DEPARTMENT OF THE AIR FORCE
AIR FORCE CIVIL ENGINEER CENTER

JAN 15 2013

MEMORANDUM FOR: U.S. Environmental Protection Agency – Region 2
Attn: Robert Morse
Federal Facilities Section
290 Broadway, 18 Floor
New York, NY 10007-1866

New York State Department of Environmental Conservation
Attn: Ms. Heather Bishop
Division of Environmental Remediation
625 Broadway 11th Floor
Albany, NY 12233-7015

RECEIVED
JAN 16 2013

FROM: AFCEC/CZRB - Griffiss
706 Brooks Road
Rome, New York 13441

SUBJECT: Final Site Debris Removal and Soil Sampling Report
Area of Interest 474
Former Griffiss Air Force Base (AFB) Rome, New York
Contract Number FA8903-10-D-8595
Delivery Order 0014

1. Please refer to my letter dated December 20, 2012 and my transmittal letter dated October 5, 2012. Enclosed is the "Final Site Debris Removal and Soil Sampling Report for AOI 474".

2. The overall objective of this effort is the removal of a debris pile located at Landfill #2/3 and the collection of soil samples to determine if further investigation is necessary.

3. Request that final review comments, if any, be provided not later than February 15, 2013.

4. Should you have any questions or concerns please contact me at 315 356 0810 ex 202.

MICHAEL F. MCDERMOTT
Air Force Civil Engineer Center
AFCEC/CZRB Griffiss

Enclosures as noted.

FINAL

SITE DEBRIS REMOVAL AND SOIL SAMPLING REPORT
AREA OF INTEREST 474

FORMER GRIFFISS AIR FORCE BASE SITE
ROME, NEW YORK

Prepared for:

Air Force Civil Engineering Center
706 Brooks Road
Rome, New York 13441

Prepared by:

FPM Remediations Inc.
584 Phoenix Drive
Rome, NY 13441

In association with:

CAPE

10901 Lowell Avenue, Suite 271
Overland Park, Kansas 66210

Contract Number FA8903-10-D-8595/
Delivery Order 0014

January 2013

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LIST OF ACRONYMS AND ABBREVIATIONS

AFCEC	Air Force Civil Engineering Center
AOC	Area of Concern
AOI	Area of Interest
bgs	below ground surface
cy	cubic yard
FPM	FPM Remediations, Inc.
LTM	Long Term Monitoring
NYCRR	New York Codes, Rules, and Regulations
OHSWA	Oneida Herkimer Solid Waste Authority
PCBs	Polychlorinated Biphenyls
SCOs	Soil Clean up Objectives
SVOCs	Semi-Volatile Organic Compounds
TCLP	Toxicity Characteristic Leaching Procedure
UFP QAPP	Uniform Federal Policy Quality Assurance Project Plan
USEPA	United States Environmental Protection Agency
VOCs	Volatile Organic Compounds

1.0 INTRODUCTION

FPM Remediations, Inc. (FPM), in association with CAPE, Inc., under contract with the Air Force Civil Engineering Center (AFCEC), is conducting a site cleanup and sampling at Area of Interest (AOI) 474. This site is adjacent to the LF002 (Landfill 2/3 Area of Concern (AOC)) as illustrated in Figure 1. The site is located within the LF2/3 AOC LUC/IC Site boundaries. The work at this site was conducted in accordance with provisions of the Basic Contract #FA8903-10-D-8595 and Delivery Order # 0014.

1.1 SITE BACKGROUND

This report describes the debris pile removal and associated soil sampling activities conducted at AOI 474 in March 2012. The debris pile adjacent to Landfill 2/3 was discovered during the 2009 Landfill 2/3 Long Term Monitoring (LTM) sampling event. The pile was approximately 25 feet by 25 feet with a height of approximately 2 feet. The pile was also located near a wetland. Debris within the pile included rusted empty 55 gallon drums, empty glass bottles, and household refuse. It is believed that the debris pile was a result of unauthorized dumping prior to base closure. Landfill 2/3 was operational from 1973 to 1982.

