2-Fluorophenol-s		81	82				
Nitrobenzene-d5-s		70	75				
Phenol-d5-s		80	85				
Terphenyl-d14-s		62	70				

Table C-5
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
AOI 431: BIVOUAC DUMP AREA,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID:	G431-NS01	G431-NS01/D			
	Sample Date:	5/16/00	5/16/00			
	Depth (ft):	1.5 - 1.67	1.5 - 1.67			
Test : TAL Metals - SW6010B/7471A/7470A Units: mg/kg						
Aluminum	10700	9590				
Antimony	1.14	0.770 J				
Arsenic	8.15 J	3.47 J				
Barium	44.7	41.4				
Beryllium	0.597	0.507				
Cadmium	2.51	1.89				
Calcium	1210	1150				
Chromium	12.7	11.3				
Cobalt	10.7	6.45				
Copper	40.2	25.1				
Iron	27300	19800				
Lead	14.9	11.3				
Magnesium	3490	3270				
Manganese	986	908				
Mercury	0.0704 J	0.0695 J				
Nickel	18.3	14.1				
Potassium	635	592				
Selenium	6.69	4.60				

Table C-5
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
AOI 431: BIVOUAC DUMP AREA,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	G431-NS01 5/16/00 1.5 - 1.67	G431-NS01/D 5/16/00 1.5 - 1.67				
Silver		0.703 U	0.137 J				
Sodium		101 U	100 U				
Thallium		1.01 U	1 U				
Vanadium		20.7	17.6				
Zinc		58.7	51.6				
Test : Volatiles - SW 8260B Units: µg/kg							
1,1,1-Trichloroethane		6.25 U	5.64 U				
1,1,2,2-Tetrachloroethane		6.25 U	5.64 U				
1,1,2-Trichloroethane		6.25 U	5.64 U				
1,1-Dichloroethane		6.25 U	5.64 U				
1,1-Dichloroethene		6.25 U	5.64 U				
1,2-Dichlorobenzene		6.25 U	5.64 U				
1,2-Dichloroethane		6.25 U	5.64 U				
1,2-Dichloroethene, Total		6.25 U	5.64 U				
1,2-Dichloropropane		6.25 U	5.64 U				
1,3-Dichlorobenzene		6.25 U	5.64 U				
1,4-Dichlorobenzene		6.25 U	5.64 U				
2-Butanone		12.5 U	11.3 U				
2-Chloroethyl vinyl ether		12.5 U	11.3 U				

Table C-5
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
AOI 431: BIVOUAC DUMP AREA,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	G431-NS01 5/16/00 1.5 - 1.67	G431-NS01/D 5/16/00 1.5 - 1.67				
2-Hexanone		12.5 U	11.3 U				
4-Methyl-2-pentanone		12.5 U	11.3 U				
Acetone		12.5 U	11.3 U				
Benzene		6.25 U	5.64 U				
Bromodichloromethane		6.25 U	5.64 U				
Bromoform		6.25 U	5.64 U				
Bromomethane		12.5 U	11.3 U				
Carbon disulfide		6.25 U	5.64 U				
Carbon tetrachloride		6.25 U	5.64 U				
Chlorobenzene		6.25 U	5.64 U				
Chloroethane		12.5 U	11.3 U				
Chloroform		6.25 U	5.64 U				
Chloromethane		12.5 U	11.3 U				
cis-1,2-Dichloroethene		6.25 U	5.64 U				
cis-1,3-Dichloropropene		6.25 U	5.64 U				
Dibromochloromethane		6.25 U	5.64 U				
Ethylbenzene		6.25 U	5.64 U				
m,p-Xylene		6.25 U	5.64 U				
Methylene chloride		6.25 U	5.64 U				

Table C-5
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
AOI 431: BIVOUAC DUMP AREA,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	G431-NS01 5/16/00 1.5 - 1.67	G431-NS01/D 5/16/00 1.5 - 1.67				
o-Xylene	6.25 U	5.64 U					
Styrene	6.25 U	5.64 U					
Tetrachloroethene	6.25 U	5.64 U					
Toluene	6.25 U	5.64 U					
trans-1,2-Dichloroethene	6.25 U	5.64 U					
trans-1,3-Dichloropropene	6.25 U	5.64 U					
Trichloroethene	6.25 U	5.64 U					
Trichlorofluoromethane	6.25 U	5.64 U					
Vinyl acetate	12.5 U	11.3 U					
Vinyl chloride	12.5 U	11.3 U					
Xylenes, Total	6.25 U	5.64 U					
Test : Volatiles - SW 8260B - Surrogates Units: %							
1,2-Dichloroethane-d4-s	104	102					
4-Bromofluorobenzene-s	108	110					
Dibromofluoromethane-s	101	101					
Toluene-d8-s	105	105					

Table C-5
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
AOI 431: BIVOUAC DUMP AREA,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

Key:

Qualifiers:

J estimated
U not detected

Surrogate Limits:	Analysis	Media	Surrogates	Recovery Range
	PCBs by Method 8082	Soil	Decachlorobiphenyl-s	52 - 115%
			Tetrachloro-m-xylene-s	39 - 125%
	Pesticides by Method 8081A		Decachlorobiphenyl-s	39 - 135%
			Tetrachloro-m-xylene-s	47 - 140%
	Semivolatile Organics by Method 8270C		2,4,6-Tribromophenol-s	32 - 130%
			2-Fluorobiphenyl-s	27 - 123%
			2-Fluorophenol-s	36 - 135%
			Nitrobenzene-d5-s	25 - 122%
			Phenol-d5-s	36 - 128%
			Terphenyl-d14-s	51 - 116%
	Volatile Organic Compounds by Method 8260B		1,2-Dichloroethane-d4-s	77 - 119%
			4-Bromofluorobenzene-s	88 - 124%
			Dibromofluoromethane-s	83 - 117%
			Toluene-d8-s	84 - 119%

Units:

mg/L = milligrams per liter
mg/kg = milligrams per kilogram
µg/L = micrograms per liter
µg/kg = micrograms per kilogram

Test and Sample Information:

PCBs = polychlorinated biphenyls
TAL = Target Analyte List
TRPH = total recoverable petroleum hydrocarbons
/D = duplicate sample
NA = not analyzed

Table C-4
COMPLETE ANALYTICAL DATA SUMMARY FOR THE DRUM SAMPLE FROM
AOI 431: BIVOUAC DUMP AREA,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

	Sample ID:	G431-DR01				
	Sample Date:	4/5/00				
PARAMETER	Depth (ft):	-				
Test: Ignitability - 1030			Units: mm/sec			
Ignitability	Did Not Ignite					
Test: PCBs - SW 8082			Units: µg/g			
Aroclor 1016	5.34 U					
Aroclor 1221	10.7 U					
Aroclor 1232	5.34 U					
Aroclor 1242	5.34 U					
Aroclor 1248	5.34 U					
Aroclor 1254	5.34 U					
Aroclor 1260	5.34 U					
Test: PCBs - SW 8082 - Surrogates			Units: %			
Decachlorobiphenyl-s	98					
Tetrachloro-m-xylene-s	73					
Test: Percent Moisture - D2216			Units: %			
Percent Moisture	14.8					
Test: pH by Method EPA 9045C			Units: S.U.			
pH	12					
Test: Reactive Cyanide - 9012A-7.3.3			Units: mg/kg			
Reactive Cyanide	3.69 J					
Test: Sulfide - 9034-7.3.4			Units: mg/kg			
Reactive Sulfide	200 UJ					
Test: TCLP Herbicides - SW 8151A			Units: mg/L			
2,4,5-TP (Silvex)	0.025 U					
2,4-D	0.25 U					
Test: TCLP Herbicides - SW 8151A - Surrogates			Units: %			
DCAA-s	98					
Test: TCLP Metals - SW 6010B/7470A			Units: mg/L			
Arsenic	0.3 U					
Barium	0.06 UJ					
Cadmium	0.015 U					

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Table C-4

**COMPLETE ANALYTICAL DATA SUMMARY FOR THE DRUM SAMPLE FROM
AOI 431: BIVOUAC DUMP AREA,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK**

PARAMETER	Sample ID: Sample Date: Depth (ft):	G431-DR01 4/5/00 -				
Chromium	0.03 UJ					
Lead	0.15 UJ					
Mercury	0.02 U					
Selenium	0.3 UJ					
Silver	0.03 UJ					
Test: TCLP Pesticides - SW 8081A		Units: mg/L				
Chlordane	0.02 U					
Endrin	0.005 U					
gamma-BHC	0.0025 U					
Heptachlor	0.0025 U					
Heptachlor epoxide	0.005 U					
Methoxychlor	0.02 U					
Toxaphene	0.1 U					
Test: TCLP Pesticides - SW 8081A - Surrogates		Units: %				
Decachlorobiphenyl-s	87					
Tetrachloro-m-xylene-s	67					
Test: TCLP Semivolatiles - SW 8270C		Units: mg/L				
1,4-Dichlorobenzene	0.01 U					
2,4,5-Trichlorophenol	0.05 U					
2,4,6-Trichlorophenol	0.01 U					
2,4-Dinitrotoluene	0.01 U					
2-Methylphenol	0.01 U					
4-Methylphenol/3-Methylphenol	0.02 U					
Hexachlorobenzene	0.01 U					
Hexachlorobutadiene	0.01 U					
Hexachloroethane	0.01 U					
Nitrobenzene	0.01 U					
Pentachlorophenol	0.05 U					

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Table C-4
COMPLETE ANALYTICAL DATA SUMMARY FOR THE DRUM SAMPLE FROM
AOI 431: BIVOUAC DUMP AREA,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

	Sample ID:	G431-DR01				
	Sample Date:	4/5/00				
PARAMETER	Depth (ft):	-				
Pyridine		0.05 U				
Test: TCLP Semivolatiles - SW 8270C - Surrogates			Units: %			
2,4,6-Tribromophenol-s		78				
2-Fluorobiphenyl-s		72				
2-Fluorophenol-s		49				
Nitrobenzene-d5-s		79				
Phenol-d5-s		35				
Terphenyl-d14-s		66				
Test: TCLP Volatiles - SW8260B			Units: mg/L			
1,1-Dichloroethene		0.0025 U				
1,2-Dichloroethane		0.0025 U				
2-Butanone		0.005 U				
Benzene		0.240 J				
Carbon tetrachloride		0.0025 U				
Chlorobenzene		0.0025 U				
Chloroform		0.0025 U				
Tetrachloroethene		0.0025 U				
Trichloroethene		0.0025 U				
Vinyl chloride		0.005 U				
Test: TCLP Volatiles - SW8260B - Surrogates			Units: %			
1,2-Dichloroethane-d4-s		93				
4-Bromofluorobenzene-s		90				
Toluene-d8-s		94				

Table C-4
COMPLETE ANALYTICAL DATA SUMMARY FOR THE DRUM SAMPLE FROM
AOI 431: BIVOUAC DUMP AREA,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

Key:

Qualifiers:

J	estimated
U	not detected
UJ	not detected; estimated detection limit reported

Surrogate Limits:	<u>Analysis</u>	<u>Media</u>	<u>Surrogates</u>	<u>Recovery Range</u>
	PCBs - SW 8082	Solids	Decachlorobiphenyl-s	50 - 150 %
			Tetrachloro-m-xylene-s	50 - 150 %
	TCLP Herbicides - SW 8151A		DCAA-s	80 - 121 %
	TCLP Pesticides - SW 8081A		Decachlorobiphenyl	20 - 150 %
			Tetrachloro-m-xylene	44 - 135 %
	TCLP Semivolatiles - SW 8270C		2,4,6-Tribromophenol-s	40 - 153 %
			2-Fluorobiphenyl-s	39 - 116 %
			2-Fluorophenol-s	10 - 125 %
			Nitrobenzene-d5-s	33 - 117 %
			Phenol-d5-s	10 - 125 %
			Terphenyl-d14-s	27 - 135 %
	TCLP Volatiles - SW8260B		1,2-Dichloroethane-d4-s	72 - 174 %
			4-Bromofluorobenzene-s	88 - 120 %
			Toluene-d8-s	79 - 119 %

Units:

mg/L = milligrams per liter
 mg/kg = milligrams per kilogram
 mm/sec = millimeters per second
 µg/g = micrograms per gram
 S.U. = standard units

Test and Sample Information:

PCBs = polychlorinated biphenyls
 TCLP = toxicity characteristic leaching procedure

Table C-6
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
AOI 469: NORTH HALF OF BUILDING 112,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	G469-NS01 3/9/00 0 - 0.17	G469-NS01/D 3/9/00 0 - 0.17	G469-NS02 3/9/00 0 - 0.17	G469-NS03 3/9/00 0 - 0.17	G469-NS04 3/9/00 0 - 0.17	G469-NS05 3/9/00 0 - 0.17
Test : PCBs - SW 8082		Units: mg/kg					
Aroclor 1016		0.126 U	0.127 U	0.0249 U	0.0263 U	0.0241 U	0.274 U
Aroclor 1221		0.253 U	0.254 U	0.0497 U	0.0527 U	0.481 U	0.0549 U
Aroclor 1232		0.126 U	0.127 U	0.0249 U	0.0263 U	0.0241 U	0.0274 U
Aroclor 1242		0.495	0.479	0.0249 U	0.0263 U	0.0241 U	0.0274 U
Aroclor 1248		0.126 U	0.127 U	0.0249 U	0.0263 U	0.0241 U	0.0274 U
Aroclor 1254		1.020	1.040	0.0249 U	0.0263 U	0.0241 U	0.0274 U
Aroclor 1260		0.0506	0.535	0.0206 J	0.885	0.143	0.0330
Test : PCBs - SW 8082 - Surrogates		Units: %					
Decachlorobiphenyl-s		91 %	88 %	92 %	94 %	135 %	81 %
Tetrachloro-m-xylene-s		74 %	68 %	85 %	94 %	81 %	80 %
Test : Percent Moisture - D2216		Units: %					
Percent Moisture		22.3	22.2	20.2	24.9	17.5	28.2
Test : Semivolatiles - SW 8270C		Units: µg/kg					
1,2,4-Trichlorobenzene		418 U	422 U	404 U	437 U	396 U	459 U
1,2-Dichlorobenzene		418 U	422 U	404 U	437 U	396 U	459 U
1,3-Dichlorobenzene		418 U	422 U	404 U	437 U	396 U	459 U
1,4-Dichlorobenzene		418 U	422 U	404 U	437 U	396 U	459 U
2,4,5-Trichlorophenol		1050 U	1060 U	1020 U	1100 U	996 U	1160 U

Table C-6
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
AOI 469: NORTH HALF OF BUILDING 112,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	G469-NS01 3/9/00 0 - 0.17	G469-NS01/D 3/9/00 0 - 0.17	G469-NS02 3/9/00 0 - 0.17	G469-NS03 3/9/00 0 - 0.17	G469-NS04 3/9/00 0 - 0.17	G469-NS05 3/9/00 0 - 0.17
2,4,6-Trichlorophenol		418 U	422 U	404 U	437 U	396 U	459 U
2,4-Dichlorophenol		418 U	422 U	404 U	437 U	396 U	459 U
2,4-Dimethylphenol		418 U	422 U	404 U	437 U	396 U	459 U
2,4-Dinitrophenol		418 U	422 U	404 U	437 U	396 U	459 U
2,4-Dinitrotoluene		418 U	422 U	404 U	437 U	396 U	459 U
2,6-Dinitrotoluene		418 U	422 U	404 U	437 U	396 U	459 U
2-Chloronaphthalene		418 U	422 U	404 U	437 U	396 U	459 U
2-Chlorophenol		418 U	422 U	404 U	437 U	396 U	459 U
2-Methylnaphthalene		418 U	422 U	404 U	437 U	396 U	459 U
2-Methylphenol		418 U	422 U	404 U	437 U	396 U	459 U
2-Nitroaniline		1050 U	1060 U	1020 U	1100 U	996 U	1160 U
2-Nitrophenol		418 U	422 U	404 U	437 U	396 U	459 U
3,3'-Dichlorobenzidine		836 UJ	845 UJ	807 U	874 U	792 UJ	919 U
3-Nitroaniline		1050 U	1060 U	1020 U	1100 U	996 U	1160 U
4,6-Dinitro-2-methylphenol		1050 U	1060 U	1020 U	1100 U	996 U	1160 U
4-Bromophenyl phenyl ether		418 U	422 U	404 U	437 U	396 U	459 U
4-Chloro-3-methylphenol		418 U	422 U	404 U	437 U	396 U	459 U
4-Chloroaniline		418 U	422 U	404 U	437 U	396 U	459 U
4-Chlorophenyl phenyl ether		418 U	422 U	404 U	437 U	396 U	459 U

Table C-6
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
AOI 469: NORTH HALF OF BUILDING 112,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	G469-NS01 3/9/00 0 - 0.17	G469-NS01/D 3/9/00 0 - 0.17	G469-NS02 3/9/00 0 - 0.17	G469-NS03 3/9/00 0 - 0.17	G469-NS04 3/9/00 0 - 0.17	G469-NS05 3/9/00 0 - 0.17
4-Methylphenol		418 U	422 U	404 U	437 U	396 U	459 U
4-Nitroaniline		1050 U	1060 U	1020 U	1100 U	996 U	1160 U
4-Nitrophenol		1050 U	1060 U	1020 U	1100 U	996 U	1160 U
Acenaphthene		77.7 J	90.0 J	171 J	437 U	396 U	459 U
Acenaphthylene		278 J	274 J	144 J	56.1 J	62.4 J	459 U
Anthracene		226 J	311 J	430	98.7 J	58.8 J	459 U
Benz(a)anthracene		936 J	1110 J	1230	294 J	243 J	155 J
Benzo(a)pyrene		1110 J	1240 J	1040 J	322 J	270 J	181 J
Benzo(b)fluoranthene		1000 J	1330 J	1340 J	337 J	327 J	238 J
Benzo(g,h,i)perylene		400 J	495 J	428 J	124 J	173 J	459 UJ
Benzo(k)fluoranthene		1230 J	1280 J	1150 J	354 J	342 J	272 J
Benzoic acid		1050 U	1060 U	1020 U	1100 U	996 U	1160 U
Benzyl alcohol		418 U	422 U	404 U	437 U	396 U	459 U
Bis(2-chloroethoxy)methane		418 U	422 U	404 U	437 U	396 U	459 U
Bis(2-chloroethyl)ether		418 U	422 U	404 U	437 U	396 U	459 U
Bis(2-chloroisopropyl)ether		418 U	422 U	404 U	437 U	396 U	459 U
Bis(2-ethylhexyl)phthalate		9040	8590	266 J	437 U	426 J	459 U
Butyl benzyl phthalate		6160	5780	404 U	437 U	152 J	459 U
Carbazole		418 U	72.2 J	223 J	437 U	396 U	459 U

Table C-6
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
AOI 469: NORTH HALF OF BUILDING 112,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	G469-NS01 3/9/00 0 - 0.17	G469-NS01/D 3/9/00 0 - 0.17	G469-NS02 3/9/00 0 - 0.17	G469-NS03 3/9/00 0 - 0.17	G469-NS04 3/9/00 0 - 0.17	G469-NS05 3/9/00 0 - 0.17
Chrysene		1090 J	1290 J	1340	356 J	294 J	212 J
Di-n-butyl phthalate		354 J	329 J	404 U	437 U	396 U	459 U
Di-n-octyl phthalate		340 J	270 J	404 U	437 U	396 UJ	459 U
Dibenz(a,h)anthracene		418 UJ	422 U	404 UJ	437 UJ	396 UJ	459 UJ
Dibenzofuran		418 U	422 U	100 J	437 U	396 U	459 U
Diethyl phthalate		418 U	422 U	404 U	437 U	396 U	459 U
Dimethyl phthalate		418 U	422 U	404 U	437 U	396 U	459 U
Fluoranthene		1010	1120	1800	529	343 J	336 J
Fluorene		77.5 J	75.8 J	255 J	67.4 J	396 U	459 U
Hexachlorobenzene		418 U	422 U	404 U	437 U	396 U	459 U
Hexachlorobutadiene		418 U	422 U	404 U	437 U	396 U	459 U
Hexachlorocyclopentadiene		1050 U	1060 U	1020 U	1100 U	996 U	1160 U
Hexachloroethane		418 U	422 U	404 U	437 U	396 U	459 U
Indeno(1,2,3-cd)pyrene		215 J	235 J	270 J	79.5 J	95.9 J	459 U
Isophorone		418 U	422 U	404 U	437 U	396 U	459 U
N-Nitrosodi-n-propylamine		418 U	422 U	404 U	437 U	396 U	459 U
N-Nitrosodimethylamine		418 U	422 U	404 U	437 U	396 U	459 U
N-Nitrosodiphenylamine		418 U	422 U	404 U	437 U	396 U	459 U
Naphthalene		193 J	175 J	55.3 J	437 U	396 U	459 U

Table C-6
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
AOI 469: NORTH HALF OF BUILDING 112,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	G469-NS01 3/9/00 0 - 0.17	G469-NS01/D 3/9/00 0 - 0.17	G469-NS02 3/9/00 0 - 0.17	G469-NS03 3/9/00 0 - 0.17	G469-NS04 3/9/00 0 - 0.17	G469-NS05 3/9/00 0 - 0.17
Nitrobenzene		418 U	422 U	404 U	437 U	396 U	459 U
Pentachlorophenol		1050 U	1060 U	1020 U	1100 U	996 U	1160 U
Phenanthrene		672	797	2000	462	257 J	173 J
Phenol		418 U	422 U	404 U	437 U	396 U	459 U
Pyrene		1890 J	2690	3540 J	737	717 J	444 J
Test : Semivolatiles - SW 8270C - Surrogates Units: %							
2,4,6-Tribromophenol-s		86 %	64 %	91 %	65 %	77 %	74 %
2-Fluorobiphenyl-s		86 %	70 %	92 %	70 %	79 %	87 %
2-Fluorophenol-s		104 %	82 %	114 %	86 %	87 %	88 %
Nitrobenzene-d5-s		102 %	77 %	111 %	81 %	82 %	86 %
Phenol-d5-s		104 %	82 %	116 %	88 %	93 %	87 %
Terphenyl-d14-s		117 %	113 %	130 %	94 %	124 %	108 %
Test : TAL Metals - SW6010B/7471A/7470A Units: mg/kg							
Aluminum		6220	6270	8470	6820	7560	6520
Antimony		2.25	1.78	0.892	0.664 J	1.03 J	0.832
Arsenic		1.20	1.01	2.73	1.95	1.70	2.23
Barium		91.7	98.7	53.0	146	52.6	46.1
Beryllium		0.356 J	0.391	0.420	0.339 J	0.454 J	0.300 J
Cadmium		5.03	5.25	2.02	1.55	2.85	1.38

Table C-6
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
AOI 469: NORTH HALF OF BUILDING 112,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	G469-NS01 3/9/00 0 - 0.17	G469-NS01/D 3/9/00 0 - 0.17	G469-NS02 3/9/00 0 - 0.17	G469-NS03 3/9/00 0 - 0.17	G469-NS04 3/9/00 0 - 0.17	G469-NS05 3/9/00 0 - 0.17
Calcium		7250	6590	4390	7100	3140	2520
Chromium		32.3 J	31.6 J	13.3 J	11.2 J	17.8 J	8.67 J
Cobalt		6.03	6.23	5.89	4.61	6.01	3.50
Copper		118	132	31.3	24.3	32.9	22.4
Iron		15500	15300	18500	13100	17000	11500
Lead		272	226	51.3	50.7	206	35.3
Magnesium		3410	3570	2670	2090	2760	1390
Manganese		528	518	507	359	668	240
Mercury		0.637 J	0.581 J	0.0681 J	0.0685 J	0.0941 J	0.0622 J
Nickel		16.3	16.7	12.5	10.0	14.5	7.65
Potassium		761	773	702	646	679	377
Selenium		1.88 J	2.09 J	1.53 J	2.24 J	1.68 J	1.55 J
Silver		0.222 J	0.630 J	0.272 J	1.04 U	1.06 U	0.757 U
Sodium		42.7 J	50.0 J	31.8 J	39.5 J	44.0 J	22.6 J
Thallium		0.815 UJ	0.774 UJ	0.633 UJ	1.04 UJ	1.06 UJ	0.757 UJ
Vanadium		14.3	14.6	17.5	15.3	19.7	14.1
Zinc		748	432	87.6	95.9	241	55.1
Test : TRPH - 418.1M Units: mg/kg							
Petroleum Hydrocarbons, TR		515 U	514 U	501 U	533 U	485 U	557 U

Table C-6
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
AOI 469: NORTH HALF OF BUILDING 112,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	G469-NS06 3/9/00 0 - 0.17	G469-NS07 3/9/00 0 - 0.17	G469-NS08 3/9/00 0 - 0.17	G469-NS09 3/9/00 0 - 0.17	G469-NS10 3/9/00 0 - 0.17	G469-NS11 3/9/00 0 - 0.17
Test : PCBs - SW 8082		Units: mg/kg					
Aroclor 1016		0.0272 U	0.0246 U	0.0245 U	0.0234 U	0.0247 U	0.0232 U
Aroclor 1221		0.0544 U	0.0492 U	0.049 U	0.0468 U	0.0494 U	0.0465 U
Aroclor 1232		0.0272 U	0.0246 U	0.0245 U	0.0234 U	0.0247 U	0.0232 U
Aroclor 1242		0.0272 U	0.0246 U	0.0245 U	0.0305	0.127	0.0232 U
Aroclor 1248		0.0272 U	0.0246 U	0.245 U	0.0234 U	0.0247 U	0.0232 U
Aroclor 1254		0.0272 U	0.0246 U	0.0245 U	0.134	0.0247 U	0.0232 U
Aroclor 1260		0.0610	0.0730	0.0624	0.106	0.0578	0.0861
Test : PCBs - SW 8082 - Surrogates		Units: %					
Decachlorobiphenyl-s		84 %	93 %	75 %	92 %	80 %	87 %
Tetrachloro-m-xylene-s		78 %	95 %	74 %	93 %	79 %	84 %
Test : Percent Moisture - D2216		Units: %					
Percent Moisture		26.6	20.7	19.6	16.5	20.9	15.2
Test : Semivolatiles - SW 8270C		Units: µg/kg					
1,2,4-Trichlorobenzene		443 U	2080 U	409 U	385 U	408 U	381 U
1,2-Dichlorobenzene		443 U	2080 U	409 U	385 U	408 U	381 U
1,3-Dichlorobenzene		443 U	2080 U	409 U	385 U	408 U	381 U
1,4-Dichlorobenzene		443 U	2080 U	409 U	385 U	408 U	381 U
2,4,5-Trichlorophenol		1110 U	5220 U	1030 U	969 U	1030 U	959 U

Table C-6
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
AOI 469: NORTH HALF OF BUILDING 112,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	G469-NS06 3/9/00 0 - 0.17	G469-NS07 3/9/00 0 - 0.17	G469-NS08 3/9/00 0 - 0.17	G469-NS09 3/9/00 0 - 0.17	G469-NS10 3/9/00 0 - 0.17	G469-NS11 3/9/00 0 - 0.17
2,4,6-Trichlorophenol		443 U	2080 U	409 U	385 U	408 U	381 U
2,4-Dichlorophenol		443 U	2080 U	409 U	385 U	408 U	381 U
2,4-Dimethylphenol		443 U	2080 U	409 U	385 U	408 U	381 U
2,4-Dinitrophenol		443 U	2080 U	409 U	385 U	408 U	381 U
2,4-Dinitrotoluene		443 U	2080 U	409 U	385 U	408 U	381 U
2,6-Dinitrotoluene		443 U	2080 U	409 U	385 U	408 U	381 U
2-Chloronaphthalene		443 U	2080 U	409 U	385 U	408 U	381 U
2-Chlorophenol		443 U	2080 U	409 U	385 U	408 U	381 U
2-Methylnaphthalene		443 U	2080 U	409 U	385 U	408 U	381 U
2-Methylphenol		443 U	2080 U	409 U	385 U	408 U	381 U
2-Nitroaniline		1110 U	5220 U	1030 U	969 U	1030 U	959 U
2-Nitrophenol		443 U	2080 U	409 U	385 U	408 U	381 U
3,3'-Dichlorobenzidine		886 U	4150 U	818 U	771 U	816 U	763 U
3-Nitroaniline		1110 U	5220 U	1030 U	969 U	1030 U	959 U
4,6-Dinitro-2-methylphenol		1110 U	5220 U	1030 U	969 U	1030 U	959 U
4-Bromophenyl phenyl ether		443 U	2080 U	409 U	385 U	408 U	381 U
4-Chloro-3-methylphenol		443 U	2080 U	409 U	385 U	408 U	381 U
4-Chloroaniline		443 U	2080 U	409 U	385 U	408 U	381 U
4-Chlorophenyl phenyl ether		443 U	2080 U	409 U	385 U	408 U	381 U

Table C-6
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
AOI 469: NORTH HALF OF BUILDING 112,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	G469-NS06 3/9/00 0 - 0.17	G469-NS07 3/9/00 0 - 0.17	G469-NS08 3/9/00 0 - 0.17	G469-NS09 3/9/00 0 - 0.17	G469-NS10 3/9/00 0 - 0.17	G469-NS11 3/9/00 0 - 0.17
4-Methylphenol		443 U	2080 U	409 U	385 U	408 U	381 U
4-Nitroaniline		1110 U	5220 U	1030 U	969 U	1030 U	959 U
4-Nitrophenol		1110 U	5220 U	1030 U	969 U	1030 U	959 U
Acenaphthene		73.4 J	280 J	63.6 J	385 U	408 U	381 U
Acenaphthylene		443 U	687 J	55.1 J	385 U	408 U	381 U
Anthracene		197 J	1360 J	227 J	57.7 J	408 U	381 U
Benzo(a)anthracene		712	2920 J	610	297 J	210 J	137 J
Benzo(a)pyrene		603 J	2350 J	576 J	307 J	222 J	143 J
Benzo(b)fluoranthene		704 J	2420 J	698 J	385 J	257 J	165 J
Benzo(g,h,i)perylene		181 J	753 J	215 J	111 J	89.3 J	381 UJ
Benzo(k)fluoranthene		809 J	3380 J	838 J	417 J	329 J	168 J
Benzoic acid		1110 U	5220 U	1030 U	969 U	1030 U	959 U
Benzyl alcohol		443 U	2080 U	409 U	385 U	408 U	381 U
Bis(2-chloroethoxy)methane		443 U	2080 U	409 U	385 U	408 U	381 U
Bis(2-chloroethyl)ether		443 U	2080 U	409 U	385 U	408 U	381 U
Bis(2-chloroisopropyl)ether		443 U	2080 U	409 U	385 U	408 U	381 U
Bis(2-ethylhexyl)phthalate		144 J	2080 UJ	83.6 J	385 U	408 U	381 U
Butyl benzyl phthalate		443 U	2080 UJ	409 U	385 U	408 U	381 U
Carbazole		144 J	2080 U	119 J	385 U	408 U	381 U

Table C-6
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
AOI 469: NORTH HALF OF BUILDING 112,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	G469-NS06 3/9/00 0 - 0.17	G469-NS07 3/9/00 0 - 0.17	G469-NS08 3/9/00 0 - 0.17	G469-NS09 3/9/00 0 - 0.17	G469-NS10 3/9/00 0 - 0.17	G469-NS11 3/9/00 0 - 0.17
Chrysene		784	2930 J	677	365 J	306 J	158 J
Di-n-butyl phthalate		443 U	2080 U	409 U	385 U	408 U	381 U
Di-n-octyl phthalate		443 U	2080 UJ	409 U	385 U	408 U	381 U
Dibenz(a,h)anthracene		443 UJ	2080 UJ	409 UJ	385 UJ	408 UJ	381 UJ
Dibenzofuran		443 U	2080 U	409 U	385 U	408 U	381 U
Diethyl phthalate		443 U	2080 U	409 U	385 U	408 U	381 U
Dimethyl phthalate		443 U	2080 U	409 U	385 U	408 U	381 U
Fluoranthene		1390	7040	1190	498	443	216 J
Fluorene		58.9 J	1140 J	75.0 J	385 U	408 U	381 U
Hexachlorobenzene		443 U	2080 U	409 U	385 U	408 U	381 U
Hexachlorobutadiene		443 U	2080 U	409 U	385 U	408 U	381 U
Hexachlorocyclopentadiene		1110 U	5220 U	1030 U	969 U	1030 U	959 U
Hexachloroethane		443 U	2080 U	409 U	385 U	408 U	381 U
Indeno(1,2,3-cd)pyrene		104 J	444 J	131 J	61.1 J	408 U	381 U
Isophorone		443 U	2080 U	409 U	385 U	408 U	381 U
N-Nitrosodi-n-propylamine		443 U	2080 U	409 U	385 U	408 U	381 U
N-Nitrosodimethylamine		443 U	2080 U	409 U	385 U	408 U	381 U
N-Nitrosodiphenylamine		443 U	2080 U	409 U	385 U	408 U	381 U
Naphthalene		443 U	2080 U	409 U	385 U	408 U	381 U

Table C-6
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
AOI 469: NORTH HALF OF BUILDING 112,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	G469-NS06 3/9/00 0 - 0.17	G469-NS07 3/9/00 0 - 0.17	G469-NS08 3/9/00 0 - 0.17	G469-NS09 3/9/00 0 - 0.17	G469-NS10 3/9/00 0 - 0.17	G469-NS11 3/9/00 0 - 0.17
Nitrobenzene		443 U	2080 U	409 U	385 U	408 U	381 U
Pentachlorophenol		1110 U	5220 U	1030 U	969 U	1030 U	959 U
Phenanthrene		907	6530	893	282 J	191 J	88.2 J
Phenol		443 U	2080 U	409 U	385 U	408 U	381 U
Pyrene		1730	9870 J	1380	704	524	279 J
Test : Semivolatiles - SW 8270C - Surrogates							
2,4,6-Tribromophenol-s		75 %	71 %	75 %	58 %	65 %	84 %
2,4-Difluorobiphenyl-s		86 %	115 %	82 %	75 %	77 %	63 %
2-Fluorophenol-s		92 %	108 %	90 %	77 %	76 %	80 %
Nitrobenzene-d5-s		92 %	99 %	84 %	77 %	73 %	66 %
Phenol-d5-s		92 %	106 %	86 %	76 %	78 %	76 %
Terphenyl-d14-s		104 %	155 %	95 %	90 %	94 %	92 %
Test : TAL Metals - SW6010B/7471A/7470A							
Aluminum		7810	7330	6620	4320	7920	7510
Antimony		0.878 J	0.944	0.761 J	0.547 J	1.69	0.876
Arsenic		1.63	1.40	1.29	0.326 J	1.95	0.785
Barium		42.7	39.0	47.3	19.4	58.3	36.0
Beryllium		0.459	0.374	0.329 J	0.212 J	0.488 J	0.660
Cadmium		3.15	1.62	1.97	0.924	3.26	1.80

Table C-6
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
AOI 469: NORTH HALF OF BUILDING 112,

PARAMETER	Sample ID:	G469-NS06	G469-NS07	G469-NS08	G469-NS09	G469-NS10	G469-NS11
	Sample Date:	3/9/00	3/9/00	3/9/00	3/9/00	3/9/00	3/9/00
	Depth (ft):	0 - 0.17	0 - 0.17	0 - 0.17	0 - 0.17	0 - 0.17	0 - 0.17
Calcium		2140	8870	2670	19100	3300	9270
Chromium		13.1 J	12.7 J	12.8 J	6.15 J	28.8 J	10.9 J
Cobalt		5.55	5.40	5.50	3.04	6.25	5.48
Copper		28.9	26.6	23.9	11.8	32.6	23.9
Iron		17000	16000	13900	8900	17400	19100
Lead		95.0	25.5	82.0	8.29	1880	17.2
Magnesium		2520	2870	2330	3900	2780	3290
Manganese		564	495	593	255	593	475
Mercury		0.0974 J	0.0593 J	0.0620 J	0.0622 J	0.181 J	0.0570 J
Nickel		13.3	11.8	12.7	7.03	13.5	11.4
Potassium		526	588	454	345	792	660
Selenium		1.57 J	1.33 J	1.43	1.15 J	1.84 J	1.71 J
Silver		0.885 U	0.637 U	0.876 U	0.63 U	1.26 U	0.214 J
Sodium		27.5 J	40.5 J	41.8 J	29.9 J	126 U	44.4 J
Thallium		0.885 UJ	0.637 UJ	0.876 UJ	0.63 UJ	1.26 UJ	0.678 UJ
Vanadium		18.6	14.9	16.9	8.47	16.8	15.9
Zinc		93.6	58.6	91.3	29.2	422	59.3
Test : TRPH - 418.1M Units: mg/kg							
Petroleum Hydrocarbons, TR		545 U	504 U	498 U	479 U	506 U	472 U

Table C-6
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
AOI 469: NORTH HALF OF BUILDING 112,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	G469-NS11/D 3/9/00 0 - 0.17	G469-NS12 3/9/00 0 - 0.17	G469-NS13 3/9/00 0 - 0.17	G469-NS14 3/9/00 0 - 0.17	G469-NS15 3/9/00 0 - 0.17	G469-NS16 3/9/00 0 - 0.17
Test : PCBs - SW 8082		Units: mg/kg					
Aroclor 1016		0.024 U	0.0228 U	0.0232 U	0.0251 U	0.0252 U	0.123 U
Aroclor 1221		0.0479 U	0.0457 U	0.0464 U	0.0502 U	0.0504 U	0.247 U
Aroclor 1232		0.024 U	0.0228 U	0.0232 U	0.0251 U	0.0252 U	0.123 U
Aroclor 1242		0.0352	0.0257	0.0232 U	0.0251 U	0.0252 U	0.123 U
Aroclor 1248		0.024 U	0.0228 U	0.0232 U	0.0251 U	0.0252 U	0.123 U
Aroclor 1254		0.110	0.0228 U	0.131	0.0251 U	0.0252 U	0.123 U
Aroclor 1260		0.107	0.112	0.113	0.222	0.296	0.248
Test : PCBs - SW 8082 - Surrogates		Units: %					
Decachlorobiphenyl-s		91 %	88 %	83 %	112 %	99 %	118 %
Tetrachloro-m-xylene-s		95 %	95 %	89 %	104 %	98 %	93 %
Test : Percent Moisture - D2216		Units: %					
Percent Moisture		16.8	15.2	14.6	22.7	22.4	20.2
Test : Semivolatiles - SW 8270C		Units: µg/kg					
1,2,4-Trichlorobenzene		396 U	382 U	380 U	414 U	414 U	401 U
1,2-Dichlorobenzene		396 U	382 U	380 U	414 U	414 U	401 U
1,3-Dichlorobenzene		396 U	382 U	380 U	414 U	414 U	401 U
1,4-Dichlorobenzene		396 U	382 U	380 U	414 U	414 U	401 U
2,4,5-Trichlorophenol		997 U	961 U	955 U	1040 U	1040 U	1010 U

Table C-6
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
AOI 469: NORTH HALF OF BUILDING 112,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	G469-NS11/D 3/9/00 0 - 0.17	G469-NS12 3/9/00 0 - 0.17	G469-NS13 3/9/00 0 - 0.17	G469-NS14 3/9/00 0 - 0.17	G469-NS15 3/9/00 0 - 0.17	G469-NS16 3/9/00 0 - 0.17
2,4,6-Trichlorophenol		396 U	382 U	380 U	414 U	414 U	401 U
2,4-Dichlorophenol		396 U	382 U	380 U	414 U	414 U	401 U
2,4-Dimethylphenol		396 U	382 U	380 U	414 U	414 U	401 U
2,4-Dinitrophenol		396 U	382 U	380 U	414 U	414 U	401 U
2,4-Dinitrotoluene		396 U	382 U	380 U	414 U	414 U	401 U
2,6-Dinitrotoluene		396 U	382 U	380 U	414 U	414 U	401 U
2-Chloronaphthalene		396 U	382 U	380 U	414 U	414 U	401 U
2-Chlorophenol		396 U	382 U	380 U	414 U	414 U	401 U
2-Methylnaphthalene		396 U	382 U	380 U	414 U	414 U	401 U
2-Methylphenol		396 U	382 U	380 U	414 U	414 U	401 U
2-Nitroaniline		997 U	961 U	955 U	1040 U	1040 U	1010 U
2-Nitrophenol		396 U	382 U	380 U	414 U	414 U	401 U
3,3'-Dichlorobenzidine		793 U	765 U	760 U	828 UJ	827 UJ	803 U
3-Nitroaniline		997 U	961 U	955 U	1040 U	1040 U	1010 U
4,6-Dinitro-2-methylphenol		997 U	961 U	955 U	1040 U	1040 U	1010 U
4-Bromophenyl phenyl ether		396 U	382 U	380 U	414 U	414 U	401 U
4-Chloro-3-methylphenol		396 U	382 U	380 U	414 U	414 U	401 U
4-Chloroaniline		396 U	382 U	380 U	414 U	414 U	401 U
4-Chlorophenyl phenyl ether		396 U	382 U	380 U	414 U	414 U	401 U

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COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
AOI 469: NORTH HALF OF BUILDING 112,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	G469-NS11/D 3/9/00 0 - 0.17	G469-NS12 3/9/00 0 - 0.17	G469-NS13 3/9/00 0 - 0.17	G469-NS14 3/9/00 0 - 0.17	G469-NS15 3/9/00 0 - 0.17	G469-NS16 3/9/00 0 - 0.17
4-Methylphenol		396 U	382 U	380 U	414 U	414 U	401 U
4-Nitroaniline		997 U	961 U	955 U	1040 U	1040 U	1010 U
4-Nitrophenol		997 U	961 U	955 U	1040 U	1040 U	1010 U
Acenaphthene		396 U	382 U	380 U	414 U	414 U	401 U
Acenaphthylene		396 U	62.7 J	380 U	414 U	414 U	401 U
Anthracene		396 U	55.9 J	380 U	96.1 J	414 U	48.6 J
Benz(a)anthracene		189 J	302 J	173 J	735 J	145 J	343 J
Benz(a)pyrene		194 J	324 J	195 J	659 J	141 J	297 J
Benzo(b)fluoranthene		242 J	540	195 J	1010 J	193 J	326 J
Benzo(g,h,i)perylene		92.1 J	120 J	69.1 J	157 J	414 UJ	77.3 J
Benzo(k)fluoranthene		237 J	355 J	264 J	826 J	205 J	382 J
Benzoic acid		997 U	961 U	955 U	1040 U	1040 U	1010 U
Benzyl alcohol		396 U	382 U	380 U	414 U	414 U	401 U
Bis(2-chloroethoxy)methane		396 U	382 U	380 U	414 U	414 U	401 U
Bis(2-chloroethyl)ether		396 U	382 U	380 U	414 U	414 U	401 U
Bis(2-chloroisopropyl)ether		396 U	382 U	380 U	414 U	414 U	401 U
Bis(2-ethylhexyl)phthalate		396 U	382 U	78.9 J	414 UJ	414 UJ	401 U
Butyl benzyl phthalate		396 U	382 U	380 U	414 UJ	414 UJ	401 U
Carbazole		396 U	382 U	380 U	85.7 J	414 U	401 U

Table C-6
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
AOI 469: NORTH HALF OF BUILDING 112,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID:	G469-NS11/D	G469-NS12	G469-NS13	G469-NS14	G469-NS15	G469-NS16
	Sample Date:	3/9/00	3/9/00	3/9/00	3/9/00	3/9/00	3/9/00
	Depth (ft):	0 - 0.17	0 - 0.17	0 - 0.17	0 - 0.17	0 - 0.17	0 - 0.17
Chrysene		249 J	401	208 J	952 J	180 J	388 J
Di-n-butyl phthalate		396 U	382 U	380 U	414 U	414 U	401 U
Di-n-octyl phthalate		396 U	382 U	380 U	414 UJ	414 UJ	401 U
Dibenz(a,h)anthracene		396 U	382 U	380 UJ	414 UJ	414 UJ	401 UJ
Dibenzofuran		396 U	382 U	380 U	414 U	414 U	401 U
Diethyl phthalate		396 U	382 U	380 U	414 U	414 U	401 U
Dimethyl phthalate		396 U	382 U	380 U	414 U	414 U	401 U
Fluoranthene		291 J	314 J	240 J	1520	241 J	542
Fluorene		396 U	382 U	380 U	414 U	414 U	401 U
Hexachlorobenzene		396 U	382 U	380 U	414 U	414 U	401 U
Hexachlorobutadiene		396 U	382 U	380 U	414 U	414 U	401 U
Hexachlorocyclopentadiene		997 U	961 U	955 U	1040 U	1040 U	1010 U
Hexachloroethane		396 U	382 U	380 U	414 U	414 U	401 U
Indeno(1,2,3-cd)pyrene		84.0 J	93.4 J	380 U	77.2 J	414 U	401 U
Isophorone		396 U	382 U	380 U	414 U	414 U	401 U
N-Nitrosodi-n-propylamine		396 U	382 U	380 U	414 U	414 U	401 U
N-Nitrosodimethylamine		396 U	382 U	380 U	414 U	414 U	401 U
N-Nitrosodiphenylamine		396 U	382 U	380 U	414 U	414 U	401 U
Naphthalene		396 U	382 U	380 U	414 U	414 U	401 U

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COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
AOI 469: NORTH HALF OF BUILDING 112,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	G469-NS11/D 3/9/00 0 - 0.17	G469-NS12 3/9/00 0 - 0.17	G469-NS13 3/9/00 0 - 0.17	G469-NS14 3/9/00 0 - 0.17	G469-NS15 3/9/00 0 - 0.17	G469-NS16 3/9/00 0 - 0.17
Nitrobenzene		396 U	382 U	380 U	414 U	414 U	401 U
Pentachlorophenol		997 U	961 U	955 U	1040 U	1040 U	1010 U
Phenanthrene		122 J	107 J	114 J	606	103 J	249 J
Phenol		396 U	382 U	380 U	414 U	414 U	401 U
Pyrene		371 J	457	392	1780	470 J	841
Test : Semivolatiles - SW 8270C - Surrogates Units: %							
2,4,6-Tribromophenol-s		94 %	77 %	93 %	86 %	124 %	101 %
2-Fluorobiphenyl-s		81 %	80 %	72 %	56 %	64 %	71 %
2-Fluorophenol-s		85 %	76 %	66 %	70 %	66 %	68 %
Nitrobenzene-d5-s		85 %	85 %	68 %	61 %	59 %	68 %
Phenol-d5-s		83 %	77 %	61 %	67 %	68 %	62 %
Terphenyl-d14-s		108 %	108 %	107 %	112 %	188 %	113 %
Test : TAL Metals - SW6010B/7471A/7470A Units: mg/kg							
Aluminum		7060	7170	6440	9440	6160	8940
Antimony		0.735	0.870	0.882	1.77	0.610 J	2.89
Arsenic		1.07	1.51	1.00	1.70	1.79	1.38
Barium		170	35.9	31.3	64.8	41.2	72.2
Beryllium		0.398	0.379	0.330	0.588 J	0.302 J	0.575
Cadmium		1.62	1.62	1.46	11.1	1.41	10.7

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COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
AOI 469: NORTH HALF OF BUILDING 112,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	G469-NS11/D 3/9/00 0 - 0.17	G469-NS12 3/9/00 0 - 0.17	G469-NS13 3/9/00 0 - 0.17	G469-NS14 3/9/00 0 - 0.17	G469-NS15 3/9/00 0 - 0.17	G469-NS16 3/9/00 0 - 0.17
Calcium		10200	11500	9930	3020	3360	4670
Chromium		14.5 J	10.9 J	10.5 J	23.2 J	9.41 J	109 J
Cobalt		5.36	5.34	4.74	8.74	4.10	8.96
Copper		27.4	25.2	23.6	43.3	31.6	45.0
Iron		13900	14700	13100	22700	12400	21400
Lead		22.4	17.6	18.9	734	31.1	1390
Magnesium		2660	2870	2710	3650	1890	3850
Manganese		501	515	428	759	293	713
Mercury		0.0841 J	0.0743 J	0.0879 J	0.305 J	0.0586 J	1.02 J
Nickel		11.3	11.5	10.5	19.1	9.39	18.3
Potassium		616	580	562	1010	611	970
Selenium		1.53 J	1.89 J	1.34 J	2.59 J	2.48 J	1.68 J
Silver		0.149 J	0.737 U	0.658 U	1.22 U	1.07 U	0.949 U
Sodium		50.9 J	39.6 J	41.9 J	122 U	107 U	31.6 J
Thallium		0.699 UJ	0.737 UJ	0.658 UJ	1.22 UJ	1.07 UJ	0.949 UJ
Vanadium		14.9	14.2	14.0	21.3	14.2	19.7
Zinc		60.5	55.2	51.2	360	52.4	597
Test : TRPH - 418.1M Units: mg/kg							
Petroleum Hydrocarbons, TR		481 U	472 U	468 U	517 U	515 U	501 U

Table C-6
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
AOI 469: NORTH HALF OF BUILDING 112,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	G469-NS17 3/9/00 0 - 0.17	G469-NS18 3/9/00 0 - 0.17	G469-NS19 3/9/00 0 - 0.17	G469-NS20 3/9/00 0 - 0.17	G469-NS21 3/9/00 0 - 0.17	G469-NS22 3/9/00 0 - 0.17
Test : PCBs - SW 8082		Units: mg/kg					
Aroclor 1016		0.125 U	0.0249 U	0.0254 U	1.210 U	0.0225 U	0.131 U
Aroclor 1221		0.250 U	0.0498 U	0.0507 U	2.420 U	0.045 U	0.261 U
Aroclor 1232		0.125 U	0.0249 U	0.0254 U	1.210 U	0.0225 U	0.131 U
Aroclor 1242		0.125 U	0.0249 U	0.136	1.210 U	0.0225 U	0.131 U
Aroclor 1248		0.125 U	0.0249 U	0.0254 U	1.210 U	0.0225 U	0.131 U
Aroclor 1254		0.125 U	0.0249 U	0.165	1.210 U	0.0225 U	0.131 U
Aroclor 1260		0.659	0.107	0.0850	7.120	0.241	0.660
Test : PCBs - SW 8082 - Surrogates		Units: %					
Decachlorobiphenyl-s		109 %	92 %	91 %	0 %	58 %	100 %
Tetrachloro-m-xylene-s		87 %	92 %	95 %	0 %	70 %	84 %
Test : Percent Moisture - D2216		Units: %					
Percent Moisture		22.5	22.8	21.4	18.8	12.4	24.0
Test : Semivolatiles - SW 8270C		Units: µg/kg					
1,2,4-Trichlorobenzene		420 U	420 U	414 U	399 U	368 U	858 U
1,2-Dichlorobenzene		420 U	420 U	414 U	399 U	368 U	858 U
1,3-Dichlorobenzene		420 U	420 U	414 U	399 U	368 U	858 U
1,4-Dichlorobenzene		420 U	420 U	414 U	399 U	368 U	858 U
2,4,5-Trichlorophenol		1060 U	1060 U	1040 U	1000 U	925 U	2160 U

Table C-6
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
AOI 469: NORTH HALF OF BUILDING 112,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	G469-NS17 3/9/00 0 - 0.17	G469-NS18 3/9/00 0 - 0.17	G469-NS19 3/9/00 0 - 0.17	G469-NS20 3/9/00 0 - 0.17	G469-NS21 3/9/00 0 - 0.17	G469-NS22 3/9/00 0 - 0.17
2,4,6-Trichlorophenol		420 U	420 U	414 U	399 U	368 U	858 U
2,4-Dichlorophenol		420 U	420 U	414 U	399 U	368 U	858 U
2,4-Dimethylphenol		420 U	420 U	414 U	399 U	368 U	858 U
2,4-Dinitrophenol		420 U	420 U	414 U	399 U	368 U	858 U
2,4-Dinitrotoluene		420 U	420 U	414 U	399 U	368 U	858 U
2,6-Dinitrotoluene		420 U	420 U	414 U	399 U	368 U	858 U
2-Chloronaphthalene		420 U	420 U	414 U	399 U	368 U	858 U
2-Chlorophenol		420 U	420 U	414 U	399 U	368 U	858 U
2-Methylnaphthalene		420 U	420 U	414 U	399 U	368 U	858 U
2-Methylphenol		420 U	420 U	414 U	399 U	368 U	858 U
2-Nitroaniline		1060 U	1060 U	1040 U	1000 U	925 U	2160 U
2-Nitrophenol		420 U	420 U	414 U	399 U	368 U	858 U
3,3'-Dichlorobenzidine		839 UJ	839 UJ	828 UJ	798 UJ	736 U	1720 U
3-Nitroaniline		1060 U	1060 U	1040 U	1000 U	925 U	2160 U
4,6-Dinitro-2-methylphenol		1060 U	1060 U	1040 U	1000 U	925 U	2160 U
4-Bromophenyl phenyl ether		420 U	420 U	414 U	399 U	368 U	858 U
4-Chloro-3-methylphenol		420 U	420 U	414 U	399 U	368 U	858 U
4-Chloroaniline		420 U	420 U	414 U	399 U	368 U	858 U
4-Chlorophenyl phenyl ether		420 U	420 U	414 U	399 U	368 U	858 U

Table C-6
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
AOI 469: NORTH HALF OF BUILDING 112,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	G469-NS17 3/9/00 0 - 0.17	G469-NS18 3/9/00 0 - 0.17	G469-NS19 3/9/00 0 - 0.17	G469-NS20 3/9/00 0 - 0.17	G469-NS21 3/9/00 0 - 0.17	G469-NS22 3/9/00 0 - 0.17
4-Methylphenol		420 U	420 U	414 U	399 U	368 U	858 U
4-Nitroaniline		1060 U	1060 U	1040 U	1000 U	925 U	2160 U
4-Nitrophenol		1060 U	1060 U	1040 U	1000 U	925 U	2160 U
Acenaphthene		420 U	420 U	414 U	399 U	368 U	858 U
Acenaphthylene		420 U	420 U	57.1 J	399 U	368 U	858 U
Anthracene		420 U	420 U	43.2 J	93.0 J	368 U	129 J
Benzo(a)anthracene		276 J	320 J	197 J	610 J	159 J	951
Benzo(a)pyrene		252 J	288 J	209 J	463 J	143 J	735 J
Benzo(b)fluoranthene		370 J	428 J	218 J	662 J	185 J	825 J
Benzo(g,h,i)perylene		83.9 J	420 UJ	414 UJ	132 J	368 UJ	191 J
Benzo(k)fluoranthene		340 J	331 J	246 J	572 J	182 J	894 J
Benzoic acid		1060 U	1060 U	1040 U	1000 U	925 U	2160 U
Benzyl alcohol		420 U	420 U	414 U	399 U	368 U	858 U
Bis(2-chloroethoxy)methane		420 U	420 U	414 U	399 U	368 U	858 U
Bis(2-chloroethyl)ether		420 U	420 U	414 U	399 U	368 U	858 U
Bis(2-chloroisopropyl)ether		420 U	420 U	414 U	399 U	368 U	858 U
Bis(2-ethylhexyl)phthalate		242 J	72.7 J	79.5 J	10500 J	699	799 J
Butyl benzyl phthalate		420 UJ	420 UJ	414 UJ	399 UJ	473	858 U
Carbazole		420 U	420 U	414 U	68.9 J	368 U	858 U

Table C-6
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
AOI 469: NORTH HALF OF BUILDING 112,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	G469-NS17 3/9/00 0 - 0.17	G469-NS18 3/9/00 0 - 0.17	G469-NS19 3/9/00 0 - 0.17	G469-NS20 3/9/00 0 - 0.17	G469-NS21 3/9/00 0 - 0.17	G469-NS22 3/9/00 0 - 0.17
Chrysene		339 J	366 J	209 J	659 J	192 J	1050
Di-n-butyl phthalate		420 U	420 U	414 U	399 U	368 U	858 U
Di-n-octyl phthalate		420 UJ	420 UJ	414 UJ	399 UJ	368 U	858 U
Dibenz(a,h)anthracene		420 UJ	420 UJ	414 UJ	399 UJ	368 UJ	858 UJ
Dibenzofuran		420 U	420 U	414 U	399 U	368 U	858 U
Diethyl phthalate		420 U	420 U	414 U	399 U	368 U	858 U
Dimethyl phthalate		420 U	420 U	414 U	399 U	368 U	858 U
Fluoranthene		441	490	269 J	1280	297 J	1500
Fluorene		420 U	420 U	414 U	399 U	368 U	858 U
Hexachlorobenzene		420 U	420 U	414 U	399 U	368 U	858 U
Hexachlorobutadiene		420 U	420 U	414 U	399 U	368 U	858 U
Hexachlorocyclopentadiene		1060 U	1060 U	1040 U	1000 U	925 U	2160 U
Hexachloroethane		420 U	420 U	414 U	399 U	368 U	858 U
Indeno(1,2,3-cd)pyrene		420 UJ	420 UJ	414 UJ	399 UJ	368 U	858 U
Isophorone		420 U	420 U	414 U	399 U	368 U	858 U
N-Nitrosodi-n-propylamine		420 U	420 U	414 U	399 U	368 U	858 U
N-Nitrosodimethylamine		420 U	420 U	414 U	399 U	368 U	858 U
N-Nitrosodiphenylamine		420 U	420 U	414 U	399 U	368 U	858 U
Naphthalene		420 U	420 U	414 U	399 U	368 U	858 U

Table C-6
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
AOI 469: NORTH HALF OF BUILDING 112,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	G469-NS17 3/9/00 0 - 0.17	G469-NS18 3/9/00 0 - 0.17	G469-NS19 3/9/00 0 - 0.17	G469-NS20 3/9/00 0 - 0.17	G469-NS21 3/9/00 0 - 0.17	G469-NS22 3/9/00 0 - 0.17
Nitrobenzene		420 U	420 U	414 U	399 U	368 U	858 U
Pentachlorophenol		1060 U	1060 U	1040 U	1000 U	925 U	2160 U
Phenanthrene		160 J	135 J	155 J	556	118 J	638 J
Phenol		420 U	420 U	414 U	399 U	368 U	858 U
Pyrene		887 J	1070 J	541 J	1610 J	369	2800
Test : Semivolatiles - SW 8270C - Surrogates Units: %							
2,4,6-Tribromophenol-s		121 %	116 %	120 %	112 %	84 %	55 %
2,4-Difluorobiphenyl-s		77 %	78 %	77 %	81 %	71 %	52 %
2-Fluorophenol-s		80 %	91 %	84 %	88 %	69 %	62 %
Nitrobenzene-d5-s		73 %	81 %	73 %	79 %	73 %	53 %
Phenol-d5-s		78 %	88 %	84 %	84 %	68 %	54 %
Terphenyl-d14-s		172 %	178 %	175 %	193 %	102 %	84 %
Test : TAL Metals - SW6010B/7471A/7470A Units: mg/kg							
Aluminum		9650	6490	5940	8450	6610	9920
Antimony		0.994	0.827 J	1.01	1.22	1.95	1.86
Arsenic		2.08	1.20 J	0.810	1.06 U	1.57	2.14
Barium		53.1	37.6	27.3	50.8	51.3	56.7
Beryllium		0.589	0.397 J	0.413	0.580	0.401 J	0.498
Cadmium		5.21	1.84	1.63	5.99	3.59	2.82

Table C-6
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
AOI 469: NORTH HALF OF BUILDING 112,
EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME

PARAMETER	Sample ID:	G469-NS17	G469-NS18	G469-NS19	G469-NS20	G469-NS21	G469-NS22
	Sample Date:	3/9/00	3/9/00	3/9/00	3/9/00	3/9/00	3/9/00
	Depth (ft):	0 - 0.17	0 - 0.17	0 - 0.17	0 - 0.17	0 - 0.17	0 - 0.17
Calcium		2740	2600	9780	19800	114000	3650
Chromium		18.0 J	11.8 J	15.4 J	33.0 J	28.6 J	18.9 J
Cobalt		7.85	5.62	6.50	7.62	5.29	6.55
Copper		39.3	34.9	69.5	50.4	40.1	36.5
Iron		22900	16500	16100	54700	13900	20500
Lead		126	52.2	54.8	179	572	141
Magnesium		3630	2430	4350	3020	4810	2960
Manganese		857	422	337	735	364	474
Mercury		0.648 J	0.0902 J	0.042 U	0.822 J	2.03 J	0.0434 U
Nickel		17.5	12.8	16.3	16.5	11.0	15.2
Potassium		835	800	1170	1130	1090	1110
Selenium		2.03 J	2.32 J	1.52 J	7.78 J	0.906 UJ	1.95 J
Silver		0.884 U	1.25 U	0.776 U	1.06 U	4.42	0.723 U
Sodium		31.1 J	125 U	43.9 J	59.6 J	109	29.8 J
Thallium		0.884 UJ	1.25 UJ	0.776 UJ	1.06 UJ	0.906 UJ	0.723 UJ
Vanadium		22.0	16.3	13.8	20.8	13.6	21.5
Zinc		103	64.8	96.9	206	521	130
Test : TRPH - 418.1M Units: mg/kg							
Petroleum Hydrocarbons, TR		516 U	518 U	509 U	493 U	457 U	526 U

Table C-6
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
AOI 469: NORTH HALF OF BUILDING 112,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	G469-NS22/D 3/9/00 0 - 0.17	G469-SS01-Z1 4/18/00 0.17 - 2	G469-SS01-Z2 4/18/00 2 - 4	G469-SS01-Z3 4/18/00 4 - 6	G469-SS01-Z4 4/18/00 6 - 8	G469-SS01-Z5 4/18/00 8 - 10
Test : PCBs - SW 8082							
			Units: mg/kg				
Aroclor 1016		0.127 U	0.122 U	0.0234 U	0.0231 U	0.0228 U	0.021 U
Aroclor 1221		0.254 U	0.243 U	0.0467 U	0.0463 U	0.0455 U	0.042 U
Aroclor 1232		0.127 U	0.122 U	0.0234 U	0.0231 U	0.0228 U	0.021 U
Aroclor 1242		0.127 U	0.122 U	0.0234 U	0.0231 U	0.0228 U	0.021 U
Aroclor 1248		0.127 U	0.122 U	0.0234 U	0.0231 U	0.0228 U	0.021 U
Aroclor 1254		0.127 U	0.684	0.0159 J	0.0169 J	0.0228 U	0.021 U
Aroclor 1260		0.619	0.286	0.0124 J	0.0102 J	0.0228 U	0.021 U
Test : PCBs - SW 8082 - Surrogates							
			Units: %				
Decachlorobiphenyl-s		96 %	82 %	74 %	82 %	70 %	69 %
Tetrachloro-m-xylene-s		84 %	65 %	70 %	78 %	70 %	67 %
Test : Percent Moisture - D2216							
			Units: %				
Percent Moisture		22.4	19.0	14.4	14.0	12.7	7.89
Test : Semivolatiles - SW 8270C							
			Units: µg/kg				
1,2,4-Trichlorobenzene		845 U	401 U	378 U	383 U	375 U	356 U
1,2-Dichlorobenzene		845 U	401 U	378 U	383 U	375 U	356 U
1,3-Dichlorobenzene		845 U	401 U	378 U	383 U	375 U	356 U
1,4-Dichlorobenzene		845 U	401 U	378 U	383 U	375 U	356 U
2,4,5-Trichlorophenol		2120 U	1010 U	951 U	963 U	943 U	894 U

Table C-6
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
AOI 469: NORTH HALF OF BUILDING 112,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	G469-NS22/D 3/9/00 0 - 0.17	G469-SS01-Z1 4/18/00 0.17 - 2	G469-SS01-Z2 4/18/00 2 - 4	G469-SS01-Z3 4/18/00 4 - 6	G469-SS01-Z4 4/18/00 6 - 8	G469-SS01-Z5 4/18/00 8 - 10
2,4,6-Trichlorophenol		845 U	401 U	378 U	383 U	375 U	356 U
2,4-Dichlorophenol		845 U	401 U	378 U	383 U	375 U	356 U
2,4-Dimethylphenol		845 U	401 U	378 U	383 U	375 U	356 U
2,4-Dinitrophenol		845 U	401 U	378 U	383 U	375 U	356 U
2,4-Dinitrotoluene		845 U	401 U	378 U	383 U	375 U	356 U
2,6-Dinitrotoluene		845 U	401 U	378 U	383 U	375 U	356 U
2-Chloronaphthalene		845 U	401 U	378 U	383 U	375 U	356 U
2-Chlorophenol		845 U	401 U	378 U	383 U	375 U	356 U
2-Methylnaphthalene		845 U	401 U	378 U	383 U	375 U	356 U
2-Methylphenol		845 U	401 U	378 U	383 U	375 U	356 U
2-Nitroaniline		2120 U	1010 U	951 U	963 U	943 U	894 U
2-Nitrophenol		845 U	401 U	378 U	383 U	375 U	356 U
3,3'-Dichlorobenzidine		1690 UJ	802 U	756 U	766 U	750 U	711 U
3-Nitroaniline		2120 U	1010 U	951 U	963 U	943 U	894 U
4,6-Dinitro-2-methylphenol		2120 U	1010 U	951 U	963 U	943 U	894 U
4-Bromophenyl phenyl ether		845 U	401 U	378 U	383 U	375 U	356 U
4-Chloro-3-methylphenol		845 U	401 U	378 U	383 U	375 U	356 U
4-Chloroaniline		845 U	401 U	378 U	383 U	375 U	356 U
4-Chlorophenyl phenyl ether		845 U	401 U	378 U	383 U	375 U	356 U

Table C-6
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
AOI 469: NORTH HALF OF BUILDING 112,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	G469-NS22/D 3/9/00 0 - 0.17	G469-SS01-Z1 4/18/00 0.17 - 2	G469-SS01-Z2 4/18/00 2 - 4	G469-SS01-Z3 4/18/00 4 - 6	G469-SS01-Z4 4/18/00 6 - 8	G469-SS01-Z5 4/18/00 8 - 10
4-Methylphenol		845 U	401 U	378 U	383 U	375 U	356 U
4-Nitroaniline		2120 U	1010 U	951 U	963 U	943 U	894 U
4-Nitrophenol		2120 U	1010 U	951 U	963 U	943 U	894 U
Acenaphthene		845 U	401 U	378 U	383 U	375 U	356 U
Acenaphthylene		845 U	401 U	378 U	383 U	375 U	356 U
Anthracene		97.2 J	56.3 J	378 U	383 U	375 U	356 U
Benz(a)anthracene		649 J	318 J	378 U	116 J	375 U	356 U
Benzo(a)pyrene		571 J	354 J	378 U	87.9 J	375 U	356 U
Benzo(b)fluoranthene		799 J	405 J	378 U	97.9 J	375 U	356 U
Benzo(g,h,i)perylene		194 J	167 J	378 U	383 U	375 U	356 U
Benzo(k)fluoranthene		551 J	424 J	378 U	133 J	375 U	356 U
Benzoic acid		2120 U	1010 U	951 U	963 U	943 U	894 U
Benzyl alcohol		845 U	401 U	378 U	383 U	375 U	356 U
Bis(2-chloroethoxy)methane		845 U	401 U	378 U	383 U	375 U	356 U
Bis(2-chloroethyl)ether		845 U	401 U	378 U	383 U	375 U	356 U
Bis(2-chloroisopropyl)ether		845 U	401 U	378 U	383 U	375 U	356 U
Bis(2-ethylhexyl)phthalate		845 UJ	723	164 J	272 J	71.2 J	83.7 J
Butyl benzyl phthalate		913 J	537	378 U	129 J	375 U	356 U
Carbazole		845 U	401 U	378 U	383 U	375 U	356 U