This site was not identified in the Basewide Environmental Baseline Survey for the Griffiss Air Force Base performed in 1994 and updated in 2005 (Air Force, September 1994 and November 2005).

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2.0 SITE WORK

The debris pile was removed on March 26, 2012 by field personal using manual equipment. Use of heavy equipment was limited to the use of a skid steer which was used for transporting removed waste to a staged roll off container. This approach was taken to minimize any impact to the adjacent wetland area. Subsequent soil sampling at the site was conducted on March 27, 2012. The field activities are detailed below. All daily field activities, soil sampling forms, and the daily quality control report are provided in Appendix B.

2.1 SITE DEBRIS REMOVAL

The debris pile was located near a wetland, therefore FPM removed the debris using procedures that protected this sensitive ecosystem. The debris consisted of three empty drums, numerous empty glass bottles, and empty pesticide cans. During removal, the primary personal protective equipment worn by the field personnel included modified level D as described in the approved Griffiss PBR Contract Health and Safety Plan (CAPE/FPM/AECOM, July 2011).

Removal of the debris was conducted by hand and taken to a 20 yard roll off container staged at the entrance of the Landfill 2/3 site. Given the long distance between the roll off container and the debris pile, the debris was transported using a tracked bobcat. The movements of the bobcat were limited to minimize surface disturbance of the area. Following the removal of the surface debris, a hand-held magnetometor was utilized to confirm removal of all metallic debris and aid in the identification of any remaining subsurface debris. All debris was limited to past surface disposal activities (dumping).

A photo log of the field work is provided in Appendix A. Field book notes from the disposal are provided in Appendix B.

2.2 SOIL SAMPLING

After removal of the surface debris the former debris pile location was divided into four equal sized grid cells for soil sampling (Figure 1). At each grid cell one composite sample comprised of five sample locations (one at the center and four from each side, Figure 1) were collected. Samples were collected from a depth interval of 0 to 2 ft below ground surface (bgs). In addition, three grab samples were also collected directly below drums removed from the site. One grab sample was collected from 0 to 1 ft bgs and one grab sample was collected from 1 to 2 ft bgs. The collected soil samples were analyzed for volatile organic compounds (VOCs) [United States Environmental Protection Agency (USEPA) Method SW8260], semi-volatile organic compounds (SVOCs) (USEPA Method SW8270), polychlorinated biphenyls (PCBs) (USEPA Method SW8082), metals (USEPA Method SW6010), and pesticides (USEPA Method SW8081). The soil sampling and sample analysis was conducted in accordance with the approved Griffiss PBR Contract Site Wide Uniform Federal Policy Quality Assurance Project Plan (UFP-QAPP) for Performance Based-Remediation at the former Griffiss AFB, New York, (CAPE/FPM/AECOM, July 2011).

2.2.1 Soil Sampling Results

The soil sampling data was compared to the Title 6 of the New York Codes, Rules, and Regulations (6 NYCRR) Part 375 (NYSDEC 2006) Residential use, Commercial use, and Industrial use Soil Cleanup Objectives (SCOs). Daily Chemical Quality Control Reports completed during the sampling event are provided in Appendix B. The validated laboratory data are attached in Appendix D and the raw laboratory data are available in Appendix E. Analytical results are summarized below are also presented in Table 1 (provided Table Section at the end of this report).

VOCs, PCBs, and Pesticides:
Results showed no exceedances of the 6-NYCRR Part 375 Residential use SCOs.

SVOCs:
Samples from Quadrant 2 and sampling locations 5 and 6 (0-1 ft bgs) showed SVOC concentrations above 6-NYCRR Part 375 Residential use SCOs. The SVOCs included dibenzo(a,h)anthracene, benzo(a)anthracene, benzo(a)pyrene, and benzo(b)fluoranthene. Dibenzo(a,h)anthracene concentrations at sampling locations 5 and 6 also exceeded the 6-NYCRR Part 375 Commercial use SCOs. The benzo(a)pyrene concentration also exceeded 6-NYCRR Part 375 Industrial use SCOs at sampling location 6.

Metals:
Samples from Quadrants 1, 2, 3, sampling location 5, 6, and 7 (0 – 1 ft bgs) showed metals concentrations above 6-NYCRR Part 375 Residential use SCOs and base-wide background metal concentrations (Law, December 1996). The metals included arsenic, barium, cadmium, chromium, copper, lead, manganese, nickel, zinc, and mercury. Exceedances of 6-NYCRR Part 375 Commercial use SCOs include barium, (Quadrant 1and sampling location 5). Arsenic (Quadrant 1 and Quadrant 3), mercury (Quadrants 1, 2, and sample location 5), and lead (sampling location 5) concentrations also exceeded 6-NYCRR Part 375 Industrial use SCOs.

2.3 DEBRIS DISPOSAL

The site debris was disposed of at the Oneida Herkimer Solid Waste Authority (OHSWA). The disposal receipt is provided in Appendix C. OHSWA requires characterization of debris containing soils. Since the debris was removed by hand, little to no soil was collected with the debris. Therefore, characterization of the glass and metal debris did require characterization for disposal with the OHSWA.

2.4 SITE RESTORATION

Site restoration was minimal since the debris was only found on the surface. Therefore, the removal of the debris and final grading of soil sampling locations using hand tools was the extent of the site restoration.

2.5 Conclusions and Recommendations

As a result of the debris pile, there were several SVOC and metals exceedances of the 6-NYCRR Part 375 Residential use and Commercial use SCOs with 1 SVOC (sampling location 6) and 4 metals (Quadrant 1, Quadrant 2, Quadrant 3, and sampling location 5) exceeding 6-NYCRR Part 375 Industrial use SCOs. The 6-NYCRR Part 375 Industrial use SCOs are the least stringent of the 6-NYCRR Part 375 SCOs. For the grab samples, the COC exceedances are isolated to the surface samples (0 to 1 ft bgs). Therefore, it is assumed that the contamination is isolated from 0 to 1 ft bgs throughout the site. It is recommended that the site be excavated to 1.5 ft bgs or until confirmatory soil sampling results shows COCs below the 6-NYCRR Part 375 Residential use SCOs.

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3.0 REFERENCES

Air Force, *Basewide Environmental Baseline Survey for the Griffiss Air Force Base,* September 1994.

Air Force, *Updated Basewide Environmental Baseline Survey for the Griffiss Air Force Base,* November 2005.

CAPE/FPM/AECOM, *Draft-Final Health and Safety Plan for Performance Based-Remediation at the former Griffiss AFB, New York,* July 2011.

CAPE/FPM/AECOM, *Final Uniform Federal Policy Quality Assurance Project Plan for Performance Based-Remediation at the former Griffiss AFB, New York*, November 2011.

FPM Group, Ltd., *Annual Long Term Monitoring Report (June 2008 through April 2009) for Landfill AOCs at the former Griffiss AFB*, November 2010.

Law, Remedial Investigation at the former Griffiss AFB, December 1996.

NYSDEC, Title 6 of the New York Codes, Rules, and Regulations Part 375, December 2006.