Table C-6
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
AOI 469: NORTH HALF OF BUILDING 112,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	G469-NS22/D 3/9/00 0 - 0.17	G469-SS01-Z1 4/18/00 0.17 - 2	G469-SS01-Z2 4/18/00 2 - 4	G469-SS01-Z3 4/18/00 4 - 6	G469-SS01-Z4 4/18/00 6 - 8	G469-SS01-Z5 4/18/00 8 - 10
Chrysene		752 J	409	378 U	125 J	375 U	356 U
Di-n-butyl phthalate		845 U	401 U	378 U	383 U	375 U	356 U
Di-n-octyl phthalate		845 UJ	401 U	378 U	383 U	375 U	356 U
Dibenz(a,h)anthracene		845 UJ	401 UJ	378 U	383 U	375 U	356 U
Dibenzofuran		845 U	401 U	378 U	383 U	375 U	356 U
Diethyl phthalate		845 U	401 U	378 U	383 U	375 U	356 U
Dimethyl phthalate		845 U	401 U	378 U	383 U	375 U	356 U
Fluoranthene		946	500	46.9 J	161 J	55.1 J	356 U
Fluorene		845 U	401 U	378 U	383 U	375 U	356 U
Hexachlorobenzene		845 U	401 U	378 U	383 U	375 U	356 U
Hexachlorobutadiene		845 U	401 U	378 U	383 U	375 U	356 U
Hexachlorocyclopentadiene		2120 U	1010 U	951 U	963 U	943 U	894 U
Hexachloroethane		845 U	401 U	378 U	383 U	375 U	356 U
Indeno(1,2,3-cd)pyrene		845 UJ	68.9 J	378 U	383 U	375 U	356 U
Isophorone		845 U	401 U	378 U	383 U	375 U	356 U
N-Nitrosodi-n-propylamine		845 U	401 U	378 U	383 U	375 U	356 U
N-Nitrosodimethylamine		845 U	401 U	378 U	383 U	375 U	356 U
N-Nitrosodiphenylamine		845 U	401 U	378 U	383 U	375 U	356 U
Naphthalene		845 U	401 U	378 U	383 U	375 U	356 U

Table C-6
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
AOI 469: NORTH HALF OF BUILDING 112,
EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROM

PARAMETER	Sample ID:	G469-NS22/D	G469-SS01-Z1	G469-SS01-Z2	G469-SS01-Z3	G469-SS01-Z4	G469-SS01-Z5
	Sample Date:	3/9/00	4/18/00	4/18/00	4/18/00	4/18/00	4/18/00
	Depth (ft):	0 - 0.17	0.17 - 2	2 - 4	4 - 6	6 - 8	8 - 10
Nitrobenzene		845 U	401 U	378 U	383 U	375 U	356 U
Pentachlorophenol		2120 U	1010 U	951 U	963 U	943 U	894 U
Phenanthrene		347 J	293 J	378 U	48.1 J	375 U	356 U
Phenol		845 U	401 U	378 U	383 U	375 U	356 U
Pyrene		1860 J	928	378 U	185 J	40.8 J	356 U
Test : Semivolatiles - SW 8270C - Surrogates Units: %							
2,4,6-Tribromophenol-s		72 %	126	126	65	109	142
2-Fluorobiphenyl-s		63 %	83	87	101	79	81
2-Fluorophenol-s		82 %	93	88	66	73	93
Nitrobenzene-d5-s		68 %	75	82	89	76	80
Phenol-d5-s		74 %	90	90	91	79	89
Terphenyl-d14-s		102 %	142	68	96	70	73
Test : TAL Metals - SW6010B/7471A/7470A Units: mg/kg							
Aluminum		9770	6630	9410	6230	9440	8430
Antimony		1.62	1.01 U	1.06 U	0.807 U	0.987 U	0.67 U
Arsenic		1.54	0.667 J	1.06 U	0.807 U	0.987 U	0.67 U
Barium		54.7	86.5	60.0	26.0	29.6	27.9
Beryllium		0.473 J	0.425 J	0.564	0.380 J	0.477 J	0.419
Cadmium		2.81	4.37	2.36	1.22	1.77	1.65

Table C-6
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
AOI 469: NORTH HALF OF BUILDING 112,
EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME

PARAMETER	Sample ID:	G469-NS22/D	G469-SS01-Z1	G469-SS01-Z2	G469-SS01-Z3	G469-SS01-Z4	G469-SS01-Z5
	Sample Date:	3/9/00	4/18/00	4/18/00	4/18/00	4/18/00	4/18/00
	Depth (ft):	0 - 0.17	0.17 - 2	2 - 4	4 - 6	6 - 8	8 - 10
Calcium		3090	8860	27600	2310	1920	2490
Chromium		16.0 J	32.5	12.6	8.82	12.7	12.2
Cobalt		6.33	6.09	6.65	5.44	7.26	7.21
Copper		35.1	127 UJ	31.0 UJ	24.1 UJ	34.7 UJ	31.5 UJ
Iron		17800	16400	26400	15400	22600	21900
Lead		125	252	40.9	11.5	7.42	8.50
Magnesium		2920	3780	4110	2680	3980	4050
Manganese		455	528	671	605	979	885
Mercury		0.0885 J	0.388	0.0403	0.0385	0.0468	0.0292 J
Nickel		13.7	15.8	14.6	13.1	17.5	16.9
Potassium		1150	639	750	535	688	597
Selenium		1.86 J	1.56 J	1.06 UR	0.807 UR	0.987 UR	0.67 UR
Silver		1.19 U	0.899 J	1.06 UR	0.807 UR	0.987 UR	0.67 UR
Sodium		119 U	40.7 J	79.0 J	62.8 J	97.9 J	115
Thallium		1.19 UJ	1.01 UR	1.06 UR	0.807 UR	0.987 UR	0.67 UR
Vanadium		21.0	16.0	22.6	13.7	20.2	18.7
Zinc		114	459	75.9	52.0	61.8	59.7
Test : TRPH - 418.1M Units: mg/kg							
Petroleum Hydrocarbons, TR		515 U	494 UJ	467 UJ	465 UJ	458 UJ	434 UJ

Table C-6
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
AOI 469: NORTH HALF OF BUILDING 112,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	G469-SS01-Z6 4/18/00 10 - 12	G469-SS01-Z7 4/18/00 12 - 14	G469-SS03-Z1 4/18/00 5 - 7	G469-SS03-Z2 4/18/00 10.5 - 12.5	G469-SS06-Z1 3/21/00 4 - 5	G469-SS06-Z2 3/21/00 12 - 13
Test : PCBs - SW 8082		Units: mg/kg					
Aroclor 1016		0.0216 U	0.0214 U	0.0229 U	0.0226 U	0.0211 U	0.0244 U
Aroclor 1221		0.0431 U	0.0427 U	0.0459 U	0.0451 U	0.0422 U	0.0488 U
Aroclor 1232		0.0216 U	0.0214 U	0.0229 U	0.0226 U	0.0211 U	0.0244 U
Aroclor 1242		0.0216 U	0.0214 U	0.0229 U	0.0226 U	0.0211 U	0.0244 U
Aroclor 1248		0.0216 U	0.0214 U	0.0229 U	0.0226 U	0.0211 U	0.0244 U
Aroclor 1254		0.0216 U	0.0214 U	0.0229 U	0.0226 U	0.0211 U	0.0244 U
Aroclor 1260		0.0216 U	0.0214 U	0.0229 U	0.0226 U	0.0211 U	0.0244 U
Test : PCBs - SW 8082 - Surrogates		Units: %					
Decachlorobiphenyl-s		70 %	75 %	77 %	77 %	99 %	95 %
Tetrachloro-m-xylene-s		69 %	72 %	73 %	72 %	103 %	105 %
Test : Percent Moisture - D2216		Units: %					
Percent Moisture		9.37	11.3	13.6	11.9	9.25	20.4
Test : Semivolatiles - SW 8270C		Units: µg/kg					
1,2,4-Trichlorobenzene		349 U	351 U	372 U	370 U	340 U	359 U
1,2-Dichlorobenzene		349 U	351 U	372 U	370 U	340 U	359 U
1,3-Dichlorobenzene		349 U	351 U	372 U	370 U	340 U	359 U
1,4-Dichlorobenzene		349 U	351 U	372 U	370 U	340 U	359 U
2,4,5-Trichlorophenol		877 U	883 U	936 U	930 U	855 U	903 U

Table C-6
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
AOI 469: NORTH HALF OF BUILDING 112,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	G469-SS01-Z6 4/18/00 10 - 12	G469-SS01-Z7 4/18/00 12 - 14	G469-SS03-Z1 4/18/00 5 - 7	G469-SS03-Z2 4/18/00 10.5 - 12.5	G469-SS06-Z1 3/21/00 4 - 5	G469-SS06-Z2 3/21/00 12 - 13
2,4,6-Trichlorophenol		349 U	351 U	372 U	370 U	340 U	359 U
2,4-Dichlorophenol		349 U	351 U	372 U	370 U	340 U	359 U
2,4-Dimethylphenol		349 U	351 U	372 U	370 U	340 U	359 U
2,4-Dinitrophenol		349 U	351 U	372 U	370 U	340 U	359 U
2,4-Dinitrotoluene		349 U	351 U	372 U	370 U	340 U	359 U
2,6-Dinitrotoluene		349 U	351 U	372 U	370 U	340 U	359 U
2-Chloronaphthalene		349 U	351 U	372 U	370 U	340 U	359 U
2-Chlorophenol		349 U	351 U	372 U	370 U	340 U	359 U
2-Methylnaphthalene		349 U	351 U	372 U	370 U	340 U	359 U
2-Methylphenol		349 U	351 U	372 U	370 U	340 U	359 U
2-Nitroaniline		877 U	883 U	936 U	930 U	855 U	903 U
2-Nitrophenol		349 U	351 U	372 U	370 U	340 U	359 U
3,3'-Dichlorobenzidine		697 U	702 U	745 U	739 U	680 U	718 U
3-Nitroaniline		877 U	883 U	936 U	930 U	855 U	903 U
4,6-Dinitro-2-methylphenol		877 U	883 U	936 U	930 U	855 U	903 U
4-Bromophenyl phenyl ether		349 U	351 U	372 U	370 U	340 U	359 U
4-Chloro-3-methylphenol		349 U	351 U	372 U	370 U	340 U	359 U
4-Chloroaniline		349 U	351 U	372 U	370 U	340 U	359 U
4-Chlorophenyl phenyl ether		349 U	351 U	372 U	370 U	340 U	359 U

Table C-6
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
AOI 469: NORTH HALF OF BUILDING 112,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	G469-SS01-Z6 4/18/00 10 - 12	G469-SS01-Z7 4/18/00 12 - 14	G469-SS03-Z1 4/18/00 5 - 7	G469-SS03-Z2 4/18/00 10.5 - 12.5	G469-SS06-Z1 3/21/00 4 - 5	G469-SS06-Z2 3/21/00 12 - 13
4-Methylphenol		349 U	351 U	372 U	370 U	340 U	359 U
4-Nitroaniline		877 U	883 U	936 U	930 U	855 U	903 U
4-Nitrophenol		877 U	883 U	936 U	930 U	855 U	903 U
Acenaphthene		349 U	351 U	372 U	370 U	340 U	359 U
Acenaphthylene		349 U	351 U	372 U	370 U	340 U	359 U
Anthracene		349 U	351 U	372 U	370 U	340 U	359 U
Benz(a)anthracene		349 U	351 U	372 U	370 U	340 U	359 U
Benz(a)pyrene		349 U	351 U	372 U	370 U	340 U	359 U
Benzo(b)fluoranthene		349 U	351 U	372 U	370 U	340 U	359 U
Benzo(g,h,i)perylene		349 U	351 U	372 U	370 U	340 U	359 U
Benzo(k)fluoranthene		349 U	351 U	372 U	370 U	340 U	359 U
Benzoic acid		877 U	883 U	936 U	930 U	855 U	903 U
Benzyl alcohol		349 U	351 U	372 U	370 U	340 U	359 U
Bis(2-chloroethoxy)methane		349 U	351 U	372 U	370 U	340 U	359 U
Bis(2-chloroethyl)ether		349 U	351 U	372 U	370 U	340 U	359 U
Bis(2-chloroisopropyl)ether		349 U	351 U	372 U	370 U	340 U	359 U
Bis(2-ethylhexyl)phthalate		349 U	78.3 J	372 U	370 U	340 U	359 U
Butyl benzyl phthalate		349 U	351 U	372 U	370 U	340 U	359 U
Carbazole		349 U	351 U	372 U	370 U	340 U	359 U

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COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
AOI 469: NORTH HALF OF BUILDING 112,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	G469-SS01-Z6 4/18/00 10 - 12	G469-SS01-Z7 4/18/00 12 - 14	G469-SS03-Z1 4/18/00 5 - 7	G469-SS03-Z2 4/18/00 10.5 - 12.5	G469-SS06-Z1 3/21/00 4 - 5	G469-SS06-Z2 3/21/00 12 - 13
Chrysene		349 U	351 U	372 U	370 U	340 U	359 U
Di-n-butyl phthalate		349 U	351 U	372 U	370 U	340 U	359 U
Di-n-octyl phthalate		349 U	351 U	372 U	370 U	340 U	359 U
Dibenz(a,h)anthracene		349 U	351 U	372 U	370 U	340 U	359 U
Dibenzofuran		349 U	351 U	372 U	370 U	340 U	359 U
Diethyl phthalate		349 U	351 U	372 U	370 U	340 U	359 U
Dimethyl phthalate		349 U	351 U	372 U	370 U	340 U	359 U
Fluoranthene		349 U	351 U	372 U	370 U	340 U	359 U
Fluorene		349 U	351 U	372 U	370 U	340 U	359 U
Hexachlorobenzene		349 U	351 U	372 U	370 U	340 U	359 U
Hexachlorobutadiene		349 U	351 U	372 U	370 U	340 U	359 U
Hexachlorocyclopentadiene		877 U	883 U	936 U	930 U	855 U	903 U
Hexachloroethane		349 U	351 U	372 U	370 U	340 U	359 U
Indeno(1,2,3-cd)pyrene		349 U	351 U	372 U	370 U	340 U	359 U
Isophorone		349 U	351 U	372 U	370 U	340 U	359 U
N-Nitrosodi-n-propylamine		349 U	351 U	372 U	370 U	340 U	359 U
N-Nitrosodimethylamine		349 U	351 U	372 U	370 U	340 U	359 U
N-Nitrosodiphenylamine		349 U	351 U	372 U	370 U	340 U	359 U
Naphthalene		349 U	351 U	372 U	370 U	340 U	359 U

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AOI 469: NORTH HALF OF BUILDING 112,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	G469-SS01-Z6 4/18/00 10 - 12	G469-SS01-Z7 4/18/00 12 - 14	G469-SS03-Z1 4/18/00 5 - 7	G469-SS03-Z2 4/18/00 10.5 - 12.5	G469-SS06-Z1 3/21/00 4 - 5	G469-SS06-Z2 3/21/00 12 - 13
Nitrobenzene		349 U	351 U	372 U	370 U	340 U	359 U
Pentachlorophenol		877 U	883 U	936 U	930 U	855 U	903 U
Phenanthrene		349 U	351 U	372 U	370 U	340 U	359 U
Phenol		349 U	351 U	372 U	370 U	340 U	359 U
Pyrene		349 U	351 U	372 U	370 U	340 U	359 U
Test : Semivolatiles - SW 8270C - Surrogates Units: %							
2,4,6-Tribromophenol-s		132	157	112	99	59	100
2-Fluorobiphenyl-s		89	84	85	85	67	93
2-Fluorophenol-s		85	85	73	73	61	89
Nitrobenzene-d5-s		80	81	78	80	67	89
Phenol-d5-s		84	84	81	85	60	84
Terphenyl-d14-s		74	72	68	69	83	115
Test : TAL Metals - SW6010B/7471A/7470A Units: mg/kg							
Aluminum		10800	8550	10200	8300	9750	5890
Antimony		1.1 U	0.663 U	1.05 U	0.757 U	0.798 U	1.01 U
Arsenic		1.1 U	0.374 J	1.05 U	0.389 J	2.51	0.582 J
Barium		27.4	37.7	28.6	25.9	34.6	32.4
Beryllium		0.577	0.492	0.510 J	0.462	0.465	0.335 J
Cadmium		2.07	2.03	1.65	1.63	3.13	2.27

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AOI 469: NORTH HALF OF BUILDING 112,
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PARAMETER	Sample ID: Sample Date: Depth (ft):	G469-SS01-Z6 4/18/00 10 - 12	G469-SS01-Z7 4/18/00 12 - 14	G469-SS03-Z1 4/18/00 5 - 7	G469-SS03-Z2 4/18/00 10.5 - 12.5	G469-SS06-Z1 3/21/00 4 - 5	G469-SS06-Z2 3/21/00 12 - 13
Calcium		2250	2400	1900	1810	3510	1070
Chromium		17.8	12.8	12.0	12.9	14.2	7.85
Cobalt		9.81	7.79	6.96	7.01	7.22	4.32
Copper		41.0 UJ	48.8 UJ	33.7 UJ	42.6 UJ	32.1	17.8
Iron		26900	24100	21100	20400	27700	19700
Lead		11.8	8.76	8.80	9.00	5.23	3.37
Magnesium		5750	4240	3720	4500	3950	2830
Manganese		601	1330	694	681	853	1050
Mercury		0.0160 J	0.0190 J	0.0389	0.0217 J	0.033 U	0.033 U
Nickel		22.1	17.6	15.8	16.5	17.3	13.3
Potassium		1020	687	599	687	1050	914
Selenium		1.1 UR	0.663 UR	1.05 UR	0.757 UR	0.798 U	1.01 U
Silver		1.1 UR	0.663 UR	1.05 UR	0.757 UR	0.798 U	1.01 U
Sodium		150	132	105 U	29.4 J	45.6 J	101 U
Thallium		1.1 UR	0.663 UR	1.05 UR	0.757 UR	0.798 U	1.01 U
Vanadium		24.7	21.0	20.3	18.0	16.7	10.3
Zinc		72.3	81.2	53.7	65.0	64.2	37.7
Test : TRPH - 418.1M Units: mg/kg							
Petroleum Hydrocarbons, TR		441 UJ	451 UJ	463 UJ	454 UJ	44.1 U	50.3 U

Table C-6
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
AOI 469: NORTH HALF OF BUILDING 112,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

Sample ID: Sample Date: Depth (ft):	G469-SS11-Z1 4/18/00 6 - 7	G469-SS11-Z1/D 4/18/00 6 - 7	G469-SS11-Z2 4/18/00 10 - 12	G469-SS13-Z1 4/21/00 6 - 7	G469-SS13-Z2 4/21/00 10 - 12.5	G469-SS15-Z1 4/19/00 6 - 7
PARAMETER						
Test : PCBs - SW 8082 Units: mg/kg						
Aroclor 1016	0.0221 U	0.0224 U	0.0217 U	0.0226 U	0.0224 U	0.0208 U
Aroclor 1221	0.0443 U	0.0447 U	0.0434 U	0.0452 U	0.0447 U	0.0416 U
Aroclor 1232	0.0221 U	0.0224 U	0.0217 U	0.0226 U	0.0224 U	0.0208 U
Aroclor 1242	0.0221 U	0.0224 U	0.0217 U	0.0226 U	0.0224 U	0.0208 U
Aroclor 1248	0.0221 U	0.0224 U	0.0217 U	0.0226 U	0.0224 U	0.0208 U
Aroclor 1254	0.0221 U	0.0224 U	0.0217 U	0.0226 U	0.0224 U	0.0208 U
Aroclor 1260	0.00415 J	0.00450 J	0.0217 U	0.0226 U	0.226	0.0208 U
Test : PCBs - SW 8082 - Surrogates Units: %						
Decachlorobiphenyl-s	77 %	77 %	73 %	78 %	82 %	76 %
Tetrachloro-m-xylene-s	71 %	76 %	71 %	81 %	73 %	70 %
Test : Percent Moisture - D2216 Units: %						
Percent Moisture	11.5	11.7	7.91	12.3	12.0	9.48
Test : Semivolatiles - SW 8270C Units: µg/kg						
1,2,4-Trichlorobenzene	363 U	353 U	358 U	374 U	374 U	357 U
1,2-Dichlorobenzene	363 U	353 U	358 U	374 U	374 U	357 U
1,3-Dichlorobenzene	363 U	353 U	358 U	374 U	374 U	357 U
1,4-Dichlorobenzene	363 U	353 U	358 U	374 U	374 U	357 U
2,4,5-Trichlorophenol	913 U	889 U	901 U	941 U	939 U	897 U

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AOI 469: NORTH HALF OF BUILDING 112,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	G469-SS11-Z1 4/18/00 6 - 7	G469-SS11-Z1/D 4/18/00 6 - 7	G469-SS11-Z2 4/18/00 10 - 12	G469-SS13-Z1 4/21/00 6 - 7	G469-SS13-Z2 4/21/00 10 - 12.5	G469-SS15-Z1 4/19/00 6 - 7
2,4,6-Trichlorophenol		363 U	353 U	358 U	374 U	374 U	357 U
2,4-Dichlorophenol		363 U	353 U	358 U	374 U	374 U	357 U
2,4-Dimethylphenol		363 U	353 U	358 U	374 U	374 U	357 U
2,4-Dinitrophenol		363 U	353 U	358 U	374 U	374 U	357 U
2,4-Dinitrotoluene		363 U	353 U	358 U	374 U	374 U	357 U
2,6-Dinitrotoluene		363 U	353 U	358 U	374 U	374 U	357 U
2-Chloronaphthalene		363 U	353 U	358 U	374 U	374 U	357 U
2-Chlorophenol		363 U	353 U	358 U	374 U	374 U	357 U
2-Methylnaphthalene		363 U	353 U	358 U	374 U	374 U	357 U
2-Methylphenol		363 U	353 U	358 U	374 U	374 U	357 U
2-Nitroaniline		913 U	889 U	901 U	941 U	939 U	897 U
2-Nitrophenol		363 U	353 U	358 U	374 U	374 U	357 U
3,3'-Dichlorobenzidine		726 U	707 U	717 U	748 U	747 U	714 U
3-Nitroaniline		913 U	889 U	901 U	941 U	939 U	897 U
4,6-Dinitro-2-methylphenol		913 U	889 U	901 U	941 U	939 U	897 U
4-Bromophenyl phenyl ether		363 U	353 U	358 U	374 U	374 U	357 U
4-Chloro-3-methylphenol		363 U	353 U	358 U	374 U	374 U	357 U
4-Chloroaniline		363 U	353 U	358 U	374 U	374 U	357 U
4-Chlorophenyl phenyl ether		363 U	353 U	358 U	374 U	374 U	357 U

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YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	G469-SS11-Z1 4/18/00 6 - 7	G469-SS11-Z1/D 4/18/00 6 - 7	G469-SS11-Z2 4/18/00 10 - 12	G469-SS13-Z1 4/21/00 6 - 7	G469-SS13-Z2 4/21/00 10 - 12.5	G469-SS15-Z1 4/19/00 6 - 7
4-Methylphenol		363 U	353 U	358 U	374 U	374 U	357 U
4-Nitroaniline		913 U	889 U	901 U	941 U	939 U	897 U
4-Nitrophenol		913 U	889 U	901 U	941 U	939 U	897 U
Acenaphthene		363 U	353 U	358 U	374 U	374 U	357 U
Acenaphthylene		363 U	353 U	358 U	374 U	374 U	357 U
Anthracene		363 U	353 U	358 U	374 U	374 U	357 U
Benzo(a)anthracene		363 U	44.3 J	358 U	374 U	374 U	357 U
Benzo(a)pyrene		363 U	353 U	358 U	374 U	374 U	357 U
Benzo(b)fluoranthene		363 U	353 U	358 U	374 U	374 U	357 U
Benzo(g,h,i)perylene		363 U	353 U	358 U	374 U	374 U	357 U
Benzo(k)fluoranthene		363 U	353 U	358 U	374 U	374 U	357 U
Benzoic acid		913 U	889 U	901 U	941 U	939 U	897 U
Benzyl alcohol		363 U	353 U	358 U	374 U	374 U	357 U
Bis(2-chloroethoxy)methane		363 U	353 U	358 U	374 U	374 U	357 U
Bis(2-chloroethyl)ether		363 U	353 U	358 U	374 U	374 U	357 U
Bis(2-chloroisopropyl)ether		363 U	353 U	358 U	374 U	374 U	357 U
Bis(2-ethylhexyl)phthalate		363 U	353 U	358 U	374 U	374 U	357 U
Butyl benzyl phthalate		363 U	353 U	358 U	374 U	374 U	122 J
Carbazole		363 U	353 U	358 U	374 U	374 U	357 U

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COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
AOI 469: NORTH HALF OF BUILDING 112,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	G469-SS11-Z1 4/18/00 6 - 7	G469-SS11-Z1/D 4/18/00 6 - 7	G469-SS11-Z2 4/18/00 10 - 12	G469-SS13-Z1 4/21/00 6 - 7	G469-SS13-Z2 4/21/00 10 - 12.5	G469-SS15-Z1 4/19/00 6 - 7
Chrysene		363 U	47.6 J	358 U	374 U	374 U	46.0 J
Di-n-butyl phthalate		363 U	353 U	358 U	374 U	374 U	357 U
Di-n-octyl phthalate		363 U	353 U	358 U	374 U	374 U	357 U
Dibenz(a,h)anthracene		363 U	353 U	358 U	374 U	374 U	357 U
Dibenzofuran		363 U	353 U	358 U	374 U	374 U	357 U
Diethyl phthalate		363 U	353 U	358 U	374 U	374 U	357 U
Dimethyl phthalate		363 U	353 U	358 U	374 U	374 U	357 U
Fluoranthene		363 U	119 J	358 U	374 U	374 U	65.7 J
Fluorene		363 U	353 U	358 U	374 U	374 U	357 U
Hexachlorobenzene		363 U	353 U	358 U	374 U	374 U	357 U
Hexachlorobutadiene		363 U	353 U	358 U	374 U	374 U	357 U
Hexachlorocyclopentadiene		913 U	889 U	901 U	941 U	939 U	897 U
Hexachloroethane		363 U	353 U	358 U	374 U	374 U	357 U
Indeno(1,2,3-cd)pyrene		363 U	353 U	358 U	374 U	374 U	357 U
Isophorone		363 U	353 U	358 U	374 U	374 U	357 U
N-Nitrosodi-n-propylamine		363 U	353 U	358 U	374 U	374 U	357 U
N-Nitrosodimethylamine		363 U	353 U	358 U	374 U	374 U	357 U
N-Nitrosodiphenylamine		363 U	353 U	358 U	374 U	374 U	357 U
Naphthalene		363 U	353 U	358 U	374 U	374 U	357 U

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AOI 469: NORTH HALF OF BUILDING 112,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	G469-SS11-Z1 4/18/00 6 - 7	G469-SS11-Z1/D 4/18/00 6 - 7	G469-SS11-Z2 4/18/00 10 - 12	G469-SS13-Z1 4/21/00 6 - 7	G469-SS13-Z2 4/21/00 10 - 12.5	G469-SS15-Z1 4/19/00 6 - 7
Nitrobenzene		363 U	353 U	358 U	374 U	374 U	357 U
Pentachlorophenol		913 U	889 U	901 U	941 U	939 U	897 U
Phenanthrene		363 U	65.5 J	358 U	374 U	374 U	44.9 J
Phenol		363 U	353 U	358 U	374 U	374 U	357 U
Pyrene		363 U	99.9 J	358 U	374 U	374 U	67.9 J
Test : Semivolatiles - SW 8270C - Surrogates Units: %							
2,4,6-Tribromophenol-s		95	87	135	122	106	76
2-Fluorobiphenyl-s		81	84	89	91	82	68
2-Fluorophenol-s		71	75	92	92	90	72
Nitrobenzene-d5-s		73	81	81	88	82	71
Phenol-d5-s		77	88	90	91	92	81
Terphenyl-d14-s		65	93	71	75	69	57
Test : TAL Metals - SW6010B/7471A/7470A Units: mg/kg							
Aluminum		9570	9550	9570	7890	9270	9700
Antimony		0.595 U	0.928 U	0.776 U	1.28	1.64	0.969 U
Arsenic		0.595 U	0.928 U	0.776 U	4.72	5.93	0.969 U
Barium		46.5	31.1	31.8	32.7	34.1	43.7
Beryllium		0.525	0.481	0.424	0.337 J	0.354 J	0.549
Cadmium		1.66	1.67	2.56	0.419 U	0.395 U	2.30

Table C-6
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
AOI 469: NORTH HALF OF BUILDING 112,
EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME

PARAMETER	Sample ID:	G469-SS11-Z1	G469-SS11-Z1/D	G469-SS11-Z2	G469-SS13-Z1	G469-SS13-Z2	G469-SS15-Z1
	Sample Date:	4/18/00	4/18/00	4/18/00	4/21/00	4/21/00	4/19/00
	Depth (ft):	6 - 7	6 - 7	10 - 12	6 - 7	10 - 12.5	6 - 7
Calcium		4270	3250	2000	2530	2510	1650
Chromium		13.0	12.4	17.0	10.9	13.8	13.6
Cobalt		7.15	7.26	8.07	5.46	6.68	7.82
Copper		30.9 UJ	30.5 UJ	34.7 UJ	28.7	37.1	50.2
Iron		20500	20200	32300	20300	25300	27100
Lead		13.6	11.0	6.75	11.0	10.0	7.14
Magnesium		3770	3800	4030	3240	4580	4450
Manganese		809	823	848	1030	1240	1400
Mercury		0.0590	0.0363	0.041 J	0.0168 J	0.0288 U	0.0403
Nickel		15.6	15.3	18.1	14.3	18.3	19.1
Potassium		525	575	649	882	1160	959
Selenium		0.595 UR	0.928 UR	0.776 UR	0.838 U	0.789 U	0.969 U
Silver		0.595 UR	0.928 UR	0.776 UR	0.838 U	0.789 U	0.969 U
Sodium		36.4 J	92.8 U	27.2 J	83.8 U	78.9 U	28.6 J
Thallium		0.595 UR	0.928 UR	0.776 UR	1.17	1.63	0.969 U
Vanadium		19.5	20.5	22.6	18.5	21.7	20.5
Zinc		59.9	57.1	84.3	47.3	64.6	99.6
Test : TRPH - 418.1M Units: mg/kg							
Petroleum Hydrocarbons, TR		452 UJ	453 UJ	434 UJ	456 U	455 U	442 U

Table C-6
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
AOI 469: NORTH HALF OF BUILDING 112,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	G469-SS15-Z1/D 4/19/00 6 - 7	G469-SS15-Z2 4/19/00 10 - 11	G469-SS17-Z1 4/19/00 6 - 7	G469-SS17-Z1/D 4/19/00 6 - 7	G469-SS17-Z2 4/19/00 10 - 11	G469-SS19-Z1 4/19/00 6 - 7
Test : PCBs - SW 8082		Units: mg/kg					
Aroclor 1016		0.0214 U	0.0219 U	0.0215 U	0.0214 U	0.0217 U	0.0227 U
Aroclor 1221		0.0428 U	0.0438 U	0.0431 U	0.0429 U	0.0433 U	0.0455 U
Aroclor 1232		0.0214 U	0.0219 U	0.0215 U	0.0214 U	0.0217 U	0.0227 U
Aroclor 1242		0.0214 U	0.0219 U	0.0215 U	0.0214 U	0.0217 U	0.0227 U
Aroclor 1248		0.0214 U	0.0219 U	0.0215 U	0.0214 U	0.0217 U	0.0227 U
Aroclor 1254		0.0214 U	0.0219 U	0.0215 U	0.0214 U	0.0217 U	0.0227 U
Aroclor 1260		0.0214 U	0.0280	0.0215 U	0.0214 U	0.0217 U	0.0227 U
Test : PCBs - SW 8082 - Surrogates		Units: %					
Decachlorobiphenyl-s		82 %	76 %	57 %	75 %	76 %	80 %
Tetrachloro-m-xylene-s		77 %	71 %	52 %	71 %	70 %	74 %
Test : Percent Moisture - D2216		Units: %					
Percent Moisture		9.09	10.0	7.15	7.85	8.77	12.9
Test : Semivolatiles - SW 8270C		Units: µg/kg					
1,2,4-Trichlorobenzene		360 U	363 U	348 U	351 U	353 U	366 U
1,2-Dichlorobenzene		360 U	363 U	348 U	351 U	353 U	366 U
1,3-Dichlorobenzene		360 U	363 U	348 U	351 U	353 U	366 U
1,4-Dichlorobenzene		360 U	363 U	348 U	351 U	353 U	366 U
2,4,5-Trichlorophenol		906 U	913 U	876 U	884 U	888 U	922 U

Table C-6
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
AOI 469: NORTH HALF OF BUILDING 112,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft): G469-SS15-Z1/D 4/19/00 6 - 7	G469-SS15-Z2 4/19/00 10 - 11	G469-SS17-Z1 4/19/00 6 - 7	G469-SS17-Z1/D 4/19/00 6 - 7	G469-SS17-Z2 4/19/00 10 - 11	G469-SS19-Z1 4/19/00 6 - 7
2,4,6-Trichlorophenol	360 U	363 U	348 U	351 U	353 U	366 U
2,4-Dichlorophenol	360 U	363 U	348 U	351 U	353 U	366 U
2,4-Dimethylphenol	360 U	363 U	348 U	351 U	353 U	366 U
2,4-Dinitrophenol	360 U	363 U	348 U	351 U	353 U	366 U
2,4-Dinitrotoluene	360 U	363 U	348 U	351 U	353 U	366 U
2,6-Dinitrotoluene	360 U	363 U	348 U	351 U	353 U	366 U
2-Chloronaphthalene	360 U	363 U	348 U	351 U	353 U	366 U
2-Chlorophenol	360 U	363 U	348 U	351 U	353 U	366 U
2-Methylnaphthalene	360 U	363 U	348 U	351 U	353 U	366 U
2-Methylphenol	360 U	363 U	348 U	351 U	353 U	366 U
2-Nitroaniline	906 U	913 U	876 U	884 U	888 U	922 U
2-Nitrophenol	360 U	363 U	348 U	351 U	353 U	366 U
3,3'-Dichlorobenzidine	721 U	726 U	696 U	703 U	706 U	733 U
3-Nitroaniline	906 U	913 U	876 U	884 U	888 U	922 U
4,6-Dinitro-2-methylphenol	906 U	913 U	876 U	884 U	888 U	922 U
4-Bromophenyl phenyl ether	360 U	363 U	348 U	351 U	353 U	366 U
4-Chloro-3-methylphenol	360 U	363 U	348 U	351 U	353 U	366 U
4-Chloroaniline	360 U	363 U	348 U	351 U	353 U	366 U
4-Chlorophenyl phenyl ether	360 U	363 U	348 U	351 U	353 U	366 U

Table C-6
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
AOI 469: NORTH HALF OF BUILDING 112,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	G469-SS15-Z1/D 4/19/00 6 - 7	G469-SS15-Z2 4/19/00 10 - 11	G469-SS17-Z1 4/19/00 6 - 7	G469-SS17-Z1/D 4/19/00 6 - 7	G469-SS17-Z2 4/19/00 10 - 11	G469-SS19-Z1 4/19/00 6 - 7
4-Methylphenol		360 U	363 U	348 U	351 U	353 U	366 U
4-Nitroaniline		906 U	913 U	876 U	884 U	888 U	922 U
4-Nitrophenol		906 U	913 U	876 U	884 U	888 U	922 U
Acenaphthene		360 U	363 U	348 U	351 U	353 U	366 U
Acenaphthylene		360 U	363 U	348 U	351 U	353 U	366 U
Anthracene		360 U	363 U	348 U	351 U	353 U	366 U
Benzo(a)anthracene		360 U	363 U	348 U	351 U	353 U	366 U
Benzo(a)pyrene		360 U	363 U	348 U	351 U	353 U	366 U
Benzo(b)fluoranthene		360 U	363 U	348 U	351 U	353 U	366 U
Benzo(g,h,i)perylene		360 U	363 U	348 U	351 U	353 U	366 U
Benzo(k)fluoranthene		360 U	363 U	348 U	351 U	353 U	366 U
Benzoic acid		906 U	913 U	876 U	884 U	888 U	922 U
Benzyl alcohol		360 U	363 U	348 U	351 U	353 U	366 U
Bis(2-chloroethoxy)methane		360 U	363 U	348 U	351 U	353 U	366 U
Bis(2-chloroethyl)ether		360 U	363 U	348 U	351 U	353 U	366 U
Bis(2-chloroisopropyl)ether		360 U	363 U	348 U	351 U	353 U	366 U
Bis(2-ethylhexyl)phthalate		128 J	87.5 J	309 J	287 J	220 J	366 U
Butyl benzyl phthalate		360 U	363 U	348 U	351 U	353 U	366 U
Carbazole		360 U	363 U	348 U	351 U	353 U	366 U

Table C-6
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
AOI 469: NORTH HALF OF BUILDING 112,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft): G469-SS15-Z1/D 4/19/00 6 - 7	G469-SS15-Z2 4/19/00 10 - 11	G469-SS17-Z1 4/19/00 6 - 7	G469-SS17-Z1/D 4/19/00 6 - 7	G469-SS17-Z2 4/19/00 10 - 11	G469-SS19-Z1 4/19/00 6 - 7
Chrysene	360 U	363 U	348 U	351 U	353 U	366 U
Di-n-butyl phthalate	360 U	363 U	348 U	351 U	353 U	366 U
Di-n-octyl phthalate	360 U	363 U	348 U	351 U	353 U	366 U
Dibenz(a,h)anthracene	360 U	363 U	348 U	351 U	353 U	366 U
Dibenzofuran	360 U	363 U	348 U	351 U	353 U	366 U
Diethyl phthalate	360 U	363 U	348 U	351 U	353 U	366 U
Dimethyl phthalate	360 U	363 U	348 U	351 U	353 U	366 U
Fluoranthene	360 U	363 U	348 U	351 U	353 U	62.6 J
Fluorene	360 U	363 U	348 U	351 U	353 U	366 U
Hexachlorobenzene	360 U	363 U	348 U	351 U	353 U	366 U
Hexachlorobutadiene	360 U	363 U	348 U	351 U	353 U	366 U
Hexachlorocyclopentadiene	906 U	913 U	876 U	884 U	888 U	922 U
Hexachloroethane	360 U	363 U	348 U	351 U	353 U	366 U
Indeno(1,2,3-cd)pyrene	360 U	363 U	348 U	351 U	353 U	366 U
Isophorone	360 U	363 U	348 U	351 U	353 U	366 U
N-Nitrosodi-n-propylamine	360 U	363 U	348 U	351 U	353 U	366 U
N-Nitrosodimethylamine	360 U	363 U	348 U	351 U	353 U	366 U
N-Nitrosodiphenylamine	360 U	363 U	348 U	351 U	353 U	366 U
Naphthalene	360 U	363 U	348 U	351 U	353 U	366 U

Table C-6
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
AOI 469: NORTH HALF OF BUILDING 112,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	G469-SS15-Z1/D 4/19/00 6 - 7	G469-SS15-Z2 4/19/00 10 - 11	G469-SS17-Z1 4/19/00 6 - 7	G469-SS17-Z1/D 4/19/00 6 - 7	G469-SS17-Z2 4/19/00 10 - 11	G469-SS19-Z1 4/19/00 6 - 7
Nitrobenzene		360 U	363 U	348 U	351 U	353 U	366 U
Pentachlorophenol		906 U	913 U	876 U	884 U	888 U	922 U
Phenanthrene		360 U	363 U	348 U	351 U	353 U	366 U
Phenol		360 U	363 U	348 U	351 U	353 U	366 U
Pyrene		360 U	363 U	348 U	351 U	353 U	44.7 J
Test : Semivolatiles - SW 8270C - Surrogates Units: %							
2,4,6-Tribromophenol-s		101	93	103	84	91	68
2-Fluorobiphenyl-s		83	78	80	70	77	83
2-Fluorophenol-s		86	87	83	75	83	78
Nitrobenzene-d5-s		98	89	94	79	85	94
Phenol-d5-s		104	96	102	85	94	99
Terphenyl-d14-s		64	61	61	56	61	66
Test : TAL Metals - SW6010B/7471A/7470A Units: mg/kg							
Aluminum		9730	7450	8880	9310	5350	10900
Antimony		0.786 U	0.958 U	0.738 U	0.571 U	0.616 U	0.844 U
Arsenic		0.879	0.958 U	0.418 J	0.351 J	0.616 U	0.844 U
Barium		35.7	20.5	22.3	23.7	16.0	31.3
Beryllium		0.505	0.459 J	0.455	0.490	0.316	0.552
Cadmium		1.95	1.51	1.63	1.76	1.12	1.85

Table C-6
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
AOI 469: NORTH HALF OF BUILDING 112,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	G469-SS15-Z1/D 4/19/00 6 - 7	G469-SS15-Z2 4/19/00 10 - 11	G469-SS17-Z1 4/19/00 6 - 7	G469-SS17-Z1/D 4/19/00 6 - 7	G469-SS17-Z2 4/19/00 10 - 11	G469-SS19-Z1 4/19/00 6 - 7
Calcium		1950	1720	1400	1190	1070	1680
Chromium		12.6	10.2	11.1	11.1	7.89	12.4
Cobalt		7.75	6.15	6.44	6.53	4.70	6.46
Copper		45.9	28.7	25.3	34.9	18.6	29.1
Iron		23200	18500	19300	21100	13900	22100
Lead		7.75	6.09	7.23	6.48	4.94	6.74
Magnesium		4190	3650	3550	3640	2340	3440
Manganese		1030	516	724	1020	334	620
Mercury		0.0304 J	0.0155 J	0.0465	0.0265 J	0.0111 J	0.0289 J
Nickel		17.1	14.4	13.9	14.8	11.1	15.4
Potassium		812	908	681	634	661	713
Selenium		0.786 U	0.958 U	0.738 U	0.571 U	0.616 U	0.844 U
Silver		0.786 U	0.958 U	0.738 U	0.571 U	0.616 U	0.844 U
Sodium		29.0 J	35.2 J	25.8 J	27.9 J	22.0 J	29.9 J
Thallium		0.786 U	0.958 U	0.738 U	0.571 U	0.616 U	0.844 U
Vanadium		19.2	15.0	16.8	17.5	11.6	22.0
Zinc		76.5	50.6	49.9	54.7	35.0	56.5
Test : TRPH - 418.1M							
Units: mg/kg							
Petroleum Hydrocarbons, TR		440 U	444 U	431 U	434 U	438 U	459 U

Table C-6
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
AOI 469: NORTH HALF OF BUILDING 112,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	G469-SS19-Z2 4/19/00 12 - 13	G469-SS19-Z2/D 4/19/00 12 - 13	G469-SS20-Z1 4/19/00 0 - 0.17	G469-SS20-Z2 4/19/00 2 - 4	G469-SS20-Z3 4/19/00 4 - 6	G469-SS20-Z4 4/19/00 6 - 8
Test : PCBs - SW 8082		Units: mg/kg					
Aroclor 1016		0.022 U	0.0217 U	2.420 U	1.110 U	0.106 U	0.0444 U
Aroclor 1221		0.0439 U	0.0434 U	4.840 U	2.230 U	0.212 U	0.0888 U
Aroclor 1232		0.022 U	0.0217 U	2.420 U	1.110 U	0.106 U	0.0444 U
Aroclor 1242		0.022 U	0.0217 U	2.420 U	1.110 U	0.106 U	0.0444 U
Aroclor 1248		0.022 U	0.0217 U	2.420 U	1.110 U	0.106 U	0.0444 U
Aroclor 1254		0.022 U	0.0217 U	2.420 U	1.110 U	0.106 U	0.0444 U
Aroclor 1260		0.0160 J	0.0162 J	12.400	3.880	0.370	0.364
Test : PCBs - SW 8082 - Surrogates		Units: %					
Decachlorobiphenyl-s		78 %	80 %	0 %	0 %	50 %	94 %
Tetrachloro-m-xylene-s		73 %	76 %	0 %	0 %	37 %	65 %
Test : Percent Moisture - D2216		Units: %					
Percent Moisture		9.41	11.1	21.5	11.6	7.87	10.5
Test : Semivolatiles -SW 8270C		Units: µg/kg					
1,2,4-Trichlorobenzene		355 U	365 U	413 U	370 U	356 U	364 U
1,2-Dichlorobenzene		355 U	365 U	413 U	370 U	356 U	364 U
1,3-Dichlorobenzene		355 U	365 U	413 U	370 U	356 U	364 U
1,4-Dichlorobenzene		355 U	365 U	413 U	370 U	356 U	364 U
2,4,5-Trichlorophenol		892 U	917 U	1040 U	931 U	896 U	917 U

Table C-6
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
AOI 469: NORTH HALF OF BUILDING 112,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	G469-SS19-Z2 4/19/00 12 - 13	G469-SS19-Z2/D 4/19/00 12 - 13	G469-SS20-Z1 4/19/00 0 - 0.17	G469-SS20-Z2 4/19/00 2 - 4	G469-SS20-Z3 4/19/00 4 - 6	G469-SS20-Z4 4/19/00 6 - 8
2,4,6-Trichlorophenol		355 U	365 U	413 U	370 U	356 U	364 U
2,4-Dichlorophenol		355 U	365 U	413 U	370 U	356 U	364 U
2,4-Dimethylphenol		355 U	365 U	413 U	370 U	356 U	364 U
2,4-Dinitrophenol		355 U	365 U	413 U	370 U	356 U	364 U
2,4-Dinitrotoluene		355 U	365 U	413 U	370 U	356 U	364 U
2,6-Dinitrotoluene		355 U	365 U	413 U	370 U	356 U	364 U
2-Chloronaphthalene		355 U	365 U	413 U	370 U	356 U	364 U
2-Chlorophenol		355 U	365 U	413 U	370 U	356 U	364 U
2-Methylnaphthalene		355 U	365 U	413 U	370 U	356 U	364 U
2-Methylphenol		355 U	365 U	413 U	370 U	356 U	364 U
2-Nitroaniline		892 U	917 U	1040 U	931 U	896 U	917 U
2-Nitrophenol		355 U	365 U	413 U	370 U	356 U	364 U
3,3'-Dichlorobenzidine		709 U	730 U	826 U	740 U	713 U	729 U
3-Nitroaniline		892 U	917 U	1040 U	931 U	896 U	917 U
4,6-Dinitro-2-methylphenol		892 U	917 U	1040 U	931 U	896 U	917 U
4-Bromophenyl phenyl ether		355 U	365 U	413 U	370 U	356 U	364 U
4-Chloro-3-methylphenol		355 U	365 U	413 U	370 U	356 U	364 U
4-Chloroaniline		355 U	365 U	413 U	370 U	356 U	364 U
4-Chlorophenyl phenyl ether		355 U	365 U	413 U	370 U	356 U	364 U

Table C-6
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
AOI 469: NORTH HALF OF BUILDING 112,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	G469-SS19-Z2 4/19/00 12 - 13	G469-SS19-Z2/D 4/19/00 12 - 13	G469-SS20-Z1 4/19/00 0 - 0.17	G469-SS20-Z2 4/19/00 2 - 4	G469-SS20-Z3 4/19/00 4 - 6	G469-SS20-Z4 4/19/00 6 - 8
4-Methylphenol		355 U	365 U	413 U	370 U	356 U	364 U
4-Nitroaniline		892 U	917 U	1040 U	931 U	896 U	917 U
4-Nitrophenol		892 U	917 U	1040 U	931 U	896 U	917 U
Acenaphthene		53.0 J	365 U	99.4 J	370 U	356 U	364 U
Acenaphthylene		355 U	365 U	413 U	370 U	356 U	364 U
Anthracene		105 J	365 U	137 J	370 U	356 U	364 U
Benzo(a)anthracene		266 J	365 U	424	370 U	356 U	60.3 J
Benzo(a)pyrene		168 J	365 U	304 J	370 UJ	356 U	74.6 J
Benzo(b)fluoranthene		197 J	365 U	402 J	370 UJ	356 U	93.6 J
Benzo(g,h,i)perylene		355 U	365 U	131 J	370 UJ	356 U	364 U
Benzo(k)fluoranthene		186 J	365 U	488 J	370 UJ	356 U	76.0 J
Benzoic acid		892 U	917 U	1040 U	931 U	896 U	917 U
Benzyl alcohol		355 U	365 U	413 U	370 U	356 U	364 U
Bis(2-chloroethoxy)methane		355 U	365 U	413 U	370 U	356 U	364 U
Bis(2-chloroethyl)ether		355 U	365 U	413 U	370 U	356 U	364 U
Bis(2-chloroisopropyl)ether		355 U	365 U	413 U	370 U	356 U	364 U
Bis(2-ethylhexyl)phthalate		355 U	68.7 J	413 U	370 U	356 U	364 U
Butyl benzyl phthalate		355 U	365 U	413 U	370 U	356 U	364 U
Carbazole		84.5 J	365 U	170 J	370 U	356 U	364 U

Table C-6
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
AOI 469: NORTH HALF OF BUILDING 112,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	G469-SS19-Z2 4/19/00 12 - 13	G469-SS19-Z2/D 4/19/00 12 - 13	G469-SS20-Z1 4/19/00 0 - 0.17	G469-SS20-Z2 4/19/00 2 - 4	G469-SS20-Z3 4/19/00 4 - 6	G469-SS20-Z4 4/19/00 6 - 8
Chrysene		285 J	365 U	572	370 U	356 U	67.6 J
Di-n-butyl phthalate		355 U	365 U	413 UJ	370 U	356 U	364 U
Di-n-octyl phthalate		355 U	365 U	413 U	370 U	356 U	364 U
Dibenz(a,h)anthracene		355 U	365 U	73.5 J	370 UJ	356 U	364 U
Dibenzofuran		355 U	365 U	413 U	370 U	356 U	364 U
Diethyl phthalate		355 U	365 U	413 U	370 U	356 U	364 U
Dimethyl phthalate		355 U	365 U	413 U	370 U	356 U	364 U
Fluoranthene		674	365 U	656 J	370 U	356 U	56.9 J
Fluorene		355 U	365 U	49.2 J	370 U	356 U	364 U
Hexachlorobenzene		355 U	365 U	413 UJ	370 U	356 U	364 U
Hexachlorobutadiene		355 U	365 U	413 U	370 U	356 U	364 U
Hexachlorocyclopentadiene		892 U	917 U	1040 U	931 U	896 U	917 U
Hexachloroethane		355 U	365 U	413 U	370 U	356 U	364 U
Indeno(1,2,3-cd)pyrene		64.3 J	365 U	128 J	370 U	356 U	364 U
Isophorone		355 U	365 U	413 U	370 U	356 U	364 U
N-Nitrosodi-n-propylamine		355 U	365 U	413 U	370 U	356 U	364 U
N-Nitrosodimethylamine		355 U	365 U	413 U	370 U	356 U	364 U
N-Nitrosodiphenylamine		355 U	365 U	413 UJ	370 U	356 U	364 U
Naphthalene		355 U	365 U	413 U	370 U	356 U	364 U

Table C-6
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
AOI 469: NORTH HALF OF BUILDING 112,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	G469-SS19-Z2 4/19/00 12 - 13	G469-SS19-Z2/D 4/19/00 12 - 13	G469-SS20-Z1 4/19/00 0 - 0.17	G469-SS20-Z2 4/19/00 2 - 4	G469-SS20-Z3 4/19/00 4 - 6	G469-SS20-Z4 4/19/00 6 - 8
Nitrobenzene		355 U	365 U	413 U	370 U	356 U	364 U
Pentachlorophenol		892 U	917 U	1040 UJ	931 U	896 U	917 U
Phenanthrene		413	365 U	844 J	370 U	356 U	364 U
Phenol		355 U	365 U	413 U	370 U	356 U	364 U
Pyrene		484	365 U	441	370 U	356 U	52.3 J
Test : Semivolatiles - SW 8270C - Surrogates Units: %							
2,4,6-Tribromophenol-s		62	91	72	30	89	65
2,4-Dibromobiphenyl-s		75	77	71	55	81	72
2-Fluorophenol-s		69	85	75	93	86	69
Nitrobenzene-d5-s		89	84	76	98	92	82
Phenol-d5-s		96	92	90	105	100	91
Terphenyl-d14-s		65	62	37	32	61	55
Test : TAL Metals - SW6010B/7471A/7470A Units: mg/kg							
Aluminum		7250	7560	15800	9840	11600	9280
Antimony		0.593 U	0.74 U	0.951 U	0.665 U	0.92 U	0.707 U
Arsenic		0.593 U	0.74 U	0.951 U	0.665 U	0.92 U	0.707 U
Barium		19.4	20.4	67.3	26.2	18.2	20.9
Beryllium		0.410	0.423	0.966	0.532	0.499	0.453
Cadmium		1.52	1.60	3.39	1.87	1.76	1.66

Table C-6
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
AOI 469: NORTH HALF OF BUILDING 112,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	G469-SS19-Z2 4/19/00 12 - 13	G469-SS19-Z2/D 4/19/00 12 - 13	G469-SS20-Z1 4/19/00 0 - 0.17	G469-SS20-Z2 4/19/00 2 - 4	G469-SS20-Z3 4/19/00 4 - 6	G469-SS20-Z4 4/19/00 6 - 8
Calcium		2050	2000	2940	1580	859	1070
Chromium		10.2	10.6	23.0	11.9	13.2	11.5
Cobalt		6.14	6.36	14.2	6.44	7.05	6.22
Copper		28.3	28.5	50.8	30.0	39.7	32.0
Iron		18200	19800	31700	21100	20900	19000
Lead		6.89	6.81	82.4	7.44	6.06	5.87
Magnesium		3640	3840	6040	3770	4070	3750
Manganese		472	496	1040	973	463	697
Mercury		0.0116 J	0.00878 J	0.107	0.0364	0.0345 J	0.0229 J
Nickel		14.5	15.0	27.9	13.7	18.2	14.5
Potassium		767	854	1140	623	742	714
Selenium		0.593 U	0.74 U	0.951 U	0.665 U	0.92 U	0.707 U
Silver		0.593 U	0.74 U	0.951 U	0.665 U	0.92 U	0.707 U
Sodium		33.2 J	37.5 J	34.6 J	29.1 J	92 U	29.7 J
Thallium		0.593 U	0.74 U	0.951 U	0.665 U	0.92 U	0.707 U
Vanadium		15.8	15.9	30.0	18.8	18.6	16.4
Zinc		52.2	52.1	92.5	53.2	56.0	49.8
Test : TRPH - 418.1M							
Units: mg/kg							
Petroleum Hydrocarbons, TR		442 U	450 U	510 U	374 J	434 U	447 U

Table C-6
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
AOI 469: NORTH HALF OF BUILDING 112,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

Sample ID: Sample Date: Depth (ft):	G469-SS20-Z5 4/19/00 8 - 10	G469-SS20-Z6 4/19/00 10 - 12	G469-SS21-Z1 4/20/00 8 - 9	G469-SS21-Z2 4/20/00 12 - 13	G469-SS22-Z1 4/20/00 5 - 7	G469-SS22-Z2 4/20/00 10 - 12
PARAMETER						
Test : PCBs - SW 8082						
	Units: mg/kg					
Aroclor 1016	0.0216 U	0.0222 U	0.0225 U	0.450 U	0.0217 U	0.022 U
Aroclor 1221	0.0432 U	0.0443 U	0.045 U	0.900 U	0.0433 U	0.0439 U
Aroclor 1232	0.0216 U	0.0222 U	0.0225 U	0.450 U	0.0217 U	0.022 U
Aroclor 1242	0.0216 U	0.0222 U	0.0225 U	0.450 U	0.0217 U	0.022 U
Aroclor 1248	0.0216 U	0.0222 U	0.0225 U	0.450 U	0.0217 U	0.022 U
Aroclor 1254	0.0216 U	0.0222 U	0.0225 U	0.450 U	0.0217 U	0.022 U
Aroclor 1260	0.0104 J	0.0162 J	0.0225 U	2.240	0.0217 U	0.0144 J
Test : PCBs - SW 8082 - Surrogates						
	Units: %					
Decachlorobiphenyl-s	76 %	87 %	81 %	99 %	98 %	72 %
Tetrachloro-m-xylenc-s	71 %	73 %	77 %	73 %	102 %	72 %
Test : Percent Moisture - D2216						
	Units: %					
Percent Moisture	8.29	9.73	12.3	12.9	8.49	10.0
Test : Semivolatiles - SW 8270C						
	Units: µg/kg					
1,2,4-Trichlorobenzene	358 U	361 U	365 U	371 U	358 U	366 U
1,2-Dichlorobenzene	358 U	361 U	365 U	371 U	358 U	366 U
1,3-Dichlorobenzene	358 U	361 U	365 U	371 U	358 U	366 U
1,4-Dichlorobenzene	358 U	361 U	365 U	371 U	358 U	366 U
2,4,5-Trichlorophenol	901 U	909 U	918 U	933 U	900 U	919 U

Table C-6
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
AOI 469: NORTH HALF OF BUILDING 112,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft): G469-SS20-Z5 4/19/00 8 - 10	G469-SS20-Z6 4/19/00 10 - 12	G469-SS21-Z1 4/20/00 8 - 9	G469-SS21-Z2 4/20/00 12 - 13	G469-SS22-Z1 4/20/00 5 - 7	G469-SS22-Z2 4/20/00 10 - 12
2,4,6-Trichlorophenol	358 U	361 U	365 U	371 U	358 U	366 U
2,4-Dichlorophenol	358 U	361 U	365 U	371 U	358 U	366 U
2,4-Dimethylphenol	358 U	361 U	365 U	371 U	358 U	366 U
2,4-Dinitrophenol	358 U	361 U	365 U	371 U	358 U	366 U
2,4-Dinitrotoluene	358 U	361 U	365 U	371 U	358 U	366 U
2,6-Dinitrotoluene	358 U	361 U	365 U	371 U	358 U	366 U
2-Chloronaphthalene	358 U	361 U	365 U	371 U	358 U	366 U
2-Chlorophenol	358 U	361 U	365 U	371 U	358 U	366 U
2-Methylnaphthalene	358 U	361 U	365 U	371 U	358 U	366 U
2-Methylphenol	358 U	361 U	365 U	371 U	358 U	366 U
2-Nitroaniline	901 U	909 U	918 U	933 U	900 U	919 U
2-Nitrophenol	358 U	361 U	365 U	371 U	358 U	366 U
3,3'-Dichlorobenzidine	716 U	722 U	730 U	742 U	716 U	731 U
3-Nitroaniline	901 U	909 U	918 U	933 U	900 U	919 U
4,6-Dinitro-2-methylphenol	901 U	909 U	918 U	933 U	900 U	919 U
4-Bromophenyl phenyl ether	358 U	361 U	365 U	371 U	358 U	366 U
4-Chloro-3-methylphenol	358 U	361 U	365 U	371 U	358 U	366 U
4-Chloroaniline	358 U	361 U	365 U	371 U	358 U	366 U
4-Chlorophenyl phenyl ether	358 U	361 U	365 U	371 U	358 U	366 U

Table C-6
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
AOI 469: NORTH HALF OF BUILDING 112,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	G469-SS20-Z5 4/19/00 8 - 10	G469-SS20-Z6 4/19/00 10 - 12	G469-SS21-Z1 4/20/00 8 - 9	G469-SS21-Z2 4/20/00 12 - 13	G469-SS22-Z1 4/20/00 5 - 7	G469-SS22-Z2 4/20/00 10 - 12
4-Methylphenol		358 U	361 U	365 U	371 U	358 U	366 U
4-Nitroaniline		901 U	909 U	918 U	933 U	900 U	919 U
4-Nitrophenol		901 U	909 U	918 U	933 U	900 U	919 U
Acenaphthene		358 U	361 U	365 U	371 U	358 U	47.0 J
Acenaphthylene		358 U	361 U	365 U	371 U	358 U	366 U
Anthracene		358 U	361 U	365 U	371 U	358 U	115 J
Benz(a)anthracene		358 U	361 U	365 U	371 U	358 U	587 J
Benzo(a)pyrene		358 U	361 U	365 U	371 U	358 U	477
Benzo(b)fluoranthene		358 U	361 U	365 U	371 U	358 U	411
Benzo(g,h,i)perylene		358 U	361 U	365 U	371 U	358 U	163 J
Benzo(k)fluoranthene		358 U	361 U	365 U	371 U	358 U	535
Benzoic acid		901 U	909 U	918 U	933 U	900 U	919 U
Benzyl alcohol		358 U	361 U	365 U	371 U	358 U	366 U
Bis(2-chloroethoxy)methane		358 U	361 U	365 U	371 U	358 U	366 U
Bis(2-chloroethyl)ether		358 U	361 U	365 U	371 U	358 U	366 U
Bis(2-chloroisopropyl)ether		358 U	361 U	365 U	371 U	358 U	366 U
Bis(2-ethylhexyl)phthalate		358 U	361 U	98.7 J	371 U	67.3 J	366 U
Butyl benzyl phthalate		358 U	361 U	365 U	371 U	358 U	366 U
Carbazole		358 U	361 U	365 U	371 U	358 U	366 U

Table C-6
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
AOI 469: NORTH HALF OF BUILDING 112,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft): G469-SS20-Z5 4/19/00 8 - 10	G469-SS20-Z6 4/19/00 10 - 12	G469-SS21-Z1 4/20/00 8 - 9	G469-SS21-Z2 4/20/00 12 - 13	G469-SS22-Z1 4/20/00 5 - 7	G469-SS22-Z2 4/20/00 10 - 12
Chrysene	358 U	361 U	365 U	371 U	358 U	723
Di-n-butyl phthalate	358 U	361 U	365 U	371 U	358 U	366 U
Di-n-octyl phthalate	358 U	361 U	365 U	371 U	358 U	366 U
Dibenz(a,h)anthracene	358 U	361 U	365 U	371 U	358 U	90.2 J
Dibenzofuran	358 U	361 U	365 U	371 U	358 U	366 U
Diethyl phthalate	358 U	361 U	365 U	371 U	358 U	366 U
Dimethyl phthalate	358 U	361 U	365 U	371 U	358 U	366 U
Fluoranthene	358 U	361 U	365 U	371 U	358 U	933
Fluorene	358 U	361 U	365 U	371 U	358 U	109 J
Hexachlorobenzene	358 U	361 U	365 U	371 U	358 U	366 U
Hexachlorobutadiene	358 U	361 U	365 U	371 U	358 U	366 U
Hexachlorocyclopentadiene	901 U	909 U	918 U	933 U	900 U	919 U
Hexachloroethane	358 U	361 U	365 U	371 U	358 U	366 U
Indeno(1,2,3-cd)pyrene	358 U	361 U	365 U	371 U	358 U	104 J
Isophorone	358 U	361 U	365 U	371 U	358 U	366 U
N-Nitrosodi-n-propylamine	358 U	361 U	365 U	371 U	358 U	366 U
N-Nitrosodimethylamine	358 U	361 U	365 U	371 U	358 U	366 U
N-Nitrosodiphenylamine	358 U	361 U	365 U	371 U	358 U	366 U
Naphthalene	358 U	361 U	365 U	371 U	358 U	366 U

Table C-6
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
AOI 469: NORTH HALF OF BUILDING 112,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	G469-SS20-Z5 4/19/00 8 - 10	G469-SS20-Z6 4/19/00 10 - 12	G469-SS21-Z1 4/20/00 8 - 9	G469-SS21-Z2 4/20/00 12 - 13	G469-SS22-Z1 4/20/00 5 - 7	G469-SS22-Z2 4/20/00 10 - 12
Nitrobenzene		358 U	361 U	365 U	371 U	358 U	366 U
Pentachlorophenol		901 U	909 U	918 U	933 U	900 U	919 U
Phenanthrene		358 U	361 U	365 U	371 U	358 U	742
Phenol		358 U	361 U	365 U	371 U	358 U	366 U
Pyrene		358 U	361 U	365 U	371 U	358 U	1190
Test : Semivolatiles - SW 8270C - Surrogates Units: %							
2,4,6-Tribromophenol-s		82	89	99	53	80	48
2-Fluorobiphenyl-s		72	77	86	51	75	65
2-Fluorophenol-s		79	84	95	49	77	63
Nitrobenzene-d5-s		75	86	98	54	83	72
Phenol-d5-s		86	96	107	62	87	81
Terphenyl-d14-s		56	59	65	38	61	66
Test : TAL Metals - SW6010B/7471A/7470A Units: mg/kg							
Aluminum		6290	5470	9640	11400	11600	5740
Antimony		1.09 U	0.893 U	1.12	1.63	1.58	0.803
Arsenic		1.09 U	0.893 U	4.93	6.91	5.77	3.61
Barium		23.9	17.0	34.9	36.8	35.2	16.2
Beryllium		0.397 J	0.334 J	0.408 J	0.525	0.475	0.298 J
Cadmium		1.22	1.15	0.483 U	0.404 U	0.402 U	0.299 U

Table C-6
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
AOI 469: NORTH HALF OF BUILDING 112,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	G469-SS20-Z5 4/19/00 8 - 10	G469-SS20-Z6 4/19/00 10 - 12	G469-SS21-Z1 4/20/00 8 - 9	G469-SS21-Z2 4/20/00 12 - 13	G469-SS22-Z1 4/20/00 5 - 7	G469-SS22-Z2 4/20/00 10 - 12
Calcium		1150	1230	7140	1430	1250	1290
Chromium		8.28	7.56	11.8	12.1	13.5	8.05
Cobalt		5.51	5.15	6.21	7.08	6.92	4.81
Copper		20.3	18.0	33.1	40.6	53.2	18.5
Iron		14600	13400	25100	28700	25900	14900
Lead		5.95	5.35	9.59	7.04	5.96	4.98
Magnesium		2720	2510	4020	3940	4790	2620
Manganese		301	318	825	1150	1430	311
Mercury		0.00788 J	0.00678 J	0.0282 UJ	0.0291 U	0.0328 UJ	0.0297 U
Nickel		13.7	13.5	16.7	19.5	19.3	13.2
Potassium		898	807	995	966	944	782
Selenium		1.09 UJ	0.893 U	0.966 U	0.809 U	0.804 U	0.597 U
Silver		1.09 J	0.893 U	0.966 U	0.809 U	0.804 U	0.597 U
Sodium		109 U	89.3 U	96.6 U	80.9 U	80.4 U	59.7 U
Thallium		1.09 UJ	0.893 U	0.813 J	1.34 U	1.93 U	0.597 U
Vanadium		13.0	12.1	23.6	25.7	23.9	14.3
Zinc		37.3	36.1	60.9	54.0	57.2	36.1
Test : TRPH - 418.1M Units: mg/kg							
Petroleum Hydrocarbons, TR		441 U	443 UJ	456 U	459 U	437 U	444 U