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Tables

AOI 474 Soil Sampling Results

Sample Location	NYCRR Part 375 Residential use Soil Cleanup Objectives	NYCRR Part 375 Commerical use Soil Cleanup Objectives	NYCRR Part 375 Industrial use Soil Cleanup Objectives	Quadrant 1	Quadrant 2	Quadrant 3	Quadrant 4	Grab Sample 5	Grab Sample 5	Grab Sample 6	Grab Sample 6	Grab Sample 7	Grab Sample 7
Sample ID				UNK10101AA	UNK10201AA	UNK10301AA	UNK10401AA	UNK10501AA	UNK10502AA	UNK10601AA	UNK10602AA	UNK10701AA	UNK10702AA
Date of Collection				3/27/2012	3/27/2012	3/27/2012	3/27/2012	3/27/2012	3/27/2012	3/27/2012	3/27/2012	3/27/2012	3/27/2012
Sample Depth (ft bgs)				0-2	0-2	0-2	0-2	0-1	1-2	0-1	1-2	0-1	1-2
SVOCs (µg/Kg)													
acenaphthene	100,000	500,000	1,000,000	31 J	40 J	33 J	U	U	U	1,300 J	32 J	U	U
acenaphthylene	100,000	500,000	1,000,000	42 J	130 J	U	U	U	U	U	U	U	U
anthracene	100,000	500,000	1,000,000	86 J	230 J	91 J	U	110 J	U	2,900 J	93 J	44 J	U
atrazine	--	--	--	U	U	U	U	U	U	U	U	U	U
benzaldehyde	--	--	--	U	U	U	U	U	U	U	U	U	U
benzidine	--	--	--	U	U	U	U	U	U	U	U	U	U
benzo(a)anthracene	1,000	5,600	11,000	270 J	740	190 J	U	350 J	U	**3,200**	210 J	64 J	U
benzo(a)pyrene	1,000	1,000	1,100	370 J	890	250 J	U	660 J	71 J	**2,300**	200 J	140 J	U
benzo(b)fluoranthene	1,000	5,600	11,000	770 J	**2,000 J**	460 J	640 J	**3,000 J**	160 J	**3,800 J**	340 J	740 J	130 J
benzo(k)fluoranthene	1,000	56,000	110,000	UJ	U	U J	U J	U J	U J	U J	U J	U J	U J
benzo(g,h,i)perylene	100,000	500,000	1,000,000	280 J	860	230 J	U	1,300 J	34 J	1,200 J	89 J	400 J	U
benzyl alcohol	--	--	--	52 J	83 J	130 J	100 J	U	17 J	J	24 J	40 J	26 J
bis(2-chloroethoxy) methane	--	--	--	U	U	U	U	U	U	U	U	U	U
bis(2-chloroethyl) ether	--	--	--	U	U	U	U	U	U	U	U	U	U
bis(2-chloroisopropy) ether	--	--	--	U	U	U	U	U	U	U	U	U	U
benzoic acid	--	--	--	U	1,900 J	4,400	U	U	U	U	U	U	U
bis(2-ethylhexyl) phthalate	--	--	--	U	U	U	U	U	99 J	540 J	100 J	U	110 J
benzyl butyl phthalate	--	--	--	U	U	U	U	U	U	U	U	130 J	U
caprolactam	--	--	--	U	U	U	U	U	U	U	U	U	U
carbazole	--	--	--	U	170 J	U	U	U	U	1,400 J	56 J	U	U
chrysene	1,000	56,000	110,000	370 J	**1,100**	250 J	U	920 J	U	**2,900**	200	280 J	U
di-n-butyl phthalate	--	--	--	U	U	100 J	290 J	U	U	U	U	900	U
di-n-octyl phthalate	--	--	--	U	U	U	U	U	U	U	U	U	U
dibenz(a,h)anthracene	330[c]	560	1,100	230 J	**360 J**	210 J	U	**920 J**	U	**970 J**	140 J	210 J	U
dibenzofuran	--	--	--	40 J	120 J	U	U	U	U	1,600 J	36 J	U	U
diethyl phthalate	--	--	--	U	U	U	U	U	U	U	U	U	U
dimethyl phthalate	--	--	--	U	U	U	U	U	U	U	U	U	U
fluoranthene	100,000	500,000	1,000,000	640	2,100	380 J	U	340 J	U	7,500	380	110 J	U
fluorene	100,000	500,000	1,000,000	46 J	100 J	49 J	U	U	U	1,800 J	38 J	U	U