Table C-6
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
AOI 469: NORTH HALF OF BUILDING 112,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

Key:

Qualifiers:

J	estimated
U	not detected
UJ	not detected; estimated detection limit reported
UR	not detected; rejected sample

Surrogate Limits:	Analysis	Media	Surrogates	Recovery Range
	PCBs by Method 8082	Soil	Decachlorobiphenyl-s	52 - 115%
			Tetrachloro-m-xylene-s	39 - 125%
	Semivolatile Organics by Method 8270C		2,4,6-Tribromophenol-s	32 - 130%
			2-Fluorobiphenyl-s	27 - 123%
			2-Fluorophenol-s	36 - 135%
			Nitrobenzene-d5-s	25 - 122%
			Phenol-d5-s	36 - 128%
			Terphenyl-d14-s	51 - 116%

Units:

mg/L = milligrams per liter
mg/kg = milligrams per kilogram
µg/L = micrograms per liter
µg/kg = micrograms per kilogram

Test and Sample Information:

PCBs = polychlorinated biphenyls
TAL = Target Analyte List
TRPH = total recoverable petroleum hydrocarbons
/D = duplicate sample
NA = not analyzed

Table C-7
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SLUDGE SAMPLES FROM
OTH-305: BUILDING 305 PAINT SPRAY BOOTH,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	OTH305-SD01 3/14/00 0 - 0.17	OTH305-SD01/D 3/14/00 0 - 0.17			
Test : PCBs - SW 8082 Units: mg/kg						
Aroclor 1016		1.070 U	2.580 U			
Aroclor 1221		2.140 U	5.160 U			
Aroclor 1232		1.070 U	2.580 U			
Aroclor 1242		4.880	8.840			
Aroclor 1248		1.070 U	2.580 U			
Aroclor 1254		10.600	18.900			
Aroclor 1260		1.070 U	2.580 U			
Test : PCBs - SW 8082 - Surrogates Units: %						
Decachlorobiphenyl-s		0 %	0 %			
Tetrachloro-m-xylene-s		0 %	0 %			
Test : Percent Moisture - D2216 Units: %						
Percent Moisture		64.0	61.9			
Test : Pesticides - SW 8081A Units: µg/kg						
4,4'-DDD		536 U	516 U			
4,4'-DDE		536 U	516 U			
4,4'-DDT		536 U	516 U			
Aldrin		268 U	258 U			
alpha-BHC		268 U	258 U			

Table C-7
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SLUDGE SAMPLES FROM
OTH-305: BUILDING 305 PAINT SPRAY BOOTH,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	OTH305-SD01 3/14/00 0 - 0.17	OTH305-SD01/D 3/14/00 0 - 0.17				
alpha-Chlordane		268 U	258 U				
beta-BHC		268 U	258 U				
delta-BHC		268 U	258 U				
Dieldrin		226 J	501 J				
Endosulfan I		244 J	554				
Endosulfan II		536 U	516 U				
Endosulfan sulfate		536 U	516 U				
Endrin		536 U	516 U				
Endrin aldehyde		536 U	516 U				
Endrin ketone		536 U	516 U				
gamma-BHC		268 U	258 U				
gamma-Chlordane		268 U	156 J				
Heptachlor		536 U	516 U				
Heptachlor epoxide		536 U	133 J				
Methoxychlor		2680 U	2580 U				
Toxaphene		13400 U	12900 U				
Test : Pesticides - SW 8081A - Surrogates							
			Units: %				
Decachlorobiphenyl-s		0	0				
Tetrachloro-m-xylene-s		0	0				

Table C-7
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SLUDGE SAMPLES FROM
OTH-305: BUILDING 305 PAINT SPRAY BOOTH,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	OTH305-SD01 3/14/00 0 - 0.17	OTH305-SD01/D 3/14/00 0 - 0.17			
Test : Semivolatiles - SW 8270C Units: µg/kg						
1,2,4-Trichlorobenzene	43300 U	857 U				
1,2-Dichlorobenzene	43300 U	857 U				
1,3-Dichlorobenzene	43300 U	857 U				
1,4-Dichlorobenzene	43300 U	857 U				
2,4,5-Trichlorophenol	109000 U	2160 U				
2,4,6-Trichlorophenol	43300 U	857 U				
2,6-Dichlorophenol	43300 U	857 U				
2,4-Dimethylphenol	43300 U	1790 J				
2,4-Dinitrophenol	43300 U	857 U				
2,4-Dinitrotoluene	43300 U	857 U				
2,6-Dinitrotoluene	43300 U	857 U				
2-Chloronaphthalene	43300 U	857 U				
2-Chlorophenol	43300 U	857 U				
2-Methylnaphthalene	43300 U	1760 J				
2-Methylphenol	43300 U	857 U				
2-Nitroaniline	109000 U	2160 U				
2-Nitrophenol	43300 U	857 U				
3,3'-Dichlorobenzidine	86500 U	1710 U				

Table C-7
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SLUDGE SAMPLES FROM
OTH-305: BUILDING 305 PAINT SPRAY BOOTH,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	OTH305-SD01 3/14/00 0 - 0.17	OTH305-SD01/D 3/14/00 0 - 0.17				
3-Nitroaniline		109000 U	2160 U				
4,6-Dinitro-2-methylphenol		109000 U	2160 U				
4-Bromophenyl phenyl ether		43300 U	857 U				
4-Chloro-3-methylphenol		43300 U	857 U				
4-Chloroaniline		43300 U	857 U				
4-Chlorophenyl phenyl ether		43300 U	857 U				
4-Methylphenol		43300 U	857 U				
4-Nitroaniline		109000 U	2160 U				
4-Nitrophenol		109000 U	2160 U				
Acenaphthene		43300 U	857 U				
Acenaphthylene		43300 U	857 U				
Anthracene		43300 U	857 U				
Benz(a)anthracene		43300 UJ	857 UJ				
Benzo(a)pyrene		43300 UJ	857 UJ				
Benzo(b)fluoranthene		43300 UJ	857 UJ				
Benzo(g,h,i)perylene		43300 UJ	857 UJ				
Benzo(k)fluoranthene		43300 UJ	857 UJ				
Benzoic acid		109000 U	2160 U				
Benzyl alcohol		43300 U	857 U				

Table C-7
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SLUDGE SAMPLES FROM
OTH-305: BUILDING 305 PAINT SPRAY BOOTH,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	OTH305-SD01 3/14/00 0 - 0.17	OTH305-SD01/D 3/14/00 0 - 0.17				
Bis(2-chloroethoxy)methane		43300 U	857 U				
Bis(2-chloroethyl)ether		43300 U	857 U				
Bis(2-chloroisopropyl)ether		43300 U	857 U				
Bis(2-ethylhexyl)phthalate		173000 J	30300 J				
Butyl benzyl phthalate		383000 J	82900 J				
Carbazole		43300 U	857 U				
Chrysene		43300 UJ	202 J				
Di-n-butyl phthalate		116000 J	23400 J				
Di-n-octyl phthalate		64800 J	13200 J				
Dibenz(a,h)anthracene		43300 UJ	857 UJ				
Dibenzofuran		43300 U	857 U				
Diethyl phthalate		43300 U	857 U				
Dimethyl phthalate		43300 U	857 U				
Fluoranthene		43300 U	248 J				
Fluorene		43300 U	141 J				
Hexachlorobenzene		43300 U	857 U				
Hexachlorobutadiene		43300 U	857 U				
Hexachlorocyclopentadiene		109000 U	2160 U				
Hexachloroethane		43300 U	857 U				

Table C-7
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SLUDGE SAMPLES FROM
OTH-305: BUILDING 305 PAINT SPRAY BOOTH,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	OTH305-SD01 3/14/00 0 - 0.17	OTH305-SD01/D 3/14/00 0 - 0.17				
Indeno(1,2,3-cd)pyrene		43300 UJ	857 UJ				
Isophorone		43300 U	857 U				
N-Nitrosodi-n-propylamine		43300 U	857 U				
N-Nitrosodimethylamine		43300 U	857 U				
N-Nitrosodiphenylamine		43300 U	857 U				
Naphthalene		18500 J	4650 J				
Nitrobenzene		43300 U	857 U				
Pentachlorophenol		109000 U	2160 U				
Phenanthrene		43300 U	653 J				
Phenol		43300 U	857 U				
Pyrene		43300 UJ	565 J				
Test : Semivolatiles - SW 8270C - Surrogates							
			Units: %				
2,4,6-Tribromophenol-s		117	12				
2-Fluorobiphenyl-s		134	20				
2-Fluorophenol-s		113	0				
Nitrobenzene-d5-s		147	0				
Phenol-d5-s		127	34				
Terphenyl-d14-s		217	24				

Table C-7
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SLUDGE SAMPLES FROM
OTH-305: BUILDING 305 PAINT SPRAY BOOTH,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	OTH305-SD01 3/14/00 0 - 0.17	OTH305-SD01/D 3/14/00 0 - 0.17			
Test : TAL Metals - SW6010B/7471A/7470A Units: mg/kg						
Aluminum	8930	8000				
Antimony	80.8	57.6				
Arsenic	2.14 U	2.48 U				
Barium	12000	15100				
Beryllium	0.331 J	0.268 J				
Cadmium	65.7	51.2				
Ce	28900	23700				
Chromium	1440	1020				
Cobalt	165	143				
Copper	586	532				
Iron	56700	58000				
Lead	4910	3080				
Magnesium	4740	3620				
Manganese	436	370				
Mercury	1.52 J	1.43 J				
Nickel	105	91.2				
Potassium	776	612				
Selenium	7.89 J	6.86 J				

Table C-7
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SLUDGE SAMPLES FROM
OTH-305: BUILDING 305 PAINT SPRAY BOOTH,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	OTH305-SD01 3/14/00 0 - 0.17	OTH305-SD01/D 3/14/00 0 - 0.17				
Silver		1.05 J	0.500 J				
Sodium		263	246 J				
Thallium		2.14 UJ	2.48 UJ				
Vanadium		7.59	7.47				
Zinc		14500 J	10800 J				
Test : Volatiles - SW 8260B Units: µg/kg							
1,1,1-Trichloroethane		82400 U	80400 U				
1,1,2,2-Tetrachloroethane		82400 U	80400 U				
1,1,2-Trichloroethane		82400 U	80400 U				
1,1-Dichloroethane		82400 U	80400 U				
1,1-Dichloroethene		82400 U	80400 U				
1,2-Dichlorobenzene		82400 U	80400 U				
1,2-Dichloroethane		82400 U	80400 U				
1,2-Dichloroethene, Total		82400 U	80400 U				
1,2-Dichloropropane		82400 U	80400 U				
1,3-Dichlorobenzene		82400 U	80400 U				
1,4-Dichlorobenzene		82400 U	80400 U				
2-Butanone		159000 U	156000 U				
2-Chloroethyl vinyl ether		159000 U	156000 U				

Table C-7
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SLUDGE SAMPLES FROM
OTH-305: BUILDING 305 PAINT SPRAY BOOTH,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	OTH305-SD01 3/14/00 0 - 0.17	OTH305-SD01/D 3/14/00 0 - 0.17				
2-Hexanone		159000 U	156000 U				
4-Methyl-2-pentanone		159000 U	156000 U				
Acetone		159000 U	156000 U				
Benzene		82400 U	80400 U				
Bromodichloromethane		82400 U	80400 U				
Bromoform		82400 U	80400 U				
Bromomethane		159000 U	156000 U				
Carbon disulfide		82400 U	80400 U				
Carbon tetrachloride		82400 U	80400 U				
Chlorobenzene		82400 U	80400 U				
Chloroethane		159000 UJ	156000 UJ				
Chloroform		82400 U	80400 U				
Chloromethane		159000 U	156000 U				
cis-1,2-Dichloroethene		82400 U	80400 U				
cis-1,3-Dichloropropene		82400 U	80400 U				
Dibromochloromethane		82400 U	80400 U				
Ethylbenzene		489000	505000				
m,p-Xylene		1590000	1670000				
Methylene chloride		82400 U	80400 U				

Table C-7
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SLUDGE SAMPLES FROM
OTH-305: BUILDING 305 PAINT SPRAY BOOTH,

PARAMETER	Sample ID:	OTH305-SD01	OTH305-SD01/D			
	Sample Date:	3/14/00	3/14/00			
	Depth (ft):	0 - 0.17	0 - 0.17			
o-Xylene		82400 U	80400 U			
Styrene		82400 U	80400 U			
Tetrachloroethene		82400 U	80400 U			
Toluene		82400 U	80400 U			
trans-1,2-Dichloroethene		82400 U	80400 U			
trans-1,3-Dichloropropene		82400 U	80400 U			
Trichloroethene		82400 U	80400 U			
Trichlorofluoromethane		82400 U	80400 U			
Vinyl acetate		159000 U	156000 U			
Vinyl chloride		159000 U	156000 U			
Xylenes, Total		1610000	1690000			
Test : Volatiles - SW 8260B - Surrogates Units: %						
1,2-Dichloroethane-d4-s		106	108.9			
4-Bromofluorobenzene-s		105.7	103.8			
Dibromofluoromethane-s		109.2	111.2			
Toluene-d8-s		104.4	104.5			

Table C-7
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SLUDGE SAMPLES FROM
OTH-305: BUILDING 305 PAINT SPRAY BOOTH,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

Key:

Qualifiers:

J	estimated
U	not detected
UJ	not detected; estimated detection limit reported

Surrogate Limits:	Analysis	Media	Surrogates	Recovery Range
	PCBs by Method 8082	Soil	Decachlorobiphenyl-s	52 - 115%
			Tetrachloro-m-xylene-s	39 - 125%
	Pesticides by Method 8081A		Decachlorobiphenyl-s	39 - 135%
			Tetrachloro-m-xylene-s	47 - 140%
	Semivolatile Organics by Method 8270C		2,4,6-Tribromophenol-s	32 - 130%
			2-Fluorobiphenyl-s	27 - 123%
			2-Fluorophenol-s	36 - 135%
			Nitrobenzene-d5-s	25 - 122%
			Phenol-d5-s	36 - 128%
			Terphenyl-d14-s	51 - 116%
	VOCs, MeOH Extract by GCMS Method 8260B		1,2-Dichloroethane-d4-s	70 - 130%
			4-Bromofluorobenzene-s	70 - 130%
			Dibromofluoromethane-s	70 - 130%
			Toluene-d8-s	70 - 130%

Units:

mg/L = milligrams per liter
mg/kg = milligrams per kilogram
µg/L = micrograms per liter
µg/kg = micrograms per kilogram

Test and Sample Information:

PCBs = polychlorinated biphenyls
TAL = Target Analyte List
TRPH = total recoverable petroleum hydrocarbons
/D = duplicate sample

Table C-8
COMPLETE ANALYTICAL DATA SUMMARY FOR THE GRAB WATER SAMPLES FROM
OTH-305: BUILDING 305 PAINT SPRAY BOOTH,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	OTH305-WG01 3/14/00 0 - 0	OTH305-WG01/D 3/14/00 0 - 0				
Test : PCBs - SW 8082		Units: µg/L					
Aroclor 1016		0.5 U	0.5 U				
Aroclor 1221		1 U	1 U				
Aroclor 1232		0.5 U	0.5 U				
Aroclor 1242		0.5 U	0.5 U				
Aroclor 1248		0.5 U	0.5 U				
Aroclor 1254		3.07	3.44				
Aroclor 1260		0.5 U	0.5 U				
Test : PCBs - SW 8082 - Surrogates		Units: %					
Decachlorobiphenyl-s		51	69				
Tetrachloro-m-xylene-s		50	68				
Test : Pesticides - SW 8081A		Units: µg/L					
4,4'-DDD		0.05 U	0.05 U				
4,4'-DDE		0.05 U	0.05 U				
4,4'-DDT		0.05 U	0.05 U				
Aldrin		0.025 U	0.025 U				
alpha-BHC		0.025 U	0.025 U				
alpha-Chlordane		0.025 U	0.025 U				
beta-BHC		0.025 U	0.025 U				

Table C-8
COMPLETE ANALYTICAL DATA SUMMARY FOR THE GRAB WATER SAMPLES FROM
OTH-305: BUILDING 305 PAINT SPRAY BOOTH,
000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	OTH305-WG01 3/14/00 0 - 0	OTH305-WG01/D 3/14/00 0 - 0			
delta-BHC		0.025 U	0.025 U			
Dieldrin		0.05 U	0.05 U			
Endosulfan I		0.05 U	0.05 U			
Endosulfan II		0.05 U	0.05 U			
Endosulfan sulfate		0.05 U	0.05 U			
Endrin		0.05 U	0.05 U			
Endrin aldehyde		0.05 U	0.05 U			
Endrin ketone		0.05 U	0.05 U			
gamma-BHC		0.025 U	0.025 U			
gamma-Chlordane		0.025 U	0.025 U			
Heptachlor		0.025 U	0.025 U			
Heptachlor epoxide		0.025 U	0.025 U			
Methoxychlor		0.25 U	0.25 U			
Toxaphene		1 U	1 U			
Test : Pesticides - SW 8081A - Surrogates Units: %						
Decachlorobiphenyl-s		51	67			
Tetrachloro-m-xylene-s		44	62			
Test : Semivolatiles - SW 8270C Units: µg/L						
1,2,4-Trichlorobenzene		10 U	10 U			

Table C-8
COMPLETE ANALYTICAL DATA SUMMARY FOR THE GRAB WATER SAMPLES FROM
OTH-305: BUILDING 305 PAINT SPRAY BOOTH,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	OTH305-WG01 3/14/00 0 - 0	OTH305-WG01/D 3/14/00 0 - 0				
1,2-Dichlorobenzene		10 U	10 U				
1,3-Dichlorobenzene		10 U	10 U				
1,4-Dichlorobenzene		10 U	10 U				
2,4,5-Trichlorophenol		50 U	50 U				
2,4,6-Trichlorophenol		10 U	10 U				
2,4-Dichlorophenol		10 U	10 U				
2,4-Dimethylphenol		10 U	10 U				
2,4-Dinitrophenol		50 U	50 U				
2,4-Dinitrotoluene		10 U	10 U				
2,6-Dinitrotoluene		10 U	10 U				
2-Chloronaphthalene		10 U	10 U				
2-Chlorophenol		10 U	10 U				
2-Methylnaphthalene		10 U	10 U				
2-Methylphenol		10 U	10 U				
2-Nitroaniline		50 U	50 U				
2-Nitrophenol		10 U	10 U				
3,3'-Dichlorobenzidine		40 U	40 U				
3-Nitroaniline		50 U	50 U				
4,6-Dinitro-2-methylphenol		50 U	50 U				

Table C-8
COMPLETE ANALYTICAL DATA SUMMARY FOR THE GRAB WATER SAMPLES FROM
OTH-305: BUILDING 305 PAINT SPRAY BOOTH,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	OTH305-WG01 3/14/00 0 - 0	OTH305-WG01/D 3/14/00 0 - 0				
4-Bromophenyl phenyl ether		10 U	10 U				
4-Chloro-3-methylphenol		10 U	10 U				
4-Chloroaniline		20 U	20 U				
4-Chlorophenyl phenyl ether		10 U	10 U				
4-Methylphenol		20 U	20 U				
4-Nitroaniline		50 U	50 U				
4-Nitrophenol		50 U	50 U				
Acenaphthene		10 U	10 U				
Acenaphthylene		10 U	10 U				
Anthracene		10 U	10 U				
Benz(a)anthracene		10 U	10 U				
Benzo(a)pyrene		10 U	10 U				
Benzo(b)fluoranthene		10 U	10 U				
Benzo(g,h,i)perylene		10 U	10 U				
Benzo(k)fluoranthene		10 U	10 U				
Benzoic acid		100 U	100 U				
Benzyl alcohol		10 U	10 U				
Bis(2-chloroethoxy)methane		10 U	10 U				
Bis(2-chloroethyl)ether		10 U	10 U				

Table C-8
COMPLETE ANALYTICAL DATA SUMMARY FOR THE GRAB WATER SAMPLES FROM
OTH-305: BUILDING 305 PAINT SPRAY BOOTH,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	OTH305-WG01 3/14/00 0 - 0	OTH305-WG01/D 3/14/00 0 - 0				
Bis(2-chloroisopropyl)ether		10 U	10 U				
Bis(2-ethylhexyl)phthalate		33.8	56.2				
Butyl benzyl phthalate		181	134				
Carbazole		10 U	10 U				
Chrysene		10 U	10 U				
Di-n-butyl phthalate		31.3	45.8				
Di-n-octyl phthalate		10.2	17.3				
Dibenz(a,h)anthracene		10 U	10 U				
Dibenzofuran		10 U	10 U				
Diethyl phthalate		10 U	10 U				
Dimethyl phthalate		10 U	10 U				
Fluoranthene		10 U	10 U				
Fluorene		10 U	10 U				
Hexachlorobenzene		10 U	10 U				
Hexachlorobutadiene		10 U	10 U				
Hexachlorocyclopentadiene		50 U	50 U				
Hexachloroethane		10 U	10 U				
Indeno(1,2,3-cd)pyrene		10 U	10 U				
Isophorone		10 U	10 U				

YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	OTH305-WG01 3/14/00 0 - 0	OTH305-WG01/D 3/14/00 0 - 0				
N-Nitrosodi-n-propylamine	10 U	10 U					
N-Nitrosodimethylamine	10 U	10 U					
N-Nitrosodiphenylamine	10 U	10 U					
Naphthalene	10 U	10 U					
Nitrobenzene	10 U	10 U					
Pentachlorophenol	50 U	50 U					
Phenanthrene	10 U	10 U					
Phenol	10 U	10 U					
Pyrene	10 U	10 U					
Test : Semivolatiles - SW 8270C - Surrogates Units: %							
2,4,6-Tribromophenol-s	74	74					
2-Fluorobiphenyl-s	72	66					
2-Fluorophenol-s	39	35					
Nitrobenzene-d5-s	68	62					
Phenol-d5-s	28	28					
Terphenyl-d14-s	79	90					
Test : TAL Metals - SW6010B/7471A/7470A Units: µg/L							
Aluminum	1420	828					
Antimony	17.0 J	9.62 J					

Table C-8
COMPLETE ANALYTICAL DATA SUMMARY FOR THE GRAB WATER SAMPLES FROM
OTH-305: BUILDING 305 PAINT SPRAY BOOTH,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	OTH305-WG01 3/14/00 0 - 0	OTH305-WG01/D 3/14/00 0 - 0				
Arsenic		10 U	10 U				
Barium		3050	2000				
Beryllium		5 U	5 U				
Cadmium		9.38 J	5.14 J				
Calcium		44000	40600				
Chromium		220 J	123 J				
Cobalt		19.8 J	15.2 J				
Copper		72.2	36.7				
Iron		10400 J	5320 J				
Lead		822 J	449 J				
Magnesium		3870	3390				
Manganese		225	146				
Mercury		0.2 U	0.2 U				
Nickel		28.2	19.4 J				
Potassium		29200	28900				
Selenium		10 U	10 U				
Silver		10 U	10 U				
Sodium		48700	48200				
Thallium		10 U	10 U				

Table C-8
COMPLETE ANALYTICAL DATA SUMMARY FOR THE GRAB WATER SAMPLES FROM
OTH-305: BUILDING 305 PAINT SPRAY BOOTH,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	OTH305-WG01 3/14/00 0 - 0	OTH305-WG01/D 3/14/00 0 - 0				
Vanadium		1.03 J	20 U				
Zinc		3130 J	1660 J				
Test : Volatiles - SW 8260B Units: µg/L							
1,1,1-Trichloroethane		5 U	5 U				
1,1,2,2-Tetrachloroethane		5 U	5 U				
1,1,2-Trichloroethane		5 U	5 U				
1,1-Dichloroethane		5 U	5 U				
1,2-Dichloroethane		5 U	5 U				
1,2-Dichlorobenzene		5 U	5 U				
1,2-Dichloroethane		5 U	5 U				
1,2-Dichloropropane		5 U	5 U				
1,3-Dichlorobenzene		5 U	5 U				
1,4-Dichlorobenzene		5 U	5 U				
2-Butanone		10 U	10 U				
2-Chloroethyl vinyl ether		10 U	10 U				
2-Hexanone		10 U	10 U				
4-Methyl-2-pentanone		10 U	10 U				
Acetone		10 U	4.36 J				
Benzene		5 U	5 U				

Table C-8
COMPLETE ANALYTICAL DATA SUMMARY FOR THE GRAB WATER SAMPLES FROM
OTH-305: BUILDING 305 PAINT SPRAY BOOTH,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	OTH305-WG01 3/14/00 0 - 0	OTH305-WG01/D 3/14/00 0 - 0				
Bromodichloromethane	5 U	5 U					
Bromoform	5 U	5 U					
Bromomethane	10 U	10 U					
Carbon disulfide	5 U	5 U					
Carbon tetrachloride	5 U	5 U					
Chlorobenzene	5 U	5 U					
Chloroethane	10 U	10 U					
Chloroform	5 U	5 U					
Chloromethane	10 U	10 U					
cis-1,2-Dichloroethene	5 U	5 U					
cis-1,3-Dichloropropene	5 U	5 U					
Dibromochloromethane	5 U	5 U					
Ethylbenzene	149	159					
m,p-Xylene	492	448					
Methylene chloride	5 U	5 U					
o-Xylene	5 U	5 U					
Styrene	5 U	5 U					
Tetrachloroethene	5 U	5 U					
Toluene	5 U	5 U					

Table C-8
COMPLETE ANALYTICAL DATA SUMMARY FOR THE GRAB WATER SAMPLES FROM
OTH-305: BUILDING 305 PAINT SPRAY BOOTH,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	OTH305-WG01 3/14/00 0 - 0	OTH305-WG01/D 3/14/00 0 - 0				
trans-1,2-Dichloroethene	5 U	5 U					
trans-1,3-Dichloropropene	5 U	5 U					
Trichloroethene	5 U	5 U					
Trichlorofluoromethane	5 U	5 U					
Vinyl acetate	10 U	10 U					
Vinyl chloride	10 U	10 U					
Test : Volatiles - SW 8260B ~Surrogates Units: %							
1,2-Dichloroethane-d4-s	95	92					
4-Bromofluorobenzene-s	97	101					
Dibromofluoromethane-s	91	89					
Toluene-d8-s	104	104					

Table C-8
COMPLETE ANALYTICAL DATA SUMMARY FOR THE GRAB WATER SAMPLES FROM
OTH-305: BUILDING 305 PAINT SPRAY BOOTH,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

Key:

Qualifiers:

J estimated
U not detected

Surrogate Limits:	<u>Analysis</u>	<u>Media</u>	<u>Surrogates</u>	<u>Recovery Range</u>
	PCBs by Method 8082	Water	Decachlorobiphenyl-s	18 - 112%
			Tetrachloro-m-xylene-s	32 - 110%
	Pesticides by Method 8081A		Decachlorobiphenyl-s	12 - 132%
			Tetrachloro-m-xylene-s	31 - 122%
	Semivolatile Organics by Method 8270C		2,4,6-Tribromophenol-s	40 - 153%
			2-Fluorobiphenyl-s	39 - 116%
			2-Fluorophenol-s	10 - 125%
			Nitrobenzene-d5-s	33 - 117%
			Phenol-d5-s	10 - 125%
			Terphenyl-d14-s	27 - 135%
	VOC by GCMS Method 8260B		1,2-Dichloroethane-d4-s	82 - 124%
			4-Bromofluorobenzene-s	87 - 115%
			Dibromofluoromethane-s	89 - 119%
			Toluene-d8-s	85 - 115%

Units:

mg/L = milligrams per liter
mg/kg = milligrams per kilogram
µg/L = micrograms per liter
µg/kg = micrograms per kilogram

Test and Sample Information:

PCBs = polychlorinated biphenyls
TAL = Target Analyte List
TRPH = total recoverable petroleum hydrocarbons
/D = duplicate sample
NA = not analyzed

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Table C-9
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
OTH-5485-2: TRASH SCATTER-DUMP,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

Sample ID: Sample Date: Depth (ft):	OTH5485-2-NS01 3/14/00 0 - 0.17	OTH5485-2-NS02 3/14/00 0 - 0.17	OTH5485-2-NS03 3/14/00 0 - 0.17	OTH5485-2-NS04 3/14/00 0 - 0.17	OTH5485-2-NS05 3/14/00 0 - 0.17	OTH5485-2-NS06 3/14/00 0 - 0.17
PARAMETER						
Test : PCBs - SW 8082 Units: mg/kg						
Aroclor 1016	0.0266 U	0.0257 U	0.280 U	0.0323 U	0.0298 U	0.126 U
Aroclor 1221	0.0531 U	0.0513 U	0.560 U	0.0645 U	0.0597 U	0.252 U
Aroclor 1232	0.0266 U	0.0257 U	0.280 U	0.0323 U	0.0298 U	0.126 U
Aroclor 1242	0.0266 U	0.0257 U	0.280 U	0.0323 U	0.0298 U	0.126 U
Aroclor 1248	0.0266 U	0.0257 U	0.280 U	0.0323 U	0.0298 U	0.126 U
Aroclor 1254	0.0850	0.0257 U	0.280 U	0.0238 J	0.0298 U	0.126 U
Aroclor 1260	0.0963	0.126	0.596	0.0344	0.0298 U	0.126 U
Test : PCBs - SW 8082 - Surrogates Units: %						
Decachlorobiphenyl-s	113 %	119 %	72 %	101 %	109 %	145 %
Tetrachloro-m-xylene-s	87 %	95 %	62 %	89 %	103 %	100 %
Test : Percent Moisture - D2216 Units: %						
Percent Moisture	26.7	23.1	28.8	38.6	34.9	21.5
Test : Pesticides - SW 8081A Units: µg/kg						
4,4'-DDD	2.62 J	19.7 J	18.8 J	3.23 U	2.98 U	373
4,4'-DDE	17.3	41.8	7.54 J	7.90	3.89	403
4,4'-DDT	27.2	115	122	8.75	6.47	2960
Aldrin	1.33 U	12.8 U	28 U	1.61 U	1.49 U	126 U
alpha-BHC	1.33 U	12.8 U	28 U	2.91	1.49 U	126 U

Table C-9
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
OTH-5485-2: TRASH SCATTER-DUMP,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	OTH5485-2-NS01 3/14/00 0 - 0.17	OTH5485-2-NS02 3/14/00 0 - 0.17	OTH5485-2-NS03 3/14/00 0 - 0.17	OTH5485-2-NS04 3/14/00 0 - 0.17	OTH5485-2-NS05 3/14/00 0 - 0.17	OTH5485-2-NS06 3/14/00 0 - 0.17
alpha-Chlordane		1.33 U	12.8 U	28 U	1.61 U	1.49 U	126 U
beta-BHC		1.33 U	12.8 U	28 U	1.61 U	1.49 U	126 U
delta-BHC		1.33 U	12.8 U	28 U	1.61 U	1.49 U	126 U
Dieldrin		2.66 U	25.7 U	54.7 J	1.21 J	2.98 U	252 U
Endosulfan I		3.07	25.7 U	56 U	3.23 U	2.98 U	252 U
Endosulfan II		2.66 U	25.7 U	56 U	3.23 U	2.98 U	252 U
Endosulfan sulfate		2.66 U	25.7 U	56 U	3.23 U	2.98 U	252 U
Endrin		2.66 U	25.7 U	56 U	3.23 U	2.98 U	252 U
Endrin aldehyde		2.66 U	25.7 U	56 U	3.23 U	2.98 U	252 U
Endrin ketone		1.48 J	25.7 U	56 U	3.23 U	0.738 J	252 U
gamma-BHC		1.33 U	12.8 U	28 U	1.61 U	1.49 U	126 U
gamma-Chlordane		0.463 J	12.8 U	28 U	1.61 U	1.49 U	126 U
Heptachlor		0.712 J	25.7 U	56 U	3.23 U	2.98 U	252 U
Heptachlor epoxide		2.66 U	25.7 U	56 U	3.23 U	2.98 U	252 U
Methoxychlor		13.3 U	128 U	280 U	16.1 U	2.94 J	275 J
Toxaphene		66.4 U	641 U	1400 U	80.6 U	74.6 U	6310 U
Test : Pesticides - SW 8081A - Surrogates							
			Units:	%			
Decachlorobiphenyl-s	90	88	0	99	86	0	
Tetrachloro-m-xylene-s	88	72	0	100	86	0	

Table C-9
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
OTH-5485-2: TRASH SCATTER-DUMP,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

Sample ID: Sample Date: Depth (ft): PARAMETER	OTH5485-2-NS01 3/14/00 0 - 0.17	OTH5485-2-NS02 3/14/00 0 - 0.17	OTH5485-2-NS03 3/14/00 0 - 0.17	OTH5485-2-NS04 3/14/00 0 - 0.17	OTH5485-2-NS05 3/14/00 0 - 0.17	OTH5485-2-NS06 3/14/00 0 - 0.17
Test : Semivolatiles - SW 8270C						
	Units: µg/kg					
1,2,4-Trichlorobenzene	443 U	422 U	925 U	534 U	494 U	420 U
1,2-Dichlorobenzene	443 U	422 U	925 U	534 U	494 U	420 U
1,3-Dichlorobenzene	443 U	422 U	925 U	534 U	494 U	420 U
1,4-Dichlorobenzene	443 U	422 U	925 U	534 U	494 U	420 U
2,4,5-Trichlorophenol	1110 U	1060 U	2330 U	1340 U	1240 U	1060 U
2,4,6-Trichlorophenol	443 U	422 U	925 U	534 U	494 U	420 U
2,4-Dichlorophenol	443 U	422 U	925 U	534 U	494 U	420 U
2,4-Dimethylphenol	443 U	422 U	925 U	534 U	494 U	420 U
2,4-Dinitrophenol	443 U	422 U	925 U	534 U	494 U	420 U
2,4-Dinitrotoluene	443 U	422 U	925 U	534 U	494 U	420 U
2,6-Dinitrotoluene	443 U	422 U	925 U	534 U	494 U	420 U
2-Chloronaphthalene	443 U	422 U	925 U	534 U	494 U	420 U
2-Chlorophenol	443 U	422 U	925 U	534 U	494 U	420 U
2-Methylnaphthalene	443 U	422 U	925 U	534 U	494 U	420 U
2-Methylphenol	443 U	422 U	925 U	534 U	494 U	420 U
2-Nitroaniline	1110 U	1060 U	2330 U	1340 U	1240 U	1060 U
2-Nitrophenol	443 U	422 U	925 U	534 U	494 U	420 U
3,3'-Dichlorobenzidine	886 U	844 U	1850 U	1070 U	988 U	840 U

Table C-9
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
OTH-5485-2: TRASH SCATTER-DUMP,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	OTH5485-2-NS01 3/14/00 0 - 0.17	OTH5485-2-NS02 3/14/00 0 - 0.17	OTH5485-2-NS03 3/14/00 0 - 0.17	OTH5485-2-NS04 3/14/00 0 - 0.17	OTH5485-2-NS05 3/14/00 0 - 0.17	OTH5485-2-NS06 3/14/00 0 - 0.17
3-Nitroaniline		1110 U	1060 U	2330 U	1340 U	1240 U	1060 U
4,6-Dinitro-2-methylphenol		1110 U	1060 U	2330 U	1340 U	1240 U	1060 U
4-Bromophenyl phenyl ether		443 U	422 U	925 U	534 U	494 U	420 U
4-Chloro-3-methylphenol		443 U	422 U	925 U	534 U	494 U	420 U
4-Chloroaniline		443 U	422 U	925 U	534 U	494 U	420 U
4-Chlorophenyl phenyl ether		443 U	422 U	925 U	534 U	494 U	420 U
4-Methylphenol		443 U	422 U	925 U	534 U	494 U	420 U
4-Nitroaniline		1110 U	1060 U	2330 U	1340 U	1240 U	1060 U
4-Nitrophenol		1110 U	1060 U	2330 U	1340 U	1240 U	1060 U
Acenaphthene		443 U	422 U	925 U	534 U	494 U	420 U
Acenaphthylene		443 U	422 U	925 U	534 U	494 U	420 U
Anthracene		443 U	422 U	925 U	534 U	494 U	420 U
Benz(a)anthracene		443 UJ	422 U	115 J	61.4 J	77.3 J	52.2 J
Benzo(a)pyrene		61.2 J	422 U	925 UJ	534 UJ	103 J	53.7 J
Benzo(b)fluoranthene		72.5 J	422 U	279 J	101 J	137 J	78.9 J
Benzo(g,h,i)perylene		443 UJ	422 U	254 J	534 UJ	494 UJ	420 UJ
Benzo(k)fluoranthene		443 UJ	422 U	202 J	93.6 J	158 J	75.5 J
Benzoic acid		1110 U	1060 U	2330 U	1340 U	1240 U	1060 U
Benzyl alcohol		443 U	422 U	925 U	534 U	494 U	420 U

Table C-9
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
OTH-5485-2: TRASH SCATTER-DUMP,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

Sample ID: Sample Date: Depth (ft): PARAMETER	OTH5485-2-NS01 3/14/00 0 - 0.17	OTH5485-2-NS02 3/14/00 0 - 0.17	OTH5485-2-NS03 3/14/00 0 - 0.17	OTH5485-2-NS04 3/14/00 0 - 0.17	OTH5485-2-NS05 3/14/00 0 - 0.17	OTH5485-2-NS06 3/14/00 0 - 0.17
Bis(2-chloroethoxy)methane	443 U	422 U	925 U	534 U	494 U	420 U
Bis(2-chloroethyl)ether	443 U	422 U	925 U	534 U	494 U	420 U
Bis(2-chloroisopropyl)ether	443 U	422 U	925 U	534 U	494 U	420 U
Bis(2-ethylhexyl)phthalate	1890 J	168 J	925 UJ	534 UJ	494 UJ	99.5 J
Butyl benzyl phthalate	122 J	422 U	407 J	534 UJ	494 UJ	420 U
Carbazole	443 U	422 U	925 U	534 U	494 U	420 U
Chrysene	67.9 J	51.7 J	257 J	101 J	152 J	78.4 J
Di-n-butyl phthalate	186 J	205 J	286 J	458 J	128 J	208 J
Di-n-octyl phthalate	443 UJ	422 U	925 UJ	534 UJ	494 UJ	420 U
Dibenz(a,h)anthracene	443 UJ	422 U	925 UJ	534 UJ	494 UJ	420 UJ
Dibenzofuran	443 U	422 U	925 U	534 U	494 U	420 U
Diethyl phthalate	443 U	422 U	925 U	534 U	494 U	420 U
Dimethyl phthalate	443 U	422 U	925 U	534 U	494 U	420 U
Fluoranthene	71.9 J	82.8 J	203 J	122 J	246 J	139 J
Fluorene	443 U	422 U	925 U	534 U	494 U	420 U
Hexachlorobenzene	443 U	422 U	925 U	534 U	494 U	420 U
Hexachlorobutadiene	443 U	422 U	925 U	534 U	494 U	420 U
Hexachlorocyclopentadiene	1110 U	1060 U	2330 U	1340 U	1240 U	1060 U
Hexachloroethane	443 U	422 U	925 U	534 U	494 U	420 U

Table C-9
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
OTH-5485-2: TRASH SCATTER-DUMP,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	OTH5485-2-NS01 3/14/00 0 - 0.17	OTH5485-2-NS02 3/14/00 0 - 0.17	OTH5485-2-NS03 3/14/00 0 - 0.17	OTH5485-2-NS04 3/14/00 0 - 0.17	OTH5485-2-NS05 3/14/00 0 - 0.17	OTH5485-2-NS06 3/14/00 0 - 0.17
Indeno(1,2,3-cd)pyrene		443 UJ	422 U	925 UJ	534 UJ	494 UJ	420 U
Isophorone		443 U	422 U	925 U	534 U	494 U	420 U
N-Nitrosodi-n-propylamine		443 U	422 U	925 U	534 U	494 U	420 U
N-Nitrosodimethylamine		443 U	422 U	925 U	534 U	494 U	420 U
N-Nitrosodiphenylamine		443 U	422 U	925 U	534 U	494 U	420 U
Naphthalene		443 U	422 U	925 U	534 U	494 U	420 U
Nitrobenzene		443 U	422 U	925 U	534 U	494 U	420 U
Pentachlorophenol		255 J	1060 U	2330 U	1340 U	1240 U	1060 U
Phenanthrene		61.4 J	50.8 J	283 J	127 J	224 J	95.5 J
Phenol		443 U	422 U	925 U	534 U	494 U	420 U
Pyrene		145 J	92.3 J	710 J	289 J	413 J	178 J
Test : Semivolatiles - SW 8270C - Surrogates							
			Units:	%			
2,4,6-Tribromophenol-s		76	76	72	76	74	79
2-Fluorobiphenyl-s		73	71	101	96	86	75
2-Fluorophenol-s		87	80	83	82	75	88
Nitrobenzene-d5-s		81	78	77	83	76	85
Phenol-d5-s		88	81	80	82	75	91
Terphenyl-d14-s		121	72	196	171	136	91

Table C-9
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
OTH-5485-2: TRASH SCATTER-DUMP,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	OTH5485-2-NS01 3/14/00 0 - 0.17	OTH5485-2-NS02 3/14/00 0 - 0.17	OTH5485-2-NS03 3/14/00 0 - 0.17	OTH5485-2-NS04 3/14/00 0 - 0.17	OTH5485-2-NS05 3/14/00 0 - 0.17	OTH5485-2-NS06 3/14/00 0 - 0.17
Test : TAL Metals - SW6010B/7471A/7470A Units: mg/kg							
Aluminum		17800	15900	7330	12600	13400	13300
Antimony		1.36 U	0.871 UJ	4.28	0.798 UJ	0.997 U	1.25 UJ
Arsenic		1.36 U	5.32	1.17 U	4.94	6.64	2.83
Barium		90.4	173	123	66.4	63.5	130
Beryllium		0.663 J	0.687	0.283 J	0.473 J	0.577	0.581
Cadmium		16.8 J	5.37	14.0	3.94	3.65	6.23
Calcium		1360	1660	3470	761	538	3230
Chromium		36.5 J	26.0	28.5	16.6	17.6	20.5
Cobalt		16.7	14.7	8.54	8.26	9.94	10.8
Copper		123 J	54.4	129	34.5	34.7	38.6
Iron		101000	43300	94400	28100	31900	41400
Lead		158	144	526	106	48.8	105
Magnesium		4760	4700	1760	2350	3010	3760
Manganese		1600	1530	1090	1220	1270	1330
Mercury		0.330 J	0.118 J	0.286 J	0.291 J	0.194 J	0.178 J
Nickel		28.2	33.5	38.1	12.4	14.7	18.8
Potassium		1260	1080	969	1090	1260	977
Selenium		3.91 J	0.985 UJ	4.36 J	1.25 UJ	0.997 UJ	0.897 UJ

Table C-9
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
OTH-5485-2: TRASH SCATTER-DUMP,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	OTH5485-2-NS01 3/14/00 0 - 0.17	OTH5485-2-NS02 3/14/00 0 - 0.17	OTH5485-2-NS03 3/14/00 0 - 0.17	OTH5485-2-NS04 3/14/00 0 - 0.17	OTH5485-2-NS05 3/14/00 0 - 0.17	OTH5485-2-NS06 3/14/00 0 - 0.17
Silver		0.389 J	0.985 UJ	0.643 J	1.25 UJ	0.552 J	0.531 J
Sodium		47.0 J	35.2 J	36.4 J	125 U	99.7 U	31.7 J
Thallium		1.36 UJ	0.985 UJ	1.17 UJ	1.25 UJ	0.997 UJ	0.897 UJ
Vanadium		31.9	28.9	22.6	27.7	29.1	25.8
Zinc		175 J	155 J	219 J	135 J	83.3 J	686 J
Test : Volatiles - SW 8260B							
		Units: µg/kg					
1,1,1-Trichloroethane		6.81 U	6.22 U	6.79 U	7.68 U	7.26 U	5.82 U
1,1,2,2-Tetrachloroethane		6.81 U	6.22 U	6.79 U	7.68 U	7.26 U	5.82 U
1,1,2-Trichloroethane		6.81 U	6.22 U	6.79 U	7.68 U	7.26 U	5.82 U
1,1-Dichloroethane		6.81 U	6.22 U	6.79 U	7.68 U	7.26 U	5.82 U
1,1-Dichloroethene		6.81 U	6.22 U	6.79 U	7.68 U	7.26 U	5.82 U
1,2-Dichlorobenzene		6.81 U	6.22 U	6.79 U	7.68 U	7.26 U	5.82 U
1,2-Dichloroethane		6.81 U	6.22 U	6.79 U	7.68 U	7.26 U	5.82 U
1,2-Dichloroethene, Total		6.81 U	6.22 U	6.79 U	7.68 U	7.26 U	5.82 U
1,2-Dichloropropane		6.81 U	6.22 U	6.79 U	7.68 U	7.26 U	5.82 U
1,3-Dichlorobenzene		6.81 U	6.22 U	6.79 U	7.68 U	7.26 U	5.82 U
1,4-Dichlorobenzene		6.81 U	6.22 U	6.79 U	7.68 U	7.26 U	5.82 U
2-Butanone		13.6 U	12.4 U	13.6 U	15.4 U	14.5 U	11.6 U
2-Chloroethyl vinyl ether		13.6 U	12.4 U	13.6 U	15.4 U	14.5 U	11.6 U

Table C-9
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
OTH-5485-2: TRASH SCATTER-DUMP,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	OTH5485-2-NS01 3/14/00 0 - 0.17	OTH5485-2-NS02 3/14/00 0 - 0.17	OTH5485-2-NS03 3/14/00 0 - 0.17	OTH5485-2-NS04 3/14/00 0 - 0.17	OTH5485-2-NS05 3/14/00 0 - 0.17	OTH5485-2-NS06 3/14/00 0 - 0.17
2-Hexanone		13.6 U	12.4 U	13.6 U	15.4 U	14.5 U	11.6 U
4-Methyl-2-pentanone		13.6 U	12.4 U	13.6 U	15.4 U	14.5 U	11.6 U
Acetone		13.6 U	12.4 U	13.6 U	15.4 U	14.5 U	11.6 U
Benzene		6.81 U	6.22 U	6.79 U	7.68 U	7.26 U	5.82 U
Bromodichloromethane		6.81 U	6.22 U	6.79 U	7.68 U	7.26 U	5.82 U
Bromoform		6.81 U	6.22 U	6.79 U	7.68 U	7.26 U	5.82 U
Bromomethane		13.6 U	12.4 U	13.6 U	15.4 U	14.5 U	11.6 U
Carbon disulfide		6.81 U	6.22 U	6.79 U	7.68 U	7.26 U	5.82 U
Carbon tetrachloride		6.81 U	6.22 U	6.79 U	7.68 U	7.26 U	5.82 U
Chlorobenzene		6.81 U	6.22 U	6.79 U	7.68 U	7.26 U	5.82 U
Chloroethane		13.6 UJ	12.4 UJ	13.6 UJ	15.4 UJ	14.5 UJ	11.6 UJ
Chloroform		6.81 U	6.22 U	6.79 U	7.68 U	7.26 U	5.82 U
Chloromethane		13.6 U	12.4 U	13.6 U	15.4 U	14.5 U	11.6 U
cis-1,2-Dichloroethene		6.81 U	6.22 U	6.79 U	7.68 U	7.26 U	5.82 U
cis-1,3-Dichloropropene		6.81 U	6.22 U	6.79 U	7.68 U	7.26 U	5.82 U
Dibromochloromethane		6.81 U	6.22 U	6.79 U	7.68 U	7.26 U	5.82 U
Ethylbenzene		6.81 U	6.22 U	6.79 U	7.68 U	7.26 U	5.82 U
m,p-Xylene		8.38 UJ	6.22 U	6.79 U	7.68 U	7.26 U	5.82 U
Methylene chloride		6.81 U	6.22 U	6.79 U	7.68 U	7.26 U	5.82 U

Table C-9
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
OTH-5485-2: TRASH SCATTER-DUMP,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	OTH5485-2-NS01 3/14/00 0 - 0.17	OTH5485-2-NS02 3/14/00 0 - 0.17	OTH5485-2-NS03 3/14/00 0 - 0.17	OTH5485-2-NS04 3/14/00 0 - 0.17	OTH5485-2-NS05 3/14/00 0 - 0.17	OTH5485-2-NS06 3/14/00 0 - 0.17
o-Xylene		6.81 U	6.22 U	6.79 U	7.68 U	7.26 U	5.82 U
Styrene		6.81 U	6.22 U	6.79 U	7.68 U	7.26 U	5.82 U
Tetrachloroethene		NA	6.22 U	6.79 U	7.68 U	7.26 U	5.82 U
Toluene		6.81 U	6.22 U	6.79 U	7.68 U	7.26 U	5.82 U
trans-1,2-Dichloroethene		6.81 U	6.22 U	6.79 U	7.68 U	7.26 U	5.82 U
trans-1,3-Dichloropropene		6.81 U	6.22 U	6.79 U	7.68 U	7.26 U	5.82 U
Trichloroethene		6.81 U	6.22 U	6.79 U	7.68 U	7.26 U	5.82 U
Trichlorofluoromethane		6.81 U	6.22 U	6.79 U	7.68 U	7.26 U	5.82 U
Vinyl acetate		13.6 U	12.4 U	13.6 U	15.4 U	14.5 U	11.6 U
Vinyl chloride		13.6 U	12.4 U	13.6 U	15.4 U	14.5 U	11.6 U
Xylenes, Total		6.81 U	6.22 U	6.79 U	7.68 U	7.26 U	5.82 U
Test : Volatiles - SW 8260B - Surrogates Units: %							
1,2-Dichloroethane-d4-s		99	109	112	111	110	111
4-Bromofluorobenzene-s		123	117	132	115	117	116
Dibromofluoromethane-s		99	109	109	108	108	108
Toluene-d8-s		105	105	113	105	103	104

Table C-9
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
OTH-5485-2: TRASH SCATTER-DUMP,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

Sample ID: Sample Date: Depth (ft):	OTH5485-2-NS06/D 3/14/00 0 - 0.17	OTH5485-2-SS01-Z1 4/3/00 0 - 2	OTH5485-2-SS01-Z2 4/4/00 28 - 30	OTH5485-2-SS02-Z1 4/6/00 0 - 2	OTH5485-2-SS02-Z2 4/6/00 20 - 22	OTH5485-2-SS03-Z1 4/7/00 0 - 2
PARAMETER						
Test : PCBs - SW 8082	Units: mg/kg					
Aroclor 1016	0.0259 U	0.0253 U	0.0244 U	0.0245 U	0.023 U	0.0265 U
Aroclor 1221	0.0519 U	0.0506 U	0.0488 U	0.0489 U	0.0459 U	0.0530 U
Aroclor 1232	0.0259 U	0.0253 U	0.0244 U	0.0245 U	0.023 U	0.0265 U
Aroclor 1242	0.0259 U	0.0253 U	0.0244 U	0.0245 U	0.023 U	0.0265 U
Aroclor 1248	0.0259 U	0.0253 U	0.0244 U	0.0245 U	0.023 U	0.0265 U
Aroclor 1254	0.0259 U	0.0253 U	0.0244 U	0.0245 U	0.023 U	0.0265 U
Aroclor 1260	0.0259 U	0.0253 U	0.0244 U	0.0245 U	0.023 U	0.0265 U
Test : PCBs - SW 8082 - Surrogates	Units: %					
Decachlorobiphenyl-s	122 %	121 %	109 %	90 %	90 %	90 %
Tetrachloro-m-xylene-s	91 %	128 %	96 %	97 %	98 %	93 %
Test : Percent Moisture - D2216	Units: %					
Percent Moisture	23.7	28.5	20.0	19.4	14.8	24.9
Test : Pesticides - SW 8081A	Units: µg/kg					
4,4'-DDD	347	2.53 U	2.44 U	2.45 U	2.3 U	2.65 U
4,4'-DDE	306	2.53 U	2.44 U	1.57 J	2.3 U	2.28 J
4,4'-DDT	2400	2.53 U	2.44 U	1.58 J	2.3 U	2.47 J
Aldrin	64.8 U	1.26 U	1.22 U	2.56	1.15 U	1.32 U
alpha-BHC	64.8 U	1.26 U	1.22 U	1.22 U	1.15 U	1.32 U

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COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
OTH-5485-2: TRASH SCATTER-DUMP,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	OTH5485-2-NS06/D 3/14/00 0 - 0.17	OTH5485-2-SS01-Z1 4/3/00 0 - 2	OTH5485-2-SS01-Z2 4/4/00 28 - 30	OTH5485-2-SS02-Z1 4/6/00 0 - 2	OTH5485-2-SS02-Z2 4/6/00 20 - 22	OTH5485-2-SS03-Z1 4/7/00 0 - 2
alpha-Chlordane		64.8 U	1.26 U	1.22 U	1.22 U	1.15 U	1.32 U
beta-BHC		64.8 U	1.26 U	1.22 U	1.22 U	1.15 U	1.32 U
delta-BHC		64.8 U	1.26 U	1.22 U	1.22 U	1.15 U	1.32 U
Dieldrin		130 U	2.53 U	2.44 U	2.45 U	2.3 U	2.65 U
Endosulfan I		130 U	2.53 U	2.44 U	2.45 U	2.3 U	2.65 U
Endosulfan II		130 U	2.53 U	2.44 U	2.45 U	2.3 U	2.65 U
Endosulfan sulfate		130 U	2.53 U	2.44 U	2.45 U	2.3 U	2.65 U
Endrin		130 U	2.53 U	2.44 U	2.45 U	2.3 U	2.65 U
Endrin aldehyde		130 U	2.53 U	2.44 U	2.45 U	2.3 U	2.65 U
Endrin ketone		130 U	2.53 U	2.44 U	2.45 U	2.3 U	2.65 U
gamma-BHC		64.8 U	1.26 U	1.22 U	1.22 U	1.15 U	1.32 U
gamma-Chlordane		64.8 U	1.26 U	1.22 U	1.22 U	1.15 U	1.32 U
Heptachlor		130 U	2.53 U	2.44 U	2.45 U	2.3 U	2.65 U
Heptachlor epoxide		130 U	2.53 U	2.44 U	2.45 U	2.3 U	2.07 J
Methoxychlor		112 J	12.6 U	12.2 U	12.2 U	11.5 U	13.2 U
Toxaphene		3240 U	63.2 U	61 U	61.1 U	57.4 U	66.2 U
Test : Pesticides - SW 8081A - Surrogates							
			Units:	%			
Decachlorobiphenyl-s	0	140	87	89	81	85	
Tetrachloro-m-xylene-s	0	134	98	103	99	100	

Table C-9
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
OTH-5485-2: TRASH SCATTER-DUMP,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

Sample ID: Sample Date: Depth (ft):	OTH5485-2-NS06/D 3/14/00 0 - 0.17	OTH5485-2-SS01-Z1 4/3/00 0 - 2	OTH5485-2-SS01-Z2 4/4/00 28 - 30	OTH5485-2-SS02-Z1 4/6/00 0 - 2	OTH5485-2-SS02-Z2 4/6/00 20 - 22	OTH5485-2-SS03-Z1 4/7/00 0 - 2
PARAMETER						
Test : Semivolatiles - SW 8270C	Units: µg/kg					
1,2,4-Trichlorobenzene	426 U	428 U	402 U	404 U	386 U	427 U
1,2-Dichlorobenzene	426 U	428 U	402 U	404 U	386 U	427 U
1,3-Dichlorobenzene	426 U	428 U	402 U	404 U	386 U	427 U
1,4-Dichlorobenzene	426 U	428 U	402 U	404 U	386 U	427 U
2,4,5-Trichlorophenol	1070 U	1080 U	1010 U	1020 U	972 U	1070 U
2,4,6-Trichlorophenol	426 U	428 U	402 U	404 U	386 U	427 U
2,4-Dichlorophenol	426 U	428 U	402 U	404 U	386 U	427 U
2,4-Dimethylphenol	426 U	428 U	402 U	404 U	386 U	427 U
2,4-Dinitrophenol	426 U	428 U	402 U	404 U	386 U	427 U
2,4-Dinitrotoluene	426 U	428 U	402 U	404 U	386 U	427 U
2,6-Dinitrotoluene	426 U	428 U	402 U	404 U	386 U	427 U
2-Chloronaphthalene	426 U	428 U	402 U	404 U	386 U	427 U
2-Chlorophenol	426 U	428 U	402 U	404 U	386 U	427 U
2-Methylnaphthalene	426 U	428 U	402 U	404 U	386 U	427 U
2-Methylphenol	426 U	428 U	402 U	404 U	386 U	427 U
2-Nitroaniline	1070 U	1080 U	1010 U	1020 U	972 U	1070 U
2-Nitrophenol	426 U	428 U	402 U	404 U	386 U	427 U
3,3'-Dichlorobenzidine	853 U	856 U	805 U	808 U	773 U	854 U

Table C-9
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OTH-5485-2: TRASH SCATTER-DUMP,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	OTH5485-2-NS06/D 3/14/00 0 - 0.17	OTH5485-2-SS01-Z1 4/3/00 0 - 2	OTH5485-2-SS01-Z2 4/4/00 28 - 30	OTH5485-2-SS02-Z1 4/6/00 0 - 2	OTH5485-2-SS02-Z2 4/6/00 20 - 22	OTH5485-2-SS03-Z1 4/7/00 0 - 2
3-Nitroaniline		1070 U	1080 U	1010 U	1020 U	972 U	1070 U
4,6-Dinitro-2-methylphenol		1070 U	1080 U	1010 U	1020 U	972 U	1070 U
4-Bromophenyl phenyl ether		426 U	428 U	402 U	404 U	386 U	427 U
4-Chloro-3-methylphenol		426 U	428 U	402 U	404 U	386 U	427 U
4-Chloroaniline		426 U	428 U	402 U	404 U	386 U	427 U
4-Chlorophenyl phenyl ether		426 U	428 U	402 U	404 U	386 U	427 U
4-Methylphenol		426 U	428 U	402 U	404 U	386 U	427 U
4-Nitroaniline		1070 U	1080 U	1010 U	1020 U	972 U	1070 U
4-Nitrophenol		1070 U	1080 U	1010 U	1020 U	972 U	1070 U
Acenaphthene		426 U	428 U	402 U	404 U	386 U	427 U
Acenaphthylene		426 U	428 U	402 U	404 U	386 U	427 U
Anthracene		426 U	428 U	402 U	404 U	386 U	427 U
Benz(a)anthracene		48.4 J	428 U	402 U	404 U	386 U	427 U
Benzo(a)pyrene		426 UJ	428 UJ	402 U	404 U	386 U	427 U
Benzo(b)fluoranthene		71.8 J	428 UJ	402 U	404 U	386 U	427 U
Benzo(g,h,i)perylene		426 UJ	428 UJ	402 U	404 U	386 U	427 U
Benzo(k)fluoranthene		426 UJ	428 UJ	402 U	404 U	386 U	427 U
Benzoic acid		1070 U	1080 U	1010 U	1020 U	972 U	1070 U
Benzyl alcohol		426 U	428 U	402 U	404 U	386 U	427 U

Table C-9
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
OTH-5485-2: TRASH SCATTER-DUMP,
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PARAMETER	Sample ID: Sample Date: Depth (ft):	OTH5485-2-NS06/D 3/14/00 0 - 0.17	OTH5485-2-SS01-Z1 4/3/00 0 - 2	OTH5485-2-SS01-Z2 4/4/00 28 - 30	OTH5485-2-SS02-Z1 4/6/00 0 - 2	OTH5485-2-SS02-Z2 4/6/00 20 - 22	OTH5485-2-SS03-Z1 4/7/00 0 - 2
Bis(2-chloroethoxy)methane		426 U	428 U	402 U	404 U	386 U	427 U
Bis(2-chloroethyl)ether		426 U	428 U	402 U	404 U	386 U	427 U
Bis(2-chloroisopropyl)ether		426 U	428 U	402 U	404 U	386 U	427 U
Bis(2-ethylhexyl)phthalate		426 U	146 J	402 U	404 U	78.8 J	427 U
Butyl benzyl phthalate		426 U	428 U	402 U	404 U	386 U	427 U
Carbazole		426 U	428 U	402 U	404 U	386 U	427 U
Chrysene		82.7 J	428 U	402 U	404 U	386 U	427 U
Di-n-butyl phthalate		426 U	428 U	402 U	404 U	386 U	427 U
Di-n-octyl phthalate		426 U	428 U	402 U	404 U	386 U	427 U
Dibenz(a,h)anthracene		426 UJ	428 UJ	402 U	404 U	386 U	427 U
Dibenzofuran		426 U	428 U	402 U	404 U	386 U	427 U
Diethyl phthalate		426 U	428 U	402 U	404 U	386 U	427 U
Dimethyl phthalate		426 U	428 U	402 U	404 U	386 U	427 U
Fluoranthene		113 J	428 U	402 U	48.5 J	386 U	427 U
Fluorene		426 U	428 U	402 U	404 U	386 U	427 U
Hexachlorobenzene		426 U	428 U	402 U	404 U	386 U	427 U
Hexachlorobutadiene		426 U	428 U	402 U	404 U	386 U	427 U
Hexachlorocyclopentadiene		1070 U	1080 U	1010 U	1020 U	972 U	1070 U
Hexachloroethane		426 U	428 U	402 U	404 U	386 U	427 U

Table C-9
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
OTH-5485-2: TRASH SCATTER-DUMP,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	OTH5485-2-NS06/D 3/14/00 0 - 0.17	OTH5485-2-SS01-Z1 4/3/00 0 - 2	OTH5485-2-SS01-Z2 4/4/00 28 - 30	OTH5485-2-SS02-Z1 4/6/00 0 - 2	OTH5485-2-SS02-Z2 4/6/00 20 - 22	OTH5485-2-SS03-Z1 4/7/00 0 - 2
Indeno(1,2,3-cd)pyrene		426 U	428 U	402 U	404 U	386 U	427 U
Isophorone		426 U	428 U	402 U	404 U	386 U	427 U
N-Nitrosodi-n-propylamine		426 U	428 U	402 U	404 U	386 U	427 U
N-Nitrosodimethylamine		426 U	428 U	402 U	404 U	386 U	427 U
N-Nitrosodiphenylamine		426 U	428 U	402 U	404 U	386 U	427 U
Naphthalene		426 U	428 U	402 U	404 U	386 U	427 U
Nitrobenzene		426 U	428 U	402 U	404 U	386 U	427 U
Polychlorophenol		1070 U	1080 U	1010 U	1020 U	972 U	1070 U
Phenanthrene		64.0 J	428 U	402 U	404 U	386 U	427 U
Phenol		426 U	428 U	402 U	404 U	386 U	427 U
Pyrene		170 J	428 U	402 U	43.0 J	386 U	427 U
Test : Semivolatiles - SW 8270C - Surrogates							
			Units: %				
2,4,6-Tribromophenol-s		78	84	83	85	82	77
2-Fluorobiphenyl-s		72	80	73	71	71	66
2-Fluorophenol-s		82	85	82	86	81	80
Nitrobenzene-d5-s		79	69	74	78	75	74
Phenol-d5-s		84	89	82	86	79	78
Terphenyl-d14-s		91	113	71	66	66	62

Table C-9
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OTH-5485-2: TRASH SCATTER-DUMP,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	OTH5485-2-NS06/D 3/14/00 0 - 0.17	OTH5485-2-SS01-Z1 4/3/00 0 - 2	OTH5485-2-SS01-Z2 4/4/00 28 - 30	OTH5485-2-SS02-Z1 4/6/00 0 - 2	OTH5485-2-SS02-Z2 4/6/00 20 - 22	OTH5485-2-SS03-Z1 4/7/00 0 - 2
Test : TAL Metals - SW6010B/7471A/7470A Units: mg/kg							
Aluminum		11100	19500	2680	12200	3090	13000
Antimony		2.24	0.971 U	1.14 U	0.862 U	1.17 U	1.04 U
Arsenic		0.957 J	4.32	1.24	4.12 J	1.94 U	3.00 U
Barium		207	63.1	7.04	108	8.44	54.6
Beryllium		0.559	0.797	0.132 J	0.396 J	0.587 U	0.381 J
Cadmium		8.09	4.30	0.671	2.80	1.03 J	3.05
Calcium		4150	1220	866	1610	899	125 U
Chromium		26.7	26.3	4.22	14.5	4.88	15.7
Cobalt		11.4	13.9	2.37	8.25	3.32	9.38
Copper		50.1	43.5	8.25	21.2	8.55 J	22.0
Iron		49700	40400	6670	23600	7880	26700
Lead		195	28.0	1.69	17.8	0.959	11.2
Magnesium		3300	6930	1430	2910	1440	2770
Manganese		1630	971	245	921	282	1120
Mercury		0.252 J	0.0618	0.0413 U	0.0485	0.0387 U	0.0413
Nickel		16.8	31.4	5.68	16.4	6.69	13.6
Potassium		1110	939 JB	484 U	512 U	542 U	631 U
Selenium		1.50 J	3.70	1.14 U	1.20 J	1.17 UR	2.46

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PARAMETER	Sample ID: Sample Date: Depth (ft):	OTH5485-2-NS06/D 3/14/00 0 - 0.17	OTH5485-2-SS01-Z1 4/3/00 0 - 2	OTH5485-2-SS01-Z2 4/4/00 28 - 30	OTH5485-2-SS02-Z1 4/6/00 0 - 2	OTH5485-2-SS02-Z2 4/6/00 20 - 22	OTH5485-2-SS03-Z1 4/7/00 0 - 2
Silver		0.367 J	0.971 U	1.14 U	0.331 U	0.840 U	0.507 U
Sodium		46.6 J	97.1 U	114 U	86.2 U	117 U	104 U
Thallium		1.06 UJ	0.971 U	1.14 U	0.449 J	1.17 U	0.806 J
Vanadium		26.0	30.7	5.35	19.7	6.28	23.0
Zinc		928 J	98.0	16.3	93.1	18.6	61.9
Test : Volatiles - SW 8260B							
			Units: µg/kg				
1,1,1-Trichloroethane		6.36 U	6.46 U	6.03 U	5.69 U	5.34 U	6.5 U
1,1,2,2-Tetrachloroethane		6.36 U	6.46 U	6.03 U	5.69 U	5.34 U	6.5 U
1,1,2-Trichloroethane		6.36 U	6.46 U	6.03 U	5.69 U	5.34 U	6.5 U
1,1-Dichloroethane		6.36 U	6.46 U	6.03 U	5.69 U	5.34 U	6.5 U
1,1-Dichloroethene		6.36 U	6.46 U	6.03 U	5.69 U	5.34 U	6.5 U
1,2-Dichlorobenzene		6.36 U	6.46 U	6.03 U	5.69 U	5.34 U	6.5 U
1,2-Dichloroethane		6.36 U	6.46 U	6.03 U	5.69 U	5.34 U	6.5 U
1,2-Dichloroethene, Total		6.36 U	6.46 U	6.03 U	5.69 U	5.34 U	6.5 U
1,2-Dichloropropane		6.36 U	6.46 U	6.03 U	5.69 U	5.34 U	6.5 U
1,3-Dichlorobenzene		6.36 U	6.46 U	6.03 U	5.69 U	5.34 U	6.5 U
1,4-Dichlorobenzene		6.36 U	6.46 U	6.03 U	5.69 U	5.34 U	6.5 U
2-Butanone		12.7 U	12.9 U	12.1 U	11.4 U	10.7 U	13 U
2-Chloroethyl vinyl ether		12.7 U	12.9 U	12.1 U	11.4 U	10.7 U	13 U