AOI 474 Soil Sampling Results

Sample Location	NYCRR Part 375 Residential use Soil Cleanup Objectives	NYCRR Part 375 Commerical use Soil Cleanup Objectives	NYCRR Part 375 Industrial use Soil Cleanup Objectives	Quadrant 1	Quadrant 2	Quadrant 3	Quadrant 4	Grab Sample 5	Grab Sample 5	Grab Sample 6	Grab Sample 6	Grab Sample 7	Grab Sample 7
Sample ID				UNK10101AA	UNK10201AA	UNK10301AA	UNK10401AA	UNK10501AA	UNK10502AA	UNK10601AA	UNK10602AA	UNK10701AA	UNK10702AA
Date of Collection				3/27/2012	3/27/2012	3/27/2012	3/27/2012	3/27/2012	3/27/2012	3/27/2012	3/27/2012	3/27/2012	3/27/2012
Sample Depth (ft bgs)				0-2	0-2	0-2	0-2	0-1	1-2	0-1	1-2	0-1	1-2
SVOCs (µg/Kg)													
hexachlorobenzene	--	--	--	U	U	U	U	U	U	U	U	U	U
hexachlorobutadiene	--	--	--	U	U	U	U	U	U	U	U	U	U
hexachlorocyclapentadiene	--	--	--	U	U	U	U	U	U	U	U	U	U
hexachloroethane	--	--	--	U	U	U	U	U	U	U	U	U	U
indeno(1,2,3-c,d)pyrene	500	5,600	11,000	310 J	**760**	190 J	U	**1,300 J**	83 J	**1,300 J**	120 J	330 J	U
isophorone	--	--	--	U	U	U	U	U	U	U	U	U	U
n-nitrosodimethylamine	--	--	--	U	U	U	U	U	U	U	U	U	U
n-nitrosodiphenylamine	--	--	--	U	U	U	U	U	U	U	U	U	U
n-nitrosopyrrolidine	--	--	--	U	U	U	U	U	U	U	U	U	U
n-nitrosodi-n-propylamine	--	--	--	U	U	U	U	U	U	U	U	U	U
naphthalene	100,000	500,000	1,000,000	U	U	U	U	U	U	U		U	U
nitrobenzene	--	--	--	U	U	U	U	U	U	U	U	U	U
pentachlorophenol	2,400	6,700	55,000	U	U	U	U	U	U	U	U	U	U
phenanthrene	100,000	500,000	1,000,000	470 J	1,400	290 J	U	150 J	U	10,000	320 J	74 J	U
phenol	100,000	500,000	1,000,000	U	U	U	U	U	U	130 J	U	U	U
pyrene	100,000	500,000	1,000,000	550 J	1,600	320 J	88 J	370 J	U	5,900	320 J	95 J	U
4-methylphenol	--	--	--	U	U	U	U	U	U	U	U	U	U

Notes:

B - Result is a positive value, however, the analyte was detected in an associated blank above the RL.

F - The analyte was positively identified above the MDL, however, the concentration is below the RL.

J - The analyte was positively identified, but the quantitation is an estimation.

M - A matrix effect was present.

U - The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL.

UJ - The analyte was analyzed for, but not detected. The quantitation is an approximation.

Indicates an exceedance of the NYCRR Part 375 Residential use Soil Cleanup Objective

-- - No NYCRR Part 375 Soil Cleanup Objective is known for this compound.

AOI 474 Soil Sampling Results

Sample Location	NYCRR Part 375 Residential use Soil Cleanup Objectives	NYCRR Part 375 Commerical use Soil Cleanup Objectives	NYCRR Part 375 Industrial use Soil Cleanup Objectives	Background Screening Level	Quadrant 1	Quadrant 2	Quadrant 3	Quadrant 4	Grab Sample 5	Grab Sample 5	Grab Sample 6	Grab Sample 6	Grab Sample 7	Grab Sample 7
Sample ID					UNK10101AA	UNK10201AA	UNK10301AA	UNK10401AA	UNK10501AA	UNK10502AA	UNK10601AA	UNK10602AA	UNK10701AA	UNK10702AA
Date of Collection					3/27/2012	3/27/2012	3/27/2012	3/27/2012	3/27/2012	3/27/2012	3/27/2012	3/27/2012	3/27/2012	3/27/2012
Sample Depth (ft bgs)					0-2	0-2	0-2	0-2	0-1	1-2	0-1	1-2	0-1	1-2
Metals (mg/Kg)														
aluminum	--	--	--	18,306	2,300	2,800	2,200	2,500	3,300	4,500	3,100	5,700	2,900	5,100
antimony	--	--	--	3.4 U	6	1.1	3.9	0.22 J	0.74	0.26 J	0.16 J	U	0.98	U
arsenic	16	16	16	4.9	**30**	11	**28**	4.4	16	0.86	3.1	0.36	9.2	0.41 J
barium	350	400	10000	71	**3,400**	200	50	17	**490**	18	48	13	**360**	18
berylium	14	590	2,700	0.65	0.069 J	0.098 J	0.078 J	0.070 J	0.1 J	0.150	0.062 J	0.120	0.150	0.200
boron - total	--	--	--	--	U	U	U	U	U	1.8 J	2.2 J	1.6 J	U	1.9 J
cadmium	3	9.3	60	1.1 U	**5**	**6.7**	3	0.76 Q	1	0.28	**3.10**	0.47	1.8 Q	U
calcium	--	--	--	23,821	990	1,900	620	160	300	150	630	230	320	150
chromium	36	1,500	6,800	22.6	**96 J**	11	**72**	15	**37**	4.8	5.2	4.8	20	8.5
cobalt	--	--	--	19	28 J	9.1	22	2.2	6.0	1.2	1.4	1.6	7.2	1.9
copper	270	270	10,000	43.8	**330**	56	250	58	74	5.4	28	3.9	270	4.1
iron	--	--	--	47,350	240,000	200,000	250,000	57,000	77,000	6,900	14,000	5,300	58,000	2,100
lead	400	1,000	3,900	36	**800**	**1,800**	380	99	**5,100**	81	96	8.3	**1,100**	3.3
magnesium	--	--	--	7,175	200	310	230	240	250	910	220	1,400	150	590
manganese	2,000	10000	10000	2,106	1,800	350	1,100	95	360	38	410	250	280	44
molybdenum	--	--	--	6 U	5	1.3	11	2.9	3.4	0.1 J	0.410	0.067 J	3	0.11
nickel	140	310	10000	46	**180**	18	87	12	22	3.6	5.4	4.6	25	6.7
potassium	--	--	--	1,993	150 J	220 J	150 J	220 J	270 J	680	240	610	180 J	730
selenium	36	1,500	6,800	0.34	0.32 J	0.9	0.28 J	0.7 J	0.75 J	0.37 J	0.68 J	0.27J	0.67	0.64
silver	36	1,500	6,800	1.1U	0.880	0.320	0.240	0.250	0.290	U	0.092 J	U	0.120	0.065
sodium	--	--	--	259	U	U	U	U	U	U	U	U	U	U
thallium	--	--	--	0.5 U	0.099 J	0.110 J	0.092 J	0.086 J	0.120 J	0.040 J	0.062 J	0.038 J	0.078 J	0.043
vanadium	--	--	--	36	5.2 J	5.7	5.5	11	7	4.8	5.5	7.3	15	9
zinc	2,200	10000	10000	120	**3,700**	1,600	1,400	100	110	21	620	250	320	70
mercury	0.81	3	6	0.1 U	**0.82**	**15**	0.19	0.11	**0.83**	0.023 J	0.57	0.019 J	0.100	0.056
PCBs (µg/Kg)														
Aroclor 1016	1,000	1,000	25,000	--	U	U	U	U	U	U	U	U	U	U
Aroclor 1221	1,000	1,000	25,000	--	U	U	U	U	U	U	U	U	U	U
Aroclor 1232	1,000	1,000	25,000	--	U	U	U	U	U	U	U	U	U	U
Aroclor 1242	1,000	1,000	25,000	--	U	U	U	U	U	U	U	U	U	U
Aroclor 1248	1,000	1,000	25,000	--	U	U	U	U	U	U	U	U	U	U
Aroclor 1254	1,000	1,000	25,000	--	U	U	U	U	U	U	U	U	11 J	U
Aroclor 1260	1,000	1,000	25,000	--	U	U	U	U	U	U	U	U	U	U