Table C-9
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
OTH-5485-2: TRASH SCATTER-DUMP,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	OTH5485-2-NS06/D 3/14/00 0 - 0.17	OTH5485-2-SS01-Z1 4/3/00 0 - 2	OTH5485-2-SS01-Z2 4/4/00 28 - 30	OTH5485-2-SS02-Z1 4/6/00 0 - 2	OTH5485-2-SS02-Z2 4/6/00 20 - 22	OTH5485-2-SS03-Z1 4/7/00 0 - 2
2-Hexanone		12.7 U	12.9 U	12.1 U	11.4 U	10.7 U	13 U
4-Methyl-2-pentanone		12.7 U	12.9 U	12.1 U	11.4 U	10.7 U	13 U
Acetone		12.7 U	12.9 U	5.67 JB	11.4 U	10.7 U	13 U
Benzene		6.36 U	6.46 U	6.03 U	5.69 U	5.34 U	6.5 U
Bromodichloromethane		6.36 U	6.46 U	6.03 U	5.69 U	5.34 U	6.5 U
Bromoform		6.36 U	6.46 U	6.03 U	5.69 U	5.34 U	6.5 U
Bromomethane		12.7 U	12.9 U	12.1 U	11.4 U	10.7 U	13 U
Carbon disulfide		6.36 U	6.46 U	6.03 U	5.69 U	5.34 U	6.5 U
Carbon tetrachloride		6.36 U	6.46 U	6.03 U	5.69 U	5.34 U	6.5 U
Chlorobenzene		6.36 U	6.46 U	6.03 U	5.69 U	5.34 U	6.5 U
Chloroethane		12.7 U	12.9 U	12.1 U	11.4 U	10.7 U	13 U
Chloroform		6.36 U	6.46 U	6.03 U	5.69 U	5.34 U	6.5 U
Chloromethane		12.7 U	12.9 U	12.1 U	11.4 U	10.7 U	13 U
cis-1,2-Dichloroethene		6.36 U	6.46 U	6.03 U	5.69 U	5.34 U	6.5 U
cis-1,3-Dichloropropene		6.36 U	6.46 U	6.03 U	5.69 U	5.34 U	6.5 U
Dibromochloromethane		6.36 U	6.46 U	6.03 U	5.69 U	5.34 U	6.5 U
Ethylbenzene		6.36 U	6.46 U	6.03 U	5.69 U	5.34 U	6.5 U
m,p-Xylene		6.36 U	6.46 U	6.03 U	5.69 U	5.34 U	6.5 U
Methylene chloride		6.36 U	6.46 U	6.03 U	5.69 U	5.34 U	6.5 U

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OTH-5485-2: TRASH SCATTER-DUMP,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	OTH5485-2-NS06/D 3/14/00 0 - 0.17	OTH5485-2-SS01-Z1 4/3/00 0 - 2	OTH5485-2-SS01-Z2 4/4/00 28 - 30	OTH5485-2-SS02-Z1 4/6/00 0 - 2	OTH5485-2-SS02-Z2 4/6/00 20 - 22	OTH5485-2-SS03-Z1 4/7/00 0 - 2
o-Xylene		6.36 U	6.46 U	6.03 U	5.69 U	5.34 U	6.5 U
Styrene		6.36 U	6.46 U	6.03 U	5.69 U	5.34 U	6.5 U
Tetrachloroethene		6.36 U	6.46 U	6.03 U	5.69 U	5.34 U	6.5 U
Toluene		6.36 U	6.46 U	6.03 U	5.69 U	5.34 U	6.5 U
trans-1,2-Dichloroethene		6.36 U	6.46 U	6.03 U	5.69 U	5.34 U	6.5 U
trans-1,3-Dichloropropene		6.36 U	6.46 U	6.03 U	5.69 U	5.34 U	6.5 U
Trichloroethene		6.36 U	6.46 U	6.03 U	5.69 U	5.34 U	6.5 U
Trichlorofluoromethane		6.36 U	6.46 U	6.03 U	5.69 U	5.34 U	6.5 U
Vinyl acetate		12.7 U	12.9 U	12.1 U	11.4 U	10.7 U	13 U
Vinyl chloride		12.7 U	12.9 U	12.1 U	11.4 U	10.7 U	13 U
Xylenes, Total		6.36 U	6.46 U	6.03 U	5.69 U	5.34 U	6.5 U
Test : Volatiles - SW 8260B - Surrogates							
			Units: %				
1,2-Dichloroethane-d4-s		109	117	107	96	96	97
4-Bromofluorobenzene-s		116	105	101	107	95	109
Dibromofluoromethane-s		109	108	111	96	94	100
Toluene-d8-s		105	93	91	100	95	102

Table C-9
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
OTH-5485-2: TRASH SCATTER-DUMP,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

Sample ID: OTH5485-2-SS03-Z2						
Sample Date: 4/7/00						
Depth (ft): 18.5 - 20.2						
PARAMETER						
Test : PCBs - SW 8082		Units: mg/kg				
Aroclor 1016	0.0264 U					
Aroclor 1221	0.0528 U					
Aroclor 1232	0.0264 U					
Aroclor 1242	0.0264 U					
Aroclor 1248	0.0264 U					
Aroclor 1254	0.0264 U					
Aroclor 1260	0.0264 U					
Test : PCBs - SW 8082 - Surrogates		Units: %				
Decachlorobiphenyl-s	89 %					
Tetrachloro-m-xylene-s	91 %					
Test : Percent Moisture - D2216		Units: %				
Percent Moisture	24.6					
Test : Pesticides - SW 8081A		Units: µg/kg				
4,4'-DDD	2.64 U					
4,4'-DDE	2.64 U					
4,4'-DDT	2.64 U					
Aldrin	1.32 U					
alpha-BHC	1.32 U					

Table C-9
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
OTH-5485-2: TRASH SCATTER-DUMP,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID:	Sample Date:	Depth (ft):	OTH5485-2-SS03-Z2				18.5 - 20.2				4/7/00				18.5 - 20.2			
alpha-Chlordane																			
beta-BHC																			
delta-BHC																			
Dieldrin																			
Endosulfan I																			
Endosulfan II																			
Epoxysulfan sulfate																			
Endrin																			
Endrin aldehyde																			
Endrin ketone																			
gamma-BHC																			
gamma-Chlordane																			
Hepachlor																			
Hepachlor epoxide																			
Methoxychlor																			
Toxaphene																			
Test : Pesticides - SW 8081A - Surrogates																			
				Units: %															
Decachlorobiphenyl-s																			
Tetrachloro-m-xylene-s																			

Table C-9
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
OTH-5485-2: TRASH SCATTER-DUMP,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID:	Sample Date:	Depth (ft):	Test : Semivolatiles - SW 8270C			Units: µg/kg		
	OTH5485-2-SS03-Z2	4/7/00	18.5 - 20.2						
1,2,4-Trichlorobenzene	425 U								
1,2-Dichlorobenzene	425 U								
1,3-Dichlorobenzene	425 U								
1,4-Dichlorobenzene	425 U								
2,4,5-Trichlorophenol	1070 U								
2,4,6-Trichlorophenol	425 U								
2,4-Dichlorophenol	425 U								
2,4-Dimethylphenol	425 U								
2,4-Dinitrophenol	425 U								
2,4-Dinitrotoluene	425 U								
2,6-Dinitrotoluene	425 U								
2-Chloronaphthalene	425 U								
2-Chlorophenol	425 U								
2-Methylnaphthalene	425 U								
2-Methylphenol	425 U								
2-Nitroaniline	1070 U								
2-Nitrophenol	425 U								
3,3'-Dichlorobenzidine	850 U								

Table C-9
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
OTH-5485-2: TRASH SCATTER-DUMP,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	OTH5485-2-SS03-Z2 4/7/00 18.5 - 20.2				
3-Nitroaniline	1070 U					
4,6-Dinitro-2-methylphenol	1070 U					
4-Bromophenyl phenyl ether	425 U					
4-Chloro-3-methylphenol	425 U					
4-Chloroaniline	425 U					
4-Chlorophenyl phenyl ether	425 U					
4-Methylphenol	425 U					
4-Nitroaniline	1070 U					
4-Nitrophenol	1070 U					
Acenaphthene	425 U					
Acenaphthylene	425 U					
Anthracene	425 U					
Benz(a)anthracene	425 U					
Benzo(a)pyrene	425 U					
Benzo(b)fluoranthene	425 U					
Benzo(g,h,i)perylene	425 U					
Benzo(k)fluoranthene	425 U					
Benzoic acid	1070 U					
Benzyl alcohol	425 U					

Table C-9
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
OTH-5485-2: TRASH SCATTER-DUMP,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	OTH5485-2-SS03-Z2 4/7/00 18.5 - 20.2				
Bis(2-chloroethoxy)methane	425 U					
Bis(2-chloroethyl)ether	425 U					
Bis(2-chloroisopropyl)ether	425 U					
Bis(2-ethylhexyl)phthalate	90.8 J					
Butyl benzyl phthalate	425 U					
Carbazole	425 U					
Chrysene	425 U					
Di-n-butyl phthalate	425 U					
Di-n-octyl phthalate	425 U					
Dibenz(a,h)anthracene	425 U					
Dibenzofuran	425 U					
Diethyl phthalate	425 U					
Dimethyl phthalate	425 U					
Fluoranthene	425 U					
Fluorene	425 U					
Hexachlorobenzene	425 U					
Hexachlorobutadiene	425 U					
Hexachlorocyclopentadiene	1070 U					
Hexachloroethane	425 U					

Table C-9
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM

PARAMETER	Sample ID:	Sample Date:	Depth (ft):	OTHS485-2-SS03-Z2	4/7/00	18.5 - 20.2
Indeno(1,2,3-cd)pyrene	425 U					
Isophorone	425 U					
N-Nitrosodi-n-propylamine	425 U					
N-Nitrosodimethylamine	425 U					
N-Nitrosodiphenylamine	425 U					
Naphthalene	425 U					
Nitrobenzene	425 U					
Polychlorophenol	1070 U					
Phenanthrene	425 U					
Phenol	425 U					
Pyrene	425 U					
Test : Semivolatiles - SW 8270C - Surrogates						
Units: %						
2,4,6-Tribromophenol-s	78					
2-Fluorobiphenyl-s	73					
2-Fluorophenol-s	78					
Nitrobenzene-d5-s	76					
Phenol-d5-s	80					
Terphenyl-d14-s	67					

Table C-9
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
OTH-5485-2: TRASH SCATTER-DUMP,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER Sample ID: Sample Date: Depth (ft):	OTH5485-2-SS03-Z2 4/7/00 18.5 - 20.2				
---	--	--	--	--	--

Test : TAL Metals - SW6010B/7471A/7470A Units: mg/kg					
Aluminum	5280				
Antimony	1.25 U				
Arsenic	2.95 U				
Barium	18.9				
Beryllium	0.242 J				
Cadmium	1.57				
Copper	1250				
Chromium	6.61				
Cobalt	4.51				
Copper	18.4				
Iron	12700				
Lead	2.48				
Magnesium	1940				
Manganese	395				
Mercury	0.0438 U				
Nickel	10.3				
Potassium	701 JB				
Selenium	1.25 U				

Table C-9
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
OTH-5485-2: TRASH SCATTER-DUMP,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID:	OTH5485-2-SS03-Z2				
	Sample Date:	4/7/00				
	Depth (ft):	18.5 - 20.2				
Silver		0.728 U				
Sodium		125 U				
Thallium		1.25 U				
Vanadium		9.78				
Zinc		32.2				
Test : Volatiles - SW 8260B						
			Units: µg/kg			
1,1,1-Trichloroethane		6.32 U				
1,1,2,2-Tetrachloroethane		6.32 U				
1,1,2-Trichloroethane		6.32 U				
1,1-Dichloroethane		6.32 U				
1,1-Dichloroethene		6.32 U				
1,2-Dichlorobenzene		6.32 U				
1,2-Dichloroethane		6.32 U				
1,2-Dichloroethene, Total		6.32 U				
1,2-Dichloropropane		6.32 U				
1,3-Dichlorobenzene		6.32 U				
1,4-Dichlorobenzene		6.32 U				
2-Butanone		12.6 U				
2-Chloroethyl vinyl ether		12.6 U				

Table C-9
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
OTH-5485-2: TRASH SCATTER-DUMP,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	OTH5485-2-SS03-Z2 4/7/00 18.5 - 20.2				
2-Hexanone	12.6 U					
4-Methyl-2-pentanone	12.6 U					
Acetone	12.6 U					
Benzene	6.32 U					
Bromodichloromethane	6.32 U					
Bromoform	6.32 U					
Bromomethane	12.6 U					
Carbon disulfide	6.32 U					
Carbon tetrachloride	6.32 U					
Chlorobenzene	6.32 U					
Chloroethane	12.6 U					
Chloroform	6.32 U					
Chloromethane	12.6 U					
cis-1,2-Dichloroethene	6.32 U					
cis-1,3-Dichloropropene	6.32 U					
Dibromochloromethane	6.32 U					
Ethylbenzene	6.32 U					
m,p-Xylene	6.32 U					
Methylene chloride	6.32 U					

Table C-9
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
OTH-5485-2: TRASH SCATTER-DUMP,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID:	OTH5485-2-SS03-Z2				
	Sample Date: Depth (ft):					
	4/7/00 18.5 - 20.2					
o-Xylene	6.32 U					
Styrene	6.32 U					
Tetrachloroethene	6.32 U					
Toluene	6.32 U					
trans-1,2-Dichloroethene	6.32 U					
trans-1,3-Dichloropropene	6.32 U					
Trichloroethene	6.32 U					
Trichlorofluoromethane	6.32 U					
Vinyl acetate	12.6 U					
Vinyl chloride	12.6 U					
Xylenes, Total	6.32 U					
Test : Volatiles - SW 8260B - Surrogates						
		Units: %				
1,2-Dichloroethane-d4-s	96					
4-Bromofluorobenzene-s	98					
Dibromofluoromethane-s	96					
Toluene-d8-s	97					

Table C-9
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
OTH-5485-2: TRASH SCATTER-DUMP,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

Key:

Qualifiers:

J	estimated
JB	estimated, detected in blank
U	not detected
UJ	not detected; estimated detection limit reported
UR	not detected; rejected sample

Surrogate Limits:	Analysis	Media	Surrogates	Recovery Range
	PCBs by Method 8082	Soil	Decachlorobiphenyl-s	52 - 115%
			Tetrachloro-m-xylene-s	39 - 125%
	Pesticides by Method 8081A		Decachlorobiphenyl-s	39 - 135%
			Tetrachloro-m-xylene-s	47 - 140%
	Semivolatile Organics by Method 8270C		2,4,6-Tribromophenol-s	32 - 130%
			2-Fluorobiphenyl-s	27 - 123%
			2-Fluorophenol-s	36 - 135%
			Nitrobenzene-d5-s	25 - 122%
			Phenol-d5-s	36 - 128%
			Terphenyl-d14-s	51 - 116%
	Volatile Organic Compounds by Method 8260B		1,2-Dichloroethane-d4-s	77 - 119%
			4-Bromofluorobenzene-s	88 - 124%
			Dibromofluoromethane-s	83 - 117%
			Toluene-d8-s	84 - 119%

Units:

mg/L = milligrams per liter
mg/kg = milligrams per kilogram
µg/L = micrograms per liter
µg/kg = micrograms per kilogram

Test and Sample Information:

PCBs = polychlorinated biphenyls
TAL = Target Analyte List

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Table C-10
COMPLETE ANALYTICAL DATA SUMMARY FOR THE GROUNDWATER SAMPLES FROM
OTH-5485-2: TRASH SCATTER-DUMP,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	OTH5485-2-SS01-GW 5/4/00 29 - 39	OTH5485-2-SS01-GW-F 5/4/00 29 - 39	OTH5485-2-SS02-GW 5/2/00 20.6 - 30.6	OTH5485-2-SS02-GW-F 5/2/00 20.6 - 30.6	OTH5485-2-SS03-GW 5/3/00 18 - 28	OTH5485-2-SS03-GW-F 5/3/00 18 - 28
Test : PCBs - SW 8082Units: µg/L							
Aroclor 1016	0.5 U	NA	0.5 U	NA	0.5 U	NA	
Aroclor 1221	1 U	NA	1 U	NA	1 U	NA	
Aroclor 1232	0.5 U	NA	0.5 U	NA	0.5 U	NA	
Aroclor 1242	0.5 U	NA	0.5 U	NA	0.5 U	NA	
Aroclor 1248	0.5 U	NA	0.5 U	NA	0.5 U	NA	
Aroclor 1254	0.5 U	NA	0.5 U	NA	0.5 U	NA	
Aroclor 1260	0.5 U	NA	0.5 U	NA	0.5 U	NA	
Test : PCBs - SW 8082 - SurrogatesUnits: %							
Decachlorobiphenyl-s	62	NA	73	NA	87	NA	
Tetrachloro-m-xylene-s	94	NA	85	NA	101	NA	
Test : Pesticides - SW 8081AUnits: µg/L							
4,4'-DDD	0.05 U	NA	0.05 U	NA	0.05 U	NA	
4,4'-DDE	0.05 U	NA	0.05 U	NA	0.05 U	NA	
4,4'-DDT	0.05 U	NA	0.05 U	NA	0.05 U	NA	
Aldrin	0.025 U	NA	0.025 U	NA	0.025 U	NA	
alpha-BHC	0.025 U	NA	0.025 U	NA	0.025 U	NA	
alpha-Chlordane	0.025 U	NA	0.025 U	NA	0.025 U	NA	
beta-BHC	0.025 U	NA	0.025 U	NA	0.025 U	NA	

Table C-10
COMPLETE ANALYTICAL DATA SUMMARY FOR THE GROUNDWATER SAMPLES FROM
OTH-5485-2: TRASH SCATTER-DUMP,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	OTH5485-2-SS01-GW 5/4/00 29 - 39	OTH5485-2-SS01-GW-F 5/4/00 29 - 39	OTH5485-2-SS02-GW 5/2/00 20.6 - 30.6	OTH5485-2-SS02-GW-F 5/2/00 20.6 - 30.6	OTH5485-2-SS03-GW 5/3/00 18 - 28	OTH5485-2-SS03-GW-F 5/3/00 18 - 28
delta-BHC		0.025 U	NA	0.025 U	NA	0.025 U	NA
Dieldrin		0.05 U	NA	0.05 U	NA	0.05 U	NA
Endosulfan I		0.05 U	NA	0.05 U	NA	0.05 U	NA
Endosulfan II		0.05 U	NA	0.05 U	NA	0.05 U	NA
Endosulfan sulfate		0.05 U	NA	0.05 U	NA	0.05 U	NA
Endrin		0.05 U	NA	0.05 U	NA	0.05 U	NA
Endrin aldehyde		0.05 U	NA	0.05 U	NA	0.05 U	NA
Endrin ketone		0.05 U	NA	0.05 U	NA	0.05 U	NA
gamma-BHC		0.025 U	NA	0.025 U	NA	0.025 U	NA
gamma-Chlordane		0.025 U	NA	0.025 U	NA	0.025 U	NA
Heptachlor		0.025 U	NA	0.025 U	NA	0.025 U	NA
Heptachlor epoxide		0.025 U	NA	0.025 U	NA	0.025 U	NA
Methoxychlor		0.25 U	NA	0.25 U	NA	0.25 U	NA
Toxaphene		1 U	NA	1 U	NA	1 U	NA
Test : Pesticides - SW 8081A - Surrogates Units: %							
Decachlorobiphenyl-s		60	NA	74	NA	97	NA
Tetrachloro-m-xylene-s		76	NA	81	NA	89	NA
Test : Semivolatiles - SW 8270C Units: µg/L							
1,2,4-Trichlorobenzene		10 U	NA	10 U	NA	10 U	NA

Table C-10
COMPLETE ANALYTICAL DATA SUMMARY FOR THE GROUNDWATER SAMPLES FROM
OTH-5485-2: TRASH SCATTER-DUMP,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID:	OTH5485-2-SS01-GW	OTH5485-2-SS01-GW-F	OTH5485-2-SS02-GW	OTH5485-2-SS02-GW-F	OTH5485-2-SS03-GW	OTH5485-2-SS03-GW-F
	Sample Date: Depth (ft):	5/4/00 29 - 39	5/4/00 29 - 39	5/2/00 20.6 - 30.6	5/2/00 20.6 - 30.6	5/3/00 18 - 28	5/3/00 18 - 28
1,2-Dichlorobenzene		10 U	NA	10 U	NA	10 U	NA
1,3-Dichlorobenzene		10 U	NA	10 U	NA	10 U	NA
1,4-Dichlorobenzene		10 U	NA	10 U	NA	10 U	NA
2,4,5-Trichlorophenol		50 U	NA	50 U	NA	50 U	NA
2,4,6-Trichlorophenol		10 U	NA	10 U	NA	10 U	NA
2,4-Dichlorophenol		10 U	NA	10 U	NA	10 U	NA
2,4-Dimethylphenol		10 U	NA	10 U	NA	10 U	NA
2,4-Dinitrophenol		50 U	NA	50 U	NA	50 U	NA
2,4-Dinitrotoluene		10 U	NA	10 U	NA	10 U	NA
2,6-Dinitrotoluene		10 U	NA	10 U	NA	10 U	NA
2-Chloronaphthalene		10 U	NA	10 U	NA	10 U	NA
2-Chlorophenol		10 U	NA	10 U	NA	10 U	NA
2-Methylnaphthalene		10 U	NA	10 U	NA	10 U	NA
2-Methylphenol		10 U	NA	10 U	NA	10 U	NA
2-Nitroaniline		50 U	NA	50 U	NA	50 U	NA
2-Nitrophenol		10 U	NA	10 U	NA	10 U	NA
3,3'-Dichlorobenzidine		40 U	NA	40 U	NA	40 U	NA
3-Nitroaniline		50 U	NA	50 U	NA	50 U	NA
4,6-Dinitro-2-methylphenol		50 U	NA	50 U	NA	50 U	NA

Table C-10
COMPLETE ANALYTICAL DATA SUMMARY FOR THE GROUNDWATER SAMPLES FROM
OTH-5485-2: TRASH SCATTER-DUMP,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

Sample ID: Sample Date: Depth (ft): PARAMETER	OTH5485-2-SS01-GW 5/4/00 29 - 39	OTH5485-2-SS01-GW-F 5/4/00 29 - 39	OTH5485-2-SS02-GW 5/2/00 20.6 - 30.6	OTH5485-2-SS02-GW-F 5/2/00 20.6 - 30.6	OTH5485-2-SS03-GW 5/3/00 18 - 28	OTH5485-2-SS03-GW-F 5/3/00 18 - 28
4-Bromophenyl phenyl ether	10 U	NA	10 U	NA	10 U	NA
4-Chloro-3-methylphenol	10 U	NA	10 U	NA	10 U	NA
4-Chloroaniline	20 U	NA	20 U	NA	20 U	NA
4-Chlorophenyl phenyl ether	10 U	NA	10 U	NA	10 U	NA
4-Methylphenol	20 U	NA	20 U	NA	20 U	NA
4-Nitroaniline	50 U	NA	50 U	NA	50 U	NA
4-Nitrophenol	50 U	NA	50 U	NA	50 U	NA
Acenaphthene	10 U	NA	10 U	NA	10 U	NA
Acenaphthylene	10 U	NA	10 U	NA	10 U	NA
Anthracene	10 U	NA	10 U	NA	10 U	NA
Benz(a)anthracene	10 U	NA	10 U	NA	10 U	NA
Benzo(a)pyrene	10 U	NA	10 U	NA	10 U	NA
Benzo(b)fluoranthene	10 U	NA	10 U	NA	10 U	NA
Benzo(g,h,i)perylene	10 U	NA	10 U	NA	10 U	NA
Benzo(k)fluoranthene	10 U	NA	10 U	NA	10 U	NA
Benzoic acid	100 U	NA	100 U	NA	100 U	NA
Benzyl alcohol	10 U	NA	10 U	NA	10 U	NA
Bis(2-chloroethoxy)methane	10 U	NA	10 U	NA	10 U	NA
Bis(2-chloroethyl)ether	10 U	NA	10 U	NA	10 U	NA

Table C-10
COMPLETE ANALYTICAL DATA SUMMARY FOR THE GROUNDWATER SAMPLES FROM
OTH-5485-2: TRASH SCATTER-DUMP,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	OTH5485-2-SS01-GW 5/4/00 29 - 39	OTH5485-2-SS01-GW-F 5/4/00 29 - 39	OTH5485-2-SS02-GW 5/2/00 20.6 - 30.6	OTH5485-2-SS02-GW-F 5/2/00 20.6 - 30.6	OTH5485-2-SS03-GW 5/3/00 18 - 28	OTH5485-2-SS03-GW-F 5/3/00 18 - 28
Bis(2-chloroisopropyl)ether	10 U	NA	10 U	NA	10 U	NA	
Bis(2-ethylhexyl)phthalate	20 U	NA	20 U	NA	20 U	NA	
Butyl benzyl phthalate	10 U	NA	10 U	NA	10 U	NA	
Carbazole	10 U	NA	10 U	NA	10 U	NA	
Chrysene	10 U	NA	10 U	NA	10 U	NA	
Di-n-butyl phthalate	10 U	NA	10 U	NA	10 U	NA	
Di-n-octyl phthalate	10 U	NA	10 U	NA	10 U	NA	
Dibenz(a,h)anthracene	10 U	NA	10 U	NA	10 U	NA	
Dibenzofuran	10 U	NA	10 U	NA	10 U	NA	
Diethyl phthalate	10 U	NA	10 U	NA	10 U	NA	
Dimethyl phthalate	10 U	NA	10 U	NA	10 U	NA	
Fluoranthene	10 U	NA	10 U	NA	10 U	NA	
Fluorene	10 U	NA	10 U	NA	10 U	NA	
Hexachlorobenzene	10 U	NA	10 U	NA	10 U	NA	
Hexachlorobutadiene	10 U	NA	10 U	NA	10 U	NA	
Hexachlorocyclopentadiene	50 U	NA	50 U	NA	50 U	NA	
Hexachloroethane	10 U	NA	10 U	NA	10 U	NA	
Indeno(1,2,3-cd)pyrene	10 U	NA	10 U	NA	10 U	NA	
Isophorone	10 U	NA	10 U	NA	10 U	NA	

Table C-10
COMPLETE ANALYTICAL DATA SUMMARY FOR THE GROUNDWATER SAMPLES FROM
OTH-5485-2: TRASH SCATTER-DUMP.

PARAMETER	Sample ID: Sample Date: Depth (ft):	OTH5485-2-SS01-GW 5/4/00 29 - 39	OTH5485-2-SS01-GW-F 5/4/00 29 - 39	OTH5485-2-SS02-GW 5/2/00 20.6 - 30.6	OTH5485-2-SS02-GW-F 5/2/00 20.6 - 30.6	OTH5485-2-SS03-GW 5/3/00 18 - 28	OTH5485-2-SS03-GW-F 5/3/00 18 - 28
N-Nitrosodi-n-propylamine		10 U	NA	10 U	NA	10 U	NA
N-Nitrosodimethylamine		10 U	NA	10 U	NA	10 U	NA
N-Nitrosodiphenylamine		10 U	NA	10 U	NA	10 U	NA
Naphthalene		10 U	NA	10 U	NA	10 U	NA
Nitrobenzene		10 U	NA	10 U	NA	10 U	NA
Pentachlorophenol		50 U	NA	50 U	NA	50 U	NA
Phenanthrene		10 U	NA	10 U	NA	10 U	NA
Phenol		10 U	NA	10 U	NA	10 U	NA
Pyrene		10 U	NA	10 U	NA	10 U	NA
Test : Semivolatiles - SW 8270C - Surrogates Units: %							
2,4,6-Tribromophenol-s		133	NA	75	NA	104	NA
2-Fluorobiphenyl-s		84	NA	72	NA	64	NA
2-Fluorophenol-s		54	NA	40	NA	45	NA
Nitrobenzene-d5-s		81	NA	65	NA	63	NA
Phenol-d5-s		37	NA	24	NA	29	NA
Terphenyl-d14-s		71	NA	69	NA	62	NA
Test : TAL Metals - SW6010B/7471A/7470A Units: µg/L							
Aluminum		122 J	22.3 U	241	56.9 U	50.1 U	11.7 U
Antimony		10 U	10 U	10 U	10 U	10 U	10 U

Table C-10
COMPLETE ANALYTICAL DATA SUMMARY FOR THE GROUNDWATER SAMPLES FROM
OTH-5485-2: TRASH SCATTER-DUMP,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	OTH5485-2-SS01-GW 5/4/00 29 - 39	OTH5485-2-SS01-GW-F 5/4/00 29 - 39	OTH5485-2-SS02-GW 5/2/00 20.6 - 30.6	OTH5485-2-SS02-GW-F 5/2/00 20.6 - 30.6	OTH5485-2-SS03-GW 5/3/00 18 - 28	OTH5485-2-SS03-GW-F 5/3/00 18 - 28
Arsenic		10 U	10 U	10 U	10 U	10 U	10 U
Barium		12.2 J	10.5 J	3.22 J	2.53 J	3.08 J	3.10 J
Beryllium		5 U	5 U	0.289 U	0.109 U	5 U	5 U
Cadmium		5 U	5 U	5 U	5 U	5 U	5 U
Calcium		21400	22200	12500	14300	8600 J	8860
Chromium		10 U	10 U	1.91 U	10 U	10 U	10 U
Cobalt		20 U	20 U	20 U	0.611 J	20 U	0.732 J
Copper		20 U	20 U	20 U	20 U	20 U	20 U
Iron		213 J	84.4	316	64.6 U	73.9 U	22.6 U
Lead		5 U	5 U	5 U	5 U	5 U	5 U
Magnesium		6700 J	6970 J	3240	3520	2380 J	2500 J
Manganese		244 J	231	78.4	75.8	160	168 J
Mercury		0.2 U	0.2 UR	0.2 U	0.197 U	0.0438 U	0.0308 U
Nickel		20 U	20 U	20 U	20 U	20 U	20 U
Potassium		858 J	763 J	923 J	919 J	854 J	1020
Selenium		9.95 J	10 U	10 U	11.8	10 U	10 U
Silver		10 U	10 U	10 U	10 U	10 UJ	10 U
Sodium		5320	5620	2850	3250	2020	2110
Thallium		10 U	10 U	10 U	10 U	10 U	10 U

Table C-10
COMPLETE ANALYTICAL DATA SUMMARY FOR THE GROUNDWATER SAMPLES FROM
OTH-5485-2: TRASH SCATTER-DUMP,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	OTH5485-2-SS01-GW 5/4/00 29 - 39	OTH5485-2-SS01-GW-F 5/4/00 29 - 39	OTH5485-2-SS02-GW 5/2/00 20.6 - 30.6	OTH5485-2-SS02-GW-F 5/2/00 20.6 - 30.6	OTH5485-2-SS03-GW 5/3/00 18 - 28	OTH5485-2-SS03-GW-F 5/3/00 18 - 28
Vanadium		20 U	20 U	20 U	20 U	20 U	20 U
Zinc		4.18 J	4.88 U	4.61 J	4.46 J	10 U	4.33 J
Test : Volatiles - SW 8260B Units: µg/L							
1,1,1-Trichloroethane		5 U	NA	5 U	NA	5 U	NA
1,1,2,2-Tetrachloroethane		5 U	NA	5 U	NA	5 U	NA
1,1,2-Trichloroethane		5 U	NA	5 U	NA	5 U	NA
1,1-Dichloroethane		5 U	NA	5 U	NA	5 U	NA
1,1-Dichloroethene		5 U	NA	5 U	NA	5 U	NA
1,2-Dichlorobenzene		5 U	NA	5 U	NA	5 U	NA
1,2-Dichloroethane		5 U	NA	5 U	NA	5 U	NA
1,2-Dichloroethene, Total		5 U	NA	5 U	NA	5 U	NA
1,2-Dichloropropane		5 U	NA	5 U	NA	5 U	NA
1,3-Dichlorobenzene		5 U	NA	5 U	NA	5 U	NA
1,4-Dichlorobenzene		5 U	NA	5 U	NA	5 U	NA
2-Butanone		10 U	NA	10 U	NA	10 U	NA
2-Chloroethyl vinyl ether		10 U	NA	10 U	NA	10 U	NA
2-Hexanone		10 U	NA	10 U	NA	10 U	NA
4-Methyl-2-pentanone		10 U	NA	10 U	NA	10 U	NA
Acetone		7.58 U	NA	10 U	NA	10 U	NA

Table C-10
COMPLETE ANALYTICAL DATA SUMMARY FOR THE GROUNDWATER SAMPLES FROM
OTH-5485-2: TRASH SCATTER-DUMP,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	OTH5485-2-SS01-GW 5/4/00 29 - 39	OTH5485-2-SS01-GW-F 5/4/00 29 - 39	OTH5485-2-SS02-GW 5/2/00 20.6 - 30.6	OTH5485-2-SS02-GW-F 5/2/00 20.6 - 30.6	OTH5485-2-SS03-GW 5/3/00 18 - 28	OTH5485-2-SS03-GW-F 5/3/00 18 - 28
Benzene		5 U	NA	5 U	NA	5 U	NA
Bromodichloromethane		5 U	NA	5 U	NA	5 U	NA
Bromoform		5 U	NA	5 U	NA	5 U	NA
Bromomethane		10 U	NA	10 U	NA	10 U	NA
Carbon disulfide		5 U	NA	5 U	NA	5 U	NA
Carbon tetrachloride		5 U	NA	5 U	NA	5 U	NA
Chlorobenzene		5 U	NA	5 U	NA	5 U	NA
Chloroethane		10 U	NA	10 U	NA	10 U	NA
Chloroform		5 U	NA	5 U	NA	5 U	NA
Chloromethane		10 U	NA	10 U	NA	10 U	NA
cis-1,2-Dichloroethene		5 U	NA	5 U	NA	5 U	NA
cis-1,3-Dichloropropene		5 U	NA	5 U	NA	5 U	NA
Dibromochloromethane		5 U	NA	5 U	NA	5 U	NA
Ethylbenzene		5 U	NA	5 U	NA	5 U	NA
m,p-Xylene		5 U	NA	5 U	NA	5 U	NA
Methylene chloride		5 U	NA	5 U	NA	5 U	NA
o-Xylene		5 U	NA	5 U	NA	5 U	NA
Styrene		5 U	NA	5 U	NA	5 U	NA
Tetrachloroethene		5 U	NA	5 U	NA	5 U	NA

Table C-10
COMPLETE ANALYTICAL DATA SUMMARY FOR THE GROUNDWATER SAMPLES FROM
OTH-5485-2: TRASH SCATTER-DUMP,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	OTH5485-2-SS01-GW 5/4/00 29 - 39	OTH5485-2-SS01-GW-F 5/4/00 29 - 39	OTH5485-2-SS02-GW 5/2/00 20.6 - 30.6	OTH5485-2-SS02-GW-F 5/2/00 20.6 - 30.6	OTH5485-2-SS03-GW 5/3/00 18 - 28	OTH5485-2-SS03-GW-F 5/3/00 18 - 28
Toluene		5 U	NA	5 U	NA	5 U	NA
trans-1,2-Dichloroethene		5 U	NA	5 U	NA	5 U	NA
trans-1,3-Dichloropropene		5 U	NA	5 U	NA	5 U	NA
Trichloroethene		5 U	NA	5 U	NA	5 U	NA
Trichlorofluoromethane		5 U	NA	5 U	NA	5 U	NA
Vinyl acetate		10 U	NA	10 U	NA	10 U	NA
Vinyl chloride		10 U	NA	10 U	NA	10 U	NA
Xylenes, Total		5 U	NA	5 U	NA	5 U	NA
Test : Volatiles - SW 8260B - Surrogates							
				Units: %			
1,2-Dichloroethane-d4-s		98	NA	101	NA	106	NA
4-Bromofluorobenzene-s		99	NA	96	NA	105	NA
Dibromofluoromethane-s		98	NA	101	NA	106	NA
Toluene-d8-s		100	NA	98	NA	104	NA

Table C-10
COMPLETE ANALYTICAL DATA SUMMARY FOR THE GROUNDWATER SAMPLES FROM
OTH-5485-2: TRASH SCATTER-DUMP,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID:	OTH5485-2-SS03-GWD	Sample Date:	5/3/00	18 - 28						Test : PCBs - SW 8082	
	Depth (ft):											
	Units: µg/L											
Aroclor 1016	0.5 U										Test : PCBs - SW 8082 - Surrogates	
											Units: %	
Aroclor 1221	1 U											
Aroclor 1232	0.5 U											
Aroclor 1242	0.5 U											
Aroclor 1248	0.5 U											
Aroclor 1254	0.5 U											
Aroclor 1260	0.5 U											
Test : Pesticides - SW 8081A												
Units: µg/L												
4,4'-DDD	0.05 U											
4,4'-DDB	0.05 U											
4,4'-DDT	0.05 U											
Aldrin	0.025 U											
alpha-BHC	0.025 U											
alpha-Chlordane	0.025 U											
beta-BHC	0.025 U											

Table C-10
COMPLETE ANALYTICAL DATA SUMMARY FOR THE GROUNDWATER SAMPLES FROM
OTH-5485-2: TRASH SCATTER-DUMP,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	OTH5485-2-SS03-GW/D 5/3/00 18 - 28					
delta-BHC	0.025 U						
Dieldrin	0.05 U						
Endosulfan I	0.05 U						
Endosulfan II	0.05 U						
Endosulfan sulfate	0.05 U						
Endrin	0.05 U						
Endrin aldehyde	0.05 U						
Endrin ketone	0.05 U						
gamma-BHC	0.025 U						
gamma-Chlordane	0.025 U						
Heptachlor	0.025 U						
Heptachlor epoxide	0.025 U						
Methoxychlor	0.25 U						
Toxaphene	1 U						
Test : Pesticides - SW 8081A - Surrogates		Units: %					
Decachlorobiphenyl-s	81						
Tetrachloro-m-xylene-s	79						
Test : Semivolatiles - SW 8270C		Units: µg/L					
1,2,4-Trichlorobenzene	10 U						

Table C-10
COMPLETE ANALYTICAL DATA SUMMARY FOR THE GROUNDWATER SAMPLES FROM
OTH-5485-2: TRASH SCATTER-DUMP,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID:	OTH5485-2-SS03-GW/D				
	Sample Date:	5/3/00				
	Depth (ft):	18 - 28				
1,2-Dichlorobenzene	10 U					
1,3-Dichlorobenzene	10 U					
1,4-Dichlorobenzene	10 U					
2,4,5-Trichlorophenol	50 U					
2,4,6-Trichlorophenol	10 U					
2,4-Dichlorophenol	10 U					
2,4-Dimethylphenol	10 U					
2,4-Dinitrophenol	50 U					
2,4-Dinitrotoluene	10 U					
2,6-Dinitrotoluene	10 U					
2-Chloronaphthalene	10 U					
2-Chlorophenol	10 U					
2-Methylnaphthalene	10 U					
2-Methylphenol	10 U					
2-Nitroaniline	50 U					
2-Nitrophenol	10 U					
3,3'-Dichlorobenzidine	40 U					
3-Nitroaniline	50 U					
4,6-Dinitro-2-methylphenol	50 U					

Table C-10
COMPLETE ANALYTICAL DATA SUMMARY FOR THE GROUNDWATER SAMPLES FROM
OTH-5485-2: TRASH SCATTER-DUMP,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	OTH5485-2-SS03-GW/D 5/3/00 18 - 28					
4-Bromophenyl phenyl ether	10 U						
4-Chloro-3-methylphenol	10 U						
4-Chloroaniline	20 U						
4-Chlorophenyl phenyl ether	10 U						
4-Methylphenol	20 U						
4-Nitroaniline	50 U						
4-Nitrophenol	50 U						
Acenaphthene	10 U						
Acenaphthylene	10 U						
Anthracene	10 U						
Benz(a)anthracene	10 U						
Benzo(a)pyrene	10 U						
Benzo(b)fluoranthene	10 U						
Benzo(g,h,i)perylene	10 U						
Benzo(k)fluoranthene	10 U						
Benzoic acid	100 U						
Benzyl alcohol	10 U						
Bis(2-chloroethoxy)methane	10 U						
Bis(2-chloroethyl)ether	10 U						

Table C-10
COMPLETE ANALYTICAL DATA SUMMARY FOR THE GROUNDWATER SAMPLES FROM
OTH-5485-2: TRASH SCATTER-DUMP,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	OTH5485-2-SS03-GW/D 5/3/00 18 - 28					
Bis(2-chloroisopropyl)ether	10 U						
Bis(2-ethylhexyl)phthalate	20 U						
Butyl benzyl phthalate	10 U						
Carbazole	10 U						
Chrysene	10 U						
Di-n-butyl phthalate	10 U						
Di-n-octyl phthalate	10 U						
Dibenz(a,h)anthracene	10 U						
Dibenzofuran	10 U						
Diethyl phthalate	10 U						
Dimethyl phthalate	10 U						
Fluoranthene	10 U						
Fluorene	10 U						
Hexachlorobenzene	10 U						
Hexachlorobutadiene	10 U						
Hexachlorocyclopentadiene	50 U						
Hexachloroethane	10 U						
Indeno(1,2,3-cd)pyrene	10 U						
Isophorone	10 U						

Table C-10
COMPLETE ANALYTICAL DATA SUMMARY FOR THE GROUNDWATER SAMPLES FROM
OTH-5485-2: TRASH SCATTER-DUMP,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID:	OTH5485-2-SS03-GW/D					
	Sample Date:	5/3/00					
	Depth (ft):	18 - 28					
N-Nitrosodi-n-propylamine	10 U						
N-Nitrosodimethylamine	10 U						
N-Nitrosodiphenylamine	10 U						
Naphthalene	10 U						
Nitrobenzene	10 U						
Pentachlorophenol	50 U						
Phenanthrene	10 U						
Phenol	10 U						
Pyrene	10 U						
Test : Semivolatiles - SW 8270C - Surrogates							
			Units:	%			
2,4,6-Tribromophenol-s	92						
2-Fluorobiphenyl-s	93						
2-Fluorophenol-s	57						
Nitrobenzene-d5-s	86						
Phenol-d5-s	35						
Terphenyl-d14-s	87						
Test : TAL Metals - SW6010B/7471A/7470A							
			Units:	µg/L			
Aluminum	33.7 U						
Antimony	10 U						

Table C-10
COMPLETE ANALYTICAL DATA SUMMARY FOR THE GROUNDWATER SAMPLES FROM
OTH-5485-2: TRASH SCATTER-DUMP,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID:	OTH5485-2-SS03-GW/D				
	Sample Date:	5/3/00				
	Depth (ft):	18 - 28				
Arsenic	10 U					
Barium	3.32 J					
Beryllium	5 U					
Cadmium	5 U					
Calcium	8500 J					
Chromium	10 U					
Cobalt	0.753 J					
Copper	20 U					
Iron	51.3 U					
Lead	5 U					
Magnesium	2380 J					
Manganese	154					
Mercury	0.2 U					
Nickel	20 U					
Potassium	873 J					
Selenium	10 U					
Silver	10 UJ					
Sodium	2000					
Thallium	10 U					

Table C-10
COMPLETE ANALYTICAL DATA SUMMARY FOR THE GROUNDWATER SAMPLES FROM
OTH-5485-2: TRASH SCATTER-DUMP,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID:	OTH5485-2-SS03-GW/D				
	Sample Date:	5/3/00				
	Depth (ft):	18 - 28				
Vanadium	20 U					
Zinc	10 U					
Test : Volatiles - SW 8260B Units: µg/L						
1,1,1-Trichloroethane	5 U					
1,1,2,2-Tetrachloroethane	5 U					
1,1,2-Trichloroethane	5 U					
1,1-Dichloroethane	5 U					
1,2-Dichloroethene	5 U					
1,2-Dichlorobenzene	5 U					
1,2-Dichloroethane	5 U					
1,2-Dichloroethene, Total	5 U					
1,2-Dichloropropane	5 U					
1,3-Dichlorobenzene	5 U					
1,4-Dichlorobenzene	5 U					
2-Butanone	10 U					
2-Chloroethyl vinyl ether	10 U					
2-Hexanone	10 U					
4-Methyl-2-pentanone	10 U					
Acetone	10 U					

Table C-10
COMPLETE ANALYTICAL DATA SUMMARY FOR THE GROUNDWATER SAMPLES FROM
OTH-5485-2: TRASH SCATTER-DUMP,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	OTH5485-2-SS03-GW/D 5/3/00 18 - 28					
Benzene	5 U						
Bromodichloromethane	5 U						
Bromoform	5 U						
Bromomethane	10 U						
Carbon disulfide	5 U						
Carbon tetrachloride	5 U						
Chlorobenzene	5 U						
Chloroethane	10 U						
Chloroform	5 U						
Chloromethane	10 U						
cis-1,2-Dichloroethene	5 U						
cis-1,3-Dichloropropene	5 U						
Dibromochloromethane	5 U						
Ethylbenzene	5 U						
m,p-Xylene	5 U						
Methylene chloride	5 U						
o-Xylene	5 U						
Styrene	5 U						
Tetrachloroethene	5 U						

Table C-10
COMPLETE ANALYTICAL DATA SUMMARY FOR THE GROUNDWATER SAMPLES FROM
OTH-5485-2: TRASH SCATTER-DUMP,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	OTH5485-2-SS03-GW/D 5/3/00 18 - 28				
Toluene	5 U					
trans-1,2-Dichloroethene	5 U					
trans-1,3-Dichloropropene	5 U					
Trichloroethene	5 U					
Trichlorofluoromethane	5 U					
Vinyl acetate	10 U					
Vinyl chloride	10 U					
Xylenes, Total	5 U					
Test : Volatiles - SW 8260B - Surrogates						
		Units: %				
1,2-Dichloroethane-d4-s	107					
4-Bromofluorobenzene-s	105					
Dibromofluoromethane-s	107					
Toluene-d8-s	105					

Table C-10
COMPLETE ANALYTICAL DATA SUMMARY FOR THE GROUNDWATER SAMPLES FROM
OTH-5485-2: TRASH SCATTER-DUMP,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

Key:

Qualifiers:

J	estimated
U	not detected
UJ	not detected; estimated detection limit reported
UR	not detected; rejected sample

Surrogate Limits:	Analysis	Media	Surrogates	Recovery Range
	PCBs by Method 8082	Water	Decachlorobiphenyl-s	18 - 112%
			Tetrachloro-m-xylene-s	32 - 110%
	Pesticides by Method 8081A		Decachlorobiphenyl-s	12 - 132%
			Tetrachloro-m-xylene-s	31 - 122%
	Semivolatile Organics by Method 8270C		2,4,6-Tribromophenol-s	40 - 153%
			2-Fluorobiphenyl-s	39 - 116%
			2-Fluorophenol-s	10 - 125%
			Nitrobenzene-d5-s	33 - 117%
			Phenol-d5-s	10 - 125%
			Terphenyl-d14-s	27 - 135%
	VOC by GCMS Method 8260B		1,2-Dichloroethane-d4-s	82 - 124%
			4-Bromofluorobenzene-s	87 - 115%
			Dibromofluoromethane-s	89 - 119%
			Toluene-d8-s	85 - 115%

Units:

mg/L = milligrams per liter
mg/kg = milligrams per kilogram
µg/L = micrograms per liter
µg/kg = micrograms per kilogram

Test and Sample Information:

PCBs = polychlorinated biphenyls
TAL = Target Analyte List
TRPH = total recoverable petroleum hydrocarbons

Table C-11
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
EOD RANGE 2 (AREA 18)-ROCKET RANGE,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

Sample ID: Sample Date: Depth (ft):	EOD2-SS01-Z1 3/15/00 0 - 0.17	EOD2-SS02-Z1 3/15/00 0 - 0.17	EOD2-SS03-Z1 3/15/00 0 - 0.17	EOD2-SS04-Z1 3/15/00 0 - 0.17	EOD2-SS05-Z1 3/15/00 0 - 0.17	EOD2-SS06-Z1 3/15/00 0 - 0.17
PARAMETER						
Test : Explosives - SW8330						
Units: mg/kg						
1,3,5-Trinitrobenzene	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
1,3-Dinitrobenzene	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2,4,6-Trinitrotoluene	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2,4-Dinitrotoluene	0.25 U	0.25 U	0.25 U	0.25	0.25 U	0.071 J
2,6-Dinitrotoluene	0.25 U	0.25 U	0.25 U	0.10 J	0.25 U	0.25 U
2-Amino-4,6-dinitrotoluene	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2-Nitrotoluene	0.25 U	0.25 U	0.25 U	0.23 J	0.25 U	0.25 U
3-Nitrotoluene	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
4-Amino-2,6-dinitrotoluene	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
4-Nitrotoluene	0.25 U	0.25 U	0.25 U	0.49	0.25 U	0.25 U
HMX	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Nitrobenzene	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
RDX	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Tetryl	0.65 U	0.65 U	0.65 U	0.65 U	0.65 U	0.65 U
Test : Explosives - SW8330 - Surrogates						
Units: %						
1-Chloro-3-nitrobenzene-s	108	111	110	109	109	108
Test : Percent Moisture - D2216						
Units: %						
Percent Moisture	48.6	32.1	45.7	20.0	20.6	47.7

Table C-11
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
EOD RANGE 2 (AREA 18)-ROCKET RANGE,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

Sample ID:	EOD2-SS01-Z1	EOD2-SS02-Z1	EOD2-SS03-Z1	EOD2-SS04-Z1	EOD2-SS05-Z1	EOD2-SS06-Z1
Sample Date:	3/15/00	3/15/00	3/15/00	3/15/00	3/15/00	3/15/00
Depth (ft):	0 - 0.17	0 - 0.17	0 - 0.17	0 - 0.17	0 - 0.17	0 - 0.17
PARAMETER						
Test : Semivolatiles - SW 8270C Units: µg/kg						
1,2,4-Trichlorobenzene	6.35 U	482 U	585 U	360 U	408 U	554 U
1,2-Dichlorobenzene	6.35 U	482 U	585 U	360 U	408 U	554 U
1,3-Dichlorobenzene	6.35 U	482 U	585 U	360 U	408 U	554 U
1,4-Dichlorobenzene	6.35 U	482 U	585 U	360 U	408 U	554 U
2,4,5-Trichlorophenol	16 U	1210 U	1470 U	905 U	1030 U	1390 U
2,4,6-Trichlorophenol	6.35 U	482 U	585 U	360 U	408 U	554 U
2,5-Dichlorophenol	6.35 U	482 U	585 U	360 U	408 U	554 U
2,4-Dimethylphenol	6.35 U	482 U	585 U	360 U	408 U	554 U
2,4-Dinitrophenol	6.35 U	482 U	585 U	360 U	408 U	554 U
2,4-Dinitrotoluene	6.35 U	482 U	585 U	360 U	408 U	554 U
2,6-Dinitrotoluene	6.35 U	482 U	585 U	360 U	408 U	554 U
2-Chloronaphthalene	6.35 U	482 U	585 U	360 U	408 U	554 U
2-Chlorophenol	6.35 U	482 U	585 U	360 U	408 U	554 U
2-Methylnaphthalene	6.35 U	482 U	585 U	360 U	408 U	554 U
2-Methylphenol	6.35 U	482 U	585 U	360 U	408 U	554 U
2-Nitroaniline	16 U	1210 U	1470 U	905 U	1030 U	1390 U
2-Nitrophenol	6.35 U	482 U	585 U	360 U	408 U	554 U
3,3'-Dichlorobenzidine	12.7 U	964 U	1170 U	719 U	815 U	1110 U

Table C-11
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
EOD RANGE 2 (AREA 18)-ROCKET RANGE,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	EOD2-SS01-Z1 3/15/00 0 - 0.17	EOD2-SS02-Z1 3/15/00 0 - 0.17	EOD2-SS03-Z1 3/15/00 0 - 0.17	EOD2-SS04-Z1 3/15/00 0 - 0.17	EOD2-SS05-Z1 3/15/00 0 - 0.17	EOD2-SS06-Z1 3/15/00 0 - 0.17
3-Nitroaniline		16 U	1210 U	1470 U	905 U	1030 U	1390 U
4,6-Dinitro-2-methylphenol		16 U	1210 U	1470 U	905 U	1030 U	1390 U
4-Bromophenyl phenyl ether		6.35 U	482 U	585 U	360 U	408 U	554 U
4-Chloro-3-methylphenol		6.35 U	482 U	585 U	360 U	408 U	554 U
4-Chloroaniline		6.35 U	482 U	585 U	360 U	408 U	554 U
4-Chlorophenyl phenyl ether		6.35 U	482 U	585 U	360 U	408 U	554 U
4-Methylphenol		6.35 U	482 U	585 U	360 U	408 U	554 U
4-Nitroaniline		16 U	1210 U	1470 U	905 U	1030 U	1390 U
4-Nitrophenol		16 U	1210 U	1470 U	905 U	1030 U	1390 U
Acenaphthene		6.35 U	482 U	585 U	360 U	408 U	554 U
Acenaphthylene		6.35 U	482 U	585 U	360 U	408 U	554 U
Anthracene		6.35 U	482 U	585 U	360 U	408 U	554 U
Benz(a)anthracene		6.35 U	482 U	585 U	360 U	408 U	554 U
Benzo(a)pyrene		6.35 U	482 U	585 U	360 U	408 U	554 UJ
Benzo(b)fluoranthene		6.35 U	482 U	585 U	360 U	408 U	554 UJ
Benzo(g,h,i)perylene		6.35 U	482 U	585 U	360 U	408 U	554 UJ
Benzo(k)fluoranthene		6.35 U	482 U	585 U	360 U	408 U	554 UJ
Benzoic acid		16.2	1450	1470 U	905 U	1030 U	2310
Benzyl alcohol		6.35 U	482 U	585 U	360 U	408 U	554 U

Table C-11
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
EOD RANGE 2 (AREA 18)-ROCKET RANGE,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

Sample ID: Sample Date: Depth (ft): PARAMETER	EOD2-SS01-Z1 3/15/00 0 - 0.17	EOD2-SS02-Z1 3/15/00 0 - 0.17	EOD2-SS03-Z1 3/15/00 0 - 0.17	EOD2-SS04-Z1 3/15/00 0 - 0.17	EOD2-SS05-Z1 3/15/00 0 - 0.17	EOD2-SS06-Z1 3/15/00 0 - 0.17
Bis(2-chloroethoxy)methane	6.35 U	482 U	585 U	360 U	408 U	554 U
Bis(2-chloroethyl)ether	6.35 U	482 U	585 U	360 U	408 U	554 U
Bis(2-chloroisopropyl)ether	6.35 U	482 U	585 U	360 U	408 U	554 U
Bis(2-ethylhexyl)phthalate	6.35 U	482 U	585 U	360 U	408 U	554 U
Butyl benzyl phthalate	6.35 U	482 U	585 U	360 U	408 U	554 U
Carbazole	6.35 U	482 U	585 U	360 U	408 U	554 U
Chrysene	6.35 U	482 U	585 U	360 U	408 U	67.1 J
Di-n-butyl phthalate	6.35 U	482 U	585 U	360 U	1280	554 U
Di-n-octyl phthalate	6.35 U	482 U	585 U	360 U	408 U	554 U
Dibenz(a,h)anthracene	6.35 U	482 U	585 U	360 U	408 U	554 UJ
Dibenzofuran	6.35 U	482 U	585 U	360 U	408 U	554 U
Diethyl phthalate	6.35 U	482 U	585 U	360 U	408 U	554 U
Dimethyl phthalate	6.35 U	482 U	585 U	360 U	408 U	554 U
Fluoranthene	6.35 U	482 U	585 U	360 U	408 U	117 J
Fluorene	6.35 U	482 U	585 U	360 U	408 U	554 U
Hexachlorobenzene	6.35 U	482 U	585 U	360 U	408 U	554 U
Hexachlorobutadiene	6.35 U	482 U	585 U	360 U	408 U	554 U
Hexachlorocyclopentadiene	16 U	1210 U	1470 U	905 U	1030 U	1390 U
Hexachloroethane	6.35 U	482 U	585 U	360 U	408 U	554 U

Table C-11
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
EOD RANGE 2 (AREA 18)-ROCKET RANGE,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	EOD2-SS01-Z1 3/15/00 0 - 0.17	EOD2-SS02-Z1 3/15/00 0 - 0.17	EOD2-SS03-Z1 3/15/00 0 - 0.17	EOD2-SS04-Z1 3/15/00 0 - 0.17	EOD2-SS05-Z1 3/15/00 0 - 0.17	EOD2-SS06-Z1 3/15/00 0 - 0.17
Indeno(1,2,3-cd)pyrene		6.35 U	482 U	585 U	360 U	408 U	554 U
Isophorone		6.35 U	482 U	585 U	360 U	408 U	554 U
N-Nitrosodi-n-propylamine		6.35 U	482 U	585 U	360 U	408 U	554 U
N-Nitrosodimethylamine		6.35 U	482 U	585 U	360 U	408 U	554 U
N-Nitrosodiphenylamine		6.35 U	482 U	585 U	360 U	94.3 J	554 U
Naphthalene		6.35 U	482 U	585 U	360 U	408 U	554 U
Nitrobenzene		6.35 U	482 U	585 U	360 U	408 U	554 U
Polychlorophenol		16 U	1210 U	1470 U	905 U	1030 U	1390 U
Phenanthrene		6.35 U	482 U	585 U	360 U	408 U	78.3 J
Phenol		6.35 U	482 U	585 U	360 U	408 U	554 U
Pyrene		6.35 U	482 U	585 U	360 U	408 U	201 J
Test : Semivolatiles - SW 8270C - Surrogates							
		Units: %					
2,4,6-Tribromophenol-s		86	87	82	86	117	114
2-Fluorobiphenyl-s		68	84	82	78	115	110
2-Fluorophenol-s		90	85	79	77	108	104
Nitrobenzene-d5-s		64	69	66	67	92	80
Phenol-d5-s		81	71	72	72	93	87
Terphenyl-d14-s		92	115	105	107	138	168

Table C-11
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
EOD RANGE 2 (AREA 18)-ROCKET RANGE,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

Sample ID: Sample Date: Depth (ft):	EOD2-SS01-Z1 3/15/00 0 - 0.17	EOD2-SS02-Z1 3/15/00 0 - 0.17	EOD2-SS03-Z1 3/15/00 0 - 0.17	EOD2-SS04-Z1 3/15/00 0 - 0.17	EOD2-SS05-Z1 3/15/00 0 - 0.17	EOD2-SS06-Z1 3/15/00 0 - 0.17
PARAMETER						
Test : TAL Metals - SW6010B/7471A/7470A Units: mg/kg						
Aluminum	15900	13000	15600	16200	15400	14400
Antimony	1.3 U	1.21 U	1.4 U	0.856 U	1.09 U	1.41 U
Arsenic	2.40	0.878 J	2.58	2.31	1.11	3.55
Barium	46.9	41.0	80.8	47.5	42.7	58.8
Beryllium	0.707	0.726	1.28	0.849	0.682	0.533 J
Cadmium	3.00	3.34	3.41	3.46	3.20	2.90
Calcium	246	724	889	161	287	442
Chromium	18.3	16.6	17.6	20.0	18.8	17.5
Cobalt	8.06	7.93	16.5	11.7	11.9	10.4
Copper	27.9	24.0	36.6	22.7	26.5	24.0
Iron	24200	30000	23900	31800	29300	22300
Lead	33.7	26.1	35.7	11.0	19.3	45.7
Magnesium	2740	3160	2820	3360	3760	2500
Manganese	566	841	3930	922	919	1320
Mercury	0.0853	0.0797	0.123	0.0682	0.0781	0.166
Nickel	12.7	13.8	14.7	13.7	20.6	10.9
Potassium	918	1010	925	951	923	817
Selenium	1.3 UJ	1.21 UJ	1.4 UJ	0.856 UJ	0.777 UJ	1.41 UJ

Table C-11
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
EOD RANGE 2 (AREA 18)-ROCKET RANGE,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	EOD2-SS01-Z1 3/15/00 0 - 0.17	EOD2-SS02-Z1 3/15/00 0 - 0.17	EOD2-SS03-Z1 3/15/00 0 - 0.17	EOD2-SS04-Z1 3/15/00 0 - 0.17	EOD2-SS05-Z1 3/15/00 0 - 0.17	EOD2-SS06-Z1 3/15/00 0 - 0.17
Silver		1.3 UR	1.21 UR	0.970 J	0.856 UR	0.777 UR	0.481 J
Sodium		130 U	121 U	140 U	31.0 J	27.8 J	43.2 J
Thallium		1.3 U	1.21 U	1.4 U	0.856 U	0.777 U	1.41 U
Vanadium		30.8	28.5	28.3	29.2	27.3	29.8
Zinc		69.1	65.2	66.6	65.3	75.0	66.6

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Table C-11
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
EOD RANGE 2 (AREA 18)-ROCKET RANGE,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

Sample ID: Sample Date: Depth (ft):	EOD2-SS06-Z2 4/17/00 2 - 4	EOD2-SS07-Z1 3/15/00 0 - 0.17	EOD2-SS07-Z2 4/17/00 2 - 4	EOD2-SS08-Z1 3/15/00 0 - 0.17	EOD2-SS08-Z1/D 3/15/00 0 - 0.17	EOD2-SS08-Z2 4/17/00 2 - 4
PARAMETER						
Test : Explosives - SW8330						
Units: mg/kg						
1,3,5-Trinitrobenzene	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
1,3-Dinitrobenzene	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2,4,6-Trinitrotoluene	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2,4-Dinitrotoluene	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2,6-Dinitrotoluene	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2-Amino-4,6-dinitrotoluene	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2-Nitrotoluene	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
3-Nitrotoluene	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
4-Amino-2,6-dinitrotoluene	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
4-Nitrotoluene	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
HMX	0.50 U	0.50 U	0.50 U	0.30 J	0.27 J	0.50 U
Nitrobenzene	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
RDX	0.50 U	0.50 U	0.50 U	0.27 J	0.50 U	0.50 U
Tetryl	0.65 U	0.65 U	0.65 U	0.65 U	0.65 U	0.65 U
Test : Explosives - SW8330 - Surrogates						
Units: %						
1-Chloro-3-nitrobenzene-s	96	108	91	106	111	89
Test : Percent Moisture - D2216						
Units: %						
Percent Moisture	14.3	46.5	12.7	59.1	56.9	13.5

Table C-11
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
EOD RANGE 2 (AREA 18)-ROCKET RANGE,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

Sample ID: Sample Date: Depth (ft):	EOD2-SS06-Z2 4/17/00 2 - 4	EOD2-SS07-Z1 3/15/00 0 - 0.17	EOD2-SS07-Z2 4/17/00 2 - 4	EOD2-SS08-Z1 3/15/00 0 - 0.17	EOD2-SS08-Z1/D 3/15/00 0 - 0.17	EOD2-SS08-Z2 4/17/00 2 - 4
PARAMETER						
Test : Semivolatiles - SW 8270C Units: µg/kg						
1,2,4-Trichlorobenzene	384 U	564 U	377 U	701 U	1460 U	371 U
1,2-Dichlorobenzene	384 U	564 U	377 U	701 U	1460 U	371 U
1,3-Dichlorobenzene	384 U	564 U	377 U	701 U	1460 U	371 U
1,4-Dichlorobenzene	384 U	564 U	377 U	701 U	1460 U	371 U
2,4,5-Trichlorophenol	965 U	1420 U	949 U	1760 U	3660 U	934 U
2,4,6-Trichlorophenol	384 U	564 U	377 U	701 U	1460 U	371 U
2,4-Dichlorophenol	384 U	564 U	377 U	701 U	1460 U	371 U
2,4-Dimethylphenol	384 U	564 U	377 U	701 U	1460 U	371 U
2,4-Dinitrophenol	384 U	564 U	377 U	701 U	1460 U	371 U
2,4-Dinitrotoluene	384 U	564 U	377 U	701 U	1460 U	371 U
2,6-Dinitrotoluene	384 U	564 U	377 U	701 U	1460 U	371 U
2-Chloronaphthalene	384 U	564 U	377 U	701 U	1460 U	371 U
2-Chlorophenol	384 U	564 U	377 U	701 U	1460 U	371 U
2-Methylnaphthalene	384 U	564 U	377 U	701 U	1460 U	371 U
2-Methylphenol	384 U	564 U	377 U	701 U	1460 U	371 U
2-Nitroaniline	965 U	1420 U	949 U	1760 U	3660 U	934 U
2-Nitrophenol	384 U	564 U	377 U	701 U	1460 U	371 U
3,3'-Dichlorobenzidine	767 U	1130 U	754 U	1400 U	2910 U	743 U

Table C-11
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
EOD RANGE 2 (AREA 18)-ROCKET RANGE,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	EOD2-SS06-Z2 4/17/00 2 - 4	EOD2-SS07-Z1 3/15/00 0 - 0.17	EOD2-SS07-Z2 4/17/00 2 - 4	EOD2-SS08-Z1 3/15/00 0 - 0.17	EOD2-SS08-Z1/D 3/15/00 0 - 0.17	EOD2-SS08-Z2 4/17/00 2 - 4
3-Nitroaniline		965 U	1420 U	949 U	1760 U	3660 U	934 U
4,6-Dinitro-2-methylphenol		965 U	1420 U	949 U	1760 U	3660 U	934 U
4-Bromophenyl phenyl ether		384 U	564 U	377 U	701 U	1460 U	371 U
4-Chloro-3-methylphenol		384 U	564 U	377 U	701 U	1460 U	371 U
4-Chloroaniline		384 U	564 U	377 U	701 U	1460 U	371 U
4-Chlorophenyl phenyl ether		384 U	564 U	377 U	701 U	1460 U	371 U
4-Methylphenol		384 U	564 U	377 U	701 U	1460 U	371 U
4-Nitroaniline		965 U	1420 U	949 U	1760 U	3660 U	934 U
4-Nitrophenol		965 U	1420 U	949 U	1760 U	3660 U	934 U
Acenaphthene		384 U	564 U	377 U	701 U	1460 U	371 U
Acenaphthylene		384 U	564 U	377 U	701 U	1460 U	371 U
Anthracene		384 U	564 U	377 U	701 U	1460 U	371 U
Benz(a)anthracene		384 U	564 U	377 U	701 U	1460 U	371 U
Benzo(a)pyrene		384 U	564 U	377 U	701 U	1460 U	371 U
Benzo(b)fluoranthene		384 U	564 U	377 U	701 U	1460 U	371 U
Benzo(g,h,i)perylene		384 U	564 U	377 U	701 U	1460 U	371 U
Benzo(k)fluoranthene		384 U	564 U	377 U	701 U	1460 U	371 U
Benzoic acid		965 U	1420 U	949 U	4070	3000 J	934 U
Benzyl alcohol		384 U	564 U	377 U	323 J	1460 U	371 U