AOI 474 Soil Sampling Results

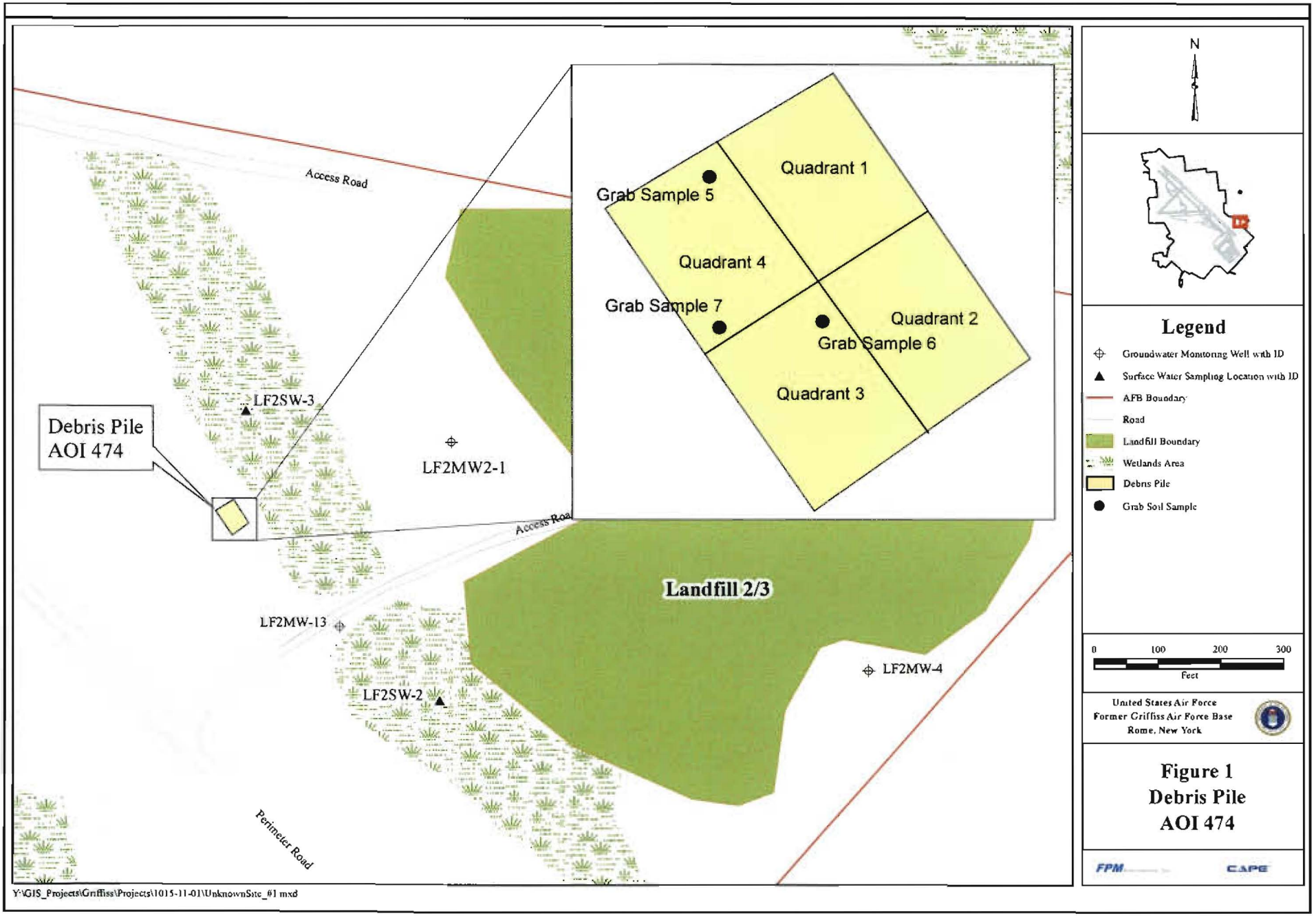
Sample Location	NYCRR Part 375 Residential use Soil Cleanup Objectives	NYCRR Part 375 Commerical use Soil Cleanup Objectives	NYCRR Part 375 Industrial use Soil Cleanup Objectives	Background Screening Level	Quadrant 1	Quadrant 2	Quadrant 3	Quadrant 4	Grab Sample 5	Grab Sample 5	Grab Sample 6	Grab Sample 6	Grab Sample 7	Grab Sample 7
Sample ID					UNK10101AA	UNK10201AA	UNK10301AA	UNK10401AA	UNK10501AA	UNK10502AA	UNK10601AA	UNK10602AA	UNK10701AA	UNK10702AA
Date of Collection					3/27/2012	3/27/2012	3/27/2012	3/27/2012	3/27/2012	3/27/2012	3/27/2012	3/27/2012	3/27/2012	3/27/2012
Sample Depth (ft bgs)					0-2	0-2	0-2	0-2	0-1	1-2	0-1	1-2	0-1	1-2
Pesticides (µg/Kg)														
alpha BHC (Alpha Hexachlorocyclo	97	3,400	6,800	--	U	U	U	U	U	U	U	U	U	U
beta BHC (Beta Hexachlorocyclohex	72	3,000	14,000	--	U	U	U	U	U	U	U	U	U	U
delta BHC (Delta Hexachlorocycloh	100,000	500,000	1,000,000	--	U	U	U	U	U	U	U	U	U	U
gamma BHC (Lindane)	--	--	--	--	U	U	U	U	U	U	U	U	U	U
alpha-Chlordane	910	24,000	47,000	--	U	U	U	U	U	U	U	U	U	U
gamma-Chlordane	--	--	--	--	U	U	U	U	U	U	U	U	U	U
p,p'-DDD	2,600	92,000	180,000	--	2 J	U	U	U	U	U	U	U	U	U
p,p'-DDE	1,800	62,000	120,000	--	13	0.52 J	1.1 J	1.7 JQ	2 J	U	U	U	5.6	U
p,p'-DDT	1,700	7,900	94,000	--	56	5 J	U	2.1 JQ	1.5 J	U	2.5 J	U	15	U
aldrin	19	680	1,400	--	U	U	U	U	U	U	U	U	U	U
dieldrin	39	1,400	2,800	--	0.74 J	U	U	U	U	U	U	U	0.39 J	U
endosulfan I	4,800	200,000	920,000	--	U	U	U	U	U	U	U	U	U	U
endosulfan II	4,800	200,000	920,000	--	U	U	U	U	U	U	U	U	U	U
endosulfan sulfate	4,800	200,000	920,000	--	U	U	U	U	U	U	U	U	U	U
endrin	2,200	89,000	410,000	--	U	U	U	U	U	U	U	U	U	U
endrin aldehyde	--	--	--	--	U	U	U	U	U	U	U	U	U	U
endrin ketone	--	--	--	--	U	U	U	U	U	U	U	U	U	U
heptachlor	--	--	--	--	U	U	U	U	U	U	U	U	U	U
heptachlor epoxide	--	--	--	--	U	U	U	U	U	U	U	U	U	U
methoxychlor	--	--	--	--	2.6 J	U	U	U	U	U	U	U	U	U
toxaphene	--	--	--	--	U	U	U	U	U	U	U	U	U	U