Table C-11
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
EOD RANGE 2 (AREA 18)-ROCKET RANGE,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft): EOD2-SS06-Z2 4/17/00 2 - 4	EOD2-SS07-Z1 3/15/00 0 - 0.17	EOD2-SS07-Z2 4/17/00 2 - 4	EOD2-SS08-Z1 3/15/00 0 - 0.17	EOD2-SS08-Z1/D 3/15/00 0 - 0.17	EOD2-SS08-Z2 4/17/00 2 - 4
Bis(2-chloroethoxy)methane	384 U	564 U	377 U	701 U	1460 U	371 U
Bis(2-chloroethyl)ether	384 U	564 U	377 U	701 U	1460 U	371 U
Bis(2-chloroisopropyl)ether	384 U	564 U	377 U	701 U	1460 U	371 U
Bis(2-ethylhexyl)phthalate	384 U	564 U	377 U	701 U	1460 U	371 U
Butyl benzyl phthalate	384 U	564 U	377 U	701 U	1460 U	371 U
Carbazole	384 U	564 U	377 U	701 U	1460 U	371 U
Chrysene	384 U	564 U	377 U	701 U	1460 U	371 U
Di-n-butyl phthalate	384 U	564 U	377 U	701 U	1460 U	371 U
Di-n-octyl phthalate	384 U	564 U	377 U	701 U	1460 U	371 U
Dibenz(a,h)anthracene	384 U	564 U	377 U	701 U	1460 U	371 U
Dibenzofuran	384 U	564 U	377 U	701 U	1460 U	371 U
Diethyl phthalate	384 U	564 U	377 U	701 U	1460 U	371 U
Dimethyl phthalate	384 U	564 U	377 U	701 U	1460 U	371 U
Fluoranthene	384 U	564 U	377 U	701 U	1460 U	371 U
Fluorene	384 U	564 U	377 U	701 U	1460 U	371 U
Hexachlorobenzene	384 U	564 U	377 U	701 U	1460 U	371 U
Hexachlorobutadiene	384 U	564 U	377 U	701 U	1460 U	371 U
Hexachlorocyclopentadiene	965 U	1420 U	949 U	1760 U	3660 U	934 U
Hexachloroethane	384 U	564 U	377 U	701 U	1460 U	371 U

Table C-11
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
EOD RANGE 2 (AREA 18)-ROCKET RANGE,
EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROM

PARAMETER	Sample ID: Sample Date: Depth (ft):	EOD2-SS06-Z2 4/17/00 2 - 4	EOD2-SS07-Z1 3/15/00 0 - 0.17	EOD2-SS07-Z2 4/17/00 2 - 4	EOD2-SS08-Z1 3/15/00 0 - 0.17	EOD2-SS08-Z1/D 3/15/00 0 - 0.17	EOD2-SS08-Z2 4/17/00 2 - 4
Indeno(1,2,3-cd)pyrene		384 U	564 U	377 U	701 U	1460 U	371 U
Isophorone		384 U	564 U	377 U	701 U	1460 U	371 U
N-Nitrosodi-n-propylamine		384 U	564 U	377 U	701 U	1460 U	371 U
N-Nitrosodimethylamine		384 U	564 U	377 U	701 U	1460 U	371 U
N-Nitrosodiphenylamine		384 U	564 U	377 U	701 U	1460 U	371 U
Naphthalene		384 U	564 U	377 U	701 U	1460 U	371 U
Nitrobenzene		384 U	564 U	377 U	701 U	1460 U	371 U
Pentachlorophenol		965 U	1420 U	949 U	1760 U	3660 U	934 U
Phenanthrene		384 U	564 U	377 U	701 U	1460 U	371 U
Phenol		384 U	564 U	377 U	701 U	1460 U	371 U
Pyrene		384 U	564 U	377 U	701 U	1460 U	371 U
Test : Semivolatiles - SW 8270C - Surrogates Units: %							
2,4,6-Tribromophenol-s		91	116	93	83	75	62
2-Fluorobiphenyl-s		81	108	78	76	66	72
2-Fluorophenol-s		85	109	83	80	69	69
Nitrobenzene-d5-s		89	93	87	67	65	76
Phenol-d5-s		98	98	95	71	61	83
Terphenyl-d14-s		62	135	59	88	87	59

Table C-11
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
EOD RANGE 2 (AREA 18)-ROCKET RANGE,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

Sample ID: Sample Date: Depth (ft):	EOD2-SS06-Z2 4/17/00 2 - 4	EOD2-SS07-Z1 3/15/00 0 - 0.17	EOD2-SS07-Z2 4/17/00 2 - 4	EOD2-SS08-Z1 3/15/00 0 - 0.17	EOD2-SS08-Z1/D 3/15/00 0 - 0.17	EOD2-SS08-Z2 4/17/00 2 - 4
PARAMETER						
Test : TAL Metals - SW6010B/7471A/7470A Units: mg/kg						
Aluminum	9860	18900	19300	17500	15000	17800
Antimony	0.656 U	1.09 U	0.909 U	1.47 U	1.47 U	0.889 U
Arsenic	1.53	2.97	0.909 U	1.41 J	1.98	0.732 J
Barium	25.9	39.7	42.0	62.1	67.1	41.3
Beryllium	0.442	0.812	0.968	0.902	0.712 J	0.896
Cadmium	1.87	3.81	3.88	5.48	3.59	3.29
Calcium	99.8	354	1810	834	970	891
Chromium	14.0	21.8	30.0	23.5	18.3	28.9
Cobalt	6.87	14.1	27.5	13.1	10.1	17.7
Copper	21.3	40.4	60.1	40.6	32.1	59.2
Iron	21000	33200	42100	48000	27900	37200
Lead	7.32	17.2	25.6	27.5	30.0	22.0
Magnesium	3350	4600	9420	4620	3610	8320
Manganese	233	827	1010	1890	1080	1090
Mercury	0.0401	0.0896	0.0634	0.105	0.118	0.0447
Nickel	14.9	20.7	55.0	19.3	17.4	36.0
Potassium	494	1110	1560	1340	1230	1290
Selenium	0.656 U	1.09 UJ	0.909 U	1.47 UJ	1.47 UJ	0.889 U

Table C-11
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
EOD RANGE 2 (AREA 18)-ROCKET RANGE,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	EOD2-SS06-Z2 4/17/00 2 - 4	EOD2-SS07-Z1 3/15/00 0 - 0.17	EOD2-SS07-Z2 4/17/00 2 - 4	EOD2-SS08-Z1 3/15/00 0 - 0.17	EOD2-SS08-Z1/D 3/15/00 0 - 0.17	EOD2-SS08-Z2 4/17/00 2 - 4
Silver		0.656 U	0.544 J	0.307 J	1.47 UR	1.47 UR	0.889 U
Sodium		65.6 U	39.9 J	43.5 J	147 U	147 U	35.9 J
Thallium		0.656 U	1.09 U	0.909 U	1.47 U	1.47 U	0.889 U
Vanadium		19.3	31.1	37.9	36.9	29.1	32.8
Zinc		36.6	87.2	121	95.1	85.9	91.2

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Table C-11
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
EOD RANGE 2 (AREA 18)-ROCKET RANGE,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

Sample ID:	EOD2-SS09-Z1	EOD2-SS09-Z2	EOD2-SS10-Z1	EOD2-SS11-Z1	EOD2-SS11-Z2	EOD2-SS12-Z1
Sample Date:	3/15/00	4/17/00	3/15/00	3/15/00	4/17/00	3/15/00
Depth (ft):	0 - 0.17	2 - 4	0 - 0.17	0 - 0.17	2 - 4	0 - 0.17
PARAMETER						
Test : Explosives - SW8330						
Units: mg/kg						
1,3,5-Trinitrobenzene	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
1,3-Dinitrobenzene	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2,4,6-Trinitrotoluene	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2,4-Dinitrotoluene	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2,6-Dinitrotoluene	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2-Amino-4,6-dinitrotoluene	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2-Nitrotoluene	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
3-Nitrotoluene	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
4-Amino-2,6-dinitrotoluene	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
4-Nitrotoluene	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
HMX	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Nitrobenzene	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
RDX	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Tetryl	0.65 U	0.65 U	0.65 U	0.65 U	0.65 U	0.65 U
Test : Explosives - SW8330 - Surrogates						
Units: %						
1-Chloro-3-nitrobenzene-s	109	92	109	110	91	109
Test : Percent Moisture - D2216						
Units: %						
Percent Moisture	20.7	14.5	77.7	35.0	14.9	18.5

Table C-11
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
EOD RANGE 2 (AREA 18)-ROCKET RANGE,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

Sample ID: Sample Date: Depth (ft):	EOD2-SS09-Z1 3/15/00 0 - 0.17	EOD2-SS09-Z2 4/17/00 2 - 4	EOD2-SS10-Z1 3/15/00 0 - 0.17	EOD2-SS11-Z1 3/15/00 0 - 0.17	EOD2-SS11-Z2 4/17/00 2 - 4	EOD2-SS12-Z1 3/15/00 0 - 0.17
PARAMETER						
Test : Semivolatiles - SW 8270C Units: µg/kg						
1,2,4-Trichlorobenzene	389 U	364 U	1290 U	436 U	384 U	369 U
1,2-Dichlorobenzene	389 U	364 U	1290 U	436 U	384 U	369 U
1,3-Dichlorobenzene	389 U	364 U	1290 U	436 U	384 U	369 U
1,4-Dichlorobenzene	389 U	364 U	1290 U	436 U	384 U	369 U
2,4,5-Trichlorophenol	979 U	914 U	3240 U	1100 U	965 U	928 U
2,4,6-Trichlorophenol	389 U	364 U	1290 U	436 U	384 U	369 U
2,4-Dichlorophenol	389 U	364 U	1290 U	436 U	384 U	369 U
2,4-Dimethylphenol	389 U	364 U	1290 U	436 U	384 U	369 U
2,4-Dinitrophenol	389 U	364 U	1290 U	436 U	384 U	369 U
2,4-Dinitrotoluene	389 U	364 U	1290 U	436 U	384 U	369 U
2,6-Dinitrotoluene	389 U	364 U	1290 U	436 U	384 U	369 U
2-Chloronaphthalene	389 U	364 U	1290 U	436 U	384 U	369 U
2-Chlorophenol	389 U	364 U	1290 U	436 U	384 U	369 U
2-Methylnaphthalene	389 U	364 U	1290 U	436 U	384 U	369 U
2-Methylphenol	389 U	364 U	1290 U	436 U	384 U	369 U
2-Nitroaniline	979 U	914 U	3240 U	1100 U	965 U	928 U
2-Nitrophenol	389 U	364 U	1290 U	436 U	384 U	369 U
3,3'-Dichlorobenzidine	778 U	727 U	2580 U	873 U	767 U	738 U

Table C-11
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
EOD RANGE 2 (AREA 18)-ROCKET RANGE,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	EOD2-SS09-Z1 3/15/00 0 - 0.17	EOD2-SS09-Z2 4/17/00 2 - 4	EOD2-SS10-Z1 3/15/00 0 - 0.17	EOD2-SS11-Z1 3/15/00 0 - 0.17	EOD2-SS11-Z2 4/17/00 2 - 4	EOD2-SS12-Z1 3/15/00 0 - 0.17
3-Nitroaniline		979 U	914 U	3240 U	1100 U	965 U	928 U
4,6-Dinitro-2-methylphenol		979 U	914 U	3240 U	1100 U	965 U	928 U
4-Bromophenyl phenyl ether		389 U	364 U	1290 U	436 U	384 U	369 U
4-Chloro-3-methylphenol		389 U	364 U	1290 U	436 U	384 U	369 U
4-Chloroaniline		389 U	364 U	1290 U	436 U	384 U	369 U
4-Chlorophenyl phenyl ether		389 U	364 U	1290 U	436 U	384 U	369 U
4-Methylphenol		389 U	364 U	1290 U	436 U	384 U	369 U
4-Nitroaniline		979 U	914 U	3240 U	1100 U	965 U	928 U
4-Nitrophenol		979 U	914 U	3240 U	1100 U	965 U	928 U
Acenaphthene		389 U	364 U	1290 U	436 U	384 U	369 U
Acenaphthylene		389 U	364 U	1290 U	436 U	384 U	369 U
Anthracene		389 U	364 U	1290 U	436 U	384 U	369 U
Benz(a)anthracene		389 U	364 U	1290 U	436 U	384 U	369 U
Benzo(a)pyrene		389 U	364 U	1290 UJ	436 U	384 U	369 UJ
Benzo(b)fluoranthene		389 U	364 U	1290 UJ	436 U	384 U	369 UJ
Benzo(g,h,i)perylene		389 U	364 U	1290 UJ	436 U	384 U	369 UJ
Benzo(k)fluoranthene		389 U	364 U	1290 UJ	436 U	384 U	369 UJ
Benzoic acid		979 U	914 U	3240 U	1100 U	965 U	2100
Benzyl alcohol		389 U	364 U	1290 U	436 U	384 U	176 J

Table C-11
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
EOD RANGE 2 (AREA 18)-ROCKET RANGE,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	EOD2-SS09-Z1 3/15/00 0 - 0.17	EOD2-SS09-Z2 4/17/00 2 - 4	EOD2-SS10-Z1 3/15/00 0 - 0.17	EOD2-SS11-Z1 3/15/00 0 - 0.17	EOD2-SS11-Z2 4/17/00 2 - 4	EOD2-SS12-Z1 3/15/00 0 - 0.17
Bis(2-chloroethoxy)methane		389 U	364 U	1290 U	436 U	384 U	369 U
Bis(2-chloroethyl)ether		389 U	364 U	1290 U	436 U	384 U	369 U
Bis(2-chloroisopropyl)ether		389 U	364 U	1290 U	436 U	384 U	369 U
Bis(2-ethylhexyl)phthalate		389 U	364 U	1290 U	436 U	101 J	369 U
Butyl benzyl phthalate		389 U	364 U	1290 U	436 U	384 U	369 U
Carbazole		389 U	364 U	1290 U	436 U	384 U	369 U
Chrysene		389 U	364 U	1290 U	436 U	384 U	369 U
Di-n-butyl phthalate		389 U	364 U	1290 U	436 U	384 U	369 U
Di-n-octyl phthalate		389 U	364 U	1290 U	436 U	384 U	369 U
Dibenz(a,h)anthracene		389 U	364 U	1290 UJ	436 U	384 U	369 UJ
Dibenzofuran		389 U	364 U	1290 U	436 U	384 U	369 U
Diethyl phthalate		389 U	364 U	1290 U	436 U	384 U	369 U
Dimethyl phthalate		389 U	364 U	1290 U	436 U	384 U	369 U
Fluoranthene		389 U	364 U	1290 U	436 U	384 U	369 U
Fluorene		389 U	364 U	1290 U	436 U	384 U	369 U
Hexachlorobenzene		389 U	364 U	1290 U	436 U	384 U	369 U
Hexachlorobutadiene		389 U	364 U	1290 U	436 U	384 U	369 U
Hexachlorocyclopentadiene		979 U	914 U	3240 U	1100 U	965 U	928 U
Hexachloroethane		389 U	364 U	1290 U	436 U	384 U	369 U

Table C-11
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
EOD RANGE 2 (AREA 18)-ROCKET RANGE,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	EOD2-SS09-Z1 3/15/00 0 - 0.17	EOD2-SS09-Z2 4/17/00 2 - 4	EOD2-SS10-Z1 3/15/00 0 - 0.17	EOD2-SS11-Z1 3/15/00 0 - 0.17	EOD2-SS11-Z2 4/17/00 2 - 4	EOD2-SS12-Z1 3/15/00 0 - 0.17
Indeno(1,2,3-cd)pyrene		389 U	364 U	1290 U	436 U	384 U	369 U
Isophorone		389 U	364 U	1290 U	436 U	384 U	369 U
N-Nitrosodi-n-propylamine		389 U	364 U	1290 U	436 U	384 U	369 U
N-Nitrosodimethylamine		389 U	364 U	1290 U	436 U	384 U	369 U
N-Nitrosodiphenylamine		389 U	364 U	1290 U	436 U	384 U	369 U
Naphthalene		389 U	364 U	1290 U	436 U	384 U	369 U
Nitrobenzene		389 U	364 U	1290 U	436 U	384 U	369 U
Pentachlorophenol		979 U	914 U	3240 U	1100 U	965 U	928 U
Phenanthrene		389 U	364 U	1290 U	436 U	384 U	369 U
Phenol		389 U	364 U	1290 U	436 U	384 U	369 U
Pyrene		389 U	364 U	1290 U	436 U	384 U	369 U
Test : Semivolatiles - SW 8270C - Surrogates							
		Units: %					
2,4,6-Tribromophenol-s		99	84	105	86	79	94
2-Fluorobiphenyl-s		88	85	97	75	78	93
2-Fluorophenol-s		87	88	99	80	76	100
Nitrobenzene-d5-s		74	95	83	61	88	77
Phenol-d5-s		77	103	86	72	96	90
Terphenyl-d14-s		113	63	126	107	63	110

Table C-11
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
EOD RANGE 2 (AREA 18)-ROCKET RANGE,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	EOD2-SS09-Z1 3/15/00 0 - 0.17	EOD2-SS09-Z2 4/17/00 2 - 4	EOD2-SS10-Z1 3/15/00 0 - 0.17	EOD2-SS11-Z1 3/15/00 0 - 0.17	EOD2-SS11-Z2 4/17/00 2 - 4	EOD2-SS12-Z1 3/15/00 0 - 0.17
Test : TAL Metals - SW6010B/7471A/7470A Units: mg/kg							
Aluminum		14700	16700	18500	13300	18900	15500
Antimony		0.798 U	0.812 U	3.4 U	0.986 U	0.852 U	1.02 U
Arsenic		2.42	0.812 U	1.81 J	2.86	0.852 U	2.19
Barium		41.4	34.6	45.7	38.1	49.1	36.7
Beryllium		0.665	0.776	1.03 J	0.580	0.959	0.706
Cadmium		3.69	3.06	2.80	3.45	5.39	4.21
Cesium		202	683	328	888	2520	803
Chromium		17.1	25.2	16.8	18.3	33.0	25.5
Cobalt		8.77	18.8	10.1	8.19	15.9	12.9
Copper		42.8	48.8	27.1	32.5	58.4	42.9
Iron		30900	35000	21500	30700	49500	40000
Lead		52.1	23.8	24.0	24.0	15.9	22.7
Magnesium		2920	8290	2380	4570	10000	7340
Manganese		1030	936	664	513	1950	625
Mercury		0.240	0.0607	0.148 U	0.0596	0.0519	0.0558
Nickel		13.0	36.0	13.4	25.3	66.4	31.4
Potassium		767	1120	1260	945	1250	1320
Selenium		0.798 UJ	0.812 U	3.4 UJ	0.986 UJ	0.852 U	1.02 UJ

Table C-11
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
EOD RANGE 2 (AREA 18)-ROCKET RANGE,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	EOD2-SS09-Z1 3/15/00 0 - 0.17	EOD2-SS09-Z2 4/17/00 2 - 4	EOD2-SS10-Z1 3/15/00 0 - 0.17	EOD2-SS11-Z1 3/15/00 0 - 0.17	EOD2-SS11-Z2 4/17/00 2 - 4	EOD2-SS12-Z1 3/15/00 0 - 0.17
Silver		0.322 J	0.236 J	3.4 UR	0.986 UR	0.369 J	1.02 UR
Sodium		23.8 J	32.1 J	340 U	98.6 U	47.0 J	33.0 J
Thallium		0.798 U	0.812 U	3.4 U	0.986 U	0.852 U	1.02 U
Vanadium		28.2	31.0	26.7	24.1	38.5	27.8
Zinc		71.4	68.3	65.3	72.8	303	107

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Table C-11
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
EOD RANGE 2 (AREA 18)-ROCKET RANGE,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

Sample ID: Sample Date: Depth (ft):	EOD2-SS13-Z1 3/15/00 0 - 0.17	EOD2-SS13-Z2 4/17/00 2 - 4	EOD2-SS13-Z2/D 4/17/00 2 - 4	EOD2-SS14-Z1 3/15/00 0 - 0.17	EOD2-SS14-Z2 4/17/00 2 - 4	EOD2-SS15-Z1 3/15/00 0 - 0.17
PARAMETER						
Test : Explosives - SW8330						
	Units: mg/kg					
1,3,5-Trinitrobenzene	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
1,3-Dinitrobenzene	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2,4,6-Trinitrotoluene	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2,4-Dinitrotoluene	0.046 J	0.25 U	0.25 U	0.13 J	0.25 U	0.25 U
2,6-Dinitrotoluene	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2-Amino-4,6-dinitrotoluene	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2-Nitrotoluene	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
3-Nitrotoluene	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
4-Amino-2,6-dinitrotoluene	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
4-Nitrotoluene	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
HMX	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Nitrobenzene	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
RDX	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Tetryl	0.65 U	0.65 U	0.65 U	0.65 U	0.65 U	0.65 U
Test : Explosives - SW8330 - Surrogates						
	Units: %					
1-Chloro-3-nitrobenzene-s	110	92	92	106	92	109
Test : Percent Moisture - D2216						
	Units: %					
Percent Moisture	22.0	11.7	12.3	20.5	11.7	20.1

Table C-11
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
EOD RANGE 2 (AREA 18)-ROCKET RANGE,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

Sample ID: Sample Date: Depth (ft):	EOD2-SS13-Z1 3/15/00 0 - 0.17	EOD2-SS13-Z2 4/17/00 2 - 4	EOD2-SS13-Z2/D 4/17/00 2 - 4	EOD2-SS14-Z1 3/15/00 0 - 0.17	EOD2-SS14-Z2 4/17/00 2 - 4	EOD2-SS15-Z1 3/15/00 0 - 0.17
PARAMETER						
Test : Semivolatiles - SW 8270C Units: µg/kg						
1,2,4-Trichlorobenzene	387 U	371 U	343 U	399 U	360 U	359 U
1,2-Dichlorobenzene	387 U	371 U	343 U	399 U	360 U	359 U
1,3-Dichlorobenzene	387 U	371 U	343 U	399 U	360 U	359 U
1,4-Dichlorobenzene	387 U	371 U	343 U	399 U	360 U	359 U
2,4,5-Trichlorophenol	974 U	934 U	862 U	1000 U	906 U	903 U
2,4,6-Trichlorophenol	387 U	371 U	343 U	399 U	360 U	359 U
2,4-Dichlorophenol	387 U	371 U	343 U	399 U	360 U	359 U
2,4-Dimethylphenol	387 U	371 U	343 U	399 U	360 U	359 U
2,4-Dinitrophenol	387 U	371 U	343 U	399 U	360 U	359 U
2,4-Dinitrotoluene	387 U	371 U	343 U	399 U	360 U	359 U
2,6-Dinitrotoluene	387 U	371 U	343 U	399 U	360 U	359 U
2-Chloronaphthalene	387 U	371 U	343 U	399 U	360 U	359 U
2-Chlorophenol	387 U	371 U	343 U	399 U	360 U	359 U
2-Methylnaphthalene	387 U	371 U	343 U	399 U	360 U	359 U
2-Methylphenol	387 U	371 U	343 U	399 U	360 U	359 U
2-Nitroaniline	974 U	934 U	862 U	1000 U	906 U	903 U
2-Nitrophenol	387 U	371 U	343 U	399 U	360 U	359 U
3,3'-Dichlorobenzidine	775 U	743 U	685 U	799 U	720 U	718 U

Table C-11
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
EOD RANGE 2 (AREA 18)-ROCKET RANGE,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	EOD2-SS13-Z1 3/15/00 0 - 0.17	EOD2-SS13-Z2 4/17/00 2 - 4	EOD2-SS13-Z2/D 4/17/00 2 - 4	EOD2-SS14-Z1 3/15/00 0 - 0.17	EOD2-SS14-Z2 4/17/00 2 - 4	EOD2-SS15-Z1 3/15/00 0 - 0.17
3-Nitroaniline		974 U	934 U	862 U	1000 U	906 U	903 U
4,6-Dinitro-2-methylphenol		974 U	934 U	862 U	1000 U	906 U	903 U
4-Bromophenyl phenyl ether		387 U	371 U	343 U	399 U	360 U	359 U
4-Chloro-3-methylphenol		387 U	371 U	343 U	399 U	360 U	359 U
4-Chloroaniline		387 U	371 U	343 U	399 U	360 U	359 U
4-Chlorophenyl phenyl ether		387 U	371 U	343 U	399 U	360 U	359 U
4-Methylphenol		387 U	371 U	343 U	399 U	360 U	359 U
4-Nitroaniline		974 U	934 U	862 U	1000 U	906 U	903 U
4-Nitrophenol		974 U	934 U	862 U	1000 U	906 U	903 U
Acenaphthene		387 U	371 U	343 U	399 U	360 U	359 U
Acenaphthylene		387 U	371 U	343 U	399 U	360 U	359 U
Anthracene		387 U	371 U	343 U	399 U	360 U	359 U
Benz(a)anthracene		387 U	371 U	343 U	399 U	360 U	359 U
Benzo(a)pyrene		387 U	371 U	343 U	399 U	360 U	359 U
Benzo(b)fluoranthene		387 U	371 U	343 U	399 U	360 U	359 U
Benzo(g,h,i)perylene		387 U	371 U	343 U	399 U	360 U	359 U
Benzo(k)fluoranthene		387 U	371 U	343 U	399 U	360 U	359 U
Benzoic acid		974 U	934 U	862 U	1000 U	906 U	903 U
Benzyl alcohol		387 U	371 U	343 U	399 U	360 U	359 U

Table C-11
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
EOD RANGE 2 (AREA 18)-ROCKET RANGE,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft): EOD2-SS13-Z1 3/15/00 0 - 0.17	EOD2-SS13-Z2 4/17/00 2 - 4	EOD2-SS13-Z2/D 4/17/00 2 - 4	EOD2-SS14-Z1 3/15/00 0 - 0.17	EOD2-SS14-Z2 4/17/00 2 - 4	EOD2-SS15-Z1 3/15/00 0 - 0.17
Bis(2-chloroethoxy)methane	387 U	371 U	343 U	399 U	360 U	359 U
Bis(2-chloroethyl)ether	387 U	371 U	343 U	399 U	360 U	359 U
Bis(2-chloroisopropyl)ether	387 U	371 U	343 U	399 U	360 U	359 U
Bis(2-ethylhexyl)phthalate	387 U	371 U	343 U	399 U	360 U	359 U
Butyl benzyl phthalate	387 U	371 U	343 U	399 U	360 U	359 U
Carbazole	387 U	371 U	343 U	399 U	360 U	359 U
Chrysene	387 U	371 U	343 U	399 U	360 U	359 U
Di-n-butyl phthalate	387 U	371 U	343 U	399 U	360 U	359 U
Di-n-octyl phthalate	387 U	371 U	343 U	399 U	360 U	359 U
Dibenz(a,h)anthracene	387 U	371 U	343 U	399 U	360 U	359 U
Dibenzofuran	387 U	371 U	343 U	399 U	360 U	359 U
Diethyl phthalate	387 U	371 U	343 U	399 U	360 U	359 U
Dimethyl phthalate	387 U	371 U	343 U	399 U	360 U	359 U
Fluoranthene	387 U	371 U	343 U	399 U	360 U	359 U
Fluorene	387 U	371 U	343 U	399 U	360 U	359 U
Hexachlorobenzene	387 U	371 U	343 U	399 U	360 U	359 U
Hexachlorobutadiene	387 U	371 U	343 U	399 U	360 U	359 U
Hexachlorocyclopentadiene	974 U	934 U	862 U	1000 U	906 U	903 U
Hexachloroethane	387 U	371 U	343 U	399 U	360 U	359 U

Table C-11
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
EOD RANGE 2 (AREA 18)-ROCKET RANGE,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	EOD2-SS13-Z1 3/15/00 0 - 0.17	EOD2-SS13-Z2 4/17/00 2 - 4	EOD2-SS13-Z2/D 4/17/00 2 - 4	EOD2-SS14-Z1 3/15/00 0 - 0.17	EOD2-SS14-Z2 4/17/00 2 - 4	EOD2-SS15-Z1 3/15/00 0 - 0.17
Indeno(1,2,3-cd)pyrene		387 U	371 U	343 U	399 U	360 U	359 U
Isophorone		387 U	371 U	343 U	399 U	360 U	359 U
N-Nitrosodi-n-propylamine		387 U	371 U	343 U	399 U	360 U	359 U
N-Nitrosodimethylamine		387 U	371 U	343 U	399 U	360 U	359 U
N-Nitrosodiphenylamine		387 U	371 U	343 U	399 U	360 U	359 U
Naphthalene		387 U	371 U	343 U	399 U	360 U	359 U
Nitrobenzene		387 U	371 U	343 U	399 U	360 U	359 U
Polychlorophenol		974 U	934 U	862 U	1000 U	906 U	903 U
Phenanthrene		387 U	371 U	343 U	399 U	360 U	359 U
Phenol		387 U	371 U	343 U	399 U	360 U	359 U
Pyrene		387 U	371 U	343 U	399 U	360 U	359 U
Test : Semivolatiles - SW 8270C - Surrogates							
			Units:	%			
2,4,6-Tribromophenol-s		88	78	81	137	76	121
2-Fluorobiphenyl-s		88	79	82	119	80	108
2-Fluorophenol-s		87	76	85	117	84	103
Nitrobenzene-d5-s		71	87	92	105	88	94
Phenol-d5-s		80	93	101	109	97	95
Terphenyl-d14-s		117	61	64	151	62	130

Table C-11
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
EOD RANGE 2 (AREA 18)-ROCKET RANGE,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

Sample ID: Sample Date: Depth (ft):	EOD2-SS13-Z1 3/15/00 0 - 0.17	EOD2-SS13-Z2 4/17/00 2 - 4	EOD2-SS13-Z2/D 4/17/00 2 - 4	EOD2-SS14-Z1 3/15/00 0 - 0.17	EOD2-SS14-Z2 4/17/00 2 - 4	EOD2-SS15-Z1 3/15/00 0 - 0.17
PARAMETER						
Test : TAL Metals - SW6010B/7471A/7470A Units: mg/kg						
Aluminum	14200	20800	20400	14200	18100	14000
Antimony	2.38	0.776 U	1.14 U	1.19 U	0.708 U	0.763 U
Arsenic	6.41	0.776 U	1.25	2.82	0.708 U	1.29
Barium	41.0	33.4	35.5	76.9	38.2	32.7
Beryllium	0.561 J	0.854	0.951	0.777	0.931	0.539
Cadmium	0.641 U	3.44	3.78	3.30	3.33	3.13
Calcium	222	464	471	195	1070	139
Chromium	16.5	30.4	30.2	17.1	26.9	15.2
Cobalt	8.56	16.1	21.0	10.3	18.8	8.48
Copper	49.0	51.3	57.7	27.9	55.6	22.7
Iron	29600	41400	45000	28500	40000	27800
Lead	72.7	17.9	32.9	30.7	20.5	14.3
Magnesium	4270	10100	10000	3080	8940	3400
Manganese	668	579	676	1420	793	541
Mercury	0.683	0.0632	0.0965	0.163	0.0389	0.0646
Nickel	17.2	37.9	41.4	12.4	39.3	15.9
Potassium	1240	1260	1510	956	1160	691
Selenium	1.28 UJ	0.776 U	1.14 U	1.19 UJ	0.708 U	0.763 UJ

Table C-11
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
EOD RANGE 2 (AREA 18)-ROCKET RANGE,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	EOD2-SS13-Z1 3/15/00 0 - 0.17	EOD2-SS13-Z2 4/17/00 2 - 4	EOD2-SS13-Z2/D 4/17/00 2 - 4	EOD2-SS14-Z1 3/15/00 0 - 0.17	EOD2-SS14-Z2 4/17/00 2 - 4	EOD2-SS15-Z1 3/15/00 0 - 0.17
Silver		1.28 UR	0.776 U	1.14 U	0.247 J	0.708 U	0.763 UR
Sodium		128 U	35.7 J	38.7 J	119 U	32.7 J	76.3 U
Thallium		1.28 U	0.776 U	1.14 U	1.19 U	0.708 U	0.763 U
Vanadium		30.5	36.2	37.5	27.7	34.2	22.9
Zinc		76.7	74.8	73.1	67.9	84.2	64.3

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Table C-11
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
EOD RANGE 2 (AREA 18)-ROCKET RANGE,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

Sample ID: Sample Date: Depth (ft):	EOD2-SS15-Z2 4/17/00 2 - 4	EOD2-SS16-Z1 3/15/00 0 - 0.17	EOD2-SS16-Z2 4/17/00 2 - 4	EOD2-SS17-Z1 3/15/00 0 - 0.17	EOD2-SS18-Z1 3/15/00 0 - 0.17	EOD2-SS19-Z1 3/15/00 0 - 0.17
PARAMETER						
Test : Explosives - SW8330						
Units: mg/kg						
1,3,5-Trinitrobenzene	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
1,3-Dinitrobenzene	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2,4,6-Trinitrotoluene	0.25 U	0.25 U	0.25 U	0.25 U	0.16 J	0.25 U
2,4-Dinitrotoluene	0.25 U	0.25 U	0.25 U	0.25 U	0.070 J	0.25 U
2,6-Dinitrotoluene	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2-Amino-4,6-dinitrotoluene	0.25 U	0.25 U	0.25 U	0.25 U	0.21 J	0.25 U
2-Nitrotoluene	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
3-Nitrotoluene	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
4-Amino-2,6-dinitrotoluene	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
4-Nitrotoluene	0.25 U	0.25 U	0.25 U	0.25 U	0.30	0.25 U
HMX	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Nitrobenzene	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
RDX	0.50 U	0.50 U	0.50 U	0.50 U	0.33 J	0.50 U
Tetryl	0.65 U	0.65 U	0.65 U	0.65 U	0.65 U	0.65 U
Test : Explosives - SW8330 - Surrogates						
Units: %						
1-Chloro-3-nitrobenzene-s	91	109	92	108	106	123
Test : Percent Moisture - D2216						
Units: %						
Percent Moisture	8.77	21.0	10.5	16.1	30.5	13.4

Table C-11
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
EOD RANGE 2 (AREA 18)-ROCKET RANGE,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

Sample ID: Sample Date: Depth (ft): PARAMETER	EOD2-SS15-Z2 4/17/00 2 - 4	EOD2-SS16-Z1 3/15/00 0 - 0.17	EOD2-SS16-Z2 4/17/00 2 - 4	EOD2-SS17-Z1 3/15/00 0 - 0.17	EOD2-SS18-Z1 3/15/00 0 - 0.17	EOD2-SS19-Z1 3/15/00 0 - 0.17
Test : Semivolatiles - SW 8270C						
Units: µg/kg						
1,2,4-Trichlorobenzene	346 U	377 U	357 U	356 U	426 U	352 U
1,2-Dichlorobenzene	346 U	377 U	357 U	356 U	426 U	352 U
1,3-Dichlorobenzene	346 U	377 U	357 U	356 U	426 U	352 U
1,4-Dichlorobenzene	346 U	377 U	357 U	356 U	426 U	352 U
2,4,5-Trichlorophenol	871 U	948 U	897 U	896 U	1070 U	885 U
2,4,6-Trichlorophenol	346 U	377 U	357 U	356 U	426 U	352 U
2,5-Dichlorophenol	346 U	377 U	357 U	356 U	426 U	352 U
2,4-Dimethylphenol	346 U	377 U	357 U	356 U	426 U	352 U
2,4-Dinitrophenol	346 U	377 U	357 U	356 U	426 U	352 U
2,4-Dinitrotoluene	346 U	377 U	357 U	356 U	426 U	352 U
2,6-Dinitrotoluene	346 U	377 U	357 U	356 U	426 U	352 U
2-Chloronaphthalene	346 U	377 U	357 U	356 U	426 U	352 U
2-Chlorophenol	346 U	377 U	357 U	356 U	426 U	352 U
2-Methylnaphthalene	346 U	377 U	357 U	356 U	426 U	352 U
2-Methylphenol	346 U	377 U	357 U	356 U	426 U	352 U
2-Nitroaniline	871 U	948 U	897 U	896 U	1070 U	885 U
2-Nitrophenol	346 U	377 U	357 U	356 U	426 U	352 U
3,3'-Dichlorobenzidine	692 U	754 U	714 U	713 U	853 U	704 U

Table C-11
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
EOD RANGE 2 (AREA 18)-ROCKET RANGE,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	EOD2-SS15-Z2 4/17/00 2 - 4	EOD2-SS16-Z1 3/15/00 0 - 0.17	EOD2-SS16-Z2 4/17/00 2 - 4	EOD2-SS17-Z1 3/15/00 0 - 0.17	EOD2-SS18-Z1 3/15/00 0 - 0.17	EOD2-SS19-Z1 3/15/00 0 - 0.17
3-Nitroaniline		871 U	948 U	897 U	896 U	1070 U	885 U
4,6-Dinitro-2-methylphenol		871 U	948 U	897 U	896 U	1070 U	885 U
4-Bromophenyl phenyl ether		346 U	377 U	357 U	356 U	426 U	352 U
4-Chloro-3-methylphenol		346 U	377 U	357 U	356 U	426 U	352 U
4-Chloroaniline		346 U	377 U	357 U	356 U	426 U	352 U
4-Chlorophenyl phenyl ether		346 U	377 U	357 U	356 U	426 U	352 U
4-Methylphenol		346 U	377 U	357 U	356 U	426 U	352 U
4-Nitroaniline		871 U	948 U	897 U	896 U	1070 U	885 U
4-Nitrophenol		871 U	948 U	897 U	896 U	1070 U	885 U
Acenaphthene		346 U	377 U	357 U	356 U	426 U	352 U
Acenaphthylene		346 U	377 U	357 U	356 U	426 U	352 U
Anthracene		346 U	377 U	357 U	356 U	426 U	352 U
Benz(a)anthracene		346 U	377 U	357 U	356 U	426 U	352 U
Benzo(a)pyrene		346 U	377 U	357 U	356 U	426 UJ	352 UJ
Benzo(b)fluoranthene		346 U	377 U	357 U	356 U	426 UJ	352 UJ
Benzo(g,h,i)perylene		346 U	377 U	357 U	356 U	426 UJ	352 UJ
Benzo(k)fluoranthene		346 U	377 U	357 U	356 U	426 UJ	352 UJ
Benzoic acid		871 U	948 U	897 U	896 U	6050 J	885 U
Benzyl alcohol		346 U	377 U	357 U	356 U	308 J	352 U

Table C-11
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
EOD RANGE 2 (AREA 18)-ROCKET RANGE,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft): EOD2-SS15-Z2 4/17/00 2 - 4	EOD2-SS16-Z1 3/15/00 0 - 0.17	EOD2-SS16-Z2 4/17/00 2 - 4	EOD2-SS17-Z1 3/15/00 0 - 0.17	EOD2-SS18-Z1 3/15/00 0 - 0.17	EOD2-SS19-Z1 3/15/00 0 - 0.17
Bis(2-chloroethoxy)methane	346 U	377 U	357 U	356 U	426 U	352 U
Bis(2-chloroethyl)ether	346 U	377 U	357 U	356 U	426 U	352 U
Bis(2-chloroisopropyl)ether	346 U	377 U	357 U	356 U	426 U	352 U
Bis(2-ethylhexyl)phthalate	346 U	377 U	357 U	356 U	426 U	352 U
Butyl benzyl phthalate	346 U	377 U	357 U	356 U	426 U	352 U
Carbazole	346 U	377 U	357 U	356 U	426 U	352 U
Chrysene	346 U	377 U	357 U	356 U	426 U	352 U
Di-n-butyl phthalate	346 U	377 U	357 U	356 U	426 U	352 U
Di-n-octyl phthalate	346 U	377 U	357 U	356 U	426 U	352 U
Dibenz(a,h)anthracene	346 U	377 U	357 U	356 U	426 UJ	352 UJ
Dibenzofuran	346 U	377 U	357 U	356 U	426 U	352 U
Diethyl phthalate	346 U	377 U	357 U	356 U	426 U	352 U
Dimethyl phthalate	346 U	377 U	357 U	356 U	426 U	352 U
Fluoranthene	346 U	377 U	357 U	356 U	426 U	352 U
Fluorene	346 U	377 U	357 U	356 U	426 U	352 U
Hexachlorobenzene	346 U	377 U	357 U	356 U	426 U	352 U
Hexachlorobutadiene	346 U	377 U	357 U	356 U	426 U	352 U
Hexachlorocyclopentadiene	871 U	948 U	897 U	896 U	1070 U	885 U
Hexachloroethane	346 U	377 U	357 U	356 U	426 U	352 U

Table C-11
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
EOD RANGE 2 (AREA 18)-ROCKET RANGE,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

Sample ID: Sample Date: Depth (ft):	EOD2-SS15-Z2 4/17/00 2 - 4	EOD2-SS16-Z1 3/15/00 0 - 0.17	EOD2-SS16-Z2 4/17/00 2 - 4	EOD2-SS17-Z1 3/15/00 0 - 0.17	EOD2-SS18-Z1 3/15/00 0 - 0.17	EOD2-SS19-Z1 3/15/00 0 - 0.17
PARAMETER						
Indeno(1,2,3-cd)pyrene	346 U	377 U	357 U	356 U	426 U	352 U
Isophorone	346 U	377 U	357 U	356 U	426 U	352 U
N-Nitrosodi-n-propylamine	346 U	377 U	357 U	356 U	426 U	352 U
N-Nitrosodimethylamine	346 U	377 U	357 U	356 U	426 U	352 U
N-Nitrosodiphenylamine	346 U	377 U	357 U	356 U	426 U	352 U
Naphthalene	346 U	377 U	357 U	356 U	426 U	352 U
Nitrobenzene	346 U	377 U	357 U	356 U	426 U	352 U
Polychlorophenol	871 U	948 U	897 U	896 U	1070 U	885 U
Phenanthrene	346 U	377 U	357 U	356 U	426 U	352 U
Phenol	346 U	377 U	357 U	356 U	426 U	352 U
Pyrene	346 U	377 U	357 U	356 U	58.2 J	352 U
Test : Semivolatiles - SW 8270C - Surrogates						
	Units: %					
2,4,6-Tribromophenol-s	100	78	79	119	138	112
2-Fluorobiphenyl-s	80	72	76	106	135	101
2-Fluorophenol-s	90	78	85	104	128	110
Nitrobenzene-d5-s	90	63	83	92	105	87
Phenol-d5-s	100	72	93	94	109	98
Terphenyl-d14-s	61	82	59	123	200	164

Table C-11
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
EOD RANGE 2 (AREA 18)-ROCKET RANGE,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

Sample ID: Sample Date: Depth (ft):	EOD2-SS15-Z2 4/17/00 2 - 4	EOD2-SS16-Z1 3/15/00 0 - 0.17	EOD2-SS16-Z2 4/17/00 2 - 4	EOD2-SS17-Z1 3/15/00 0 - 0.17	EOD2-SS18-Z1 3/15/00 0 - 0.17	EOD2-SS19-Z1 3/15/00 0 - 0.17
PARAMETER						
Test : TAL Metals - SW6010B/7471A/7470A Units: mg/kg						
Aluminum	19500	15800	20900	15800	15800	15900
Antimony	0.554 U	0.745 U	0.947 U	0.795 U	1.2 U	0.76 U
Arsenic	0.554 U	3.65	0.947 U	3.49	3.06	2.28
Barium	47.5	66.1	41.0	34.8	50.8	29.5
Beryllium	1.03	1.15	0.883	0.601	0.604	0.629
Cadmium	3.79	4.03	3.29	3.28	3.35	3.40
Calcium	909	264	853	135	501	175
Chromium	29.2	18.1	29.5	18.1	17.6	20.3
Cobalt	19.9	10.8	17.5	11.0	8.10	9.66
Copper	63.9	24.4	50.4	30.3	31.9	35.3
Iron	41200	34400	40100	29500	29500	30800
Lead	17.2	17.4	14.0	13.6	26.1	19.3
Magnesium	9690	3280	10600	3740	3150	5430
Manganese	1340	539	1130	459	469	409
Mercury	0.0487	0.0734	0.0478	0.0551	0.0571	0.0508
Nickel	43.7	13.2	39.3	18.3	16.2	25.1
Potassium	1160	755	1340	781	921	967
Selenium	0.554 U	0.745 UJ	0.947 U	0.795 UJ	1.2 UJ	0.76 UJ

Table C-11
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
EOD RANGE 2 (AREA 18)-ROCKET RANGE,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	EOD2-SS15-Z2 4/17/00 2 - 4	EOD2-SS16-Z1 3/15/00 0 - 0.17	EOD2-SS16-Z2 4/17/00 2 - 4	EOD2-SS17-Z1 3/15/00 0 - 0.17	EOD2-SS18-Z1 3/15/00 0 - 0.17	EOD2-SS19-Z1 3/15/00 0 - 0.17
Silver		0.554 U	0.745 UR	0.256 J	0.795 UR	0.274 J	0.170 J
Sodium		34.9 J	24.7 J	38.7 J	25.1 J	120 U	24.4 J
Thallium		0.554 U	0.745 U	0.947 U	0.795 U	1.2 U	0.76 U
Vanadium		36.5	31.6	36.2	26.0	29.4	23.4
Zinc		120	66.8	77.3	77.4	83.7	76.5

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Table C-11
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
EOD RANGE 2 (AREA 18)-ROCKET RANGE,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

Sample ID: Sample Date: Depth (ft): PARAMETER	EOD2-SS19-Z1/D 3/15/00 0 - 0.17	EOD2-SS20-Z1 3/15/00 0 - 0.17	EOD2-SS21-Z1 3/15/00 0 - 0.17	EOD2-SS22-Z1 3/15/00 0 - 0.17	EOD2-SS22-Z2 4/17/00 2 - 4	EOD2-SS23-Z1 3/15/00 0 - 0.17
Test : Explosives - SW8330 Units: mg/kg						
1,3,5-Trinitrobenzene	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
1,3-Dinitrobenzene	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2,4,6-Trinitrotoluene	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2,4-Dinitrotoluene	0.25 U	0.25 U	0.072 J	0.25 U	0.25 U	0.25 U
2,6-Dinitrotoluene	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2-Amino-4,6-dinitrotoluene	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2-Nitrotoluene	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
3-Nitrotoluene	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
4-Amino-2,6-dinitrotoluene	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
4-Nitrotoluene	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
HMX	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Nitrobenzene	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
RDX	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Tetryl	0.65 U	0.65 U	0.65 U	0.65 U	0.65 U	0.65 U
Test : Explosives - SW8330 - Surrogates Units: %						
1-Chloro-3-nitrobenzene-s	109	110	110	111	91	109
Test : Percent Moisture - D2216 Units: %						
Percent Moisture	28.1	25.9	27.5	23.9	32.4	33.0

Table C-11
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
EOD RANGE 2 (AREA 18)-ROCKET RANGE,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

Sample ID: Sample Date: Depth (ft):	EOD2-SS19-Z1/D 3/15/00 0 - 0.17	EOD2-SS20-Z1 3/15/00 0 - 0.17	EOD2-SS21-Z1 3/15/00 0 - 0.17	EOD2-SS22-Z1 3/15/00 0 - 0.17	EOD2-SS22-Z2 4/17/00 2 - 4	EOD2-SS23-Z1 3/15/00 0 - 0.17
PARAMETER						
Test : Semivolatiles - SW 8270C Units: µg/kg						
1,2,4-Trichlorobenzene	457 U	412 U	4.51 U	427 U	488 U	481 U
1,2-Dichlorobenzene	457 U	412 U	4.51 U	427 U	488 U	481 U
1,3-Dichlorobenzene	457 U	412 U	4.51 U	427 U	488 U	481 U
1,4-Dichlorobenzene	457 U	412 U	4.51 U	427 U	488 U	481 U
2,4,5-Trichlorophenol	1150 U	1040 U	11.3 U	1070 U	1230 U	1210 U
2,4,6-Trichlorophenol	457 U	412 U	4.51 U	427 U	488 U	481 U
2,4-Dichlorophenol	457 U	412 U	4.51 U	427 U	488 U	481 U
2,4-Dimethylphenol	457 U	412 U	4.51 U	427 U	488 U	481 U
2,4-Dinitrophenol	457 U	412 U	4.51 U	427 U	488 U	481 U
2,4-Dinitrotoluene	457 U	412 U	4.51 U	427 U	488 U	481 U
2,6-Dinitrotoluene	457 U	412 U	4.51 U	427 U	488 U	481 U
2-Chloronaphthalene	457 U	412 U	4.51 U	427 U	488 U	481 U
2-Chlorophenol	457 U	412 U	4.51 U	427 U	488 U	481 U
2-Methylnaphthalene	457 U	412 U	4.51 U	427 U	488 U	481 U
2-Methylphenol	457 U	412 U	4.51 U	427 U	488 U	481 U
2-Nitroaniline	1150 U	1040 U	11.3 U	1070 U	1230 U	1210 U
2-Nitrophenol	457 U	412 U	4.51 U	427 U	488 U	481 U
3,3'-Dichlorobenzidine	915 U	824 U	9.01 U	854 U	976 U	963 U

Table C-11
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
EOD RANGE 2 (AREA 18)-ROCKET RANGE,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	EOD2-SS19-Z1/D 3/15/00 0 - 0.17	EOD2-SS20-Z1 3/15/00 0 - 0.17	EOD2-SS21-Z1 3/15/00 0 - 0.17	EOD2-SS22-Z1 3/15/00 0 - 0.17	EOD2-SS22-Z2 4/17/00 2 - 4	EOD2-SS23-Z1 3/15/00 0 - 0.17
3-Nitroaniline		1150 U	1040 U	11.3 U	1070 U	1230 U	1210 U
4,6-Dinitro-2-methylphenol		1150 U	1040 U	11.3 U	1070 U	1230 U	1210 U
4-Bromophenyl phenyl ether		457 U	412 U	4.51 U	427 U	488 U	481 U
4-Chloro-3-methylphenol		457 U	412 U	4.51 U	427 U	488 U	481 U
4-Chloroaniline		457 U	412 U	4.51 U	427 U	488 U	481 U
4-Chlorophenyl phenyl ether		457 U	412 U	4.51 U	427 U	488 U	481 U
4-Methylphenol		457 U	412 U	4.51 U	427 U	488 U	481 U
4-Nitroaniline		1150 U	1040 U	11.3 U	1070 U	1230 U	1210 U
4-Nitrophenol		1150 U	1040 U	11.3 U	1070 U	1230 U	1210 U
Acenaphthene		457 U	412 U	4.51 U	427 U	488 U	481 U
Acenaphthylene		457 U	412 U	4.51 U	427 U	488 U	481 U
Anthracene		457 U	412 U	4.51 U	427 U	488 U	481 U
Benz(a)anthracene		457 UJ	412 U	4.51 U	427 U	488 U	481 U
Benzo(a)pyrene		457 UJ	412 U	4.51 UJ	427 U	488 U	481 U
Benzo(b)fluoranthene		457 UJ	412 U	4.51 UJ	427 U	488 U	481 U
Benzo(g,h,i)perylene		457 UJ	412 U	4.51 UJ	427 U	488 U	481 U
Benzo(k)fluoranthene		457 UJ	412 U	4.51 UJ	427 U	488 U	481 U
Benzoic acid		1150 U	1040 U	15.7 J	1070 U	1230 U	1210 U
Benzyl alcohol		457 U	412 U	4.51 U	427 U	488 U	481 U

Table C-11
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
EOD RANGE 2 (AREA 18)-ROCKET RANGE,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	EOD2-SS19-Z1/D 3/15/00 0 - 0.17	EOD2-SS20-Z1 3/15/00 0 - 0.17	EOD2-SS21-Z1 3/15/00 0 - 0.17	EOD2-SS22-Z1 3/15/00 0 - 0.17	EOD2-SS22-Z2 4/17/00 2 - 4	EOD2-SS23-Z1 3/15/00 0 - 0.17
Bis(2-chloroethoxy)methane		457 U	412 U	4.51 U	427 U	488 U	481 U
Bis(2-chloroethyl)ether		457 U	412 U	4.51 U	427 U	488 U	481 U
Bis(2-chloroisopropyl)ether		457 U	412 U	4.51 U	427 U	488 U	481 U
Bis(2-ethylhexyl)phthalate		457 UJ	412 U	4.51 U	427 U	488 U	481 U
Butyl benzyl phthalate		457 UJ	412 U	4.51 U	427 U	488 U	481 U
Carbazole		457 U	412 U	4.51 U	427 U	488 U	481 U
Chrysene		457 UJ	412 U	4.51 U	427 U	488 U	481 U
Di-n-butyl phthalate		457 U	412 U	4.51 U	427 U	488 U	481 U
Di-n-octyl phthalate		457 UJ	412 U	4.51 U	427 U	488 U	481 U
Dibenz(a,h)anthracene		457 UJ	412 U	4.51 UJ	427 U	488 U	481 U
Dibenzofuran		457 U	412 U	4.51 U	427 U	488 U	481 U
Diethyl phthalate		457 U	412 U	4.51 U	427 U	488 U	481 U
Dimethyl phthalate		457 U	412 U	4.51 U	427 U	488 U	481 U
Fluoranthene		457 U	412 U	4.51 U	427 U	488 U	481 U
Fluorene		457 U	412 U	4.51 U	427 U	488 U	481 U
Hexachlorobenzene		457 U	412 U	4.51 U	427 U	488 U	481 U
Hexachlorobutadiene		457 U	412 U	4.51 U	427 U	488 U	481 U
Hexachlorocyclopentadiene		1150 U	1040 U	11.3 U	1070 U	1230 U	1210 U
Hexachloroethane		457 U	412 U	4.51 U	427 U	488 U	481 U

Table C-11
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
EOD RANGE 2 (AREA 18)-ROCKET RANGE,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	EOD2-SS19-Z1/D 3/15/00 0 - 0.17	EOD2-SS20-Z1 3/15/00 0 - 0.17	EOD2-SS21-Z1 3/15/00 0 - 0.17	EOD2-SS22-Z1 3/15/00 0 - 0.17	EOD2-SS22-Z2 4/17/00 2 - 4	EOD2-SS23-Z1 3/15/00 0 - 0.17
Indeno(1,2,3-cd)pyrene		457 UJ	412 U	4.51 U	427 U	488 U	481 U
Isophorone		457 U	412 U	4.51 U	427 U	488 U	481 U
N-Nitrosodi-n-propylamine		457 U	412 U	4.51 U	427 U	488 U	481 U
N-Nitrosodimethylamine		457 U	412 U	4.51 U	427 U	488 U	481 U
N-Nitrosodiphenylamine		457 U	412 U	4.51 U	427 U	488 U	481 U
Naphthalene		457 U	412 U	4.51 U	427 U	488 U	481 U
Nitrobenzene		457 U	412 U	4.51 U	427 U	488 U	481 U
Polychlorophenol		1150 U	1040 U	11.3 U	1070 U	1230 U	1210 U
Phenanthrene		457 U	412 U	4.51 U	427 U	488 U	481 U
Phenol		457 U	412 U	4.51 U	427 U	488 U	481 U
Pyrene		457 UJ	412 U	4.51 U	427 U	488 U	481 U
Test : Semivolatiles - SW 8270C - Surrogates							
			Units: %				
2,4,6-Tribromophenol-s		181	135	124	127	40	85
2-Fluorobiphenyl-s		163	123	114	114	43	82
2-Fluorophenol-s		144	122	111	113	46	82
Nitrobenzene-d5-s		122	102	99	92	43	74
Phenol-d5-s		127	108	96	107	52	74
Terphenyl-d14-s		236	157	154	138	37	106

Table C-11
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
EOD RANGE 2 (AREA 18)-ROCKET RANGE,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

Sample ID: Sample Date: Depth (ft):	EOD2-SS19-Z1/D 3/15/00 0 - 0.17	EOD2-SS20-Z1 3/15/00 0 - 0.17	EOD2-SS21-Z1 3/15/00 0 - 0.17	EOD2-SS22-Z1 3/15/00 0 - 0.17	EOD2-SS22-Z2 4/17/00 2 - 4	EOD2-SS23-Z1 3/15/00 0 - 0.17
PARAMETER						
Test : TAL Metals - SW6010B/7471A/7470A Units: mg/kg						
Aluminum	11100	17000	16700	14100	18500	15200
Antimony	1.12 U	0.823 U	0.958 U	0.811 U	0.973 U	1.18 U
Arsenic	1.78	1.97	3.75	2.35	0.344 J	2.02
Barium	39.9	58.0	63.3	51.4	60.2	51.3
Beryllium	0.444 J	0.633	0.956	0.822	0.761	0.518 J
Cadmium	2.39	3.13	3.80	3.03	3.26	2.82
Calcium	732	161	420	201	197	938
Chromium	13.2	16.6	18.4	16.1	21.1	16.9
Cobalt	6.67	6.45	9.21	7.92	12.7	6.28
Copper	24.3	21.5	28.0	18.7	41.0	24.4
Iron	18700	29600	33300	26900	38500	22600
Lead	22.4	14.8	21.8	16.3	17.4	23.2
Magnesium	2720	2100	3260	2410	4430	2690
Manganese	588	575	1520	1650	857	286
Mercury	0.0714	0.0873	0.0611	0.0677	0.0742	0.0869
Nickel	15.3	10.0	13.6	10.1	20.4	11.4
Potassium	993	638	959	767	585	802
Selenium	1.12 UJ	0.823 UJ	0.958 UJ	0.811 UJ	0.973 U	1.18 UJ

Table C-11
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
EOD RANGE 2 (AREA 18)-ROCKET RANGE,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	EOD2-SS19-Z1/D 3/15/00 0 - 0.17	EOD2-SS20-Z1 3/15/00 0 - 0.17	EOD2-SS21-Z1 3/15/00 0 - 0.17	EOD2-SS22-Z1 3/15/00 0 - 0.17	EOD2-SS22-Z2 4/17/00 2 - 4	EOD2-SS23-Z1 3/15/00 0 - 0.17
Silver		1.12 UR	0.823 UR	0.460 J	0.310 J	0.973 U	0.351 J
Sodium		112 U	82.3 U	95.8 U	81.1 U	97.3 U	118 U
Thallium		1.12 U	0.823 U	0.958 U	0.811 U	0.973 U	1.18 U
Vanadium		19.5	31.4	29.3	26.8	38.0	30.1
Zinc		65.3	69.7	109	88.6	85.8	72.9

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Table C-11
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
EOD RANGE 2 (AREA 18)-ROCKET RANGE,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER Sample ID: Sample Date: Depth (ft):	EOD2-SS24-Z1 3/15/00 0 - 0.17					
Test : Explosives - SW8330		Units: mg/kg				
1,3,5-Trinitrobenzene	0.25 U					
1,3-Dinitrobenzene	0.25 U					
2,4,6-Trinitrotoluene	0.25 U					
2,4-Dinitrotoluene	0.10 J					
2,6-Dinitrotoluene	0.25 U					
2-Amino-4,6-dinitrotoluene	0.25 U					
2-Nitrotoluene	0.25 U					
3-Nitrotoluene	0.25 U					
4-Amino-2,6-dinitrotoluene	0.25 U					
4-Nitrotoluene	0.10 J					
HMX	0.50 U					
Nitrobenzene	0.25 U					
RDX	0.50 U					
Tetryl	0.65 U					
Test : Explosives - SW8330 - Surrogates		Units: %				
1-Chloro-3-nitrobenzene-s	110					
Test : Percent Moisture - D2216		Units: %				
Percent Moisture	34.6					

Table C-11
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
EOD RANGE 2 (AREA 18)-ROCKET RANGE,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER Sample ID: Sample Date: Depth (ft):	EOD2-SS24-Z1 3/15/00 0 - 0.17					
Test : Semivolatiles - SW 8270C		Units: µg/kg				
1,2,4-Trichlorobenzene	494 U					
1,2-Dichlorobenzene	494 U					
1,3-Dichlorobenzene	494 U					
1,4-Dichlorobenzene	494 U					
2,4,5-Trichlorophenol	1240 U					
2,4,6-Trichlorophenol	494 U					
2,5-Dichlorophenol	494 U					
2,4-Dimethylphenol	494 U					
2,4-Dinitrophenol	494 U					
2,4-Dinitrotoluene	494 U					
2,6-Dinitrotoluene	494 U					
2-Chloronaphthalene	494 U					
2-Chlorophenol	494 U					
2-Methylnaphthalene	494 U					
2-Methylphenol	494 U					
2-Nitroaniline	1240 U					
2-Nitrophenol	494 U					
3,3'-Dichlorobenzidine	987 U					

Table C-11
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
EOD RANGE 2 (AREA 18)-ROCKET RANGE,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	EOD2-SS24-Z1 3/15/00 0 - 0.17				
3-Nitroaniline	1240 U					
4,6-Dinitro-2-methylphenol	1240 U					
4-Bromophenyl phenyl ether	494 U					
4-Chloro-3-methylphenol	494 U					
4-Chloroaniline	494 U					
4-Chlorophenyl phenyl ether	494 U					
4-Methylphenol	494 U					
4-Nitroaniline	1240 U					
4-Nitrophenol	1240 U					
Acenaphthene	494 U					
Acenaphthylene	494 U					
Anthracene	494 U					
Benz(a)anthracene	494 UJ					
Benzo(a)pyrene	494 UJ					
Benzo(b)fluoranthene	494 UJ					
Benzo(g,h,i)perylene	494 UJ					
Benzo(k)fluoranthene	494 UJ					
Benzoic acid	1280 J					
Benzyl alcohol	494 U					

Table C-11
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
EOD RANGE 2 (AREA 18)-ROCKET RANGE,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	EOD2-SS24-Z1 3/15/00 0 - 0.17				
Bis(2-chloroethoxy)methane	494 U					
Bis(2-chloroethyl)ether	494 U					
Bis(2-chloroisopropyl)ether	494 U					
Bis(2-ethylhexyl)phthalate	494 UJ					
Butyl benzyl phthalate	494 UJ					
Carbazole	494 U					
Chrysene	494 UJ					
Di-n-butyl phthalate	494 U					
Di-n-octyl phthalate	494 UJ					
Dibenz(a,h)anthracene	494 UJ					
Dibenzofuran	494 U					
Diethyl phthalate	494 U					
Dimethyl phthalate	494 U					
Fluoranthene	494 U					
Fluorene	494 U					
Hexachlorobenzene	494 U					
Hexachlorobutadiene	494 U					
Hexachlorocyclopentadiene	1240 U					
Hexachloroethane	494 U					

Table C-11
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
EOD RANGE 2 (AREA 18)-ROCKET RANGE,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	EOD2-SS24-Z1 3/15/00 0 - 0.17				
Indeno(1,2,3-cd)pyrene	494 UJ					
Isophorone	494 U					
N-Nitrosodi-n-propylamine	494 U					
N-Nitrosodimethylamine	494 U					
N-Nitrosodiphenylamine	494 U					
Naphthalene	494 U					
Nitrobenzene	494 U					
Pentachlorophenol	1240 U					
Phenanthrene	494 U					
Phenol	494 U					
Pyrene	58.3 J					
Test : Semivolatiles - SW 8270C - Surrogates						
			Units:	%		
2,4,6-Tribromophenol-s	139					
2-Fluorobiphenyl-s	120					
2-Fluorophenol-s	115					
Nitrobenzene-d5-s	97					
Phenol-d5-s	100					
Terphenyl-d14-s	199					

Table C-11
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
EOD RANGE 2 (AREA 18)-ROCKET RANGE,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID:	EOD2-SS24-Z1				
	Sample Date:	3/15/00				
	Depth (ft):	0 - 0.17				
Test : TAL Metals - SW6010B/7471A/7470A Units: mg/kg						
Aluminum	14300					
Antimony	1.03 U					
Arsenic	1.40					
Barium	34.8					
Beryllium	0.391 J					
Cadmium	2.57					
Chromium	421					
Chromium	15.8					
Cobalt	5.56					
Copper	20.6					
Iron	22700					
Lead	23.2					
Magnesium	2500					
Manganese	253					
Mercury	0.106					
Nickel	11.2					
Potassium	628					
Selenium	1.03 UJ					

Table C-11
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
EOD RANGE 2 (AREA 18)-ROCKET RANGE,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID:	EOD2-SS24-Z1				
	Sample Date:	3/15/00				
	Depth (ft):	0 - 0.17				
Silver		1.03 UR				
Sodium		103 U				
Thallium		1.03 U				
Vanadium		25.9				
Zinc		67.8				

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Table C-11
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
EOD RANGE 2 (AREA 18)-ROCKET RANGE,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

Key:

Qualifiers:

J	estimated
U	not detected
UJ	not detected; estimated detection limit reported
UR	not detected; rejected sample

Surrogate Limits:	Analysis	Media	Surrogates	Recovery Range
	Nitroaromatics & Nitramines - Explosives 8330	Soil	1-Chloro-3-nitrobenzene-s	76 - 124%
	Semivolatile Organics by Method 8270C		2,4,6-Tribromophenol-s	32 - 130%
			2-Fluorobiphenyl-s	27 - 123%
			2-Fluorophenol-s	36 - 135%
			Nitrobenzene-d5-s	25 - 122%
			Phenol-d5-s	36 - 128%
			Terphenyl-d14-s	51 - 116%

Units:

mg/L = milligrams per liter
mg/kg = milligrams per kilogram
µg/L = micrograms per liter
µg/kg = micrograms per kilogram

Test and Sample Information:

PCBs = polychlorinated biphenyls
TAL = Target Analyte List
TRPH = total recoverable petroleum hydrocarbons
/D = duplicate sample
NA = not analyzed

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Table C-12
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SEDIMENT SAMPLES FROM
EOD RANGE 2 (AREA 18)-ROCKET RANGE,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

Sample ID: Sample Date: Depth (ft):	EOD2-SD01 3/16/00 0 - 0.17	EOD2-SD01/D 3/16/00 0 - 0.17	EOD2-SD02 3/16/00 0 - 0.17	EOD2-SD03 3/16/00 0 - 0.17	EOD2-SD04 3/16/00 0 - 0.17	
PARAMETER						
Test : Explosives - SW8330						
	Units: mg/kg					
1,3,5-Trinitrobenzene	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	
1,3-Dinitrobenzene	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	
2,4,6-Trinitrotoluene	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	
2,4-Dinitrotoluene	0.25 U	0.047 J	0.25 U	0.25 U	0.25 U	
2,6-Dinitrotoluene	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	
2-Amino-4,6-dinitrotoluene	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	
2-Nitrotoluene	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	
3-Nitrotoluene	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	
4-Amino-2,6-dinitrotoluene	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	
4-Nitrotoluene	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	
HMX	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	
Nitrobenzene	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	
RDX	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	
Tetryl	0.65 U	0.65 U	0.65 U	0.65 U	0.65 U	
Test : Explosives - SW8330 - Surrogates						
	Units: %					
1-Chloro-3-nitrobenzene-s	112	110	108	108	133	
Test : Percent Moisture - D2216						
	Units: %					
Percent Moisture	54.5	69.9	46.8	46.7	49.5	

Table C-12
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SEDIMENT SAMPLES FROM
EOD RANGE 2 (AREA 18)-ROCKET RANGE,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Test : Semivolatiles - SW 8270C				
	Sample ID:	Sample Date:	Depth (ft):	Units: µg/kg	
	EOD2-SD01	3/16/00	0 - 0.17	EOD2-SD01/D	3/16/00
			0 - 0.17	EOD2-SD02	3/16/00
			0 - 0.17	EOD2-SD03	3/16/00
			0 - 0.17	EOD2-SD04	3/16/00

1,2,4-Trichlorobenzene	702 U	1040 U	589 U	582 U	647 U
1,2-Dichlorobenzene	702 U	1040 U	589 U	582 U	647 U
1,3-Dichlorobenzene	702 U	1040 U	589 U	582 U	647 U
1,4-Dichlorobenzene	702 U	1040 U	589 U	582 U	647 U
2,4,5-Trichlorophenol	1770 U	2610 U	1480 U	1460 U	1630 U
2,4,6-Trichlorophenol	702 U	1040 U	589 U	582 U	647 U
2,4-Dichlorophenol	702 U	1040 U	589 U	582 U	647 U
2,4-Dimethylphenol	702 U	1040 U	589 U	582 U	647 U
2,4-Dinitrophenol	702 U	1040 U	589 U	582 U	647 U
2,4-Dinitrofluorene	702 U	1040 U	589 U	582 U	647 U
2,6-Dinitrofluorene	702 U	1040 U	589 U	582 U	647 U
2-Chloronaphthalene	702 U	1040 U	589 U	582 U	647 U
2-Chlorophenol	702 U	1040 U	589 U	582 U	647 U
2-Methylnaphthalene	702 U	1040 U	589 U	582 U	647 U
2-Methylphenol	702 U	1040 U	589 U	582 U	647 U
2-Nitroaniline	1770 U	2610 U	1480 U	1460 U	1630 U
2-Nitrophenol	702 U	1040 U	589 U	582 U	647 U
3,3'-Dichlorobenzidine	1400 U	2080 U	1180 U	1160 U	1290 U

Table C-12
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SEDIMENT SAMPLES FROM
EOD RANGE 2 (AREA 18)-ROCKET RANGE,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	EOD2-SD01 3/16/00 0 - 0.17	EOD2-SD01/D 3/16/00 0 - 0.17	EOD2-SD02 3/16/00 0 - 0.17	EOD2-SD03 3/16/00 0 - 0.17	EOD2-SD04 3/16/00 0 - 0.17	
3-Nitroaniline		1770 U	2610 U	1480 U	1460 U	1630 U	
4,6-Dinitro-2-methylphenol		1770 U	2610 U	1480 U	1460 U	1630 U	
4-Bromophenyl phenyl ether		702 U	1040 U	589 U	582 U	647 U	
4-Chloro-3-methylphenol		702 U	1040 U	589 U	582 U	647 U	
4-Chloroaniline		702 U	1040 U	589 U	582 U	647 U	
4-Chlorophenyl phenyl ether		702 U	1040 U	589 U	582 U	647 U	
4-Methylphenol		702 U	1040 U	589 U	582 U	647 U	
4-Nitroaniline		1770 U	2610 U	1480 U	1460 U	1630 U	
4-Nitrophenol		1770 U	2610 U	1480 U	1460 U	1630 U	
Acenaphthene		702 U	1040 U	589 U	582 U	647 U	
Acenaphthylene		702 U	1040 U	589 U	582 U	647 U	
Anthracene		702 U	1040 U	589 U	582 U	647 U	
Benz(a)anthracene		702 U	1040 U	589 U	582 U	647 U	
Benzo(a)pyrene		702 U	1040 U	589 U	582 U	647 U	
Benzo(b)fluoranthene		702 U	1040 U	589 U	582 U	647 U	
Benzo(g,h,i)perylene		702 U	1040 U	589 U	582 U	647 U	
Benzo(k)fluoranthene		702 U	1040 U	589 U	582 U	647 U	
Benzoic acid		1770 U	2610 U	1480 U	1460 U	1630 U	
Benzyl alcohol		702 U	1040 U	589 U	582 U	647 U	

Table C-12
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SEDIMENT SAMPLES FROM
EOD RANGE 2 (AREA 18)-ROCKET RANGE,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	EOD2-SD01 3/16/00 0 - 0.17	EOD2-SD01/D 3/16/00 0 - 0.17	EOD2-SD02 3/16/00 0 - 0.17	EOD2-SD03 3/16/00 0 - 0.17	EOD2-SD04 3/16/00 0 - 0.17	
Bis(2-chloroethoxy)methane		702 U	1040 U	589 U	582 U	647 U	
Bis(2-chloroethyl)ether		702 U	1040 U	589 U	582 U	647 U	
Bis(2-chloroisopropyl)ether		702 U	1040 U	589 U	582 U	647 U	
Bis(2-ethylhexyl)phthalate		702 U	1040 U	589 U	582 U	647 U	
Butyl benzyl phthalate		702 U	1040 U	589 U	582 U	647 U	
Carbazole		702 U	1040 U	589 U	582 U	647 U	
Chrysene		702 U	1040 U	589 U	582 U	647 U	
Di-n-butyl phthalate		702 U	1040 U	589 U	582 U	647 U	
Di-n-octyl phthalate		702 U	1040 U	589 U	582 U	647 U	
Dibenz(a,h)anthracene		702 U	1040 U	589 U	582 U	647 U	
Dibenzofuran		702 U	1040 U	589 U	582 U	647 U	
Diethyl phthalate		702 U	1040 U	589 U	582 U	647 U	
Dimethyl phthalate		702 U	1040 U	589 U	582 U	647 U	
Fluoranthene		702 U	1040 U	589 U	582 U	647 U	
Fluorene		702 U	1040 U	589 U	582 U	647 U	
Hexachlorobenzene		702 U	1040 U	589 U	582 U	647 U	
Hexachlorobutadiene		702 U	1040 U	589 U	582 U	647 U	
Hexachlorocyclopentadiene		1770 U	2610 U	1480 U	1460 U	1630 U	
Hexachloroethane		702 U	1040 U	589 U	582 U	647 U	

Table C-12
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SEDIMENT SAMPLES FROM
EOD RANGE 2 (AREA 18)-ROCKET RANGE,

PARAMETER	Sample ID:	EOD2-SD01	EOD2-SD01/D	EOD2-SD02	EOD2-SD03	EOD2-SD04	
	Sample Date:	3/16/00	3/16/00	3/16/00	3/16/00	3/16/00	
	Depth (ft):	0 - 0.17	0 - 0.17	0 - 0.17	0 - 0.17	0 - 0.17	
Indeno(1,2,3-cd)pyrene		702 U	1040 U	589 U	582 U	647 U	
Isophorone		702 U	1040 U	589 U	582 U	647 U	
N-Nitrosodi-n-propylamine		702 U	1040 U	589 U	582 U	647 U	
N-Nitrosodimethylamine		702 U	1040 U	589 U	582 U	647 U	
N-Nitrosodiphenylamine		702 U	1040 U	589 U	582 U	647 U	
Naphthalene		702 U	1040 U	589 U	582 U	647 U	
Nitrobenzene		702 U	1040 U	589 U	582 U	647 U	
Pentachlorophenol		1770 U	2610 U	1480 U	1460 U	1630 U	
Phenanthrene		702 U	1040 U	589 U	582 U	647 U	
Phenol		702 U	1040 U	589 U	582 U	647 U	
Pyrene		702 U	1040 U	589 U	582 U	647 U	
Test : Semivolatiles - SW 8270C - Surrogates Units: %							
2,4,6-Tribromophenol-s		50	89	100	73	90	
2-Fluorobiphenyl-s		41	69	83	52	66	
2-Fluorophenol-s		53	81	94	54	68	
Nitrobenzene-d5-s		48	70	79	53	64	
Phenol-d5-s		47	77	89	29	64	
Terphenyl-d14-s		54	104	131	58	86	

Table C-12
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SEDIMENT SAMPLES FROM
EOD RANGE 2 (AREA 18)-ROCKET RANGE,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	EOD2-SD01 3/16/00 0 - 0.17	EOD2-SD01/D 3/16/00 0 - 0.17	EOD2-SD02 3/16/00 0 - 0.17	EOD2-SD03 3/16/00 0 - 0.17	EOD2-SD04 3/16/00 0 - 0.17	
Test : TAL Metals - SW6010B/7471A/7470A		Units: mg/kg					
Aluminum		12300	15800	12400	17300	16800	
Antimony		1.36 U	3.19 U	1.74 U	1.42 U	1.98 U	
Arsenic		1.36 U	3.19 U	3.35	3.53	1.21 J	
Barium		61.3	100	60.3	73.2	115	
Beryllium		0.618 J	0.999 J	0.643 J	1.01	1.08	
Cadmium		2.52	3.99	3.01	5.41	4.14	
Calcium		1130	2130	678	1430	2150	
Chromium		12.5	18.5	16.3	23.1	21.4	
Cobalt		8.82	15.0	10.7	24.6	18.1	
Copper		13.8	23.0	21.5	16.1	15.0	
Iron		15200	29000	23900	46500	29400	
Lead		19.4	28.5	34.1	43.5	37.3	
Magnesium		1910	2920	1830	3150	2820	
Manganese		430	1200	933	2880	2170	
Mercury		0.116	0.138	0.0846	0.0925	0.142	
Nickel		10.5	15.9	8.74	13.5	15.7	
Potassium		905	1730	1210	1220	1850	
Selenium		1.36 UJ	3.19 UJ	1.74 UJ	1.42 UJ	1.98 UJ	

Table C-12
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SEDIMENT SAMPLES FROM
EOD RANGE 2 (AREA 18)-ROCKET RANGE,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	EOD2-SD01 3/16/00 0 - 0.17	EOD2-SD01/D 3/16/00 0 - 0.17	EOD2-SD02 3/16/00 0 - 0.17	EOD2-SD03 3/16/00 0 - 0.17	EOD2-SD04 3/16/00 0 - 0.17	
Silver		1.36 UJ	0.887 J	1.74 UJ	1.42 UJ	1.98 UJ	
Sodium		62.9 J	121 J	61.5 J	70.6 J	98.5 J	
Thallium		1.36 U	3.19 U	1.74 U	1.42 U	1.98 U	
Vanadium		22.2	29.1	33.7	44.1	33.7	
Zinc		82.3	111	59.1	102	107	
Test : Total Organic Carbon - Lloyd Kahn Units: mg/kg							
Total Organic Carbon		60200	122000	29800	53000	50400	

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Table C-12
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SEDIMENT SAMPLES FROM
EOD RANGE 2 (AREA 18)-ROCKET RANGE,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

Key:

Qualifiers:

J	estimated
U	not detected
UJ	not detected; estimated detection limit reported

Surrogate Limits:	Analysis	Media	Surrogates	Recovery Range
	Nitroaromatics & Nitramines - Explosives 8330	Soil	1-Chloro-3-nitrobenzene-s	76 - 124%
	Semivolatile Organics by Method 8270C		2,4,6-Tribromophenol-s	32 - 130%
			2-Fluorobiphenyl-s	27 - 123%
			2-Fluorophenol-s	36 - 135%
			Nitrobenzene-d5-s	25 - 122%
			Phenol-d5-s	36 - 128%
			Terphenyl-d14-s	51 - 116%

Units:

mg/L = milligrams per liter
 mg/kg = milligrams per kilogram
 µg/L = micrograms per liter
 µg/kg = micrograms per kilogram

Test and Sample Information:

PCBs = polychlorinated biphenyls
 TAL = Target Analyte List
 TRPH = total recoverable petroleum hydrocarbons
 /D = duplicate sample
 NA = not analyzed

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Table C-13
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SURFACE WATER SAMPLES FROM
EOD RANGE 2 (AREA 18)-ROCKET RANGE,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

Sample ID: Sample Date: Depth (ft):	EOD2-SW01 3/16/00 0 - 0	EOD2-SW01/D 3/16/00 0 - 0	EOD2-SW02 3/16/00 0 - 0	EOD2-SW03 3/16/00 0 - 0	EOD2-SW04 3/16/00 0 - 0	
PARAMETER						
Test : Explosives - SW8330						
	Units: µg/L					
1,3,5-Trinitrobenzene	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	
1,3-Dinitrobenzene	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	
2,4,6-Trinitrotoluene	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	
2,4-Dinitrotoluene	0.20 U	0.20 U	0.20 U	0.10 J	0.20 U	
2,6-Dinitrotoluene	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	
2-Amino-4,6-dinitrotoluene	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	
2-Nitrotoluene	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	
3-Nitrotoluene	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	
4-Amino-2,6-dinitrotoluene	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	
4-Nitrotoluene	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	
HMX	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	
Nitrobenzene	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	
RDX	0.85 J	1.5 J	0.72 J	0.23 J	1.4 J	
Tetryl	0.20 U	0.20 U	0.20 U	0.092 J	0.20 U	
Test : Explosives - SW8330 - Surrogates						
	Units: %					
1-Chloro-3-nitrobenzene-s	107	123	116	106	117	
Test : Hardness - EPA 130.2						
	Units: mg/L					
Hardness (As CaCO3)	21.20	21.20	19.30	17.40	19.30	

Table C-13
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SURFACE WATER SAMPLES FROM
EOD RANGE 2 (AREA 18)-ROCKET RANGE,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	EOD2-SW01 3/16/00 0 - 0	EOD2-SW01/D 3/16/00 0 - 0	EOD2-SW02 3/16/00 0 - 0	EOD2-SW03 3/16/00 0 - 0	EOD2-SW04 3/16/00 0 - 0	
Test : Semivolatiles - SW 8270C		Units: µg/L					
1,2,4-Trichlorobenzene	10 U	10 U	10 U	10 U	10 U	10 U	
1,2-Dichlorobenzene	10 U	10 U	10 U	10 U	10 U	10 U	
1,3-Dichlorobenzene	10 U	10 U	10 U	10 U	10 U	10 U	
1,4-Dichlorobenzene	10 U	10 U	10 U	10 U	10 U	10 U	
2,4,5-Trichlorophenol	50 U	50 U	50 U	50 U	50 U	50 U	
2,4,6-Trichlorophenol	10 U	10 U	10 U	10 U	10 U	10 U	
2,5-Dichlorophenol	10 U	10 U	10 U	10 U	10 U	10 U	
2,4-Dimethylphenol	10 U	10 U	10 U	10 U	10 U	10 U	
2,4-Dinitrophenol	50 U	50 U	50 U	50 U	50 U	50 U	
2,4-Dinitrotoluene	10 U	10 U	10 U	10 U	10 U	10 U	
2,6-Dinitrotoluene	10 U	10 U	10 U	10 U	10 U	10 U	
2-Chloronaphthalene	10 U	10 U	10 U	10 U	10 U	10 U	
2-Chlorophenol	10 U	10 U	10 U	10 U	10 U	10 U	
2-Methylnaphthalene	10 U	10 U	10 U	10 U	10 U	10 U	
2-Methylphenol	10 U	10 U	10 U	10 U	10 U	10 U	
2-Nitroaniline	50 U	50 U	50 U	50 U	50 U	50 U	
2-Nitrophenol	10 U	10 U	10 U	10 U	10 U	10 U	
3,3'-Dichlorobenzidine	40 U	40 U	40 U	40 U	40 U	40 U	

Table C-13
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SURFACE WATER SAMPLES FROM
EOD RANGE 2 (AREA 18)-ROCKET RANGE,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	EOD2-SW01 3/16/00 0 - 0	EOD2-SW01/D 3/16/00 0 - 0	EOD2-SW02 3/16/00 0 - 0	EOD2-SW03 3/16/00 0 - 0	EOD2-SW04 3/16/00 0 - 0	
3-Nitroaniline		50 U	50 U	50 U	50 U	50 U	
4,6-Dinitro-2-methylphenol		50 U	50 U	50 U	50 U	50 U	
4-Bromophenyl phenyl ether		10 U	10 U	10 U	10 U	10 U	
4-Chloro-3-methylphenol		10 U	10 U	10 U	10 U	10 U	
4-Chloroaniline		20 U	20 U	20 U	20 U	20 U	
4-Chlorophenyl phenyl ether		10 U	10 U	10 U	10 U	10 U	
4-Methylphenol		20 U	20 U	20 U	20 U	20 U	
4-Nitroaniline		50 U	50 U	50 U	50 U	50 U	
4-Nitrophenol		50 U	50 U	50 U	50 U	50 U	
Acenaphthene		10 U	10 U	10 U	10 U	10 U	
Acenaphthylene		10 U	10 U	10 U	10 U	10 U	
Anthracene		10 U	10 U	10 U	10 U	10 U	
Benz(a)anthracene		10 U	10 U	10 U	10 U	10 U	
Benzo(a)pyrene		10 U	10 U	10 U	10 U	10 U	
Benzo(b)fluoranthene		10 U	10 U	10 U	10 U	10 U	
Benzo(g,h,i)perylene		10 U	10 U	10 U	10 U	10 U	
Benzo(k)fluoranthene		10 U	10 U	10 U	10 U	10 U	
Benzoic acid		100 U	100 U	100 U	100 U	100 U	
Benzyl alcohol		10 U	10 U	10 U	10 U	10 U	

Table C-13
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SURFACE WATER SAMPLES FROM
EOD RANGE 2 (AREA 18)-ROCKET RANGE,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	EOD2-SW01 3/16/00 0 - 0	EOD2-SW01/D 3/16/00 0 - 0	EOD2-SW02 3/16/00 0 - 0	EOD2-SW03 3/16/00 0 - 0	EOD2-SW04 3/16/00 0 - 0	
Bis(2-chloroethoxy)methane		10 U	10 U	10 U	10 U	10 U	
Bis(2-chloroethyl)ether		10 U	10 U	10 U	10 U	10 U	
Bis(2-chloroisopropyl)ether		10 U	10 U	10 U	10 U	10 U	
Bis(2-ethylhexyl)phthalate		20 U	20 U	20 U	20 U	20 U	
Butyl benzyl phthalate		10 U	10 U	10 U	10 U	10 U	
Carbazole		10 U	10 U	10 U	10 U	10 U	
Chrysene		10 U	10 U	10 U	10 U	10 U	
Di-n-butyl phthalate		10 U	10 U	10 U	10 U	10 U	
Di-n-octyl phthalate		10 U	10 U	10 U	10 U	10 U	
Dibenz(a,h)anthracene		10 U	10 U	10 U	10 U	10 U	
Dibenzofuran		10 U	10 U	10 U	10 U	10 U	
Diethyl phthalate		10 U	10 U	10 U	10 U	10 U	
Dimethyl phthalate		10 U	10 U	10 U	10 U	10 U	
Fluoranthene		10 U	10 U	10 U	10 U	10 U	
Fluorene		10 U	10 U	10 U	10 U	10 U	
Hexachlorobenzene		10 U	10 U	10 U	10 U	10 U	
Hexachlorobutadiene		10 U	10 U	10 U	10 U	10 U	
Hexachlorocyclopentadiene		50 U	50 U	50 U	50 U	50 U	
Hexachloroethane		10 U	10 U	10 U	10 U	10 U	

Table C-13
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SURFACE WATER SAMPLES FROM
EOD RANGE 2 (AREA 18)-ROCKET RANGE,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	EOD2-SW01 3/16/00 0 - 0	EOD2-SW01/D 3/16/00 0 - 0	EOD2-SW02 3/16/00 0 - 0	EOD2-SW03 3/16/00 0 - 0	EOD2-SW04 3/16/00 0 - 0	
Indeno(1,2,3-cd)pyrene		10 U	10 U	10 U	10 U	10 U	
Isophorone		10 U	10 U	10 U	10 U	10 U	
N-Nitrosodi-n-propylamine		10 U	10 U	10 U	10 U	10 U	
N-Nitrosodimethylamine		10 U	10 U	10 U	10 U	10 U	
N-Nitrosodiphenylamine		10 U	10 U	10 U	10 U	10 U	
Naphthalene		10 U	10 U	10 U	10 U	10 U	
Nitrobenzene		10 U	10 U	10 U	10 U	10 U	
Pentachlorophenol		50 U	50 U	50 U	50 U	50 U	
Phenanthrene		10 U	10 U	10 U	10 U	10 U	
Phenol		10 U	10 U	10 U	10 U	10 U	
Pyrene		10 U	10 U	10 U	10 U	10 U	
Test : Semivolatiles - SW 8270C - Surrogates							
			Units:	%			
2,4,6-Tribromophenol-s		103	109	141	105	107	
2-Fluorobiphenyl-s		70	77	100	75	80	
2-Fluorophenol-s		39	61	63	48	55	
Nitrobenzene-d5-s		74	84	101	77	84	
Phenol-d5-s		20	37	37	28	33	
Terphenyl-d14-s		126	123	159	115	121	

Table C-13
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SURFACE WATER SAMPLES FROM
EOD RANGE 2 (AREA 18)-ROCKET RANGE,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

Sample ID: Sample Date: Depth (ft):	EOD2-SW01 3/16/00 0 - 0	EOD2-SW01/D 3/16/00 0 - 0	EOD2-SW02 3/16/00 0 - 0	EOD2-SW03 3/16/00 0 - 0	EOD2-SW04 3/16/00 0 - 0	
PARAMETER						
Test : TAL Metals - SW6010B/7471A/7470A Units: µg/L						
Aluminum	159	171	198	187	206 J	
Antimony	10 U	10 U	10 U	10 U	10.0 U	
Arsenic	10 U	10 U	10 U	10 U	10.0 U	
Barium	11.9 J	11.2 J	12.9 J	9.99 J	11.3 J	
Beryllium	5 U	5 U	5 U	5 U	5.0 U	
Cadmium	5 U	5 U	5 U	5 U	5.0 U	
Calcium	5670	5130	4770	6050	5680 J	
Chromium	1.28 J	10 U	10 U	10 U	10.0 U	
Cobalt	20 U	0.674 J	20 U	20 U	20.0 U	
Copper	20 U	20 U	20 U	20 U	20.0 U	
Iron	107	108	152	113	198 J	
Lead	5 U	5 U	5 U	5 U	5.0 U	
Magnesium	1850	1710	1620	1920	1860 J	
Manganese	47.3	44.6	123	5.15 J	44.4 J	
Mercury	0.2 U	0.2 U	0.2 U	0.2 U	0.20 U	
Nickel	20 U	20 U	20 U	20 U	20.0 U	
Potassium	1470	1310	1260	1600	1420	
Selenium	10 U	10 U	10 U	10 U	10.0 U	

Table C-13
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SURFACE WATER SAMPLES FROM
EOD RANGE 2 (AREA 18)-ROCKET RANGE,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	EOD2-SW01 3/16/00 0 - 0	EOD2-SW01/D 3/16/00 0 - 0	EOD2-SW02 3/16/00 0 - 0	EOD2-SW03 3/16/00 0 - 0	EOD2-SW04 3/16/00 0 - 0	
Silver		10 U	10 U	10 U	10 U	10.0 U	
Sodium		9560	8660	8000	10500	9590	
Thallium		10 U	10 U	10 U	10 U	10.0 U	
Vanadium		20 U	20 U	20 U	20 U	1.03 J	
Zinc		9.76 J	10.6	16.9	10.9	12.6 J	

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Table C-13
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SURFACE WATER SAMPLES FROM
EOD RANGE 2 (AREA 18)-ROCKET RANGE,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

Key:**Qualifiers:**

J estimated
 U not detected

Surrogate Limits:	<u>Analysis</u>	<u>Media</u>	<u>Surrogates</u>	<u>Recovery Range</u>
	Nitroaromatics & Nitramines - Explosives 8330	Water	1-Chloro-3-nitrobenzene-s	32 - 127%
	Semivolatile Organics by Method 8270C		2,4,6-Tribromophenol-s	40 - 153%
			2-Fluorobiphenyl-s	39 - 116%
			2-Fluorophenol-s	10 - 125%
			Nitrobenzene-d5-s	33 - 117%
			Phenol-d5-s	10 - 125%
			Terphenyl-d14-s	27 - 135%

Units:

mg/L = milligrams per liter
 mg/kg = milligrams per kilogram
 µg/L = micrograms per liter
 µg/kg = micrograms per kilogram

Test and Sample Information:

PCBs = polychlorinated biphenyls
 TAL = Target Analyte List
 TRPH = total recoverable petroleum hydrocarbons
 /D = duplicate sample
 NA = not analyzed

Table C-14
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
PCI SITE 20,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

Sample ID: Sample Date: Depth (ft): PARAMETER	PCI20-NS01 3/14/00 0 - 0.17	PCI20-NS02 3/14/00 0 - 0.17	PCI20-NS03 3/14/00 0 - 0.17	PCI20-NS04 3/14/00 0 - 0.17	PCI20-NS05 3/14/00 0 - 0.17	
Test : PCBs - SW 8082 Units: mg/kg						
Aroclor 1016	0.0272 U	0.0316 U	0.0292 U	0.0317 U	0.031 U	
Aroclor 1221	0.0544 U	0.0632 U	0.0584 U	0.064 U	0.062 U	
Aroclor 1232	0.0272 U	0.0316 U	0.0292 U	0.0317 U	0.031 U	
Aroclor 1242	0.0272 U	0.0316 U	0.0292 U	0.0317 U	0.031 U	
Aroclor 1248	0.0272 U	0.0316 U	0.0292 U	0.0317 U	0.031 U	
Aroclor 1254	0.0272 U	0.0316 U	0.0292 U	0.0317 U	0.031 U	
Aroclor 1260	0.0142 J	0.0225 J	0.0162 J	0.0245 J	0.0133 J	
Test : PCBs - SW 8082 - Surrogates Units: %						
Decachlorobiphenyl-s	119 %	114 %	112 %	123 %	113 %	
Tetrachloro-m-xylene-s	105 %	98 %	96 %	102 %	104 %	
Test : Percent Moisture - D2216 Units: %						
Percent Moisture	26.8	37.7	32.7	37.5	35.7	
Test : Pesticides - SW 8081A Units: µg/kg						
4,4'-DDD	3.50 J	3.03 J	3.14 J	1.64 J	2.97 J	
4,4'-DDE	34.0	40.4	15.2	22.8	23.5	
4,4'-DDT	37.6	39.0	15.7	14.1	12.7	
Aldrin	6.8 U	7.89 U	2.92 U	3.17 U	3.1 U	
alpha-BHC	6.8 U	7.89 U	2.92 U	3.17 U	3.1 U	

Table C-14
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
PCI SITE 20,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	PCI20-NS01 3/14/00 0 - 0.17	PCI20-NS02 3/14/00 0 - 0.17	PCI20-NS03 3/14/00 0 - 0.17	PCI20-NS04 3/14/00 0 - 0.17	PCI20-NS05 3/14/00 0 - 0.17	
alpha-Chlordane		6.8 U	7.89 U	2.92 U	3.17 U	3.1 U	
beta-BHC		6.8 U	7.89 U	2.92 U	3.17 U	20.1	
delta-BHC		6.8 U	7.89 U	2.92 U	3.17 U	3.1 U	
Dieldrin		13.6 U	15.8 U	5.84 U	6.34 U	6.2 U	
Endosulfan I		13.6 U	15.8 U	5.84 U	6.34 U	6.2 U	
Endosulfan II		13.6 U	15.8 U	5.84 U	6.34 U	6.2 U	
Endosulfan sulfate		13.6 U	15.8 U	5.84 U	6.34 U	6.2 U	
Endrin		13.6 U	15.8 U	5.84 U	6.34 U	2.00 J	
Endrin aldehyde		13.6 U	15.8 U	5.84 U	6.34 U	6.2 U	
Endrin ketone		1.22 J	15.8 U	2.97 J	6.34 U	6.2 U	
gamma-BHC		6.8 U	7.89 U	2.92 U	3.17 U	3.1 U	
gamma-Chlordane		6.8 U	7.89 U	2.92 U	3.17 U	3.1 U	
Heptachlor		13.6 U	12.3 J	5.84 U	6.34 U	6.2 U	
Heptachlor epoxide		13.6 U	15.8 U	5.84 U	0.909 J	6.2 U	
Methoxychlor		68 U	78.9 U	6.74 J	31.7 U	2.88 J	
Toxaphene		340 U	395 U	146 U	158 U	155 U	
Test : Pesticides - SW8081A - Surrogates							
		Units: %					
Decachlorobiphenyl-s		86	107	136	77	105	
Tetrachloro-m-xylene-s		86	107	67	70	71	

Table C-14
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
PCI SITE 20,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

Sample ID: Sample Date: Depth (ft): PARAMETER	PCI20-NS01 3/14/00 0 - 0.17	PCI20-NS02 3/14/00 0 - 0.17	PCI20-NS03 3/14/00 0 - 0.17	PCI20-NS04 3/14/00 0 - 0.17	PCI20-NS05 3/14/00 0 - 0.17	
Test : Semivolatiles - SW 8270C Units: µg/kg						
1,2,4-Trichlorobenzene	445 U	518 U	487 U	522 U	506 U	
1,2-Dichlorobenzene	445 U	518 U	487 U	522 U	506 U	
1,3-Dichlorobenzene	445 U	518 U	487 U	522 U	506 U	
1,4-Dichlorobenzene	445 U	518 U	487 U	522 U	506 U	
2,4,5-Trichlorophenol	1120 U	1300 U	1220 U	1310 U	1270 U	
2,4,6-Trichlorophenol	445 U	518 U	487 U	522 U	506 U	
2,4-Dichlorophenol	445 U	518 U	487 U	522 U	506 U	
2,4-Dimethylphenol	445 U	518 U	487 U	522 U	506 U	
2,4-Dinitrophenol	445 U	518 U	487 U	522 U	506 U	
2,4-Dinitrotoluene	445 U	518 U	487 U	522 U	506 U	
2,6-Dinitrotoluene	445 U	518 U	487 U	522 U	506 U	
2-Chloronaphthalene	445 U	518 U	487 U	522 U	506 U	
2-Chlorophenol	445 U	518 U	487 U	522 U	506 U	
2-Methylnaphthalene	445 U	518 U	487 U	522 U	506 U	
2-Methylphenol	445 U	518 U	487 U	522 U	506 U	
2-Nitroaniline	1120 U	1300 U	1220 U	1310 U	1270 U	
2-Nitrophenol	445 U	518 U	487 U	522 U	506 U	
3,3'-Dichlorobenzidine	889 U	1040 U	973 U	1040 U	1010 U	

Table C-14
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
PCI SITE 20,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	PCI20-NS01 3/14/00 0 - 0.17	PCI20-NS02 3/14/00 0 - 0.17	PCI20-NS03 3/14/00 0 - 0.17	PCI20-NS04 3/14/00 0 - 0.17	PCI20-NS05 3/14/00 0 - 0.17	
3-Nitroaniline		1120 U	1300 U	1220 U	1310 U	1270 U	
4,6-Dinitro-2-methylphenol		1120 U	1300 U	1220 U	1310 U	1270 U	
4-Bromophenyl phenyl ether		445 U	518 U	487 U	522 U	506 U	
4-Chloro-3-methylphenol		445 U	518 U	487 U	522 U	506 U	
4-Chloroaniline		445 U	518 U	487 U	522 U	506 U	
4-Chlorophenyl phenyl ether		445 U	518 U	487 U	522 U	506 U	
4-Methylphenol		445 U	518 U	487 U	522 U	506 U	
4-Nitroaniline		1120 U	1300 U	1220 U	1310 U	1270 U	
4-Nitrophenol		1120 U	1300 U	1220 U	1310 U	1270 U	
Acenaphthene		445 U	518 U	487 U	522 U	139 J	
Acenaphthylene		445 U	518 U	94.8 J	522 U	506 U	
Anthracene		445 U	518 U	77.5 J	522 U	295 J	
Benz(a)anthracene		145 J	182 J	742 J	152 J	507	
Benzo(a)pyrene		161 J	212 J	741 J	169 J	397 J	
Benzo(b)fluoranthene		221 J	255 J	752 J	223 J	454 J	
Benzo(g,h,i)perylene		445 UJ	104 J	214 J	522 UJ	115 J	
Benzo(k)fluoranthene		222 J	279 J	1060 J	258 J	576 J	
Benzoic acid		914 J	1300 U	1220 U	1310 U	1270 U	
Benzyl alcohol		445 U	518 U	487 U	522 U	506 U	

Table C-14
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
PCI SITE 20,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

Sample ID: Sample Date: Depth (ft): PARAMETER	PCI20-NS01 3/14/00 0 - 0.17	PCI20-NS02 3/14/00 0 - 0.17	PCI20-NS03 3/14/00 0 - 0.17	PCI20-NS04 3/14/00 0 - 0.17	PCI20-NS05 3/14/00 0 - 0.17	
Bis(2-chloroethoxy)methane	445 U	518 U	487 U	522 U	506 U	
Bis(2-chloroethyl)ether	445 U	518 U	487 U	522 U	506 U	
Bis(2-chloroisopropyl)ether	445 U	518 U	487 U	522 U	506 U	
Bis(2-ethylhexyl)phthalate	82.2 J	518 UJ	487 UJ	522 U	506 U	
Butyl benzyl phthalate	445 UJ	518 UJ	487 UJ	522 U	506 U	
Carbazole	445 U	518 U	487 U	522 U	123 J	
Chrysene	221 J	279 J	812 J	237 J	580	
Di-n-butyl phthalate	445 U	518 U	487 U	1050	506 U	
Di-n-octyl phthalate	445 UJ	518 UJ	487 UJ	522 U	506 U	
Dibenz(a,h)anthracene	445 UJ	518 UJ	117 J	522 UJ	506 UJ	
Dibenzofuran	445 U	518 U	487 U	522 U	506 U	
Diethyl phthalate	445 U	518 U	487 U	522 U	506 U	
Dimethyl phthalate	445 U	518 U	487 U	522 U	506 U	
Fluoranthene	303 J	355 J	871	369 J	1070	
Fluorene	445 U	518 U	487 U	522 U	220 J	
Hexachlorobenzene	445 U	518 U	487 U	522 U	506 U	
Hexachlorobutadiene	445 U	518 U	487 U	522 U	506 U	
Hexachlorocyclopentadiene	1120 U	1300 U	1220 U	1310 U	1270 U	
Hexachlorocthane	445 U	518 U	487 U	522 U	506 U	

Table C-14
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
PCI SITE 20,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	PCI20-NS01 3/14/00 0 - 0.17	PCI20-NS02 3/14/00 0 - 0.17	PCI20-NS03 3/14/00 0 - 0.17	PCI20-NS04 3/14/00 0 - 0.17	PCI20-NS05 3/14/00 0 - 0.17	
Indeno(1,2,3-cd)pyrene		445 UJ	518 UJ	101 J	522 U	506 U	
Isophorone		445 U	518 U	487 U	522 U	506 U	
N-Nitrosodi-n-propylamine		445 U	518 U	487 U	522 U	506 U	
N-Nitrosodimethylamine		445 U	518 U	487 U	522 U	506 U	
N-Nitrosodiphenylamine		445 U	518 U	487 U	522 U	506 U	
Naphthalene		445 U	518 U	487 U	522 U	78.8 U	
Nitrobenzene		445 U	518 U	487 U	522 U	506 U	
Polychlorophenol		1120 U	1300 U	1220 U	1310 U	1270 U	
Phenanthrene		255 J	284 J	373 J	271 J	1140	
Phenol		445 U	518 U	487 U	522 U	506 U	
Pyrene		583 J	723 J	1760 J	576	1360	
Test : Semivolatiles - SW 8270C - Surrogates							
			Units:	%			
2,4,6-Tribromophenol-s		85	79	81	81	82	
2-Fluorobiphenyl-s		83	92	78	74	80	
2-Fluorophenol-s		100	81	89	89	96	
Nitrobenzene-d5-s		96	83	85	85	92	
Phenol-d5-s		102	82	91	91	99	
Terphenyl-d14-s		139	156	127	103	93	

Table C-14
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
PCI SITE 20,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	PCI20-NS01 3/14/00 0 - 0.17	PCI20-NS02 3/14/00 0 - 0.17	PCI20-NS03 3/14/00 0 - 0.17	PCI20-NS04 3/14/00 0 - 0.17	PCI20-NS05 3/14/00 0 - 0.17	
Test : TAL Metals - SW6010B/7471A/7470A Units: mg/kg							
Aluminum		12600	9390	8340	7790	14400	
Antimony		1.28 UJ	1.62 UJ	19.7	11.9	4.41	
Arsenic		0.923 U	0.842 J	1.22 U	7.39	1.73 J	
Barium		98.3	69.7	193	759	96.3	
Beryllium		0.682	0.460 J	0.497 J	0.477 J	0.705 J	
Cadmium		9.77	7.65	10.5	16.3	4.04	
Calcium		3260	2460	1820	3400	7000	
Chromium		25.8	34.3	39.3	45.2	19.5	
Cobalt		11.1	7.28	30.1	25.8	8.67	
Copper		74.3	106	79.3	251	38.5	
Iron		81000	69200	96900	145000	30500	
Lead		129	222	2220	1640	186	
Magnesium		3600	1750	1600	1650	3320	
Manganese		2070	653	718	987	773	
Mercury		0.317 J	1.17 J	0.251 J	3.83 J	0.147 J	
Nickel		23.0	32.9	68.9	59.0	17.9	
Potassium		944	977	727	765	1440	
Selenium		3.91 J	3.98 J	5.33 J	9.03 J	2.64 J	

Table C-14
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
PCI SITE 20,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID:	Sample Date:	Depth (ft):						
Silver	PCI20-NS01	3/14/00	0 - 0.17	0.568 J	0.538 J	1.02 J	0.748 J	0.399 J	
Sodium	PCI20-NS01	3/14/00	0 - 0.17	36.2 J	34.9 J	58.2 J	141	51.8 J	
Thallium	PCI20-NS01	3/14/00	0 - 0.17	0.923 UJ	1.15 UJ	1.22 UJ	1.05 UJ	1.56 UJ	
Vanadium	PCI20-NS01	3/14/00	0 - 0.17	37.4	31.6	32.1	56.2	42.8	
Zinc	PCI20-NS01	3/14/00	0 - 0.17	367 J	147 J	332 J	465 J	143 J	
Units: µg/kg									
Test : Volatiles - SW 8260B	PCI20-NS01	3/14/00	0 - 0.17	6.61 U	7.39 U	7.39 U	7.89 U	7.46 U	
1,1-Trichloroethane	PCI20-NS01	3/14/00	0 - 0.17	6.61 U	7.39 U	7.39 U	7.89 U	7.46 U	
1,1,2-Trichloroethane	PCI20-NS01	3/14/00	0 - 0.17	6.61 U	7.39 U	7.39 U	7.89 U	7.46 U	
1,1,2,2-Tetrachloroethane	PCI20-NS01	3/14/00	0 - 0.17	6.61 U	7.39 U	7.39 U	7.89 U	7.46 U	
1,1-Dichloroethane	PCI20-NS01	3/14/00	0 - 0.17	6.61 U	7.39 U	7.39 U	7.89 U	7.46 U	
1,1-Dichloroethene	PCI20-NS01	3/14/00	0 - 0.17	6.61 U	7.39 U	7.39 U	7.89 U	7.46 U	
1,2-Dichlorobenzene	PCI20-NS01	3/14/00	0 - 0.17	6.61 U	7.39 U	7.39 U	7.89 U	7.46 U	
1,2-Dichloroethane	PCI20-NS01	3/14/00	0 - 0.17	6.61 U	7.39 U	7.39 U	7.89 U	7.46 U	
1,2-Dichloroethene, Total	PCI20-NS01	3/14/00	0 - 0.17	6.61 U	7.39 U	7.39 U	7.89 U	7.46 U	
1,2-Dichloropropane	PCI20-NS01	3/14/00	0 - 0.17	6.61 U	7.39 U	7.39 U	7.89 U	7.46 U	
1,3-Dichlorobenzene	PCI20-NS01	3/14/00	0 - 0.17	6.61 U	7.39 U	7.39 U	7.89 U	7.46 U	
1,4-Dichlorobenzene	PCI20-NS01	3/14/00	0 - 0.17	6.61 U	7.39 U	7.39 U	7.89 U	7.46 U	
2-Butanone	PCI20-NS01	3/14/00	0 - 0.17	13.2 U	14.8 U	14.8 U	15.8 U	14.9 U	
2-Chloroethyl vinyl ether	PCI20-NS01	3/14/00	0 - 0.17	13.2 U	14.8 U	14.8 U	15.8 U	14.9 U	

Table C-14
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
PCI SITE 20,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft): PCI20-NS01 3/14/00 0 - 0.17	PCI20-NS02 3/14/00 0 - 0.17	PCI20-NS03 3/14/00 0 - 0.17	PCI20-NS04 3/14/00 0 - 0.17	PCI20-NS05 3/14/00 0 - 0.17	
2-Hexanone	13.2 U	14.8 U	14.8 U	15.8 U	14.9 U	
4-Methyl-2-pentanone	13.2 U	14.8 U	14.8 U	15.8 U	14.9 U	
Acetone	13.2 U	14.8 U	14.8 U	15.8 U	14.9 U	
Benzene	6.61 U	7.39 U	7.39 U	7.89 U	7.46 U	
Bromodichloromethane	6.61 U	7.39 U	7.39 U	7.89 U	7.46 U	
Bromoform	6.61 U	7.39 U	7.39 U	7.89 U	7.46 U	
Bromomethane	13.2 U	14.8 U	14.8 U	15.8 U	14.9 U	
Carbon disulfide	6.61 U	7.39 U	7.39 U	7.89 U	7.46 U	
Carbon tetrachloride	6.61 U	7.39 U	7.39 U	7.89 U	7.46 U	
Chlorobenzene	6.61 U	7.39 U	7.39 U	7.89 U	7.46 U	
Chloroethane	13.2 UJ	14.8 UJ	14.8 UJ	15.8 UJ	14.9 UJ	
Chloroform	6.61 U	7.39 U	7.39 U	7.89 U	7.46 U	
Chloromethane	13.2 U	14.8 U	14.8 U	15.8 U	14.9 U	
cis-1,2-Dichloroethene	6.61 U	7.39 U	7.39 U	7.89 U	7.46 U	
cis-1,3-Dichloropropene	6.61 U	7.39 U	7.39 U	7.89 U	7.46 U	
Dibromochloromethane	6.61 U	7.39 U	7.39 U	7.89 U	7.46 U	
Ethylbenzene	6.61 U	7.39 U	7.39 U	7.89 U	7.46 U	
m,p-Xylene	6.61 U	7.39 U	7.39 U	7.89 U	7.46 U	
Methylene chloride	6.61 U	7.39 U	7.39 U	7.89 U	7.46 U	

Table C-14
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
PCI SITE 20,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	PCI20-NS01 3/14/00 0 - 0.17	PCI20-NS02 3/14/00 0 - 0.17	PCI20-NS03 3/14/00 0 - 0.17	PCI20-NS04 3/14/00 0 - 0.17	PCI20-NS05 3/14/00 0 - 0.17	
o-Xylene		6.61 U	7.39 U	7.39 U	7.89 U	7.46 U	
Styrene		6.61 U	7.39 U	7.39 U	7.89 U	7.46 U	
Tetrachloroethene		6.61 U	7.39 U	7.39 U	7.89 U	7.46 U	
Toluene		6.61 U	7.39 U	7.39 U	7.89 U	7.46 U	
trans-1,2-Dichloroethene		6.61 U	7.39 U	7.39 U	7.89 U	7.46 U	
trans-1,3-Dichloropropene		6.61 U	7.39 U	7.39 U	7.89 U	7.46 U	
Trichloroethene		6.61 U	7.39 U	7.39 U	7.89 U	7.46 U	
Trichlorofluoromethane		6.61 U	7.39 U	7.39 U	7.89 U	7.46 U	
Vinyl acetate		13.2 U	14.8 U	14.8 U	15.8 U	14.9 U	
Vinyl chloride		13.2 U	14.8 U	14.8 U	15.8 U	14.9 U	
Xylenes, Total		6.61 U	7.39 U	7.39 U	7.89 U	7.46 U	
Test : Volatiles - SW 8260B - Surrogates Units: %							
1,2-Dichloroethane-d4-s		111	111	110	110	110	
4-Bromofluorobenzene-s		118	119	118	121	119	
Dibromofluoromethane-s		110	109	110	109	109	
Toluene-d8-s		106	105	105	107	106	

Table C-14
COMPLETE ANALYTICAL DATA SUMMARY FOR THE SOIL SAMPLES FROM
PCI SITE 20,
YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

Key:

Qualifiers:

J	estimated
U	not detected
UJ	not detected; estimated detection limit reported

Surrogate Limits:	Analysis	Media	Surrogates	Recovery Range
	PCBs by Method 8082	Soil	Decachlorobiphenyl-s	52 - 115%
			Tetrachloro-m-xylene-s	39 - 125%
	Pesticides by Method 8081A		Decachlorobiphenyl-s	39 - 135%
			Tetrachloro-m-xylene-s	47 - 140%
	Semivolatile Organics by Method 8270C		2,4,6-Tribromophenol-s	32 - 130%
			2-Fluorobiphenyl-s	27 - 123%
			2-Fluorophenol-s	36 - 135%
			Nitrobenzene-d5-s	25 - 122%
			Phenol-d5-s	36 - 128%
			Terphenyl-d14-s	51 - 116%
	Volatile Organic Compounds by Method 8260B		1,2-Dichloroethane-d4-s	77 - 119%
			4-Bromofluorobenzene-s	88 - 124%
			Dibromofluoromethane-s	83 - 117%
			Toluene-d8-s	84 - 119%

Units:

mg/L = milligrams per liter
 mg/kg = milligrams per kilogram
 µg/L = micrograms per liter
 µg/kg = micrograms per kilogram

Test and Sample Information:

PCBs = polychlorinated biphenyls
 TAL = Target Analyte List
 TRPH = total recoverable petroleum hydrocarbons
 /D = duplicate sample

Table C-15
COMPLETE ANALYTICAL DATA SUMMARY FOR THE DRILLING WATER SAMPLES FROM
THE YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID:	FIELDQC-DW01				
	Sample Date:	4/3/00				
	Depth (ft):	0 - 0				
Test : PCBs - SW 8082						
			Units: µg/L			
Aroclor 1016	0.5 U					
Aroclor 1221	1 U					
Aroclor 1232	0.5 U					
Aroclor 1242	0.5 U					
Aroclor 1248	0.5 U					
Aroclor 1254	0.5 U					
Aroclor 1260	0.5 U					
Test : PCBs - SW 8082 - Surrogates						
			Units: %			
Decachlorobiphenyl-s	94					
Tetrachloro-m-xylenc-s	90					
Test : Pesticides - SW 8081A						
			Units: µg/L			
4,4'-DDD	0.05 U					
4,4'-DDE	0.05 U					
4,4'-DDT	0.05 U					
Aldrin	0.025 U					
alpha-BHC	0.025 U					
alpha-Chlordane	0.025 U					
beta-BHC	0.025 U					

Table C-15
COMPLETE ANALYTICAL DATA SUMMARY FOR THE DRILLING WATER SAMPLES FROM
THE YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	FIELDQC-DW01 4/3/00 0 - 0				
delta-BHC		0.025 U				
Dieldrin		0.05 U				
Endosulfan I		0.05 U				
Endosulfan II		0.05 U				
Endosulfan sulfate		0.05 U				
Endrin		0.05 U				
Endrin aldehyde		0.05 U				
Endrin ketone		0.05 U				
gamma-BHC		0.025 U				
gamma-Chlordane		0.025 U				
Heptachlor		0.025 U				
Heptachlor epoxide		0.025 U				
Methoxychlor		0.25 U				
Toxaphene		1 U				
Test : Pesticides - SW 8081A - Surrogates			Units: %			
Decachlorobiphenyl-s		89				
Tetrachloro-m-xylene-s		84				
Test : Semivolatiles - SW 8270C			Units: µg/L			
1,2,4-Trichlorobenzene		10 U				

Table C-15
COMPLETE ANALYTICAL DATA SUMMARY FOR THE DRILLING WATER SAMPLES FROM
THE YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	FIELDQC-DW01 4/3/00 0 - 0				
1,2-Dichlorobenzene	10 U					
1,3-Dichlorobenzene	10 U					
1,4-Dichlorobenzene	10 U					
2,4,5-Trichlorophenol	50 U					
2,4,6-Trichlorophenol	10 U					
2,4-Dichlorophenol	10 U					
2,4-Dimethylphenol	10 U					
2,4-Dinitrophenol	50 U					
2,4-Dinitrotoluene	10 U					
2,6-Dinitrotoluene	10 U					
2-Chloronaphthalene	10 U					
2-Chlorophenol	10 U					
2-Methylnaphthalene	10 U					
2-Methylphenol	10 U					
2-Nitroaniline	50 U					
2-Nitrophenol	10 U					
3,3'-Dichlorobenzidine	40 U					
3-Nitroaniline	50 U					
4,6-Dinitro-2-methylphenol	50 U					

Table C-15
COMPLETE ANALYTICAL DATA SUMMARY FOR THE DRILLING WATER SAMPLES FROM
THE YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	FIELDQC-DW01 4/3/00 0 - 0					
4-Bromophenyl phenyl ether	10 U						
4-Chloro-3-methylphenol	10 U						
4-Chloroaniline	20 U						
4-Chlorophenyl phenyl ether	10 U						
4-Methylphenol	20 U						
4-Nitroaniline	50 U						
4-Nitrophenol	50 U						
Acenaphthene	10 U						
Acenaphthylene	10 U						
Anthracene	10 U						
Benz(a)anthracene	10 U						
Benzo(a)pyrene	10 U						
Benzo(b)fluoranthene	10 U						
Benzo(g,h,i)perylene	10 U						
Benzo(k)fluoranthene	10 U						
Benzoic acid	100 U						
Benzyl alcohol	10 U						
Bis(2-chloroethoxy)methane	10 U						
Bis(2-chloroethyl)ether	10 U						

Table C-15
COMPLETE ANALYTICAL DATA SUMMARY FOR THE DRILLING WATER SAMPLES FROM
THE YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	FIELDQC-DW01 4/3/00 0 - 0					
Bis(2-chloroisopropyl)ether	10 U						
Bis(2-ethylhexyl)phthalate	20 U						
Butyl benzyl phthalate	10 U						
Carbazole	10 U						
Chrysene	10 U						
Di-n-butyl phthalate	10 U						
Di-n-octyl phthalate	10 U						
Dibenz(a,h)anthracene	10 U						
Dibenzofuran	10 U						
Diethyl phthalate	10 U						
Dimethyl phthalate	10 U						
Fluoranthene	10 U						
Fluorene	10 U						
Hexachlorobenzene	10 U						
Hexachlorobutadiene	10 U						
Hexachlorocyclopentadiene	50 U						
Hexachloroethane	10 U						
Indeno(1,2,3-cd)pyrene	10 U						
Isophorone	10 U						

**COMPLETE ANALYTICAL DATA SUMMARY FOR THE DRILLING WATER SAMPLES FROM
THEYEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK**

PARAMETER	Sample ID: Sample Date: Depth (ft):	FIELDQC-DW01 4/3/00 0 - 0					
N-Nitrosodi-n-propylamine	10 U						
N-Nitrosodimethylamine	10 U						
N-Nitrosodiphenylamine	10 U						
Naphthalene	10 U						
Nitrobenzene	10 U						
Pentachlorophenol	50 U						
Phenanthrene	10 U						
Phenol	10 U						
Pyrene	10 U						
Test : Semivolatiles - SW 8270C - Surrogates Units: %							
2,4,6-Tribromophenol-s	87						
2-Fluorobiphenyl-s	65						
2-Fluorophenol-s	37						
Nitrobenzene-d5-s	67						
Phenol-d5-s	25						
Terphenyl-d14-s	77						
Test : TAL Metals - SW6010B/7471A/7470A Units: µg/L							
Aluminum	89.6 J						
Antimony	10 U						

Table C-15
COMPLETE ANALYTICAL DATA SUMMARY FOR THE DRILLING WATER SAMPLES FROM
THE YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	FIELDQC-DW01 4/3/00 0 - 0				
Arsenic	10 U					
Barium	5.00 J					
Beryllium	0.106 J					
Cadmium	5 U					
Calcium	8670					
Chromium	10 UJ					
Cobalt	20 U					
Copper	39.9					
Iron	298					
Lead	2.50 J					
Magnesium	1970					
Manganese	7.16 J					
Mercury	0.2 UJ					
Nickel	20 U					
Potassium	3710					
Selenium	10 U					
Silver	10 U					
Sodium	4120					
Thallium	10 U					

Table C-15
COMPLETE ANALYTICAL DATA SUMMARY FOR THE DRILLING WATER SAMPLES FROM
THE YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID:	FIELDQC-DW01				
	Sample Date:	4/3/00				
	Depth (ft):	0 - 0				
Vanadium		20 U				
Zinc		52.3				
Test : Volatiles - SW 8260B			Units: µg/L			
1,1,1-Trichloroethane		5 U				
1,1,2,2-Tetrachloroethane		5 U				
1,1,2-Trichloroethane		5 U				
1,1-Dichloroethane		5 U				
1,2-Dichloroethane		5 U				
1,2-Dichlorobenzene		5 U				
1,2-Dichloroethane		5 U				
1,2-Dichloroethene, Total		5 U				
1,2-Dichloropropane		5 U				
1,3-Dichlorobenzene		5 U				
1,4-Dichlorobenzene		5 U				
2-Butanone		10 U				
2-Chloroethyl vinyl ether		10 U				
2-Hexanone		10 U				
4-Methyl-2-pentanone		10 U				
Acetone		2.77 J				

Table C-15
COMPLETE ANALYTICAL DATA SUMMARY FOR THE DRILLING WATER SAMPLES FROM
THE YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID: Sample Date: Depth (ft):	FIELDQC-DW01 4/3/00 0 - 0				
Benzene	5 U					
Bromodichloromethane	1.39 J					
Bromoform	5 U					
Bromomethane	10 U					
Carbon disulfide	5 U					
Carbon tetrachloride	5 U					
Chlorobenzene	5 U					
Chloroethane	10 U					
Chloroform	39.6					
Chloromethane	10 U					
cis-1,2-Dichloroethene	5 U					
cis-1,3-Dichloropropene	5 U					
Dibromochloromethane	5 U					
Ethylbenzene	5 U					
m,p-Xylene	5 U					
Methylene chloride	5 U					
o-Xylene	5 U					
Styrene	5 U					
Tetrachloroethene	5 U					

Table C-15
COMPLETE ANALYTICAL DATA SUMMARY FOR THE DRILLING WATER SAMPLES FROM
THE YEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

PARAMETER	Sample ID:	FIELDQC-DW01					
	Sample Date:	4/3/00					
	Depth (ft):	0 - 0					
Toluene		5 U					
trans-1,2-Dichloroethene		5 U					
trans-1,3-Dichloropropene		5 U					
Trichloroethene		5 U					
Trichlorofluoromethane		5 U					
Vinyl acetate		10 U					
Vinyl chloride		10 U					
Xylenes, Total		5 U					
Test : Volatiles - SW 8260B - Surrogates Units: %							
1,2-Dichloroethane-d4-s		90					
4-Bromofluorobenzene-s		98					
Dibromofluoromethane-s		96					
Toluene-d8-s		94					

Table C-15
COMPLETE ANALYTICAL DATA SUMMARY FOR THE DRILLING WATER SAMPLES FROM
THEYEAR 2000 EXPANDED SITE INVESTIGATION, FORMER GRIFFISS AIR FORCE BASE, ROME, NEW YORK

Key:

Qualifiers:

J	estimated
U	not detected
UJ	not detected; estimated detection limit reported

Surrogate Limits:	Analysis	Media	Surrogates	Recovery Range
	PCBs by Method 8082	Water	Decachlorobiphenyl-s	18 - 112%
			Tetrachloro-m-xylene-s	32 - 110%
	Pesticides by Method 8081A		Decachlorobiphenyl-s	12 - 132%
			Tetrachloro-m-xylene-s	31 - 122%
	Semivolatile Organics by Method 8270C		2,4,6-Tribromophenol-s	40 - 153%
			2-Fluorobiphenyl-s	39 - 116%
			2-Fluorophenol-s	10 - 125%
			Nitrobenzene-d5-s	33 - 117%
			Phenol-d5-s	10 - 125%
			Terphenyl-d14-s	27 - 135%
	VOC by GCMS Method 8260B		1,2-Dichloroethane-d4-s	82 - 124%
			4-Bromofluorobenzene-s	87 - 115%
			Dibromofluoromethane-s	89 - 119%
			Toluene-d8-s	85 - 115%

Units:

mg/L = milligrams per liter
 mg/kg = milligrams per kilogram
 µg/L = micrograms per liter
 µg/kg = micrograms per kilogram

Test and Sample Information:

PCBs = polychlorinated biphenyls
 TAL = Target Analyte List
 TRPH = total recoverable petroleum hydrocarbons
 /D = duplicate sample

C-250

D

Well Development Logs

WELL DEVELOPMENT RECORD

SITE SSI - Grenada

DATE 4/14/2000

LOCATION OTH-5485-2

WELL NO. 5501

MEASUREMENT OF WATER LEVEL AND WELL VOLUME

- Prior to sampling, the static water level and total depth of the well will be measured with a calibrated weighted line. Care will be taken to decontaminate equipment between each use to avoid cross contamination of wells.
- The number of linear feet of static water (difference between static water level and total depth of well) will be calculated.
- The static volume will be calculated using the formula:

$$V = Tr^2(0.163)$$

Where:

V = Static volume of well in gallons;

T = Depth of water in the well, measured in feet;

r = Inside radius of well casing in inches;

and 0.163 = A constant conversion factor which compensates for r²h factor for the conversion of the casing radius from inches to feet, the conversion of cubic feet to gallons, and (pi).

1 well volume (v) = 15.56 gallons.

Volume of Water in Casing or Hole

Diameter of Casing or Hole (in)	Gallons per Foot of Depth	Cubic Feet per Foot of Depth	Liter per Meter of Depth	Cubic Meters per Meter of Depth
1	0.041	0.0055	0.509	0.509 x10 ⁻³
1 1/2	0.092	0.0123	1.142	1.142 x10 ⁻³
2	0.163	0.0218	2.024	2.024 x10 ⁻³
2 1/2	0.255	0.0341	3.167	3.167 x10 ⁻³
3	0.367	0.0491	4.558	4.558 x10 ⁻³
3 1/2	0.500	0.0668	6.209	6.209 x10 ⁻³
4	0.653	0.0873	8.110	8.110 x10 ⁻³
4 1/2	0.826	0.1104	10.260	10.260 x10 ⁻³
5	1.020	0.1364	12.670	12.670 x10 ⁻³
5 1/2	1.234	0.1650	15.330	15.330 x10 ⁻³
6	1.469	0.1963	18.240	18.240 x10 ⁻³
7	2.000	0.2673	24.840	24.840 x10 ⁻³
8	2.611	0.3491	32.430	32.430 x10 ⁻³
9	3.305	0.4418	41.040	41.040 x10 ⁻³
10	4.080	0.5454	50.670	50.670 x10 ⁻³
11	4.937	0.6600	61.310	61.310 x10 ⁻³
12	5.875	0.7854	72.960	72.960 x10 ⁻³
14	8.000	1.0690	99.350	99.350 x10 ⁻³
16	10.440	1.3960	129.650	129.650 x10 ⁻³
18	13.220	1.7670	164.180	164.180 x10 ⁻³
20	16.320	2.1820	202.680	202.680 x10 ⁻³
22	19.750	2.6400	245.280	245.280 x10 ⁻³
24	23.500	3.1420	291.850	291.850 x10 ⁻³
26	27.580	3.6870	342.520	342.520 x10 ⁻³
28	32.000	4.2760	397.410	397.410 x10 ⁻³
30	36.720	4.9090	456.020	456.020 x10 ⁻³
32	41.780	5.5850	518.870	518.870 x10 ⁻³
34	47.160	6.3050	585.680	585.680 x10 ⁻³
36	52.880	7.0690	656.720	656.720 x10 ⁻³

1 Gallon = 3.785 liters

1 Meter = 3.281 feet

1 Gallon water weighs 8.33 lbs. = 3.779 kilograms

1 Liter water weighs 1 kilogram = 2.205 pounds

1 Gallon per foot of depth = 12.419 liters per foot of depth

1 Gallon per meter of depth = 12.419 x 10⁻³ cubic meters per meter of depth

INITIAL DEVELOPMENT WATER

WATER LEVEL (TOIC) 32.94'

WELL DEPTH (TD) 41.44'

COLOR Medium Brown

ODOR None

CLARITY No Clarity (>1000 Turbidity)

FINAL DEVELOPMENT WATER

WATER LEVEL (TOIC) 32'

WELL DEPTH (TD) 41.44'

COLOR None

ODOR None

CLARITY Clear

DESCRIPTION OF DEVELOPMENT TECHNIQUE

Initially bail 15 gal with surge block, pump and set flow rate for 1/2 liter per minute, pump from well until reading of 250 NTUS is reached and recirculated until 70 gals is reached, checking for pH, conduct, turbid, Temp, odor + % part at 1/2 hour intervals for 1st 2 hours, + once every hour there after

WELL DEVELOPMENT - PARAMETER MEASUREMENTS

[illegible]

DEVELOPED BY: Sharon Hennick

DATE 4/14/2000

WELL DEVELOPMENT RECORD

SITE ESI Amendment DATE 4/14/2000

LOCATION OTH-2465-2 WELL NO. 5502

MEASUREMENT OF WATER LEVEL AND WELL VOLUME

• Prior to sampling, the static water level and total depth of the well will be measured with a calibrated weighted line. Care will be taken to decontaminate equipment between each use to avoid cross contamination of wells.

• The number of linear feet of static water (difference between static water level and total depth of well) will be calculated.

• The static volume will be calculated using the formula:

$$V = Tr^2(0.163)$$

Where:

V = Static volume of well in gallons;

T = Depth of water in the well, measured in feet;

r = Inside radius of well casing in inches; and 0.163 = A constant conversion factor which compensates for r²h factor for the conversion of the casing radius from inches to feet, the conversion of cubic feet to gallons, and (pi).

1 well volume (v) = 15.44 gallons.

Volume of Water in Casing or Hole

Diameter of Casing or Hole (in)	Gallons per Foot of Depth	Cubic Feet per Foot of Depth	Liter per Meter of Depth	Cubic Meters per Meter of Depth
1	0.041	0.0055	0.509	0.509 x10 ⁻³
1 1/2	0.092	0.0123	1.142	1.142 x10 ⁻³
2	0.163	0.0218	2.024	2.024 x10 ⁻³
2 1/2	0.255	0.0341	3.167	3.167 x10 ⁻³
3	0.367	0.0491	4.558	4.558 x10 ⁻³
3 1/2	0.500	0.0668	6.209	6.209 x10 ⁻³
4	0.653	0.0873	8.110	8.110 x10 ⁻³
4 1/2	0.826	0.1104	10.260	10.260 x10 ⁻³
5	1.020	0.1364	12.670	12.670 x10 ⁻³
5 1/2	1.234	0.1650	15.330	15.330 x10 ⁻³
6	1.469	0.1963	18.240	18.240 x10 ⁻³
7	2.000	0.2673	24.840	24.840 x10 ⁻³
8	2.611	0.3491	32.430	32.430 x10 ⁻³
9	3.305	0.4418	41.040	41.040 x10 ⁻³
10	4.080	0.5454	50.670	50.670 x10 ⁻³
11	4.937	0.6600	61.310	61.310 x10 ⁻³
12	5.875	0.7854	72.960	72.960 x10 ⁻³
14	8.000	1.0690	99.350	99.350 x10 ⁻³
16	10.440	1.3930	129.650	129.650 x10 ⁻³
18	13.220	1.7670	164.180	164.180 x10 ⁻³
20	16.320	2.1820	202.680	202.680 x10 ⁻³
22	19.750	2.6400	245.280	245.280 x10 ⁻³
24	23.500	3.1420	291.850	291.850 x10 ⁻³
26	27.580	3.6870	342.520	342.520 x10 ⁻³
28	32.000	4.2760	397.410	397.410 x10 ⁻³
30	36.720	4.9090	456.020	456.020 x10 ⁻³
32	41.780	5.5850	518.870	518.870 x10 ⁻³
34	47.160	6.3050	585.680	585.680 x10 ⁻³
36	52.880	7.0690	656.720	656.720 x10 ⁻³

1 Gallon = 3.785 liters

1 Meter = 3.281 feet

1 Gallon water weighs 8.33 lbs. = 3.779 kilograms

1 Liter water weighs 1 kilogram = 2.205 pounds

1 Gallon per foot of depth = 12.419 liters per foot of depth

1 Gallon per meter of depth = 12.419 x 10⁻³ cubic meters per meter of depth

INITIAL DEVELOPMENT WATER

WATER LEVEL (TOIC) 24.4'

WELL DEPTH (TD) 32.9'

COLOR DK. Brown

ODOR None

CLARITY No Clarity (+1000 turbid)

FINAL DEVELOPMENT WATER

WATER LEVEL (TOIC) 24.9'

WELL DEPTH (TD) 32.9'

COLOR clear

ODOR none

CLARITY clear

DESCRIPTION OF DEVELOPMENT TECHNIQUE

Initial bulking of 15 gallons with surge block then pump water at 1/2 liter/minute until <50 NTUs is reached, checking turbid, pH, conduct, Temp and % gas/dissolve at 15 min intervals for 1 1/2 hours & once in hour then after and until

total volume is reached.

WELL DEVELOPMENT - PARAMETER MEASUREMENTS

[illegible]

DEVELOPED BY: Sgt. Hennick

DATE 4/14/2000

WELL DEVELOPMENT RECORD

SITE SSI amendment

DATE 4/14/2000

LOCATION OTH-5485-2

WELL NO. 5503

MEASUREMENT OF WATER LEVEL AND WELL VOLUME

•Prior to sampling, the static water level and total depth of the well will be measured with a calibrated weighted line. Care will be taken to decontaminate equipment between each use to avoid cross contamination of wells.