Notes:

B - Result is a positive value, however, the analyte was detected in an associated blank above the RL.
F - The analyte was positively identified above the MDL, however, the concentration is below the RL.
J - The analyte was positively identified, but the quantitation is an estimation.
M - A matrix effect was present.
U - The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL.
UJ - The analyte was analyzed for, but not detected. The quantitation is an approximation.
Indicates an exceedance of the NYCRR Part 375 Residential use Soil Cleanup Objective

-- - No NYCRR Part 375 Soil Cleanup Objective or Background Screening Level is knowu for this compound.

Figures


Access Road
Debris Pile
AOI 474
LF2SW-3
LF2MW2-1
Access Road
Quadrant 1
Grab Sample 5
Quadrant 4
Grab Sample 7
Quadrant 2
Grab Sample 6
Quadrant 3
Landfill 2/3
LF2MW-13
LF2SW-2
LF2MW-4
Perimeter Road
N
Legend
Groundwater Monitoring Well with ID
Surface Water Sampling Location with ID
AFB Boundary
Road
Landfill Boundary
Wetlands Area
Debris Pile
Grab Soil Sample
0
100
200
300
Feet
United States Air Force
Former Griffiss Air Force Base
Rome, New York
Figure 1
Debris Pile
AOI 474
FPM
CAPE
Y:\GIS_Projects\Griffiss\Projects\1015-11-01\UnknownSite_#1.mxd

Appendices are provided on CD.