•The number of linear feet of static water (difference between static water level and total depth of well) will be calculated.

•The static volume will be calculated using the formula:

$$V = Tr^2(0.163)$$

Where:

V = Static volume of well in gallons;

T = Depth of water in the well, measured in feet;

r = Inside radius of well casing in inches;

and 0.163 = A constant conversion factor which compensates for r²h factor for the conversion of the casing radius from inches to feet, the conversion of cubic feet to gallons, and (pi).

1 well volume (v) = 215 gallons.

Volume of Water in Casing or Hole

Diameter of Casing or Hole (in)	Gallons per Foot of Depth	Cubic Feet per Foot of Depth	Liter per Meter of Depth	Cubic Meters per Meter of Depth
1	0.041	0.0055	0.509	0.509 x 10 ⁻³
1 1/2	0.092	0.0123	1.142	1.142 x 10 ⁻³
2	0.163	0.0218	2.024	2.024 x 10 ⁻³
2 1/2	0.255	0.0341	3.167	3.167 x 10 ⁻³
3	0.367	0.0491	4.558	4.558 x 10 ⁻³
3 1/2	0.500	0.0668	6.209	6.209 x 10 ⁻³
4	0.653	0.0873	8.110	8.110 x 10 ⁻³
4 1/2	0.826	0.1104	10.260	10.260 x 10 ⁻³
5	1.020	0.1364	12.670	12.670 x 10 ⁻³
5 1/2	1.234	0.1650	15.330	15.330 x 10 ⁻³
6	1.469	0.1963	18.240	18.240 x 10 ⁻³
7	2.000	0.2673	24.840	24.840 x 10 ⁻³
8	2.611	0.3491	32.430	32.430 x 10 ⁻³
9	3.305	0.4418	41.040	41.040 x 10 ⁻³
10	4.080	0.5454	50.670	50.670 x 10 ⁻³
11	4.937	0.6600	61.310	61.310 x 10 ⁻³
12	5.875	0.7854	72.960	72.960 x 10 ⁻³
14	8.000	1.0690	99.350	99.350 x 10 ⁻³
16	10.440	1.3960	129.650	129.650 x 10 ⁻³
18	13.220	1.7670	164.180	164.180 x 10 ⁻³
20	16.320	2.1820	202.680	202.680 x 10 ⁻³
22	19.750	2.6400	245.280	245.280 x 10 ⁻³
24	23.500	3.1420	291.850	291.850 x 10 ⁻³
26	27.580	3.6870	342.520	342.520 x 10 ⁻³
28	32.000	4.2760	397.410	397.410 x 10 ⁻³
30	36.720	4.9090	456.020	456.020 x 10 ⁻³
32	41.780	5.5850	518.870	518.870 x 10 ⁻³
34	47.160	6.3050	585.680	585.680 x 10 ⁻³
36	52.880	7.0690	656.720	656.720 x 10 ⁻³

1 Gallon = 3.785 liters

1 Meter = 3.281 feet

1 Gallon water weighs 8.33 lbs. = 3.779 kilograms

1 Liter water weighs 1 kilogram = 2.205 pounds

1 Gallon per foot of depth = 12.419 liters per foot of depth

1 Gallon per meter of depth = 12.419 x 10⁻³ cubic meters per meter of depth

INITIAL DEVELOPMENT WATER

WATER LEVEL (TOIC) 22.02'

WELL DEPTH (TD) 30.66'

COLOR DK. Grey

ODOR None

CLARITY None - > 1000 Turbidity

FINAL DEVELOPMENT WATER

WATER LEVEL (TOIC) 22.8'

WELL DEPTH (TD) 30.66'

COLOR Clear

ODOR None

CLARITY Clear

DESCRIPTION OF DEVELOPMENT TECHNIQUE

initial bailing with surge block, then pump well until <50 NTUs is reached checking pH, Turbid Conduct, Temp, % particulate at 1/2 hour intervals for 1st two hours and once on hour thereafter and until total volume is reached.

WELL DEVELOPMENT - PARAMETER MEASUREMENTS

[illegible]

DEVELOPED BY:

Sauzon	Hennick
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DATE 4/17/202

WELL DEVELOPMENT RECORD

SITE 951 DATE 4/12/2000
 LOCATION AOI 7 WELL NO. 6007-^{not}MMW001

MEASUREMENT OF WATER LEVEL AND WELL VOLUME

- Prior to sampling, the static water level and total depth of the well will be measured with a calibrated weighted line. Care will be taken to decontaminate equipment between each use to avoid cross contamination of wells.
- The number of linear feet of static water (difference between static water level and total depth of well) will be calculated.
- The static volume will be calculated using the formula:

$$V = T r^2 (0.163)$$

Where:

V = Static volume of well in gallons;

T = Depth of water in the well, measured in feet;

r = Inside radius of well casing in inches;

and 0.163 = A constant conversion factor which compensates for π factor for the conversion of the casing radius from inches to feet, the conversion of cubic feet to gallons, and (pi).

1 well volume (v) = 1039 gallons.

Volume of Water in Casing or Hole

Diameter of Casing or Hole (in)	Gallons per Foot of Depth	Cubic Feet per Foot of Depth	Liter per Meter of Depth	Cubic Meters per Meter of Depth
1	0.041	0.0055	0.509	0.509 x10 ⁻³
1 1/2	0.092	0.0123	1.142	1.142 x10 ⁻³
2	0.163	0.0218	2.024	2.024 x10 ⁻³
2 1/2	0.255	0.0341	3.167	3.167 x10 ⁻³
3	0.367	0.0491	4.558	4.558 x10 ⁻³
3 1/2	0.500	0.0668	6.209	6.209 x10 ⁻³
4	0.653	0.0873	8.110	8.110 x10 ⁻³
4 1/2	0.826	0.1104	10.260	10.260 x10 ⁻³
5	1.020	0.1364	12.670	12.670 x10 ⁻³
5 1/2	1.234	0.1650	15.330	15.330 x10 ⁻³
6	1.469	0.1963	18.240	18.240 x10 ⁻³
7	2.000	0.2673	24.840	24.840 x10 ⁻³
8	2.611	0.3491	32.430	32.430 x10 ⁻³
9	3.305	0.4418	41.040	41.040 x10 ⁻³
10	4.080	0.5454	50.670	50.670 x10 ⁻³
11	4.937	0.6600	61.310	61.310 x10 ⁻³
12	5.875	0.7854	72.960	72.960 x10 ⁻³
14	8.000	1.0690	99.350	99.350 x10 ⁻³
16	10.440	1.3960	129.650	129.650 x10 ⁻³
18	13.220	1.7670	164.180	164.180 x10 ⁻³
20	16.320	2.1820	202.680	202.680 x10 ⁻³
22	19.750	2.6400	245.280	245.280 x10 ⁻³
24	23.500	3.1420	291.850	291.850 x10 ⁻³
26	27.580	3.6870	342.520	342.520 x10 ⁻³
28	32.000	4.2760	397.410	397.410 x10 ⁻³
30	36.720	4.9090	456.020	456.020 x10 ⁻³
32	41.780	5.5850	518.870	518.870 x10 ⁻³
34	47.160	6.3050	585.680	585.680 x10 ⁻³
36	52.880	7.0690	656.720	656.720 x10 ⁻³

1 Gallon = 3.785 liters

1 Meter = 3.281 feet

1 Gallon water weighs 8.33 lbs. = 3.779 kilograms

1 Liter water weighs 1 kilogram = 2.205 pounds

1 Gallon per foot of depth = 12.419 liters per foot of depth

1 Gallon per meter of depth = 12.419 x 10⁻³ cubic meters per meter of depth

INITIAL DEVELOPMENT WATER

WATER LEVEL (TOIC) 13.36'
 WELL DEPTH (TD) 21.74'
 COLOR Medium Brown, heavy S.H.
 ODOR None
 CLARITY No clarity, very dirty (silty) water

FINAL DEVELOPMENT WATER

WATER LEVEL (TOIC) 13.7'
 WELL DEPTH (TD) 21.74'
 COLOR Almost clear
 ODOR None
 CLARITY Very clear, little to no S.H.

DESCRIPTION OF DEVELOPMENT TECHNIQUE

Initial purge of 5 gal, install pump and set for flow rate of 1/2 ft./minute, pump from well until a reading of 50 NTUs is reached
take readings for depth, Conductivity, Temperature, Turbidity, color, odor, % particulate at 1/2 hour
intervals for first 2 hours, and once an hour, thereafter.

WELL DEVELOPMENT - PARAMETER MEASUREMENTS

[illegible]

DEVELOPED BY:

Sa'sore	Hennick
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DATE _____

4/12/2000

WELL DEVELOPMENT RECORD

SITE ES1-Add

DATE 4/13/2000

LOCATION A01-007

WELL NO. 6W007-MW02

MEASUREMENT OF WATER LEVEL AND WELL VOLUME

• Prior to sampling, the static water level and total depth of the well will be measured with a calibrated weighted line. Care will be taken to decontaminate equipment between each use to avoid cross contamination of wells.

• The number of linear feet of static water (difference between static water level and total depth of well) will be calculated.

• The static volume will be calculated using the formula:

$$V = T r^2 (0.163)$$

Where:

V = Static volume of well in gallons;

T = Depth of water in the well, measured in feet;

r = Inside radius of well casing in inches;

and 0.163 = A constant conversion factor which compensates for r^2 factor for the conversion of the casing radius from inches to feet, the conversion of cubic feet to gallons, and (π).

1 well volume (v) = 9.59 15.27 gallons.

Volume of Water in Casing or Hole

Diameter of Casing or Hole (in)	Gallons per Foot of Depth	Cubic Feet per Foot of Depth	Liter per Meter of Depth	Cubic Meters per Meter of Depth
1	0.041	0.0055	0.509	0.509 x 10 ⁻³
1 1/2	0.092	0.0123	1.142	1.142 x 10 ⁻³
2	0.163	0.0218	2.024	2.024 x 10 ⁻³
2 1/2	0.255	0.0341	3.167	3.167 x 10 ⁻³
3	0.367	0.0491	4.558	4.558 x 10 ⁻³
3 1/2	0.500	0.0668	6.209	6.209 x 10 ⁻³
4	0.653	0.0873	8.110	8.110 x 10 ⁻³
4 1/2	0.826	0.1104	10.260	10.260 x 10 ⁻³
5	1.020	0.1364	12.670	12.670 x 10 ⁻³
5 1/2	1.234	0.1650	15.330	15.330 x 10 ⁻³
6	1.469	0.1963	18.240	18.240 x 10 ⁻³
7	2.000	0.2673	24.840	24.840 x 10 ⁻³
8	2.611	0.3491	32.430	32.430 x 10 ⁻³
9	3.305	0.4418	41.040	41.040 x 10 ⁻³
10	4.080	0.5454	50.670	50.670 x 10 ⁻³
11	4.937	0.6600	61.310	61.310 x 10 ⁻³
12	5.875	0.7854	72.960	72.960 x 10 ⁻³
14	8.000	1.0690	99.350	99.350 x 10 ⁻³
16	10.440	1.3960	129.650	129.650 x 10 ⁻³
18	13.220	1.7670	164.180	164.180 x 10 ⁻³
20	16.320	2.1820	202.680	202.680 x 10 ⁻³
22	19.750	2.6400	245.280	245.280 x 10 ⁻³
24	23.500	3.1420	291.850	291.850 x 10 ⁻³
26	27.580	3.6870	342.520	342.520 x 10 ⁻³
28	32.000	4.2760	397.410	397.410 x 10 ⁻³
30	36.720	4.9090	456.020	456.020 x 10 ⁻³
32	41.780	5.5850	518.870	518.870 x 10 ⁻³
34	47.160	6.3050	585.680	585.680 x 10 ⁻³
36	52.880	7.0690	656.720	656.720 x 10 ⁻³

1 Gallon = 3.785 liters

1 Meter = 3.281 feet

1 Gallon water weighs 8.33 lbs. = 3.779 kilograms

1 Liter water weighs 1 kilogram = 2.205 pounds

1 Gallon per foot of depth = 12.419 liters per foot of depth

1 Gallon per meter of depth = 12.419 x 10⁻³ cubic meters per meter of depth

INITIAL DEVELOPMENT WATER

WATER LEVEL (TOIC) 12.0'

WELL DEPTH (TD) 19.74'

COLOR Medium Brown

ODOR None

CLARITY Turbid 1/2 + 1000

FINAL DEVELOPMENT WATER

WATER LEVEL (TOIC) 12.8'

WELL DEPTH (TD) 19.74'

COLOR Clear (mostly)

ODOR None

CLARITY Very clear, little turbidity

DESCRIPTION OF DEVELOPMENT TECHNIQUE

initially drill 5 gallons take readings of 1st bucket, install pump (set flow for 1/2 Lt./minute) pump from well until 50 NTU's or below is reached, take readings for pH, conduct, turbidity, temp, odor, & % particulate at 1/2 hour intervals (at least) for 1st two hours, and once one hour. Then stop.

WELL DEVELOPMENT - PARAMETER MEASUREMENTS

[illegible]

DEVELOPED BY:

Sanders	Hennick
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DATE _____

4/13/25

WELL DEVELOPMENT RECORD

SITE Griffis - ES1

DATE 4-13-2020

LOCATION 001-007

WELL NO. 6007-MW03

MEASUREMENT OF WATER LEVEL AND WELL VOLUME

- Prior to sampling, the static water level and total depth of the well will be measured with a calibrated weighted line. Care will be taken to decontaminate equipment between each use to avoid cross contamination of wells.
- The number of linear feet of static water (difference between static water level and total depth of well) will be calculated.
- The static volume will be calculated using the formula:

$$V = Tr^2(0.163)$$

Where:

V = Static volume of well in gallons;

T = Depth of water in the well, measured in feet;

r = Inside radius of well casing in inches;

and 0.163 = A constant conversion factor

which compensates for r²h factor for the conversion of the casing radius from inches to feet, the conversion of cubic feet to gallons, and (pi).

1 well volume (v) = 10.30 gallons.

Volume of Water in Casing or Hole

Diameter of Casing or Hole (in)	Gallons per Foot of Depth	Cubic Feet per Foot of Depth	Liter per Meter of Depth	Cubic Meters per Meter of Depth
1	0.041	0.0055	0.509	0.509 x10 ⁻³
1 1/2	0.092	0.0123	1.142	1.142 x10 ⁻³
2	0.163	0.0218	2.024	2.024 x10 ⁻³
2 1/2	0.255	0.0341	3.167	3.167 x10 ⁻³
3	0.367	0.0491	4.558	4.558 x10 ⁻³
3 1/2	0.500	0.0668	6.209	6.209 x10 ⁻³
4	0.653	0.0873	8.110	8.110 x10 ⁻³
4 1/2	0.826	0.1104	10.260	10.260 x10 ⁻³
5	1.020	0.1364	12.670	12.670 x10 ⁻³
5 1/2	1.234	0.1650	15.330	15.330 x10 ⁻³
6	1.469	0.1963	18.240	18.240 x10 ⁻³
7	2.000	0.2673	24.840	24.840 x10 ⁻³
8	2.611	0.3491	32.430	32.430 x10 ⁻³
9	3.305	0.4418	41.040	41.040 x10 ⁻³
10	4.080	0.5454	50.670	50.670 x10 ⁻³
11	4.937	0.6600	61.310	61.310 x10 ⁻³
12	5.875	0.7854	72.960	72.960 x10 ⁻³
14	8.000	1.0690	99.350	99.350 x10 ⁻³
16	10.440	1.3960	129.650	129.650 x10 ⁻³
18	13.220	1.7670	164.180	164.180 x10 ⁻³
20	16.320	2.1820	202.680	202.680 x10 ⁻³
22	19.750	2.6400	245.280	245.280 x10 ⁻³
24	23.500	3.1420	291.850	291.850 x10 ⁻³
26	27.580	3.6870	342.520	342.520 x10 ⁻³
28	32.000	4.2760	397.410	397.410 x10 ⁻³
30	36.720	4.9090	456.020	456.020 x10 ⁻³
32	41.780	5.5850	518.870	518.870 x10 ⁻³
34	47.160	6.3050	585.680	585.680 x10 ⁻³
36	52.880	7.0690	656.720	656.720 x10 ⁻³

1 Gallon = 3.785 liters

1 Meter = 3.281 feet

1 Gallon water weighs 8.33 lbs. = 3.779 kilograms

1 Liter water weighs 1 kilogram = 2.205 pounds

1 Gallon per foot of depth = 12.419 liters per foot of depth

1 Gallon per meter of depth = 12.419 x 10⁻³ cubic meters per meter of depth

INITIAL DEVELOPMENT WATER

WATER LEVEL (TOIC) 9.0'

WELL DEPTH (TD) 17.28'

COLOR DK. Brown

ODOR None

CLARITY None

FINAL DEVELOPMENT WATER

WATER LEVEL (TOIC) 9.8'

WELL DEPTH (TD) 17.28'

COLOR Very Clear

ODOR None

CLARITY Clear

DESCRIPTION OF DEVELOPMENT TECHNIQUE

Initially bail 10 gallons to the readings depth, etc... install pump and set flow at 1/2 liter/min. read for pH, Conduct, temp, turbidity, odor, % particulate at 1/2 hour intervals for 1st 2 hours and once an hour after that until less than 50 NTU is reached.

WELL DEVELOPMENT - PARAMETER MEASUREMENTS

[illegible]

DEVELOPED BY: Smyke Hennick DATE 4/13/2008

WELL DEVELOPMENT RECORD (Cont.)

XXXXXXXXXX

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Groundwater Sampling Logs

XXXXXXXXXX

Groundwater Sample Log

Project: OTK 5185-1
 Site: Former Griffiss Air Force Base
 Well No.: 5502-6A
 Sample Date: 5/1/2006
 Sampling Device: QED T1200 bladder pump
 Alkalinity (mg/L as CaCO₃): NA
 Ferrous Iron (mg/L): NA
 Initial Water Level (Feet TOIC): 32.51
 Final Water Level (feet TOIC): 32.59
 Casing Type: PVC 2"

Sample ID: OTK 5185-6604-6A
 Sample Time: 1630
 Sample Tubing: QED teflon-lined polyethylene
 Phenolphthalein Alkalinity (mg/L): NA
 Sample Turbidity (NTUs): 13.1
 Well Depth (feet TOIC): 41.4
 Screen Interval (feet BGS): 21'-39' 0.65
 Casing Inner Diameter (inches): 2"
 Initial OVA Reading (ppm): 0 ppm

Time	pH	Temperature (°C)	Conductivity (µs/cm)	Turbidity (NTUs)	DO (mg/L)	ORP (mV)	Water Level (ft TOIC)	Comments
0945	7.77	9.04	44.0	69.1	127.1	180.2	32.51	Pump failure, for crossed out
0950	7.41	8.80	51.0	64.4	148.7	180.9	32.51	readings, begin on line #7
0955	7.15	8.44	53.0	68.0	135.0	177.6	32.51	QED switch from
1000	6.91	8.60	52.0	69.2	147.2	188.4	32.51	standing depth to DO
0950	8.21	9.36	88.0	53.4	4.96	183.5	32.5	⑤ Pumped 1 note 6
0955	8.31	9.43	88.0	17.5	5.65	184.6	32.45	
0950	8.36	9.51	88.0	52.9	5.27	184.9	32.5	
0955	8.36	9.49	88.0	70.3	5.40	200.1	32.7	
0940	8.34	9.53	88.0	82.9	5.30	218.2	32.63	
0945	8.35	9.57	88.0	45.5	5.34	217.2	32.5	
0950	8.34	9.61	87.0	31.5	5.39	214.8	32.51	
0955	8.33	9.69	87.0	24.9	5.37	211.8	32.51	
1000	8.32	10.25	87.0	20.1	4.52	208.3	32.6	
1005	8.33	10.29	87.0	17.9	4.49	204.5	32.5	
1010	8.31	10.87	87.0	15.0	4.63	202.1	32.5	
1015	8.32	10.85	87.0	14.8	4.61	202.0	32.48	
1020	8.28	10.66	87.0	13.9	4.74	203.0	32.5	

Key: BGS = Below ground surface.
 °C = Degrees centigrade.
 CaCO₃ = Calcium carbonate.
 DO = Dissolved oxygen.
 mg/L = Milligrams per liter
 mV = Millivolts.
 NTU = Nephelometric turbidity unit.
 ORP = Redox potential.
 ppm = Parts per million.
 PVC = Polyvinyl chloride.
 TOIC = Top of inner (PVC) casing.

Well No.: 4405

Date: 5/4/2000

[illegible]

BGS = Below ground surface.
°C = Degrees centigrade.
CaCO₃ = Calcium carbonate.
DO = Dissolved oxygen.

mg/L = Milligrams per liter
mV = Millivolts.
NTU = Nephelometric turbidity
ORP = Redox potential.

ppm = Parts per million.
PVC = Polyvinyl chloride.
TOIC = Top of inner (PVC) casing.

Groundwater Sample Log

Project: OTH 5485-1

Site: Former Griffiss Air Force Base

Well No.: 5402

Sample Date: 5/2/2000

Sampling Device: QED T1200 bladder pump

Alkalinity (mg/L as CaCO₃): NA

Ferrous Iron (mg/L): NA

Initial Water Level (Feet TOIC): 24.25'

Final Water Level (feet TOIC): 24.15'

Casing Type: PVC

Sample ID: 607-0th 5485-1-5502

Sample Time: 1505

Sample Tubing: QED teflon-lined polyethylene

Phenolphthalein Alkalinity (mg/L): 0

Sample Turbidity (NTUs): 17.1

Well Depth (feet TOIC): 32.9'

Screen Interval (feet BGS): 20.6 to 30.6

Casing Inner Diameter (inches): 2"

Initial OVA Reading (ppm): 0

Time	pH	Temperature (°C)	Conductivity (µs/cm)	Turbidity (NTUs)	DO (mg/L)	ORP (mV)	Water Level (ft TOIC)	Comments
1245	7.77	9.04	48.0	69.1	62.1	180.8	24.25'	⊗ at 1300 switched from DO% to DO.
1250	7.81	8.80	51.0	64.4	148.7	180.7	24.25'	
1255	7.15	8.98	53.0	68.0	135.0	172.6	24.26'	
1300	6.91	8.60	52.0	69.2	147.2	188.4	24.25'	
1305	6.74	8.79	51.0	71.0	15.3	192.6	24.31'	⊗ pumped at rate of 1/2 L/min
1310	6.25	9.28	41.0	181	17.97	186.4	24.11'	
1315	6.19	9.32	43.0	154	17.43	188.8	24.11'	
1320	6.12	9.38	44.0	128	16.97	192.1	24.11'	⊗ Temp slot down at 1305
1325	5.99	9.55	47.0	77.3	16.04	196.1	24.11'	
1330	5.94	9.45	48.0	53.5	15.46	197.9	24.11'	
1335	5.90	9.57	49.0	274	14.93	192.6	24.11'	Total vol pumped: 17.5 gal
1340	5.87	9.64	49.0	23.5	14.87	190.9	24.15'	
1345	5.87	9.79	50.0	18.4	14.61	183.8	24.15'	
1350	5.86	9.65	50.0	15.4	14.63	177.8	24.15'	⊗ Sampled at rate of 100-250 ml/min.
1355	5.86	9.53	50.0	18.5	14.83	170.1	24.15'	
1358	5.86	9.50	50.0	12.2	14.74	163.9	24.15'	
1358	5.85	9.60	51.0	12.1	14.32	161.8	24.15'	

Key:

BGS = Below ground surface.

°C = Degrees centigrade.

CaCO₃ = Calcium carbonate.

DO = Dissolved oxygen.

mg/L = Milligrams per liter

mV = Millivolts.

NTU = Nephelometric turbidity unit.

ORP = Redox potential.

ppm = Parts per million.

PVC = Polyvinyl chloride.

TOIC = Top of inner (PVC) casing.

Groundwater Sample Log

Project: 01H 5485-2
 Site: Former Griffiss Air Force Base

Well No.: 4603
 Sample Date: 5/3/2000
 Sampling Device: OED T1200 bladder pump
 Alkalinity (mg/L as CaCO₃): NA
 Ferrous Iron (mg/L): NA
 Initial Water Level (Feet TOIC): 22.5'
 Final Water Level (feet TOIC): 22.51'
 Casing Type: PVC

Sample ID: 01H 5485-2-5503
 Sample Time: 1020
 Sample Tubing: OED teflon-lined polyethylene
 Phenolphthalein Alkalinity (mg/L): NA
 Sample Turbidity (NTUs): 10.8
 Well Depth (feet TOIC): 30.06'
 Screen Interval (feet BGS): 18'-23'
 Casing Inner Diameter (inches): 2"
 Initial OVA Reading (ppm): 0 ppm

Time	pH	Temperature (°C)	Conductivity (µs/cm)	Turbidity (NTUs)	DO (mg/L)	ORP (mV)	Water Level (ft TOIC)	Comments
0905	7.56	8.23	37.0	86.8	7.62	213.3	22.51'	Well pumped at 1/2 G/MIN.
0910	7.29	8.38	37.0	88.3	8.61	214.9	22.51'	
0915	7.17	8.42	37.0	76.0	8.43	216.7	22.51'	
0920	7.03	8.55	37.0	59.7	8.37	220.1	22.51'	
0925	6.97	8.54	37.0	52.0	8.35	222.0	22.51'	15.75 gallons pumped
0930	6.98	8.56	37.0	40.4	8.37	224.5	22.45'	
0935	6.83	8.53	37.0	30.9	8.29	226.1	22.8'	
0940	6.77	8.62	37.0	27.3	8.18	229.8	22.51'	
0945	6.72	8.65	37.0	22.1	8.05	233.0	22.51'	Sampled at rate of 100-200 ml/min
0950	6.70	8.73	37.0	20.4	7.99	234.8	22.51'	
0955	6.70	8.77	37.0	18.2	7.76	236.3	22.52'	
1000	6.69	8.78	37.0	12.6	7.91	237.1	22.51'	
1005	6.68	8.72	37.0	12.5	7.90	238.4	22.51'	
1010	6.59	8.66	37.0	11.8	7.33	236.8	22.51'	
1015	6.56	8.79	37.0	11.1	7.37	239.1	22.51'	
1020	6.58	8.83	37.0	10.8	7.33	241.0	22.51'	

Key:

BGS = Below ground surface.	mg/L = Milligrams per liter	ppm = Parts per million.
°C = Degrees centigrade.	mV = Millivolts.	PVC = Polyvinyl chloride.
CaCO ₃ = Calcium carbonate.	NTU = Nephelometric turbidity unit.	TOIC = Top of inner (PVC) casing.
DO = Dissolved oxygen.	ORP = Redox potential.	

Groundwater Sample Log

Project: Form 6007-MU01

Site: Former Griffiss Air Force Base

Well No.: MW01

Sample Date: 5-1-2000

Sampling Device: OED T1200 bladder pump

Alkalinity (mg/L as CaCO₃): NA

Ferrous Iron (mg/L): NA

Initial Water Level (feet TOIC): 12.34'

Final Water Level (feet TOIC): 12.3'

Casing Type: PVC

Sample ID: 6007-MU01

Sample Time: 1440

Sample Tubing: OED teflon-lined polyethylene

Phenolphthalein Alkalinity (mg/L): NA

Sample Turbidity (NTUs): 4.9 NTUs

Well Depth (feet TOIC): 21.6'

Screen Interval (feet BGS): 10.5'-20.5'

Casing Inner Diameter (inches): 2"

Initial OVA Reading (ppm): 0

Time	pH	Temperature (°C)	Conductivity (µs/cm)	Turbidity (NTUs)	DO (mg/L)	ORP (mV)	Water Level (ft TOIC)	Comments
1300	6.36	8.97	134.0	71000	192.8	258.7	12.34'	
1305	6.37	8.99	134.0	455	192.9	259.3	12.34'	
1310	6.32	9.04	135.2	105	193.3	264.1	12.33'	
1315	6.5	9.28	136.6	83.4	195.6	268.3	12.32'	
1320	6.41	9.42	136.8	48.1	195.2	271.2	12.32'	
1325	6.3	9.6	137.2	22	195.1	279.3	12.3'	
1330	6.30	9.64	138.0	15.8	195.1	284.8	12.3'	
1335	6.28	9.46	138.0	7.2	199.3	290.1	12.3'	
1340	6.28	9.38	135.0	18.0	199.7	294.0	12.31'	
1345	6.27	8.96	132.0	22.2	200.8	296.2	12.31'	
1350	6.19	8.87	135.0	17.5	200.2	300.3	12.33'	
1355	6.25	8.88	137.0	14.8	199.4	300.1	12.33'	
1400	6.27	8.85	137.0	13.9	201.5	301.8	12.35'	
1405	6.29	9.05	136.0	11.1	203.1	301.8	12.35'	
1410	6.27	9.12	137.0	7.6	203.6	304.4	12.34'	
1415	6.25	8.94	136.0	4.8	204.9	308.4	12.34'	
1420	6.23	8.89	136.0	5.1	204.6	310.5	12.34'	
1440	6.22	8.95	137.0	4.9	200.0	312.8	12.3'	

Key:

BGS = Below ground surface.	mg/L = Milligrams per liter	ppm = Parts per million.
°C = Degrees centigrade.	mV = Millivolts.	PVC = Polyvinyl chloride.
CaCO ₃ = Calcium carbonate.	NTU = Nephelometric turbidity unit.	TOIC = Top of inner (PVC) casing.
DO = Dissolved oxygen.	ORP = Redox potential.	

Groundwater Sample Log

Project: Folsom 6th St APB-SS1 (A01-7)

Site: Former Griffiss Air Force Base

Well No.: MJ02

Sample Date: 5/1/2000

Sampling Device: QED T1200 bladder pump

Alkalinity (mg/L as CaCO₃): NA

Ferrous Iron (mg/L): NA

Initial Water Level (Feet TOIC): 11.4'

Final Water Level (feet TOIC): 11.45'

Casing Type: PVC

Sample ID: 6007-MW02

Sample Time: 1635

Sample Tubing: QED teflon-lined polyethylene

Phenolphthalein Alkalinity (mg/L): NA

Sample Turbidity (NTUs): 10.8

Well Depth (feet TOIC): 20.2'

Screen Interval (feet BGS): 9'-19'

Casing Inner Diameter (inches): 2"

Initial OVA Reading (ppm): 0

Time	pH	Temperature (°C)	Conductivity (µs/cm)	Turbidity (NTUs)	DO (mg/L)	ORP (mV)	Water Level (ft TOIC)	Comments
1500	6.15	7.68	91.0	71000	183.3	225.6	11.4'	
1505	6.13	7.72	91.0	71000	183.1	225.0	11.4'	
1510	6.13	7.81	92.0	71000	180.2	224.1	11.5'	
1515	6.12	7.86	91.0	71000	177.9	223.2	11.5'	
1520	6.11	7.85	91.0	71000	178.5	223.8	11.6'	
1525	6.13	7.9	91.0	71000	179.9	224.7	11.6'	
1530	6.02	7.9	92.0	320	180.5	228.7	11.6'	
1535	6.02	7.9	92.0	228	180.4	240.7	11.57'	
1540	5.94	7.9	93.0	132	182.0	252.3	11.6'	
1545	5.87	7.88	93.0	103	182.4	263.0	11.6'	
1550	5.88	7.72	94.0	105	180.5	268.0	11.6'	
1555	5.86	7.72	93.0	87.5	181.7	274.0	11.65'	
1600	5.85	6.55 7.92	92.0	71.4	181.6	279.4	11.65'	
1605	5.82	6.55 7.91	92.0	49.0	181.6	284.5	11.45'	
1610	5.82	6.55 7.91	92.0	30.0	182.8	290.3	11.6'	
1615	5.81	6.55 7.92	91.0	22.7	183.0	293.4	11.66'	
1620	5.81	6.55 7.91	92.0	16.4	183.1	296.3	11.6'	
1625	5.91	6.55 7.91	91.0	11.9	183.1	300.6	11.66'	
1630	5.95	6.55 7.91	91.0	10.8	183.1	299.8	11.65'	

Key:

BGS = Below ground surface.

°C = Degrees centigrade.

CaCO₃ = Calcium carbonate.

DO = Dissolved oxygen.

mg/L = Milligrams per liter

mV = Millivolts.

NTU = Nephelometric turbidity unit.

ORP = Redox potential.

ppm

= Parts per million.

PVC = Polyvinyl chloride.

TOIC = Top of inner (PVC) casing.

Groundwater Sample Log

Well No.: MW02

Date: 5/1/2000

Time	pH	Temperature (°C)	Conductivity (µs/cm)	Turbidity (NTUs)	DO (mg/L)	ORP (mV)	Water Level (ft TOIC)	Comments
1635	5.97	7.91	91.0	10.8	183.3	299.6	11.45'	
No sample due to high DO + DO%								
1510	7.05	8.59	96.0	85.9	n.m.	234.0	11.65	pumped at rate of 1/2 LT./min.
1515	7.0	8.69	96.00	65.0	17.23	235.9	11.43	
1520	6.9	8.68	97.0	59.1	17.28	241.5	11.4	
1525	6.85	8.71	97.0	8.5	17.12	244.7	11.4	TX. pumpers = 14.5 gal
1530	6.82	8.60	97.0	21.3	17.22	247.3	11.4	
1535	6.79	8.67	97.0	15.2	17.17	249.9	11.4	
1540	6.79	8.56	97.0	11.2	17.27	251.1	11.4	DO% range from 146-148%
1545	6.79	8.52	9.6	8.88	17.14	252.7	11.4	
1550	6.79	8.58	9.6	6.70	17.3	253.8	11.4	
1555	6.79	8.58	9.6	6.6	17.33	253.9	11.4	Well sampled at rate of 25-75 ml/min.
1600	6.79	8.58	9.6	6.6	17.31	254.2	11.45	
1605	6.79	8.57	9.6	6.25	17.31	254.2	11.45	
1610	6.78	8.58	9.6	5.9	17.33	254.8	11.5'	

Key:

BGS = Below ground surface.
 °C = Degrees centigrade.
 CaCO₃ = Calcium carbonate.
 DO = Dissolved oxygen.

mg/L = Milligrams per liter
 mV = Millivolts.
 NTU = Nephelometric turbidity unit.
 ORP = Redox potential.

ppm = Parts per million.
 PVC = Polyvinyl chloride.
 TOIC = Top of inner (PVC) casing.

Groundwater Sample Log

Project: Foster Family - 153-944-4476 - H01-1

Site: Former Griffiss Air Force Base

Well No: M1203

Sample Date: 5/2/2020

Sampling Device: QED T1200 bladder pump

Alkalinity (mg/L as CaCO_3):	NA
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Ferrous Iron (mg/l).

Initial Water Level (Feet TOIC): 8.6'

Final Water Level (feet TOIC): 151

Casing Type: PVC

Sample ID: 6607-MW.7

Sample Time: 1615

Sample Tubing: QED teflon-lined polyethylene

Phenolphthalein Alkalinity (mg/L): *N/A*

Sample Turbidity (NTUs): 2.84

Well Depth (feet TOIC): 17.5'

Screen Interval (feet BGS): 6'-16"

Casing Inner Diameter (inches):

Initial OVA Reading (ppm): 0.00

[illegible]

Key:

BGS = Below ground surface.

°C = Degrees centigrade.

CaCO_3 = Calcium carbonate.

DO = Dissolved oxygen.

mg/L = Milligrams per liter

mV = Millivolts.

NTU = Nephelometric turbidity unit.

ORP = Redox potential.

ppm = Parts per million.

PVC = Polyvinyl chloride.

TOIC = Top of inner (PVC) casing.

Date: 5/4/2000

ecology and environmental

ppm = Parts per million.
PVC = Polyvinyl chloride.
TOIC = Top of inner (PVC) casing.

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Daily Activity Summaries

Daily Activity Summary	
Date: 3-14-00	Report No.: 2
Project Name: ESI/SI	Weather: Sunny, 35°F

Personnel	Hrs.	Affiliation	Personnel	Hrs.	Affiliation
B. Meyers	12	E & E			
L. Angelaki	11.5	E & E			
J. Mays	11.5	E & E			
C. Sansone	12	E & E			
R. Labocetta	12	E & E			
D. Ikeda	2	E & E			
Al Kimball	10	Maxim			
Aaron Bobar	10	Maxim			

Summary of Activities		
Equipment	Site/Task	Activities Performed
OVA	PCI Site 20, NS soil sampling.	Completed NS soil sampling at PCI Site 20.
OVA	OTH-5485-2, NS soil sampling.	Completed NS soil sampling at PCI Site 20.
OVA	OTH-305, Grab water and Sludge Sampling.	Completed Grab water and Sludge sampling at OTH-305.
OVA	AOC9	Drilled and collected groundwater samples from 3 deep vertical profile Geoprobe locations.
O ₂ /H ₂ S/Explosimeter		
Water Level Indicator		
Draeger pump/VC tubes		
OVA	On-Base GW AOC	Drilled and collected groundwater samples from 10 deep vertical profile Geoprobe locations.
O ₂ /H ₂ S/Explosimeter		
Water Level Indicator		
Draeger pump/VC tubes		

Daily Activity Summary	
Date: 3-14-00	Report No.: 2
Project Name: ESI/SI	Weather: Sunny, 35°F

Field Tests Performed (Sample's, Field Screening, Chemical testing, Etc.)
Began analyzing groundwater samples from the 5 Geoprobe locations sampled at AOC 9 on 3-13-00. Analytical results will be available 3-15-00.
Work Delays (Due To Weather, Maintenance, Breakdowns, Waiting For Decisions)
None.
Problems Encountered And Deviations From Work Plan
None.
Written And Verbal Instruction By The Government
None.
Safety Issues
None.
Planned Activities For Next Work Day
Continue vertical profile Geoprobe borings at AOC9 and the On Base GW AOC.
Collect NS soil samples at EOD Range.
Perform Dye trace test at OTH-305 when time permits.
Remarks: (Visitors, Completion Of Field Work At An AOC, Etc.)

Bob Meyers	3-14-00
Site Manager	Date

Daily Activity Summary	
Date: 3-15-00	Report No.: 3
Project Name: ESI/SI	Weather: Overcast, 32°F, light rain early in day, then 50°F

Personnel	Hrs.	Affiliation	Personnel	Hrs.	Affiliation
B. Meyers	12	E & E			
L. Angelaki	12	E & E			
J. Mays	12	E & E			
C. Sansone	11.5	E & E			
R. Labocetta	12	E & E			
D. Ikeda	2	E & E			
Al Kimball	10	Maxim			
Aaron Bobar	10	Maxim			

Summary of Activities		
Equipment	Site/Task	Activities Performed
OVA	EOD NS soil sampling.	Completed NS soil sampling at EOD Range 2.
OVA	AOC9/ On-Base GW AOC	Drilled and collected groundwater samples from 14 vertical profile Geoprobe locations.
O ₂ /H ₂ S/Explosimeter		
Water Level Indicator		
Draeger pump/VC tubes		

Daily Activity Summary	
Date: 3-15-00	Report No.: 3
Project Name: ESI/SI	Weather: Overcast, 32°F, light rain early in day, then 50°F

Field Tests Performed (Sample's, Field Screening, Chemical testing, Etc.)		
Began analyzing groundwater samples from the 5 Geoprobe locations sampled at AOC 9 on 3-13-00. Analytical results will be available 3-15-00.		
Work Delays (Due To Weather, Maintenance, Breakdowns, Waiting For Decisions)		
None.		
Problems Encountered And Deviations From Work Plan		
None.		
Written And Verbal Instruction By The Government		
None.		
Safety Issues		
None.		
Planned Activities For Next Work Day		
Continue vertical profile Geoprobe borings at AOC9 and the On Base GW AOC.		
Collect NS soil samples at EOD Range.		
Perform Dye trace test at OTH-305 when time permits.		
Remarks: (Visitors, Completion Of Field Work At An AOC, Etc.)		

Bob Meyers
Site Manager

3-14-00
Date

Daily Activity Summary	
Date: 3-16-00	Report No.: 4
Project Name: ESI/SI	Weather: Overcast, 41°F, light rain early in day, then 27°F with light snow

Personnel	Hrs.	Affiliation	Personnel	Hrs.	Affiliation
B. Meyers	12	E & E			
L. Angelaki	11.5	E & E			
J. Mays	12	E & E			
C. Sansone	12	E & E			
R. Labocetta	10.5	E & E			
D. Ikeda	2	E & E			
Al Kimball	10	Maxim			
Scott breed	10	Maxim			

Summary of Activities		
Equipment	Site/Task	Activities Performed
OVA	EOD SW/SD soil sampling.	Completed SW/SD sampling at EOD Range 2.
Ph/Temp/Cond. Meter		
Turbidity Meter		
OVA	AOC9/ On-Base GW AOC	Drilled 11 vertical profile Geoprobe locations, and sampled 10 VP Geoprobe locations.
O ₂ /H ₂ S/Explosimeter		
Water Level Indicator		
Draeger pump/VC tubes		

Daily Activity Summary	
Date: 3-16-00	Report No.: 4
Project Name: ESI/SI	Weather: Overcast, 41°F, light rain early in day, then 27°F with light snow

Field Tests Performed (Sample's, Field Screening, Chemical testing, Etc.)
Continued analyzing groundwater samples from the Geoprobe locations sampled at AOC 9 and the On-Base GW AOC . Analytical results will be available for discussion on Monday morning (3-20-00).
Conducted Dye Trace Test at OTH-305.
Work Delays (Due To Weather, Maintenance, Breakdowns, Waiting For Decisions)
None.
Problems Encountered And Deviations From Work Plan
None.
Written And Verbal Instruction By The Government
Discussed preparation of Field Adjustment Form for added sampling at AOI 469. This added sampling was agreed to prior to the start up of the field program.
Safety Issues
None.
Planned Activities For Next Work Day
Continue vertical profile Geoprobe borings at AOC9.
Remarks: (Visitors, Completion Of Field Work At An AOC, Etc.)
Completed all fieldwork at OTH-305.

Bob Meyers
Site Manager

3-16-00
Date

Daily Activity Summary	
Date: 3-17-00	Report No.: 5
Project Name: ESI/SI	Weather: Overcast, 27°F, light snow early in day, then sunny.

Personnel	Hrs.	Affiliation	Personnel	Hrs.	Affiliation
B. Meyers	11.5	E & E			
L. Angelaki	11.5	E & E			
J. Mays	4	E & E			
C. Sansone	Off site	E & E			
R. Labocetta	9	E & E			
D. Ikeda	2	E & E			
Al Kimball	8	Maxim			
Scott breed	8	Maxim			

Summary of Activities		
Equipment	Site/Task	Activities Performed
OVA	AOC9	Drilled 3 shallow and 2 intermediate vertical profile Geoprobe locations.
O ₂ /H ₂ S/Explosimeter		
Water Level Indicator		
Draeger pump/VC tubes		

Daily Activity Summary	
Date: 3-17-00	Report No.: 5
Project Name: ESI/SI	Weather: Overcast, 27°F, light snow early in day, then sunny.

Field Tests Performed (Sample's, Field Screening, Chemical testing, Etc.)
Continued analyzing groundwater samples from the Geoprobe locations sampled at AOC 9 and the On-Base GW AOC .
Work Delays (Due To Weather, Maintenance, Breakdowns, Waiting For Decisions)
None.
Problems Encountered And Deviations From Work Plan
None.
Written And Verbal Instruction By The Government
None.
Safety Issues
None.
Planned Activities For Next Work Day
Complete vertical profile Geoprobe borings at AOC9 and continue GP survey at the On Base GW AOC (non-VP borings).
Begin Test Pit excavations at AOC 9.
Remarks: (Visitors, Completion Of Field Work At An AOC, Etc.)
None.

Bob Meyers	3-17-00
Site Manager	Date

Daily Activity Summary	
Date: 3-20-00	Report No.: 6
Project Name: ESI/SI	Weather: Partly sunny, 40°F.

Personnel	Hrs.	Affiliation	Personnel	Hrs.	Affiliation
B. Meyers	12	E & E			
L. Angelaki	12	E & E			
J. Mays	12	E & E			
C. Sansone	12	E & E			
R. Labocetta	12	E & E			
D. Ikeda	2	E & E			
Al Kimball	10	Maxim			
Scott breed	10	Maxim			
Mike Elster	10	Maxim			

Summary of Activities		
Equipment	Site/Task	Activities Performed
OVA	AOC 9 and ON Base GW AOC	Drilled 2 shallow and 1 intermediate vertical profile Geoprobe locations at AOC 9. Drilled 3 shallow VP Geoprobe locations at the On Base GW AOC.
O ₂ /H ₂ S/Explosimeter		
Water Level Indicator		
Draeger pump/VC tubes		
OVA	AOC 9	Excavated and sampled 2 of 6 Test Pits (looking for possible source of contamination) at AOC 9.
O ₂ /H ₂ S/Explosimeter		
Water Level Indicator		
Draeger pump/VC tubes		

Daily Activity Summary	
Date: 3-20-00	Report No.: 6
Project Name: ESI/SI	Weather: Partly sunny, 40°F.

Field Tests Performed (Sample's, Field Screening, Chemical testing, Etc.)
Continued analyzing groundwater samples from the Geoprobe locations sampled at AOC 9 and the On-Base GW AOC .
Work Delays (Due To Weather, Maintenance, Breakdowns, Waiting For Decisions)
Approximate 2-hour delay due to steam cleaner malfunction. New Steam cleaner arrived on site within 2-hours of the break down.
Problems Encountered And Deviations From Work Plan
None. However, the Geoprobe survey grids at the On Base GW AOC and AOC 9 are being adjusted (with T. Ferraros' and Bob Penders' approval) in order to define the outer limits of the contaminated area.
Written And Verbal Instruction By The Government
Bob Pender verbally approved the installation of 3 shallow GP wells on the western edge, 3 shallow GP wells on the eastern edge, 1 shallow GP well upgradient, and 1 shallow GP well down gradient of the proposed GP survey area.
Safety Issues
None.
Planned Activities For Next Work Day
Begin installing soil borings at AOI 469.
Continue Test Pit excavations at AOC 9.
Remarks: (Visitors, Completion Of Field Work At An AOC, Etc.)
We are currently approximately half a day behind schedule on the Test Pit excavations, and half a day behind schedule on the Geoprobe surveys.

Daily Activity Summary	
Date: 3-20-00	Report No.: 6
Project Name: ESI/SI	Weather: Partly sunny, 40°F.

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Bob Meyers	3-17-00
Site Manager	Date

Daily Activity Summary	
Date: 3-21-00	Report No.: 7
Project Name: ESI/SI	Weather: Partly sunny, 40°F to 50°F, light wind.

Personnel	Hrs.	Affiliation	Personnel	Hrs.	Affiliation
B. Meyers	11	E & E			
L. Angelaki	11	E & E			
J. Mays	11	E & E			
C. Sansone	11.5	E & E			
R. Labocetta	11.5	E & E			
D. Ikeda	2	E & E			
Al Kimball	9.5	Maxim			
Scott breed	9.5	Maxim			
Mike Elster	9.5	Maxim			

Summary of Activities		
Equipment	Site/Task	Activities Performed
OVA	AOC 9 and ON Base GW AOC	Drilled/sampled 4 shallow and 1 intermediate vertical profile Geoprobe locations at the On Base GW AOC. Drilled/sampled 2 intermediate VP Geoprobe locations at AOC 9.
O ₂ /H ₂ S/Explosimeter		
Water Level Indicator		
Draeger pump/VC tubes		
OVA	AOI 469	Drilled and sampled one soil boring (G469-SS06).
O ₂ /H ₂ S/Explosimeter		
Water Level Indicator		
Draeger pump/VC tubes		
OVA	AOC 9	Excavated and sampled the remaining 4 of 6 Test Pits (looking for possible source of contamination) at AOC 9. Also excavated the first 2 of 6 Landfill Boundary Delineation Test Pits.
O ₂ /H ₂ S/Explosimeter		
Water Level Indicator		
Draeger pump/VC tubes		

Daily Activity Summary	
Date: 3-21-00	Report No.: 7
Project Name: ESI/SI	Weather: Partly sunny, 40°F to 50°F, light wind.

Field Tests Performed (Sample's, Field Screening, Chemical testing, Etc.)
Continued analyzing groundwater samples from the Geoprobe locations sampled at AOC 9 and the On-Base GW AOC.
Work Delays (Due To Weather, Maintenance, Breakdowns, Waiting For Decisions)
Slight delay while Geoprobng soil boring G469-SS06 due to difficulty obtaining sufficient recovery from the boring. Installed two complete borings at the G469-SS06 location to obtain sufficient sample volume.
Problems Encountered And Deviations From Work Plan
Unable to obtain sufficient sample volume while installing soil borings using the Geoprobe at AOI 469. A drill rig with 4.25" ID Augers and 2-foot splitspoons will be used for the remaining 10 soil borings. This change has been verbally approved by Bob Pender of USACE and Tom Ferraro of E & E.
Written And Verbal Instruction By The Government
Change drilling method at AOI 469 as described above.
Collect three additional surface water samples at AOC 9 from the stream flowing south from the culvert at Perimeter Road to Six Mile Cr. The additional SW samples will be analyzed in the On-Site lab (method 8021B).
Safety Issues
None.
Planned Activities For Next Work Day
Continue Geoprobe surveys and Test Pit excavations at AOC 9.
Begin surface debris removal at PCI Site 20.
Remarks: (Visitors, Completion Of Field Work At An AOC, Etc.)
Bob Pender, Tim Grady, Tom Ferraro, and Marcia Galloway arrived on site.

Bob Meyers
Site Manager

3-17-00
Date

Daily Activity Summary	
Date: 3-22-00	Report No.: 8
Project Name: ESI/SI	Weather: Partly sunny, 40°F to 60°F, light wind.

Personnel	Hrs.	Affiliation	Personnel	Hrs.	Affiliation
B. Meyers	12	E & E			
L. Angelaki	11.5	E & E			
J. Mays	11.5	E & E			
C. Sansone	11	E & E			
R. Labocetta	11.5	E & E			
D. Ikeda	2	E & E			
Al Kimball	10	Maxim			
Scott breed	9	Maxim			
Mike Elster	9	Maxim			

Summary of Activities		
Equipment	Site/Task	Activities Performed
OVA	AOC 9 and ON Base GW AOC	Drilled/sampled 1 shallow vertical profile Geoprobe location at the On Base GW AOC. Drilled/sampled 1 shallow, 4 intermediate, and 5 deep Geoprobe locations at AOC 9.
O ₂ /H ₂ S/Explosimeter		
Water Level Indicator		
Draeger pump/VC tubes		
OVA	AOC 9	Excavated the remaining 4 of 6 Landfill Boundary Delineation Test Pits at AOC 9.
O ₂ /H ₂ S/Explosimeter		
Water Level Indicator		
Draeger pump/VC tubes		
OVA	PCI Site 20	Began surface debris removal and removed asphalt pile.
Draeger pump/VC tubes		

Daily Activity Summary	
Date: 3-22-00	Report No.: 8
Project Name: ESI/SI	Weather: Partly sunny, 40°F to 60°F, light wind.

Field Tests Performed (Sample's, Field Screening, Chemical testing, Etc.)
Continued analyzing groundwater samples from the Geoprobe locations sampled at AOC 9 and the On-Base GW AOC.
Determined that there are no drain lines discharging into the OTH-305 Paint Spray Booth floor drain.
Work Delays (Due To Weather, Maintenance, Breakdowns, Waiting For Decisions)
None.
Problems Encountered And Deviations From Work Plan
None.
Written And Verbal Instruction By The Government
Complete Field Adjustment Form for AOI 469 drilling method change, as agreed to by Bob Pender (USACE), and T. Ferraro.
Safety Issues
None.
Planned Activities For Next Work Day
Continue Geoprobe surveys at AOC 9 and the On base GW AOC.
Begin surface debris removal at OTH-5485-2.
Remarks: (Visitors, Completion Of Field Work At An AOC, Etc.)
Bob Pender, Tim Grady, Tom Ferraro, and Marcia Galloway on site. Cathy Jerrard (AFBCA) on site to review available data and perform site walkovers at AOC 9 and AOI 469.
All Test Pit excavations at AOC 9 have been completed.
WAD 3 field program is currently on schedule.

Bob Meyers
Site Manager

3-23-00
Date

Daily Activity Summary	
Date: 3-23-00	Report No.: 9
Project Name: ESI/SI	Weather: Partly sunny, 40°F to 60°F, light wind.

Personnel	Hrs.	Affiliation	Personnel	Hrs.	Affiliation
B. Meyers	11.5	E & E			
L. Angelaki	10.5	E & E			
J. Mays	10.5	E & E			
C. Sansone	11.5	E & E			
R. Labocetta	11.5	E & E			
D. Ikeda	2	E & E			
Al Kimball	10	Maxim			
Scott breed	9	Maxim			
Mike Elster	9	Maxim			

Summary of Activities		
Equipment	Site/Task	Activities Performed
OVA	AOC 9 and ON Base GW AOC	Drilled/sampled 7 Geoprobe locations at the On Base GW AOC. Drilled/sampled 2 Geoprobe locations at AOC 9.
O ₂ /H ₂ S/Explosimeter		
Water Level Indicator		
Draeger pump/VC tubes		
OVA	OTH-5485-2	Began surface debris removal at OTH-5485-2.
Draeger pump/VC tubes		

Daily Activity Summary	
Date: 3-23-00	Report No.: 9
Project Name: ESI/SI	Weather: Partly sunny, 40°F to 60°F, light wind.

Field Tests Performed (Sample's, Field Screening, Chemical testing, Etc.)
Continued analyzing groundwater samples from the Geoprobe locations sampled at AOC 9 and the On-Base GW AOC.
Work Delays (Due To Weather, Maintenance, Breakdowns, Waiting For Decisions)
None.
Problems Encountered And Deviations From Work Plan
None.
Written And Verbal Instruction By The Government
None.
Safety Issues
None.
Planned Activities For Next Work Day
Continue Geoprobe surveys at AOC 9 and the On base GW AOC.
Continue surface debris removal at OTH-5485-2.
Remarks: (Visitors, Completion Of Field Work At An AOC, Etc.)
WAD 3 field program is currently on schedule, however the surface debris removal at OTH-5485-2 is currently anticipated to take an extra half day (12 man-hours) due to the volume of debris encountered during the removal.

Bob Meyers
Site Manager

3-24-00
Date

Daily Activity Summary	
Date: 3-24-00	Report No.: 10
Project Name: ESI/SI	Weather: sunny, 40°F to 60°F, light wind.

Personnel	Hrs.	Affiliation	Personnel	Hrs.	Affiliation
B. Meyers	12	E & E			
L. Angelaki	12	E & E			
J. Mays	12	E & E			
C. Sansone	12	E & E			
R. Labocetta	12	E & E			
D. Ikeda	2	E & E			
Al Kimball	10	Maxim			
Scott breed	8	Maxim			
Mike Elster	8	Maxim			

Summary of Activities		
Equipment	Site/Task	Activities Performed
OVA	AOC 9 and ON Base GW AOC	Drilled/sampled 2 Geoprobe locations at the On Base GW AOC. Drilled/sampled 3 Geoprobe locations at AOC 9.
O ₂ /H ₂ S/Explosimeter		
Water Level Indicator		
Draeger pump/VC tubes		
OVA	OTH-5485-2	Completed surface debris removal at OTH- 5485-2.
Draeger pump/VC tubes		

Daily Activity Summary	
Date: 3-24-00	Report No.: 10
Project Name: ESI/SI	Weather: sunny, 40°F to 60°F, light wind.

Field Tests Performed (Sample's, Field Screening, Chemical testing, Etc.)
Continued analyzing groundwater samples from the Geoprobe locations sampled at AOC 9 and the On-Base GW AOC.
Work Delays (Due To Weather, Maintenance, Breakdowns, Waiting For Decisions)
Completion of debris removal at OTH-5485-2 took approximately 12 man-hours more than anticipated, due to the large amount of debris found during the debris removal process.
Problems Encountered And Deviations From Work Plan
None.
Written And Verbal Instruction By The Government
R. Pender stated that the Geophysical survey at PCI site 20 will have to be performed.
Safety Issues
None.
Planned Activities For Next Work Day
Continue Geoprobe surveys at AOC 9 and the On base GW AOC, and begin drilling activities at AOI 7.
Remarks: (Visitors, Completion Of Field Work At An AOC, Etc.)
WAD 3 field program is currently on schedule

Bob Meyers
Site Manager

3-27-00
Date

Daily Activity Summary

Date: 3-27-00

Report No.: 11

Project Name: ESI/SI

Weather: Cloudy 53°F to 40°F, light wind.

[illegible]

Summary of Activities

Equipment	Site/Task	Activities Performed
OVA	AOI 7	Drilled/sampled 3 Soil Boring locations at AOI 7.
O ₂ /H ₂ S/Explosimeter		
Water Level Indicator		
Draeger pump/VC tubes		
OVA	AOC 9	Collected 3 SW samples at AOC 9 from: Culvert discharging to wet area (SW15); former northern Igloo location/seep (SW14); and Stream flowing from culvert- 50' upstream of SMC (SW13).
Draeger pump/VC tubes		

Daily Activity Summary	
Date: 3-27-00	Report No.: 11
Project Name: ESI/SI	Weather: Cloudy 53°F to 40°F, light wind.

Field Tests Performed (Sample's, Field Screening, Chemical testing, Etc.)
Continued analyzing groundwater samples from the Geoprobe locations sampled at AOC 9 and the On-Base GW AOC.
Work Delays (Due To Weather, Maintenance, Breakdowns, Waiting For Decisions)
None.
Problems Encountered And Deviations From Work Plan
Soil Borings at AOI 7 were drilled to between 12 and 16 feet BGS instead of 8 feet BGS due to depth to water table.
Written And Verbal Instruction By The Government
None.
Safety Issues
None.
Planned Activities For Next Work Day
Continue Geoprobe surveys at AOC 9 and the On base GW AOC, and begin drilling activities at AOI 7.
Remarks: (Visitors, Completion Of Field Work At An AOC, Etc.)
WAD 3 field program is currently within one day of planned field schedule.

Bob Meyers
Site Manager

3-29-00
Date

Daily Activity Summary	
Date: 3-28-00	Report No.: 12
Project Name: ESI/SI	Weather: Steady Rain, 40°F, windy.

Personnel	Hrs.	Affiliation	Personnel	Hrs.	Affiliation
B. Meyers	10.5	E & E			
L. Angelaki	10.5	E & E			
J. Mays	10	E & E			
D. Ikeda	2	E & E			
Scott breed	8	Maxim			
Mike Elster	8	Maxim			

Summary of Activities		
Equipment	Site/Task	Activities Performed
OVA	AOC 9 and On Base GW AOC	Drilled/sampled 1 Geoprobe location at AOC 9, and 6 Geoprobe locations at the On Base GW AOC.
O ₂ /H ₂ S/Explosimeter		
Water Level Indicator		
Draeger pump/VC tubes		
OVA	AOC 9 and On Base GW AOC	Re-Collected 6 GW samples from at AOC 9, and 1 GW sample from the On Base GW AOC.
Draeger pump/VC tubes		

Daily Activity Summary	
Date: 3-28-00	Report No.: 12
Project Name: ESI/SI	Weather: Steady Rain, 40°F, windy.

Field Tests Performed (Sample's, Field Screening, Chemical testing, Etc.)
Continued analyzing groundwater samples from the Geoprobe locations sampled at AOC 9 and the On-Base GW AOC.
Work Delays (Due To Weather, Maintenance, Breakdowns, Waiting For Decisions)
Fieldwork progressed more slowly than normal due to the cold wind and steady rains.
Problems Encountered And Deviations From Work Plan
None.
Written And Verbal Instruction By The Government
None.
Safety Issues
None.
Planned Activities For Next Work Day
Continue Geoprobe Survey at AOC 9 (two Points Remaining), and begin installing monitoring wells at AOI 7.
Remarks: (Visitors, Completion Of Field Work At An AOC, Etc.)
WAD 3 field program is currently within one day of planned field schedule.
Marcia Galloway on site.

Bob Meyers
Site Manager

3-29-00
Date

Daily Activity Summary	
Date: 3-29-00	Report No.: 13
Project Name: ESI/SI	Weather: Steady Rain and snow, 35°F, windy.

Personnel	Hrs.	Affiliation	Personnel	Hrs.	Affiliation
B. Meyers	10.5	E & E			
L. Angelaki	10.5	E & E			
J. Mays	10.5	E & E			
D. Ikeda	2	E & E			
Scott Breeds	10	Maxim			
Mike Elster	10	Maxim			

Summary of Activities		
Equipment	Site/Task	Activities Performed
OVA	AOC 9 and On Base GW AOC	Drilled/sampled 2 Geoprobe locations at AOC 9. Collected a SW sample from the AFFF pond at AOC 9.
O ₂ /H ₂ S/Explosimeter		
Water Level Indicator		
Draeger pump/VC tubes		
OVA	AOI 7	Drilled MW-2.
Draeger pump/VC tubes		

Daily Activity Summary	
Date: 3-29-00	Report No.: 13
Project Name: ESI/SI	Weather: Steady Rain and snow, 35°F, windy.

Field Tests Performed (Sample's, Field Screening, Chemical testing, Etc.)
Continued analyzing groundwater samples from the Geoprobe locations sampled at AOC9.
Work Delays (Due To Weather, Maintenance, Breakdowns, Waiting For Decisions)
Drill crew spent the afternoon dealing with flowing sands.
Problems Encountered And Deviations From Work Plan
Flowing sands at AOI 7 made monitoring well installation very difficult..
Written And Verbal Instruction By The Government
None.
Safety Issues
None.
Planned Activities For Next Work Day
Continue Geoprobe Survey at AOC 9 (one Point), and continue installing monitoring wells at AOI 7.
Remarks: (Visitors, Completion Of Field Work At An AOC, Etc.)
WAD 3 field program is currently within one day of planned field schedule.

Bob Meyers
Site Manager

3-30-00
Date

Daily Activity Summary	
Date: 3-30-00	Report No.: 14
Project Name: ESI/SI	Weather: light Rain and snow, 35°F, windy.

Personnel	Hrs.	Affiliation	Personnel	Hrs.	Affiliation
B. Meyers	9.5	E & E			
L. Angelaki	9.5	E & E			
J. Mays	10	E & E			
D. Ikeda	2	E & E			
Scott Breeds	8.5	Maxim			
Mike Elster	8.5	Maxim			

Summary of Activities		
Equipment	Site/Task	Activities Performed
OVA	AOC 9	Drilled 1 Geoprobe locations at AOC 9.
O ₂ /H ₂ S/Explosimeter		
Water Level Indicator		
Draeger pump/VC tubes		
OVA	AOI 7	Completed drilling and installing MW-2 and MW-3.
Draeger pump/VC tubes		
O ₂ /H ₂ S/Explosimeter		
Water Level Indicator		

Daily Activity Summary	
Date: 3-30-00	Report No.: 14
Project Name: ESI/SI	Weather: light Rain and snow, 35°F, windy.

Field Tests Performed (Sample's, Field Screening, Chemical testing, Etc.)
Continued analyzing groundwater samples from the Geoprobe locations sampled at AOC9.
Work Delays (Due To Weather, Maintenance, Breakdowns, Waiting For Decisions)
None.
Problems Encountered And Deviations From Work Plan
None.
Written And Verbal Instruction By The Government
None.
Safety Issues
None.
Planned Activities For Next Work Day
Complete drilling activities at AOI 7.
Remarks: (Visitors, Completion Of Field Work At An AOC, Etc.)
WAD 3 field program is currently within one day of planned field schedule.

Bob Meyers
Site Manager

3-31-00
Date

Daily Activity Summary	
Date: 3-31-00	Report No.: 15
Project Name: ESI/SI	Weather: 35°F to 50°F, Cloudy.

Personnel	Hrs.	Affiliation	Personnel	Hrs.	Affiliation
B. Meyers	8	E & E			
L. Angelaki	12	E & E			
J. Mays	12	E & E			
D. Ikeda	2	E & E			
Scott Breeds	8	Maxim			
Mike Elster	8	Maxim			

Summary of Activities		
Equipment	Site/Task	Activities Performed
OVA	AOI 7	Completed drilling and installing MW-1 and two soil borings.
Draeger pump/VC tubes		
O ₂ /H ₂ S/Explosimeter		
Water Level Indicator		

Daily Activity Summary	
Date: 3-31-00	Report No.: 15
Project Name: ESI/SI	Weather: 35°F to 50°F, Cloudy.

Field Tests Performed (Sample's, Field Screening, Chemical testing, Etc.)
Continued analyzing groundwater samples from the Geoprobe locations sampled at AOC9.
Work Delays (Due To Weather, Maintenance, Breakdowns, Waiting For Decisions)
None.
Problems Encountered And Deviations From Work Plan
None.
Written And Verbal Instruction By The Government
None.
Safety Issues
None.
Planned Activities For Next Work Day
Begin installing monitoring wells at OTH-5485-2.
Select drilling for the On Base GW AOC.
Remarks: (Visitors, Completion Of Field Work At An AOC, Etc.)
WAD 3 field program is currently within one day of planned field schedule.

Bob Meyers

4-3-00

Site Manager

Date

Daily Activity Summary

Date: 4-03-00

Report No.: 16

Project Name: ESI/SI

Weather: Rain, 45°F to 55°F, Cloudy.

[illegible]

Summary of Activities

Equipment	Site/Task	Activities Performed
OVA	OTH-5485-2	Drilled MW-1 to 22 feet BGS.
Draeger pump/VC tubes		
O ₂ /H ₂ S/Explosimeter		
Water Level Indicator		
OVA	AOI 7	Grouted monitoring wells MW-1, MW-2 and MW-3. Deconed drilling equipment.
Draeger pump/VC tubes		
O ₂ /H ₂ S/Explosimeter		
Water Level Indicator		

Daily Activity Summary	
Date: 4-03-00	Report No.: 16
Project Name: ESI/SI	Weather: Rain, 45°F to 55°F, Cloudy.

Field Tests Performed (Sample's, Field Screening, Chemical testing, Etc.)
None.
Work Delays (Due To Weather, Maintenance, Breakdowns, Waiting For Decisions)
None.
Problems Encountered And Deviations From Work Plan
Encountered very difficult drilling conditions at OTH-5485-2 (augering has progressed more slowly than anticipated).
Written And Verbal Instruction By The Government
Robert Pender requested photographs of several of the WAD 2 & 3 sites.
Safety Issues
None.
Planned Activities For Next Work Day
Continue drilling monitoring wells at OTH-5485-2.
Select drilling locations for AOC 9.
Remarks: (Visitors, Completion Of Field Work At An AOC, Etc.)
WAD 3 field program is currently within one day of planned field schedule.
Alfred M. Yates, an Environmental Engineer arrived on site as a representative for the USEPA. Mr. Yates is an employee of Gannett Fleming, Inc. Engineers and Planners.

Bob Meyers

4-4-00

Site Manager

Date

Daily Activity Summary

Date: 4-04-00

Report No.: 17

Project Name: ESI/SI

Weather: 45°F to 55°F, Cloudy with steady rain.

[illegible]

Summary of Activities

Equipment	Site/Task	Activities Performed
OVA	OTH-5485-2	Completed drilling and installing temporary well MW-1 (TD = 39 feet BGS).
Draeger pump/VC tubes		
O ₂ /H ₂ S/Explosimeter		
Water Level Indicator		
OVA	On-Base GW AOC.	Collected Water levels from all GP locations at the On-Base GW AOC.
Water Level Indicator		

Daily Activity Summary	
Date: 4-04-00	Report No.: 17
Project Name: ESI/SI	Weather: 45°F to 55°F, Cloudy with steady rain.

Field Tests Performed (Sample's, Field Screening, Chemical testing, Etc.)
None.
Work Delays (Due To Weather, Maintenance, Breakdowns, Waiting For Decisions)
Minor drill rig breakdowns delayed drilling progress. A more powerful ATV drill rig will arrive on site tomorrow.
Problems Encountered And Deviations From Work Plan
Encountered very difficult drilling conditions at OTH-5485-2 (augering has progressed more slowly than anticipated).
Written And Verbal Instruction By The Government
R. Meyers and R. Pender discussed monitoring well locations at the On-Base GW AOC.
Safety Issues
None.
Planned Activities For Next Work Day
Continue drilling monitoring wells at OTH-5485-2.
Finalize drilling locations for the On-Base GW AOC.
Remarks: (Visitors, Completion Of Field Work At An AOC, Etc.)
WAD 3 field program (Drilling) is currently one day behind schedule.
Alfred M. Yates, an Environmental Engineer on site as a representative for the USEPA remains on site. Mr. Yates is an employee of Gannett Fleming, Inc. Engineers and Planners.

Bob Meyers	4-5-00
Site Manager	Date

Daily Activity Summary	
Date: 4-05-00	Report No.: 18
Project Name: ESI/SI	Weather: 30°F to 35°F, Cloudy with rain and snow.

Personnel	Hrs.	Affiliation	Personnel	Hrs.	Affiliation
B. Meyers	10.5	E & E			
L. Angelaki	10.5	E & E			
J. Mays	10	E & E			
D. Ikeda	0	E & E			
Scott Phouts	0	Maxim			
Mike Elster	0	Maxim			

Summary of Activities		
Equipment	Site/Task	Activities Performed
OVA	AOI 431	Overpacked 5 gallon bucket of Roofing tar like material and collected sample of the contents.
Draeger pump/VC tubes		
O ₂ /H ₂ S/Explosimeter		
OVA	AOC 9.	Collected Water levels from all GP locations at AOC 9.
Draeger pump/VC tubes		
OVA	On Base GW AOC.	Collected a water sample from the culverted section of SMC south of building 817.
Draeger pump/VC tubes		

Daily Activity Summary	
Date: 4-05-00	Report No.: 18
Project Name: ESI/SI	Weather: 30°F to 35°F, Cloudy with rain and snow.

Field Tests Performed (Sample's, Field Screening, Chemical testing, Etc.)
Analyze water sample collected from the culverted section of SMC in the on site lab.
Work Delays (Due To Weather, Maintenance, Breakdowns, Waiting For Decisions)
The driller (Al Kimbal) called in sick, no replacement was available.
No drilling was accomplished
Problems Encountered And Deviations From Work Plan
Unable to complete excavating the soil beneath the bucket at AOI 431 due to water entering the hole. Will complete excavating the potentially contaminated soil, and collect the confirmation soil sample when the rain stops long enough for the ground to dry out.
Written And Verbal Instruction By The Government
None.
Safety Issues
None.
Planned Activities For Next Work Day
Continue drilling monitoring wells at OTH-5485-2.
Finalize drilling locations for the On-Base GW AOC.
Remarks: (Visitors, Completion Of Field Work At An AOC, Etc.)
WAD 3 field program (Drilling) is currently two days behind schedule.
Alfred M. Yates, an Environmental Engineer representing the USEPA remains on site. Mr. Yates is an employee of Gannett Fleming, Inc. Engineers and Planners.

Bob Meyers
Site Manager

4-6-00
Date

Daily Activity Summary

Date: 4-06-00

Report No.: 19

Project Name: ESI/SI

Weather: 30°F to 35°F, Cloudy with rain and snow.

[illegible]

Summary of Activities

[illegible]

Daily Activity Summary	
Date: 4-06-00	Report No.: 19
Project Name: ES/SI	Weather: 30°F to 35°F, Cloudy with rain and snow.

Field Tests Performed (Sample's, Field Screening, Chemical testing, Etc.)
None.
Work Delays (Due To Weather, Maintenance, Breakdowns, Waiting For Decisions)
Drillers arrived on site at 1300 hrs. with new drill rig (half day delay).
Problems Encountered And Deviations From Work Plan
None.
Written And Verbal Instruction By The Government
None.
Safety Issues
None.
Planned Activities For Next Work Day
Continue drilling monitoring wells at OTH-5485-2.
Finalize drilling locations for the On-Base GW AOC.
Remarks: (Visitors, Completion Of Field Work At An AOC, Etc.)
WAD 3 field program (Drilling) is currently two days behind schedule.

Bob Meyers

4-7-00

Site Manager

Date

Daily Activity Summary	
Date: 4-07-00	Report No.: 20
Project Name: ESI/SI	Weather: 35°F to 50°F, Sunny.

Personnel	Hrs.	Affiliation	Personnel	Hrs.	Affiliation
B. Meyers	12	E & E			
L. Angelaki	12	E & E			
J. Mays	12	E & E			
D. Ikeda	0	E & E			
Scott Phouts	8	Maxim			
Al Kimbla	8	Maxim			

Summary of Activities		
Equipment	Site/Task	Activities Performed
OVA	OTH-5485-2	Drilled and installed one downgradient temporary monitoring well.
Draeger pump/VC tubes		
O ₂ /H ₂ S/Explosimeter		
Water level indicator		

Daily Activity Summary	
Date: 4-07-00	Report No.: 20
Project Name: ESI/SI	Weather: 35°F to 50°F, Sunny.

Field Tests Performed (Sample's, Field Screening, Chemical testing, Etc.)
None.
Work Delays (Due To Weather, Maintenance, Breakdowns, Waiting For Decisions)
None.
Problems Encountered And Deviations From Work Plan
None.
Written And Verbal Instruction By The Government
Chose locations for monitoring wells at the On Base GW AOC.
Safety Issues
None.
Planned Activities For Next Work Day
Begin drilling monitoring wells at the On Base GW AOC.
Remarks: (Visitors, Completion Of Field Work At An AOC, Etc.)
WAD 3 field program (Drilling) is currently one day behind schedule.

Bob Meyers
Site Manager

4-7-00
Date

Daily Activity Summary	
Date: 4-10-00	Report No.: 21
Project Name: ESI/SI	Weather: 30°F to 40°F, Snow.

Personnel	Hrs.	Affiliation	Personnel	Hrs.	Affiliation
B. Meyers	11.5	E & E			
L. Angelaki	11.5	E & E			
J. Mays	11.5	E & E			
Al Kimbla	10	Maxim			
Scott Phouts	6	Maxim			

Summary of Activities		
Equipment	Site/Task	Activities Performed
OVA	On Base GW AOC	Drilled and installed monitoring well WSAMW-8 at former location of GP18.
Draeger pump/VC tubes		
O ₂ /H ₂ S/Explosimeter		
Water level indicator		

Daily Activity Summary	
Date: 4-10-00	Report No.: 21
Project Name: ESI/SI	Weather: 30°F to 40°F, Snow.

Field Tests Performed (Sample's, Field Screening, Chemical testing, Etc.)
None.
Work Delays (Due To Weather, Maintenance, Breakdowns, Waiting For Decisions)
Slight slow down due to cold and wet working conditions.
Problems Encountered And Deviations From Work Plan
Unable to screen the top of the water table at WSAMW-8 because groundwater was first encountered at approximately 1.5 feet BGS. Set the well as shallow as possible with the minimum allowable sand above the top of the screen and bentonite seal.
Written And Verbal Instruction By The Government
None.
Safety Issues
None.
Planned Activities For Next Work Day
Continue drilling monitoring wells at the On Base GW AOC.
Remarks: (Visitors, Completion Of Field Work At An AOC, Etc.)
WAD 3 field program (Drilling) is currently one day behind schedule.

Bob Meyers
Site Manager

4-10-00
Date

Daily Activity Summary

Date: 4-11-00

Report No.: 22

Project Name: ESI/SI

Weather: 30°F to 35°F, Snow.

[illegible]

Summary of Activities

[illegible]

Daily Activity Summary	
Date: 4-11-00	Report No.: 22
Project Name: ESI/SI	Weather: 30°F to 35°F, Snow.

Field Tests Performed (Sample's, Field Screening, Chemical testing, Etc.)
None.
Work Delays (Due To Weather, Maintenance, Breakdowns, Waiting For Decisions)
None.
Problems Encountered And Deviations From Work Plan
None.
Written And Verbal Instruction By The Government
None.
Safety Issues
None.
Planned Activities For Next Work Day
Continue drilling monitoring wells at the AOC 9.
Remarks: (Visitors, Completion Of Field Work At An AOC, Etc.)
WAD 3 field program (Drilling) is currently on schedule.

Bob Meyers
Site Manager

4-12-00
Date

Daily Activity Summary	
Date: 4-12-00	Report No.: 23
Project Name: ESI/SI	Weather: 25°F to 35°F, Snow, Windy.

Personnel	Hrs.	Affiliation	Personnel	Hrs.	Affiliation
B. Meyers	11	E & E			
L. Angelaki	11	E & E			
J. Mays	11	E & E			
Mike Hennick	11	E & E			
Chris Sansone	11	E & E			
Al Kimbla	10	Maxim			
Mike Elster	10	Maxim			

Summary of Activities		
Equipment	Site/Task	Activities Performed
OVA	AOC 9	Drilled and installed monitoring well AOC9MW-5.
Draeger pump/VC tubes		
O ₂ /H ₂ S/Explosimeter		
Water level indicator		
OVA	AOI 7	Developed AOI 7 MW-1
Draeger pump/VC tubes		
Water level indicator		

Daily Activity Summary	
Date: 4-12-00	Report No.: 23
Project Name: ESI/SI	Weather: 25°F to 35°F, Snow, Windy.

Field Tests Performed (Sample's, Field Screening, Chemical testing, Etc.)
Collected pH, temperature, conductivity, and turbidity readings while developing MW-1 at AOI 7.
Work Delays (Due To Weather, Maintenance, Breakdowns, Waiting For Decisions)
None.
Problems Encountered And Deviations From Work Plan
None.
Written And Verbal Instruction By The Government
None.
Safety Issues
None.
Planned Activities For Next Work Day
Continue drilling monitoring wells at the AOC 9.
Remarks: (Visitors, Completion Of Field Work At An AOC, Etc.)
John Greco (NYSDEC), Doug Pocze (USEPA), Mike McDermott, Cathy Jerrard, Bob Pender, Tom Ferraro, and Bob Meyers attended at meeting on base to discuss the progress of the field program. The WAD 3 field program is currently on schedule.

Bob Meyers
Site Manager

4-13-00
Date

Daily Activity Summary	
Date: 4-13-00	Report No.: 24
Project Name: ESI/SI	Weather: 34°F to 50°F, Sunny.

Personnel	Hrs.	Affiliation	Personnel	Hrs.	Affiliation
B. Meyers	11	E & E			
L. Angelaki	11	E & E			
J. Mays	11	E & E			
Mike Hennick	11	E & E			
Chris Sansone	11	E & E			
Al Kimbla	10	Maxim			
Mike Elster	10	Maxim			

Summary of Activities		
Equipment	Site/Task	Activities Performed
OVA	AOC 9	Drilled and installed monitoring wells AOC9MW-6 and 7.
Draeger pump/VC tubes		
O ₂ /H ₂ S/Explosimeter		
Water level indicator		
OVA	AOI 7	Developed AOI 7 MW-2 and 3.
Draeger pump/VC tubes		
Water level indicator		

Daily Activity Summary	
Date: 4-13-00	Report No.: 24
Project Name: ESI/SI	Weather: 34°F to 50°F, Sunny.

Field Tests Performed (Sample's, Field Screening, Chemical testing, Etc.)
Collected pH, temperature, conductivity, and turbidity readings while developing wells at AOI 7.
Work Delays (Due To Weather, Maintenance, Breakdowns, Waiting For Decisions)
None.
Problems Encountered And Deviations From Work Plan
None.
Written And Verbal Instruction By The Government
Generate plan for additional work at AOC 9 and the On Base GW AOC.
Provide cost estimate for addition of NA parameters to AOC 9 GW sampling.
Safety Issues
None.
Planned Activities For Next Work Day
Begin well completions, removing exiting GP points, and set up to begin drilling at EOD Range 2.
Remarks: (Visitors, Completion Of Field Work At An AOC, Etc.)
Mike McDermott, Cathy Jerrard, Mike W., Barbara Moore, Kirk Boese, Masud Zaman, Bob Pender, Tim Grady, Tom Ferraro, Gene Florentino, John Sunquist, Jackie Gillings, and Bob Meyers attended at meeting on base to discuss the progress of the WADs. The WAD 3 field program is currently on schedule.

Bob Meyers
Site Manager

4-14-00
Date

Daily Activity Summary	
Date: 4-14-00	Report No.: 25
Project Name: ESI/SI	Weather: 34°F to 50°F, Sunny.

Field Tests Performed (Sample's, Field Screening, Chemical testing, Etc.)
Collected pH, temperature, conductivity, and turbidity readings while developing wells at OTH-5485-2.
Work Delays (Due To Weather, Maintenance, Breakdowns, Waiting For Decisions)
None.
Problems Encountered And Deviations From Work Plan
None.
Written And Verbal Instruction By The Government
Generate plan for additional work at AOC 9 and the On Base GW AOC.
Provide cost estimate for addition of NA parameters to AOC 9 GW sampling.
Obtain and review available data regarding the industrial leach field and fuel spills located upgradient of the AOC sites from C. Jerrard.
Obtain drawings of areas north of the AOC sites.
Safety Issues
None.
Planned Activities For Next Work Day
Begin drilling and sampling at EOD Range 2, and begin development at AOC 9.
Remarks: (Visitors, Completion Of Field Work At An AOC, Etc.)
Bob Pender departed GAFB at approximately 1100 hrs. after examining the areas north of the AOC sites with R. Meyers.
The WAD 3 field program is currently on schedule.

Bob Meyers

4-14-00

Site Manager

Date

Daily Activity Summary	
Date: 4-17-00	Report No.: 26
Project Name: ESI/SI	Weather: 35°F to 45°F, Rain.

Personnel	Hrs.	Affiliation	Personnel	Hrs.	Affiliation
B. Meyers	11.5	E & E			
L. Angelaki	11.5	E & E			
J. Mays	11.5	E & E			
Mike Hennick	10	E & E			
Chris Sansone	12	E & E			
Al Kimbla	10	Maxim			
Mike Elster	10	Maxim			

Summary of Activities		
Equipment	Site/Task	Activities Performed
OVA	On Base GW AOC and AOC 9	Continued removing Geoprobe wells and backfilling with bentonite.
Draeger pump/VC tubes		
O ₂ /H ₂ S/Explosimeter		
Water level indicator		
OVA	OTH-5485-2	Completed Developing temporary well OTH-5485-2-SS02 and SS03.
Draeger pump/VC tubes		
Water level indicator		
OVA	EOD Range 2	Drilled and sampled all soil borings (10).
Draeger pump/VC tubes		
O ₂ /H ₂ S/Explosimeter		
Water level indicator		

Daily Activity Summary	
Date: 4-17-00	Report No.: 26
Project Name: ESI/SI	Weather: 35°F to 45°F, Rain.

Field Tests Performed (Sample's, Field Screening, Chemical testing, Etc.)
Collected pH, temperature, conductivity, and turbidity readings while developing wells at OTH-5485-2.
Work Delays (Due To Weather, Maintenance, Breakdowns, Waiting For Decisions)
None.
Problems Encountered And Deviations From Work Plan
None.
Written And Verbal Instruction By The Government
Generate plan for additional work at AOC 9 and the On Base GW AOC.
Provide cost estimate for addition of NA parameters to AOC 9 GW sampling.
Obtain and review available data regarding the industrial leach field and fuel spills located upgradient of the AOC sites from C. Jerrard.
Obtain drawings of areas north of the AOC sites.
Safety Issues
None.
Planned Activities For Next Work Day
Begin drilling and sampling at EOD Range 2, and begin development at AOC 9.
Remarks: (Visitors, Completion Of Field Work At An AOC, Etc.)
Bob Pender departed GAFB at approximately 1100 hrs. after examining the areas north of the AOC sites with R. Meyers.
The WAD 3 field program is currently on schedule.

Bob Meyers
Site Manager

4-14-00
Date

Daily Activity Summary

Date: 4-18-00

Report No.: 27**Project Name: ESI/SI**

Weather: 35°F to 45°F, Rain.

[illegible]

Summary of Activities

Equipment	Site/Task	Activities Performed
OVA	On Base GW AOC and AOC 9	Continued well development.
Draeger pump/VC tubes		
O ₂ /H ₂ S/Explosimeter		
Water level indicator		
OVA	AOI 469	Drilled and sampled 3 soil borings.
Draeger pump/VC tubes		
O ₂ /H ₂ S/Explosimeter		
Water level indicator		

Daily Activity Summary	
Date: 4-18-00	Report No.: 27
Project Name: ESI/SI	Weather: 35°F to 45°F, Rain.

Field Tests Performed (Sample's, Field Screening, Chemical testing, Etc.)
Collected pH, temperature, conductivity, and turbidity readings while developing wells at AOC 9 and the On Base GW AOC.
Work Delays (Due To Weather, Maintenance, Breakdowns, Waiting For Decisions)
Slow drilling at AOI 469 due to continuous splitspoon sample collection.
Problems Encountered And Deviations From Work Plan
Drilled into a black plastic Drain/Water line at boring NS13 (AOI 469). Harza determined that the line is either an abandoned line or buried debris. Will re-drill boring NS13, no further action is required.
Written And Verbal Instruction By The Government
None.
Safety Issues
None.
Planned Activities For Next Work Day
Complete drilling at AOI 469, continue well development.
Remarks: (Visitors, Completion Of Field Work At An AOC, Etc.)
The WAD 3 field program is currently on schedule.

Bob Meyers
Site Manager

4-20-00
Date

Daily Activity Summary

Date: 4-19-00

Report No.: 28

Project Name: ESI/SI

Weather: 35°F to 50°F, Drizzle.

[illegible]

Summary of Activities

Equipment	Site/Task	Activities Performed
OVA	On Base GW AOC and AOC 9	Continued well development.
Draeger pump/VC tubes		
O ₂ /H ₂ S/Explosimeter		
Water level indicator		
OVA	AOI 469	Drilled and sampled 4 soil borings.
Draeger pump/VC tubes		
O ₂ /H ₂ S/Explosimeter		
Water level indicator		
EM31-MK2	PCI 20	Performed Geophysical Survey.
Magnetometer		

Daily Activity Summary	
Date: 4-19-00	Report No.: 28
Project Name: ESI/SI	Weather: 35°F to 50°F, Drizzle.

Field Tests Performed (Sample's, Field Screening, Chemical testing, Etc.)
Collected pH, temperature, conductivity, and turbidity readings while developing wells at AOC 9 and the On Base GW AOC.
Work Delays (Due To Weather, Maintenance, Breakdowns, Waiting For Decisions)
Slow drilling at AOI 469 due to continuous splitspoon sample collection.
Problems Encountered And Deviations From Work Plan
None.
Written And Verbal Instruction By The Government
None.
Safety Issues
None.
Planned Activities For Next Work Day
Complete drilling at AOI 469, continue well development.
Remarks: (Visitors, Completion Of Field Work At An AOC, Etc.)
The WAD 3 drilling program is currently one day behind schedule.

Bob Meyers
Site Manager

4-20-00
Date

Daily Activity Summary

Date: 4-20-00

Report No.: 29

Project Name: ESI/SI

Weather: 40°F to 50°F, Drizzle.

[illegible]

Summary of Activities

Equipment	Site/Task	Activities Performed
OVA	AOC 9	Completed well development.
Draeger pump/VC tubes		
Water level indicator		
OVA	AOI 469	Drilled and sampled 2 soil borings.
Draeger pump/VC tubes		(Rig broke down)
O ₂ /H ₂ S/Explosimeter		
Water level indicator		

Daily Activity Summary	
Date: 4-20-00	Report No.: 29
Project Name: ESI/SI	Weather: 40°F to 50°F, Drizzle.

Field Tests Performed (Sample's, Field Screening, Chemical testing, Etc.)
Collected pH, temperature, conductivity, and turbidity readings while developing wells at AOC 9.
Work Delays (Due To Weather, Maintenance, Breakdowns, Waiting For Decisions)
Slow drilling at AOI 469 due to continuous splitspoon sample collection. Lost approximately four hours due to drill rig breakdown.
Problems Encountered And Deviations From Work Plan
None.
Written And Verbal Instruction By The Government
None.
Safety Issues
None.
Planned Activities For Next Work Day
Complete drilling at AOI 469, conduct geophysical survey at OTH-5485-2.
Remarks: (Visitors, Completion Of Field Work At An AOC, Etc.)
The WAD 3 drilling program is currently two days behind schedule.

Bob Meyers
Site Manager

4-24-00
Date

Daily Activity Summary	
Date: 4-21-00	Report No.: 30
Project Name: ESI/SI	Weather: 35°F to 40°F, Rain and Wind.

Personnel	Hrs.	Affiliation	Personnel	Hrs.	Affiliation
B. Meyers	11.5	E & E			
L. Angelaki	11.5	E & E			
J. Mays	11.5	E & E			
Mike Hennick	7	E & E			
Chris Sansone	0	E & E			
Al Kimbla	9	Maxim			
Mike Elster	9	Maxim			

Summary of Activities		
Equipment	Site/Task	Activities Performed
OVA	AOC 9	
Draeger pump/VC tubes		
Water level indicator		
OVA	AOI 469	Drilled and sampled the final soil boring.
Draeger pump/VC tubes		Grouted all borings.
O ₂ /H ₂ S/Explosimeter		
Water level indicator		
EM31-MK2	OTH-5485-2	Performed Geophysical Survey.
Magnetometer		

Daily Activity Summary	
Date: 4-21-00	Report No.: 30
Project Name: ESI/SI	Weather: 35°F to 40°F, Rain and Wind.

Field Tests Performed (Sample's, Field Screening, Chemical testing, Etc.)
Performed EM31-MK2 and Magnetometer surveys at OTH-5485-2.
Work Delays (Due To Weather, Maintenance, Breakdowns, Waiting For Decisions)
None.
Problems Encountered And Deviations From Work Plan
None.
Written And Verbal Instruction By The Government
None.
Safety Issues
None.
Planned Activities For Next Work Day
Resume Geoprobe Surveys at the On-Base GW AOC and AOC 9 on 4-29-00.
Remarks: (Visitors, Completion Of Field Work At An AOC, Etc.)
The WAD 3 drilling program is currently two days behind schedule.

Bob Meyers
Site Manager

4-24-00
Date

Daily Activity Summary	
Date: 4-28-00	Report No.: 31
Project Name: ESI/SI	Weather: 35°F to 60°F, Sunny.

Personnel	Hrs.	Affiliation	Personnel	Hrs.	Affiliation
B. Meyers	12	E & E			
L. Angelaki	12	E & E			
J. Mays	12	E & E			
Al Kimbla	10	Maxim			
Mike Elster	10	Maxim			

Summary of Activities		
Equipment	Site/Task	Activities Performed
OVA	AOC 9	Drilled and sampled 11 Vert. Profile Geo-probe borings.
Draeger pump/VC tubes		
O ₂ /H ₂ S/Explosimeter		
Water level indicator		

Daily Activity Summary	
Date: 4-28-00	Report No.: 31
Project Name: ESI/SI	Weather: 35°F to 60°F, Sunny.

Field Tests Performed (Sample's, Field Screening, Chemical testing, Etc.)
Analyzed GW samples in on site lab for SW8021B.
Work Delays (Due To Weather, Maintenance, Breakdowns, Waiting For Decisions)
None.
Problems Encountered And Deviations From Work Plan
None.
Written And Verbal Instruction By The Government
None.
Safety Issues
None.
Planned Activities For Next Work Day
Continue Geoprobe Surveys at the On-Base GW AOC and AOC 9.
Remarks: (Visitors, Completion Of Field Work At An AOC, Etc.)
None.

Bob Meyers
Site Manager

4-28-00
Date

Daily Activity Summary	
Date: 5-01-00	Report No.: 32
Project Name: ESI/SI	Weather: 45°F to 55°F, Showers.

Personnel	Hrs.	Affiliation	Personnel	Hrs.	Affiliation
B. Meyers	11	E & E			
L. Angelaki	11	E & E			
J. Mays	11	E & E			
Al Kimbla	10	Maxim			
Mike Elster	10	Maxim			
Rick Labocetta	11	E & E			
Chris Sansone	11	E & E			

Summary of Activities		
Equipment	Site/Task	Activities Performed
OVA	AOC 9, and On Base GW AOC	Drilled and sampled 2 Vert. Profile Geo- probe borings at AOC 9 and 9 at the On base GW AOC.
Draeger pump/VC tubes		
O ₂ /H ₂ S/Explosimeter		
Water level indicator		
OVA	AOI 7	Purged and sampled MW-1 and 2
Water level indicator		
Well Wizard Micro Purge		

Daily Activity Summary	
Date: 5-01-00	Report No.: 32
Project Name: ESI/SI	Weather: 45°F to 55°F, Showers.

Field Tests Performed (Sample's, Field Screening, Chemical testing, Etc.)
Analyzed Geoprobe GW samples in on site lab for SW8021B.
Performed low flow purging of monitoring wells prior to sampling.
Work Delays (Due To Weather, Maintenance, Breakdowns, Waiting For Decisions)
None.
Problems Encountered And Deviations From Work Plan
None.
Written And Verbal Instruction By The Government
Fax monitoring well purge data daily to R. Pender for review.
Safety Issues
None.
Planned Activities For Next Work Day
Continue Geoprobe Surveys at the On-Base GW AOC and AOC 9.
Continue sampling monitoring wells at AOI 7 and OTH-5485-2.
Remarks: (Visitors, Completion Of Field Work At An AOC, Etc.)
None.

Bob Meyers
Site Manager

5-3-00
Date

Daily Activity Summary	
Date: 5-02-00	Report No.: 33
Project Name: ESI/SI	Weather: 45°F to 65°F, Showers followed by Sun.

Personnel	Hrs.	Affiliation	Personnel	Hrs.	Affiliation
B. Meyers	10.5	E & E			
L. Angelaki	12	E & E			
J. Mays	10.5	E & E			
Al Kimbla	10	Maxim			
Mike Elster	10	Maxim			
Rick Labocetta	12	E & E			
Chris Sansone	10.5	E & E			

Summary of Activities		
Equipment	Site/Task	Activities Performed
OVA	AOC 9.	Drilled and sampled 9 Vert. Profile Geo-probe borings at AOC 9.
Draeger pump/VC tubes		
O ₂ /H ₂ S/Explosimeter		
Water level indicator		
OVA	AOI 7 and OTH5485-2	Purged and sampled MW-3 at AOI 7 and SS02 at OTH-5485-2.
Water level indicator		
Well Wizard Micro Purge		

Daily Activity Summary	
Date: 5-02-00	Report No.: 33
Project Name: ESI/SI	Weather: 45°F to 65°F, Showers followed by Sun.

Field Tests Performed (Sample's, Field Screening, Chemical testing, Etc.)
Analyzed Geoprobe GW samples in on site lab for SW8021B.
Performed low flow purging of monitoring wells prior to sampling.
Work Delays (Due To Weather, Maintenance, Breakdowns, Waiting For Decisions)
None.
Problems Encountered And Deviations From Work Plan
D.O. Readings were recorded in % saturation instead of mg/L on 5-1-00. In addition the percentages were unacceptably high.
Written And Verbal Instruction By The Government
Fax monitoring well purge data daily to R. Pender for review.
Re-purge and sample the monitoring wells at AOI 7.
Safety Issues
None.
Planned Activities For Next Work Day
Continue Geoprobe Surveys at AOC 9.
Continue sampling monitoring wells at OTH-5485-2.
Remarks: (Visitors, Completion Of Field Work At An AOC, Etc.)
Tom Ferraro was on site today to assist with Geoprobe Survey.

Bob Meyers
Site Manager

5-3-00
Date

Daily Activity Summary	
Date: 5-03-00	Report No.: 34
Project Name: ESI/SI	Weather: 47°F to 70°F, Sunny.

Personnel	Hrs.	Affiliation	Personnel	Hrs.	Affiliation
B. Meyers	11.5	E & E			
J. Mays	11.5	E & E			
Al Kimbla	8	Maxim			
Mike Elster	8	Maxim			
Rick Labocetta	12	E & E			
Chris Sansone	11.5	E & E			

Summary of Activities		
Equipment	Site/Task	Activities Performed
OVA	AOC 9.	Drilled and sampled 8 Vert. Profile Geo-probe borings at AOC 9.
Draeger pump/VC tubes		
O ₂ /H ₂ S/Explosimeter		
Water level indicator		
OVA	OTH5485-2	Purged and sampled Temp. well SS03 at OTH-5485-2.
Water level indicator		
Well Wizard Micro Purge		

Daily Activity Summary	
Date: 5-03-00	Report No.: 34
Project Name: ESI/SI	Weather: 47°F to 70°F, Sunny.

Field Tests Performed (Sample's, Field Screening, Chemical testing, Etc.)
Analyzed Geoprobe GW samples in on site lab for SW8021B.
Performed low flow purging of monitoring wells prior to sampling.
Work Delays (Due To Weather, Maintenance, Breakdowns, Waiting For Decisions)
Only sampled one monitoring well at OTH-5485-2 today due to problems with the bladder pump.
Problems Encountered And Deviations From Work Plan
None.
Written And Verbal Instruction By The Government
Fax monitoring well purge data daily to R. Pender for review.
Safety Issues
None.
Planned Activities For Next Work Day
Continue Geoprobe Surveys at AOC 9.
Continue sampling wells at OTH-5485-2, and begin re-sampling wells at AOI 7.
Remarks: (Visitors, Completion Of Field Work At An AOC, Etc.)
Problems encountered with the Micro Purge system at AOI 7 have been corrected and the purge data collected from OTH-5485-2 has been within acceptable ranges.

Bob Meyers
Site Manager

5-3-00
Date

Daily Activity Summary	
Date: 5-04-00	Report No.: 35
Project Name: ESI/SI	Weather: 50°F to 75°F, Sunny.

Personnel	Hrs.	Affiliation	Personnel	Hrs.	Affiliation
B. Meyers	11	E & E			
J. Mays	11	E & E			
Al Kimbla	8	Maxim			
Mike Elster	8	Maxim			
Rick Labocetta	11	E & E			
Chris Sansone	11	E & E			
Reed Lyday	11	E & E			

Summary of Activities		
Equipment	Site/Task	Activities Performed
OVA	AOC 9.	Drilled and sampled 7 Vert. Profile Geo-probe borings at AOC 9.
Draeger pump/VC tubes		
O ₂ /H ₂ S/Explosimeter		
Water level indicator		
OVA	AOI 7.	Re-Purged and Re-sampled monitoring wells G007-MW01 and MW02.
Water level indicator		
Well Wizard Micro Purge		

Daily Activity Summary	
Date: 5-04-00	Report No.: 35
Project Name: ESI/SI	Weather: 50°F to 75°F, Sunny.

Field Tests Performed (Sample's, Field Screening, Chemical testing, Etc.)
Analyzed Geoprobe GW samples in on site lab for SW8021B.
Performed low flow purging of monitoring wells prior to sampling.
Work Delays (Due To Weather, Maintenance, Breakdowns, Waiting For Decisions)
Minor drill rig break down caused a one hour delay.
Problems Encountered And Deviations From Work Plan
None.
Written And Verbal Instruction By The Government
Fax monitoring well purge data daily to R. Pender for review.
Install monitoring well AOC 9-MW08 at the location of GP28I.
Safety Issues
None.
Planned Activities For Next Work Day
Continue Geoprobe Surveys at AOC 9, and install AOC 9-MW08 at GP28I location.
Continue sampling wells at AOI 7.
Remarks: (Visitors, Completion Of Field Work At An AOC, Etc.)

Bob Meyers
Site Manager

5-9-00
Date

Daily Activity Summary	
Date: 5-05-00	Report No.: 36
Project Name: ESI/SI	Weather: 60°F to 75°F, Overcast, light rain.

Personnel	Hrs.	Affiliation	Personnel	Hrs.	Affiliation
B. Meyers	2	E & E			
J. Mays	8	E & E			
Al Kimbla	7	Maxim			
Mike Elster	7	Maxim			
Rick Labocetta	10	E & E			
Chris Sansone	8	E & E			
Reed Lyday	10	E & E			

Summary of Activities		
Equipment	Site/Task	Activities Performed
OVA	AOC 9.	Drilled and sampled 2 Vert. Profile Geoprobe borings at AOC 9. Drilled and installed AOC 9-MW08 at GP28I location.
Draeger pump/VC tubes		
O ₂ /H ₂ S/Explosimeter		
Water level indicator		
OVA	AOI 7.	Re-Purged and Re-sampled monitoring well G007-MW03.
Water level indicator		
Well Wizard Micro Purge		

Daily Activity Summary	
Date: 5-05-00	Report No.: 36
Project Name: ESI/SI	Weather: 60°F to 75°F, Overcast, light rain.

Field Tests Performed (Sample's, Field Screening, Chemical testing, Etc.)
Analyzed Geoprobe GW samples in on site lab for SW8021B.
Performed low flow purging of monitoring wells prior to sampling.
Work Delays (Due To Weather, Maintenance, Breakdowns, Waiting For Decisions)
None.
Problems Encountered And Deviations From Work Plan
None.
Written And Verbal Instruction By The Government
Fax monitoring well purge data daily to R. Pender for review.
Safety Issues
None.
Planned Activities For Next Work Day
Begin sampling wells at AOC 9 and the On Base GW AOC.
Remarks: (Visitors, Completion Of Field Work At An AOC, Etc.)
Completed ESI GW sampling.

Bob Meyers
Site Manager

5-9-00
Date

Daily Activity Summary	
Date: 5-08-00	Report No.: 37
Project Name: ESI/SI	Weather: 60°F to 75°F, Sunny.

Personnel	Hrs.	Affiliation	Personnel	Hrs.	Affiliation
B. Meyers	12	E & E			
J. Mays	12	E & E			
Al Kimbla	7	Maxim			
Mike Elster	7	Maxim			
Rick Labocetta	12	E & E			
Chris Sansone	12	E & E			
Lea Angelaki	12	E & E			

Summary of Activities		
Equipment	Site/Task	Activities Performed
OVA	AOC 9.	Purged and sampled AOC9-MW06. Dev. AOC9-MW08.
Water level indicator		
Well Wizard Micro Purge		
OVA	On Base GW AOC.	Purged and sampled monitoring well WSAMW-8.
Water level indicator		
Well Wizard Micro Purge		

Daily Activity Summary	
Date: 5-08-00	Report No.: 37
Project Name: ESI/SI	Weather: 60°F to 75°F, Sunny.

Field Tests Performed (Sample's, Field Screening, Chemical testing, Etc.)
Performed low flow purging of monitoring wells prior to sampling.
Work Delays (Due To Weather, Maintenance, Breakdowns, Waiting For Decisions)
Slow sampling day due to the breakdown of one of the Micro purge systems.
Problems Encountered And Deviations From Work Plan
None.
Written And Verbal Instruction By The Government
Fax monitoring well purge data daily to R. Pender for review.
Safety Issues
None.
Planned Activities For Next Work Day
Continue sampling wells at AOC 9 and the On Base GW AOC.
Remarks: (Visitors, Completion Of Field Work At An AOC, Etc.)
None.

Bob Meyers
Site Manager

5-9-00
Date

Daily Activity Summary	
Date: 5-09-00	Report No.: 38
Project Name: ESI/SI	Weather: 75°F to 85°F, Rain and T-Storms.

Personnel	Hrs.	Affiliation	Personnel	Hrs.	Affiliation
B. Meyers	12	E & E			
J. Mays	12	E & E			
Rick Labocetta	12	E & E			
Chris Sansone	12	E & E			
Lea Angelaki	12	E & E			

Summary of Activities		
Equipment	Site/Task	Activities Performed
OVA	On Base GW AOC.	Purged and sampled the three new monitoring wells.
Water level indicator		
Well Wizard Micro Purge		

Daily Activity Summary	
Date: 5-09-00	Report No.: 38
Project Name: ESI/SI	Weather: 75°F to 85°F, Rain and T-Storms.

Field Tests Performed (Sample's, Field Screening, Chemical testing, Etc.)
Performed low flow purging of monitoring wells prior to sampling.
Began Survey activities at EOD Range 2 and ESI sites.
Work Delays (Due To Weather, Maintenance, Breakdowns, Waiting For Decisions)
Slow sampling day due to the breakdown of one of the Micro purge systems.
Problems Encountered And Deviations From Work Plan
None.
Written And Verbal Instruction By The Government
Fax monitoring well purge data R. Pender for review.
Safety Issues
None.
Planned Activities For Next Work Day
Continue sampling wells at AOC 9.
Remarks: (Visitors, Completion Of Field Work At An AOC, Etc.)
Completed all sampling at the On Base GW AOC.

Bob Meyers
Site Manager

5-17-00
Date

Daily Activity Summary	
Date: 5-10-00	Report No.: 39
Project Name: ESI/SI	Weather: 65°F to 80°F, Heavy Rain and Hail Storm (1.75" hail).

Report No.: 39

Weather: 65°F to 80°F, Heavy Rain and Hail Storm (1.75" hail).

[illegible]

Summary of Activities		
Equipment	Site/Task	Activities Performed
OVA	AOC 9.	Purged and sampled the monitoring wells AOC9-MW05 and MW07.
Water level indicator		
Well Wizard Micro Purge		
OVA	AOC 9.	Collected surface water and sediment samples AOC9-SW/SD09 through SW/SD12.
Ph, Temp, and Conductivity meter.		
Turbidity meter.		

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Daily Activity Summary	
Date: 5-10-00	Report No.: 39
Project Name: ESI/SI	Weather: 65°F to 80°F, Heavy Rain and Hail Storm (1.75" hail).

Field Tests Performed (Sample's, Field Screening, Chemical testing, Etc.)
Performed low flow purging of monitoring wells prior to sampling.
Continued Survey activities at ESI sites.
Work Delays (Due To Weather, Maintenance, Breakdowns, Waiting For Decisions)
Slow sampling day due to the intense hail and thunder storms.
Problems Encountered And Deviations From Work Plan
Had to have one of the field trucks towed off of AOC 9 due to the large amount of rain.
Written And Verbal Instruction By The Government
Fax monitoring well purge data R. Pender for review.
Safety Issues
None.
Planned Activities For Next Work Day
Continue sampling wells at AOC 9.
Remarks: (Visitors, Completion Of Field Work At An AOC, Etc.)
None.

Bob Meyers
Site Manager

5-17-00
Date

Daily Activity Summary	
Date: 5-11-00	Report No.: 40
Project Name: ESI/SI	Weather: 55°F to 65°F, Drizzle.

Personnel	Hrs.	Affiliation	Personnel	Hrs.	Affiliation
B. Meyers	12	E & E			
J. Mays	12	E & E			
Chris Sansone	12	E & E			

Summary of Activities		
Equipment	Site/Task	Activities Performed
OVA	AOC 9.	Purged and sampled the monitoring wells G009-MW01 through MW04.
Water level indicator		
Well Wizard Micro Purge		

Daily Activity Summary	
Date: 5-11-00	Report No.: 40
Project Name: ESI/SI	Weather: 55°F to 65°F, Drizzle.

Field Tests Performed (Sample's, Field Screening, Chemical testing, Etc.)
Performed low flow purging of monitoring wells prior to sampling.
Continued Survey activities at ESI sites.
Work Delays (Due To Weather, Maintenance, Breakdowns, Waiting For Decisions)
None.
Problems Encountered And Deviations From Work Plan
None.
Written And Verbal Instruction By The Government
Fax monitoring well purge data R. Pender for review.
Safety Issues
None.
Planned Activities For Next Work Day
Begin Demob.
Remarks: (Visitors, Completion Of Field Work At An AOC, Etc.)
None.

Bob Meyers
Site Manager

5-17-00
Date

Daily Activity Summary	
Date: 5-15-00	Report No.: 41
Project Name: ESI/SI	Weather: 55°F to 65°F, Sunny.

Personnel	Hrs.	Affiliation	Personnel	Hrs.	Affiliation
B. Meyers	9.5	E & E			

Summary of Activities		
Equipment	Site/Task	Activities Performed
	AOC 9.	Staked all required locations and coordinated with survey team

Daily Activity Summary	
Date: 5-15-00	Report No.: 41
Project Name: ESI/SI	Weather: 55°F to 65°F, Sunny.

Field Tests Performed (Sample's, Field Screening, Chemical testing, Etc.)
Continued Survey activities at ESI sites.
Work Delays (Due To Weather, Maintenance, Breakdowns, Waiting For Decisions)
None.
Problems Encountered And Deviations From Work Plan
None.
Written And Verbal Instruction By The Government
Discuss hydropunch locations with T. Ferraro, and make a recommendation to the USACE.
Safety Issues
None.
Planned Activities For Next Work Day
Continue Demob.
Remarks: (Visitors, Completion Of Field Work At An AOC, Etc.)
None.

Bob Meyers
Site Manager

5-17-00
Date

Daily Activity Summary

Date: 5-16-00

Report No.: 42

Project Name: ESI/SI

Weather: 40°F to 62°F, Sunny.

[illegible]

Summary of Activities

[illegible]

Daily Activity Summary	
Date: 5-16-00	Report No.: 42
Project Name: ESI/SI	Weather: 40°F to 62°F, Sunny.

Field Tests Performed (Sample's, Field Screening, Chemical testing, Etc.)
Continued Survey activities at ESI sites.
Work Delays (Due To Weather, Maintenance, Breakdowns, Waiting For Decisions)
None.
Problems Encountered And Deviations From Work Plan
None.
Written And Verbal Instruction By The Government
None.
Safety Issues
None.
Planned Activities For Next Work Day
Continue Demob.
Remarks: (Visitors, Completion Of Field Work At An AOC, Etc.)
None.

Bob Meyers
Site Manager

5-17-00
Date

Daily Activity Summary	
Date: 5-17-00	Report No.: 43
Project Name: ESI/SI	Weather: 55°F to 65°F, Sunny.

Field Tests Performed (Sample's, Field Screening, Chemical testing, Etc.)
Continued Survey activities at SI sites.
Work Delays (Due To Weather, Maintenance, Breakdowns, Waiting For Decisions)
None.
Problems Encountered And Deviations From Work Plan
None.
Written And Verbal Instruction By The Government
C. Jerrard believes that landscaping is required at AOI 469, AOC 9, and the On Base GW AOC to repair tire ruts. C. Jerrard also believes that additional erosion control (additional soil/seed) and tree/brush removal may be necessary at PCI site 20 and OTH5485-2.
Safety Issues
None.
Planned Activities For Next Work Day
Continue Demob.
Remarks: (Visitors, Completion Of Field Work At An AOC, Etc.)
None.

Bob Meyers
Site Manager

5-18-00
Date

Daily Activity Summary

Date: 5-18-00

Report No.: 44

Project Name: ESI/SI

Weather: 64°F to 70°F, Rain-heavy at times.

[illegible]

Summary of Activities

[illegible]

Daily Activity Summary	
Date: 5-18-00	Report No.: 44
Project Name: ES/SI	Weather: 64°F to 70°F, Rain-heavy at times.

Field Tests Performed (Sample's, Field Screening, Chemical testing, Etc.)
Completed Survey activities at SI sites.
Note: hydropunch location AOC9-HYD2 was surveyed in 37.5 feet down stream (SMC) from the location that AOC9-HYD2 will actually be drilled if time permits.
Work Delays (Due To Weather, Maintenance, Breakdowns, Waiting For Decisions)
Could not collect final round of water levels and attach well tags at AOC 9 and the On Base GW AOC today due to the wet conditions.
Problems Encountered And Deviations From Work Plan
None.
Written And Verbal Instruction By The Government
None.
Safety Issues
None.
Planned Activities For Next Work Day
Complete drilling activities late next week and complete Demob.
Remarks: (Visitors, Completion Of Field Work At An AOC, Etc.)
None.

Bob Meyers
Site Manager

5-18-00
Date

XXXXXXXXXX

G

Field Adjustment Forms

XXXXXXXXXX

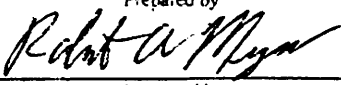
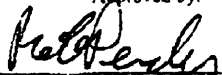
ESI/SI former Griffiss AFB Field Adjustment Form

To: Mr. Douglas M. Pocze USEPA - Region 2 Federal Facilities Section 28 Federal Plaza New York, New York 10278 Fax: 212/637-4360 Office: 212/637-4432	Mr. Jonathan Greco NYSEDEC Bureau of Eastern Remedial Action 50 Wolf Road Albany, New York 12233-7010 Fax: 518/457-1088 Office: 518/457-3976
From: Mr. Michael McDermott 416 CES/CEVR 153 Brooks Road Griffiss AFB, NY 13441-4105 Fax: 315/330-3410 Office: 315/330-2098	Date: <u>16 March 2000</u> Time: <u>1000</u>
Site: <u>AOI 469</u>	FSP Section: <u>Page 3-25</u>

Need for Field Adjustment

Per the request of the regulatory agencies, ~~two~~ continuous soil samples will be collected from two AOI 469 soil borings. These locations will be located where near surface samples show elevated levels of COPCs, or centered on the north or east side of the investigation area. Samples will be collected at the following depths:

- 0 - 2"
- 2" - 2'
- 2' - 4'
- 4' - 6'
- 6' - 8'
- 8' - 10'
- 10' - 12'
- 12' - 14' (anticipated water table)

Prepared by: 	Organization: E & E	Date: 16 March 2000
Approved by: 	Org: USACE	Date: 3/17/2000

ES/IS Former Griffiss AFB Field Adjustment Form		
To: Mr. Douglas M. Pocze USEPA - Region 2 Federal Facilities Section 290 Broadway New York, New York 10007 Fax: (212) 637-3256 Office: (212) 637-4432	Mr. Jonathan Greco NYSDEC Bureau of Eastern Remedial Action 50 Wolf Road Albany, New York 12233-7010 Fax: (518) 457-8990 Office: (518) 457-3976	
From: Mr. Michael McDermott AFBCA 153 Brooks Road Griffiss AFB, NY 13441-4105 Fax: (315) 330-4062 Office: (315) 330-2275	Contract No: DACW41-99-D-005 Task Order 0001- Former Griffiss AFB WAD 03 Field Adjustment Form No: <u>2</u>	
Site: AOI 469	FSP Section: Page 3-25	
Date: <u>3-27-2000</u>	Time: <u>0800</u>	
<u>Need for Field Adjustment</u> Eleven soil borings will be drilled and sampled down to the water table at AOI 469 as described in the Field Adjustment Form dated March 16, 2000. However, the proposed method of collecting the subsurface soil samples (Geoprobings w/macro core sampling), did not have sufficient recovery for sampling. Therefore, the remaining 10 soil borings at AOI 469 will be drilled and sampled with the approved hollow stem auger/Splitspoon collection methods described in section 4.7 of the Field Sampling Plan (E & E February 2000).		
<u>Technical Justification/Impact</u> None: Integrity of sample quality will be maintained with this change.		
<u>Cost/Schedule Impact</u> Split spoon sampling may require an additional level of effort due to decontamination requirements for this method. No schedule impact with this change.		
Prepared by: Robert A Meyers	Organization E & E Inc.	Date: 3-27-00
Approved by: <i>Robert A Meyers</i>	Org: USACE	Date: <u>3/27/2000</u>

H IDW (Investigation-derived Waste) Inventory

Investigation Derived Waste Inventory

Expanded Site Investigation

1. AOI431 Drum #1

Plastic sheeting, soil, 5 gallon steel pail with black tar.
Generated 4/5/00

2. AOI431 Drum #2

Soil and plastic sheet, 1/3 full.
Generated 5/16/00

3. AOI469 Drum #3

Drill Cuttings (soil), ¼ full.
Generated 4/18/00

I Area of Interest (AOI) 469 Lead Screening

Assessment of Adult Exposure to Lead in Soil at AOI 469, Griffiss AFB

Lead concentrations greater than 400 mg/kg were found in four of 22 surface soil samples collected at AOI 469. All of the elevated lead concentrations were found right next to Building 112, three at the northeast corner and one along the east side, and there is evidence that the source is deteriorating paint from the building (i.e. paint chips visible in soil near the building).

The 400 mg/kg screening level is recommended for lead in residential soil by the existing Revised Interim Soil Lead Guidance for CERCLA and RCRA Corrective Action Facilities, a directive issued in 1994 by EPA's Office of Solid Waste and Emergency Response (OSWER Directive 9355.4-12). This residential soil screening level was based on a prediction of blood lead levels in young children exposed to lead in soil and other media, using conservative exposure input assumptions, from EPA's Integrated Exposure Uptake Biokinetic (IEUBK) model. It was derived to limit exposure to soil lead so that the chance of a blood lead level exceeding 10 mg/dL in a full-time child resident would be no greater than 5%. The 400-ppm screening level is not intended to be a cleanup level for CERCLA and RCRA sites, but only to serve as an indicator that further study is appropriate. Since the model predictions are based on long-term average exposure, this protective screening concentration should be interpreted as an average soil lead concentration across an exposure area (e.g. a residential yard) rather than an upper limit for individual locations. Generally, when the average lead concentration in a residential yard is less than 400 ppm, no further action is required, but when the soil lead level is higher, OSWER recommends further evaluation using site-specific information (for lead concentrations in other exposure media and other input assumptions) in the IEUBK model.

EPA has also used IEUBK model predictions to establish the hazard standards for lead in residential dust and soil required under Section 403 of the Toxic Substances Control Act (TSCA) enacted as part of the Residential Lead-Based Paint Hazard Reduction Act of 1992. In the final rule (EPA 2001), EPA establishes the following standards for bare soil on residential property or on the property of a child-occupied facility: a hazard standard of 400 ppm (mg/kg) in play areas and an average of 1200 ppm of bare soil in the rest of the yard. The preamble to the final rule states that "...400 ppm is below the level at which EPA believes that across-the-board yard-wide abatement and its associated expenditures of resources are justified...". In establishing 1200 ppm as the standard for non-play areas of the yard (and not the higher 2000 ppm level that had been proposed), EPA recognizes the model's sensitivity to certain data and exposure assumptions, and the uncertainties associated with those assumptions and the determination of benefits (risk

reduction) from remediation to lower soil lead levels. To the extent to which children's exposure to soil is greater in the play area relative to the rest of the yard, EPA believes that establishing a stringent soil lead standard in the play area and a higher standard outside of the play area is more cost-effective and protective of children's health than a single soil lead standard.

EPA uses the IEUBK model where land use is residential, because young children represent the subpopulation at greatest risk from lead exposure. However, application of the IEUBK model or standards derived from that model is not appropriate for non-residential sites where children are unlikely to be present on a regular basis. For such non-residential sites, EPA currently evaluates adult lead exposures by using a modified version of the predictive biokinetic uptake model developed by Bowers *et al.* (1994) to calculate a risk-based preliminary remediation goal (PRG) for lead in soil based on potential lead exposures of pregnant women or women of child-bearing age in the workplace. The soil lead PRG generated by this adult lead model represents a long term exposure concentration corresponding to a maternal blood lead level that is considered to be adequately protective of the fetus.

The equation and parameter values used in EPA's adult lead model, along with a brief rationale for each input value, and the PRG calculated for lead in soil at AOI 469, are presented in Table 1. The input parameter values were estimated from United States population data and site-specific information. A more detailed discussion of the methodology and parameter values can be found in Attachment A. From these input values, the model calculates a PRG for lead in soil of 1434 mg/kg. As with the residential screening value, the PRG for workers should be interpreted as a long-term average soil lead exposure concentration that should be compared to the average concentration over an exposure area of reasonable size. Potential risks to workers at AOI 469 can be evaluated by comparing site soil lead concentrations to this PRG.

Only the maximum lead concentration detected at AOI 469 (1880 mg/kg in sample NS10 at the northeast corner of Building 112) was greater than the PRG. Given that samples collected from surrounding locations only 15 feet from NS 10 had considerably lower concentrations, the maximum concentration appears to represent a small area that would likely account for just a small fraction of the total exposure of a site worker to lead in soil over time. It is more reasonable to expect that long-term worker exposures would include soil contact over a much wider area extending away from the building where lead concentrations rapidly fall off to less than 100 mg/kg. Based on the available surface soil data, which were collected from sample locations close to the building (all within 40 feet and the majority within 15 feet, including those with the highest lead concentrations), the 95 % upper confidence limit of the mean lead concentration in soil in the

area sampled (considered to be a conservative upperbound estimate of average long-term exposure) is 746 mg/kg, about half as great as the worker PRG. The actual long-term exposure concentration for site workers is likely to be considerably lower than this estimate, since the exposure area would be expected to extend further out to areas that were not sampled, where the soil lead concentrations are presumably lower. Overall, the results indicate that the lead contamination at AOI 469 is unlikely to pose any significant health risk to workers.

ATTACHMENT A

Calculation of a PRG for Lead in Soil at AOI 469 based on Worker Exposure

Assessments of lead exposure at Superfund sites are often performed using EPA's IEUBK Model for Lead in Children (EPA 1994). Assessments of lead in residential areas are usually conducted for young children rather than for adults because typical activity patterns of children make them more likely to be exposed to lead in soil and dust, and because children are more sensitive to the toxic effects of lead than are adults. However, at non-residential sites, where significant exposures to children are not anticipated, the IEUBK model is not an appropriate method for assessment of potential risks from lead exposure.

Currently, EPA's recommended approach for assessing non-residential adult risks from lead utilizes a methodology to relate soil lead concentrations to blood lead concentrations in women of child-bearing age. It is based on a predictive biokinetic uptake model developed by Bowers *et al.* (1994) that used medium-specific ingestion and absorption parameters and a biokinetic slope factor that relates lead uptake into the body to lead levels in blood. EPA has modified the Bowers model to calculate a preliminary remediation goal (PRG) for lead in soil that is based on potential lead exposures of pregnant women or women of child-bearing age in the workplace, which is intended to be protective of a developing fetus.

The equation used to calculate the PRG is as follows:

$$PRG_s = \frac{(PbB_{GM\text{target}} - PbB_o) \times 365 \text{ days/year}}{BKSF \times ((IR_s \times AF_s \times EF_s) + (K_{sd} \times IR_d \times AF_d \times EF_d))}$$

where:

PRG_s = Preliminary remediation goal for lead in soil (micrograms per gram [$\mu\text{g/g}$] or milligrams per kilogram [mg/kg]);

$PbB_{GM\text{target}}$ = Target geometric mean blood lead level in a population of pregnant women or women of child-bearing age exposed to lead-contaminated soil/dust via occupational activities (micrograms per deciliter [$\mu\text{g/dL}$]);

PbB_o = Baseline blood lead value in women not exposed to site lead (micrograms per deciliter [$\mu\text{g/dL}$]);

$BKSF$ = Biokinetic slope factor ($\mu\text{g/dL}$ per $\mu\text{g/day}$);

IR_s = Soil ingestion rate (g/day);

AF_s = Absolute absorption fraction of lead in soil (unitless);

EF_s = Soil exposure frequency (days/year);

K_{sd} = Ratio of lead concentration in dust to that in soils;

IR_d = Dust ingestion rate (g/day);

AF_d = Absolute absorption fraction of lead in dust (unitless); and

EF_d = Dust exposure frequency (days/yr).

If we assume that the concentration of lead in indoor dust is the same as the concentration in outdoor soil (or that soil/dust exposure is predominantly from outdoor soil contact), the PRG calculation may be simplified to:

$$PRG_s = \frac{(PbB_{GM\ target} - PbB_o) \times 365\ days/year}{BKSF \times (IR_s \times AF_s \times EF_s)}$$

The target blood lead level in the female worker corresponds to a level that would be protective to a fetus based on the potential for transfer of maternal blood lead across the placenta to the unborn fetus. The relationship between maternal blood lead level and fetal blood lead level can be described as follows:

$$PbB_{GMmaternal} = PbB_{95thfetal} / (R \times GSD_i^{1.645})$$

where:

$PbB_{95thfetal}$ = the 95th percentile fetal blood lead level ($\mu g/dL$);

R = ratio of fetal blood lead level to maternal blood lead level (unitless)

GSD_i = Geometric standard deviation of maternal blood lead levels in the exposed population (unitless);

Specific input values used in the PRG calculation for AOC 469 are presented in Table 1. Due to the lack of site-specific information, some input parameter values were estimated from

United States population data. A discussion of the key parameter values used in the model is presented below.

A value of 10 $\mu\text{g/dL}$ was selected for the 95th percentile of blood lead in the fetus (**PbB_{95th fetal}**) to correspond to the level of concern specified for blood lead in children by the Centers for Disease Control and Prevention (CDC 1991). The ratio of blood lead in fetal blood to maternal blood (**R**) of 0.9 was estimated by Goyer (1990) based on data from studies of the relationship of blood lead levels in the umbilical cord and maternal blood lead levels (Graziano 1990).

The **GSD_i** is a measure of inter-individual variability in a population exposed to the same non-residential soil lead levels. In the absence of site-specific data, the **GSD_i** may be extrapolated from estimates based on other surrogate populations. The **GSD_i** of 1.9 derived from analysis of NHANES III Phase 1 data for white non-Hispanic women between the ages of 20 and 49 (Brody *et al* 1994) was selected for women working at this site. This is a reasonable value since site workers are expected to be geographically and socioeconomically homogeneous, and the local population is predominantly (>90%) white. Using the input values described above for **PbB_{95th fetal}**, **R**, and **GSD_i**, a target geometric mean blood lead level (**PbB_{GM target}**) of 3.87 $\mu\text{g/dL}$ was calculated.

Geometric mean blood levels (**PbB₀**) for women of child-bearing age (20 to 49) reported in NHANES III varied by race/ethnicity. The baseline blood lead level **PbB₀** of 1.8 $\mu\text{g/dL}$ is consistent with the levels reported in white non-Hispanic women on the US -- a geometric mean blood lead concentration of 1.7 $\mu\text{g/dL}$, within a 95% confidence interval of 1.6 – 1.9 $\mu\text{g/dL}$ data (Brody *et al* 1994). The biokinetic slope factor (**BKSF**) relates uptake of lead into the body to blood lead levels. While **BKSFs** for adults have not been directly measured, estimates range from 0.3 to 0.5. The EPA-recommended default **BKSF** value of 0.4 $\mu\text{g/dL}$ per $\mu\text{g/day}$ is based on estimates made by Bowers *et al* (1994) from data reported by Pocock *et al* (1983).

The absolute absorption fraction of lead in soil (**AF_s**) of 0.12 is based on the assumption that the absorption factor for soluble lead (**AF_{soluble}**) is 0.2, and that the relative bioavailability of lead in soil (**RBF_{soil/soluble}**) is 0.6. The values assumed for soil ingestion (**IR_s**) and exposure frequency (**EF_s**) are the standard default values recommended for worker central tendency exposures (EPA 1993).

Using all of the input values described above, the model calculated a **PRG_s** of 1434 mg/kg for AOC 469.

REFERENCES

- Bowers, T.S., B.D. Beck, and H. S. Karam, 1994, Assessing the Relationship between Environmental Lead Concentrations and Adult Blood Lead Levels. *Risk Analysis* 14(2): 183-189.
- Brody, D.J., J.L. Pirkle, R.A. Kramer, K.M. Flegal, T.D. Matte, E.W. Gunter, and D.C. Paschals, 1994, Blood Lead Levels in the U.S. Population - Phase I of the Third National Health and Nutrition Examination Survey (NHANES III, 1988 to 1991). *Journal of the American Medical Association* 272(4): 277-283.
- Centers for Disease Control (CDC), 1991, *Preventing Lead Poisoning in Young Children*, U.S. Department of Health and Human Services, Atlanta, Georgia.
- Goyer, R.A., 1990, Transplacental Transport of Lead. *Environmental Health Perspectives* 89: 101-105.
- Graziano, J.H., D. Popovac, P. Factor-Litvak, et al, 1990, Determinants of Elevated Blood Lead during Pregnancy in a Population Surrounding a Lead Smelter. *Environmental Health Perspectives* 89: 95-100.
- Pocock, S.J., et al., 1983, Effects of Tap Water Lead, Water Hardness, Alcohol, and Cigarettes on Blood Lead Concentrations. *J. Epi. Comm. Health* 37:1-7.
- United States Environmental Protection Agency (EPA), 2001, *Lead; Identification of Dangerous Levels of Lead; Final Rule*, 40 CFR Part 745, pp. 1206-1240, January 5, 2001.
- _____, 1997, *Exposure Factors Handbook*, EPA/600/P-95/002F, Office of Research and - Development, Washington D.C.
- _____, 1996, *Recommendations of the Technical Workgroup for Lead for an Interim Approach to Assessing Risks Associated with Adult Exposures to Lead in Soil*, Office of Solid Waste and Emergency Response/Office of Emergency and Remedial Response (OSWER/OERR), Washington, D.C.
- _____, 1994, *Guidance Manual for The Integrated Exposure Uptake/Biokinetic Model for Lead in Children*, EPA/540/R-93/081, Office of Emergency and Remedial Response, Washington, D.C.
- _____, 1993, *Superfund's Standard Default Exposure Factors for the Central Tendency and Reasonable Maximum Exposure*, Preliminary Review Draft, May 5, 1993.
- _____, 1991, *Update on OSWER Soil Lead Cleanup Guidance*, OSWER Directive 9355.4-02a, Office of Solid Waste And Emergency Response, Washington, D.C.

Table 1

Calculation of Worker PRG for Lead in Soil at Griffiss AFB AOC 469

*Equation based on Eq. 3 and Eq. 4 in USEPA (1996).

$$\text{PRG} = \frac{([\text{PbB}_{95\text{fetal}}/(\text{R} \cdot \text{GSD}_i^{1.645})] - \text{PbB}_0) \cdot \text{AT}_s}{\text{BKSF} \cdot (\text{IR}_s \cdot \text{AF}_s \cdot \text{EF}_s)}$$

Exposure Variable	Description of Exposure Variable	Units	Using Equation 1 Values	Rationale/Source
$\text{PbB}_{\text{fetal}, 0.95}$	95 th percentile PbB in fetus	ug/dL	10	Level of concern for blood lead in children (EPA 1994C, 1991a).
$\text{R}_{\text{fetal/maternal}}$	Fetal/maternal PbB ratio	--	0.9	Recommended default based on maternal/cord blood lead data (Goyer 1990; Graziano <i>et al</i> 1990; EPA 1996).
BKSF	Biokinetic Slope Factor	ug/dL per ug/day	0.4	Recommended default based on data on drinking water intake/blood lead levels (Pocock <i>et al</i> 1983; EPA 1996).
GSD_i	Geometric standard deviation PbB	--	1.9	GSD derived from NHANES III phase 1 data on non-Hispanic white women of child-bearing age (Brody <i>et al</i> 1994).
PbB_0	Baseline PbB	ug/dL	1.8	Upper mid-range of blood lead levels in non-Hispanic white women of child-bearing age (Brody <i>et al</i> 1994).
IR_s	Soil ingestion rate (including soil-derived indoor dust)	g/day	0.050	Recommended default value for worker central tendency exposure (EPA 1997).
AF_s	Absorption fraction (same for soil and dust)	--	0.12	Recommended default value, based on soluble lead absorption of 0.2 and relative soil lead bioavailability of 0.6 (EPA 1996).
EF_s	Exposure frequency (same for soil and dust)	days/yr	219	Recommended value based on average time spent at work by both full-time and part-time workers (EPA 1993).
AT_s	Averaging time (same for soil and dust)	days/yr	365	Exposure assumed to occur throughout the year.
PRG	Preliminary Remediation Goal	ppm	1,434	

*Equation 1, based on Eq. 4 in USEPA (1996).

$$PRG = \frac{([PbB_{95fetal}/(R*(GSD_i^{1.645}))]-PbB_0)*AT_{S,D}}{BKSF*(IR_{S+D}*AF_{S,D}*EF_{S,D})}$$

**Equation 2, alternate approach based on Eq. 4 and Eq. A-19 in USEPA (1996).

$$PRG = \frac{([PbB_{fetal,0.95}/(R*(GSD_i^{1.645}))]-PbB_0)*AT_{S,D}}{BKSF*([(IR_{S+D})*AF_S*EF_S*W_S]+[K_{SD}*(IR_{S+D})*(1-W_S)*AF_D*EF_D])}$$

Exposure Variable	Description of Exposure Variable	Units	Using Equation 1 Values	Using Equation 1 Values	Using Equation 1 Values	Using Equation 1 Values	Using Equation 1 Values	Using Equation 2 Values
PbB _{fetal, 0.95}	95 th percentile PbB in fetus	ug/dL	10	10	10	10	10	10
R _{fetal/maternal}	Fetal/maternal PbB ratio	--	0.9	0.9	0.9	0.9	0.9	0.9
BKSF	Biokinetic Slope Factor	ug/dL per ug/day	0.4	0.4	0.4	0.4	0.4	0.4
GSD _i	Geometric standard deviation PbB	--	2.1	2.0	2.0	1.9	1.9	1.9
PbB ₀	Baseline PbB	ug/dL	2.0	2.0	1.9	1.9	1.8	1.8
IR _S	Soil ingestion rate (including soil-derived indoor dust)	g/day	0.050	0.050	0.050	0.050	0.050	--
IR _{S+D}	Total ingestion rate of outdoor soil and indoor dust	g/day	--	--	--	--	--	0.050
W _S	Weighting factor; fraction of IR _{S+D} ingested as outdoor soil	--	--	--	--	--	--	0.5
K _{SD}	Mass fraction of soil in dust	--	--	--	--	--	--	0.7
AF _{S,D}	Absorption fraction (same for soil and dust)	--	0.12	0.12	0.12	0.12	0.12	0.12
EF _{S,D}	Exposure frequency (same for soil and dust)	days/yr	219	219	219	219	219	219
AT _{S,D}	Averaging time (same for soil and dust)	days/yr	365	365	365	365	365	365
PRG	Preliminary Remediation Goal	ppm	888	1,078	1,148	1,365	1,434	1,688