DEPARTMENT OF THE AIR FORCE
AIR FORCE CENTER FOR ENGINEERING AND THE ENVIRONMENT

March 6, 2012

MEMORANDUM FOR: See Distribution List

FROM: AFCEE/EXC - Griffiss
Building 770
428 Phoenix Drive
Rome, New York 13441

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

1. Accompanying this letter please find the "Final Site Debris Removal and Soil Sampling Work Plan for AOI 474", formerly referred to as "Work Plan for Debris Pile Removal for Unknown Site #1", for your review and comment.

2. The overall objective of this effort is to remove a debris pile at the site and to collect soil samples to determine if further investigation of the site is necessary.

3. We would appreciate review comments by April 20, 2012 so that project schedules and performance milestones can be maintained in accordance with this PBR Contract.

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

MICHAEL F. MCDERMOTT
Air Force Center for Engineering and the Environment – AFCEE/EXC Griffiss

Attachments: As noted

DISTRIBUTION LIST:

U.S. Environmental Protection Agency (2 Hard Copies with CDs)
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Division of Environmental Remediation
Attn: Ms. Heather Bishop
625 Broadway 11th Floor
Albany, NY 12233-7015

FINAL

SITE DEBRIS REMOVAL AND SOIL SAMPLING WORK PLAN
AREA OF INTEREST 474

FORMER GRIFFISS AIR FORCE BASE SITE
ROME, NEW YORK

Prepared for:

Air Force Center for Engineering and the Environment
Building 770
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Rome, New York 13441

Prepared by:

FPM Remediations Inc.
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Contract Number FA8903-10-D-8595/
Delivery Order 0014

March 2012

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LIST OF ACRONYMS AND ABBREVIATIONS

AFCEE	Air Force Center for Engineering and the Environment
AOC	Area of Concern
AOI	Area of Interest
cy	cubic yard
FPM	FPM Remediations, Inc.
LTM	Long Term Monitoring
OHSWA	Oneida Herkimer Solid Waste Authority
PCBs	Polychlorinated Biphenyls
SVOCs	Semi-Volatile Organic Compounds
TCLP	Toxicity Characteristic Leaching Procedure
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 Center for Engineering and the Environment (AFCEE), is conducting a site cleanup and sampling at Area of Interest (AOI) 474. This site is adjacent to the LF002 (Landfill 2/3 AOC) as illustrated in Appendix A. The work at this site will be conducted in accordance with provisions of the Basic Contract #FA8903-10-D-8595 and Delivery Order # 0014.

1.1 SITE BACKGROUND

This work plan describes the debris pile removal and associated soil sampling activities proposed at AOI 474. The debris pile adjacent to Landfill 2/3 was discovered during the 2009 Landfill 2/3 Long Term Monitoring (LTM) sampling event. The location of AOI 474 is shown on Figure 1 and provided in Appendix A. The pile is approximately 25 feet by 25 feet with a height of approximately 2 feet. The pile is also located near a wetland. Debris within the pile includes rusted empty drums, empty glass bottles, and household refuse. It believed that the debris pile is 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

Site activities proposed in this work plan consist of the debris pile removal and disposal and soil sampling. The field activities are detailed below.

2.1 SITE DEBRIS REMOVAL

The debris pile is located near a wetland, therefore FPM will remove the debris using procedures that will protect this sensitive ecosystem. Debris removal is proposed to commence in Spring 2012. Removal of the debris will be conducted by hand and loaded to wheel barrels for transport to a roll off container. During removal, the field personnel will be wear the appropriate personal protective equipment as described in the Griffiss Health and Safety Plan (CAPE/FPM/AECOM, July 2011). Once removed, the debris will be staged in a lined and covered 20 cubic yard (cy) roll-off container until disposal characterization is completed and appropriate disposal requirements approved. The dumpster will be staged at the access road to Landfill 2/3.

Following the removal of the surface debris, a hand-held magnetometor will be utilized to identify the potential for subsurface debris following surface debris removal.

2.2 SOIL SAMPLING

The former debris pile location will be divided into four equal sized grid cells for soil sampling. At each grid cell one composite sample comprised of five sample locations (one at the center and four from each side) will be collected. Samples will be collected from 0 to 2 ft bgs. In addition, two grab samples will also be collected directly below drums removed from the site. One grab sample will be collected from 0 to 1 ft bgs and one grab sample will be collected from 1 to 2 ft bgs. The samples will be analyzed for volatile organic compounds (VOCs) [United States Environmental Protection Agency (USEPA) Method SW8260B], semi-volatile organic compounds (SVOCs) (USEPA Method SW8270B), polychlorinated biphenyls (PCBs) (USEPA Method SW8082), metals (USEPA Method SW6010), and pesticides (USEPA Method SW8081). The soil sampling and sample analysis will be conducted in accordance with the Draft-Final Uniform Federal Policy Quality Assurance Project Plan for Performance Based-Remediation at the former Griffiss AFB, New York, (CAPE/FPM/AECOM, July 2011).

The soil sampling data will be used to confirm the absence or presence of contamination at this location by comparing the detected concentrations to the 6-NYCRR Part 375, Unrestricted use Soil Cleanup Objectives. If contamination is present, the sampling will also be used to determine the nature of the contamination and if additional remedial action at the site is required.

2.3 DEBRIS DISPOSAL

It is anticipated that the site debris will be disposed of at the Oneida Herkimer Solid Waste Authority (OHSWA). Since the debris will be removed by hand, little to no soil will be collected with the debris and disposed of. Therefore, the glass and metal debris will not require characterization for disposal with the OHSWA. If soils are removed, the proper Toxicity Characteristic Leaching Procedure (TCLP) sample analysis of the soils will be performed for characterization prior to disposal.

2.4 SITE RESTORATION

Site restoration will be minimal. It is believed that the debris is only on the surface. Therefore, the removal of the debris and final grading of soil sampling locations using hand tools will be the extent of the site restoration.

2.5 FIELD DOCUMENTATION

Handwritten documentation will be completed in permanent, black ink on a daily basis to document removal and sampling activities. All daily field activities and identification of any problems and corrective actions taken during that day will be provided in field logbooks and daily quality control report forms. The field log books, daily quality control reports, soil sampling forms, and related photos will be stored in the FPM project files. A template of the daily quality control report and the soil sampling form are provided in Appendix B.

3.0 REPORTING

The AOI 474 Debris Pile Removal Technical Memorandum will be prepared following work completion and lab analysis of the soil samples. The memorandum will describe the process used to remove and dispose of the debris pile, provide the soil sampling results, and discuss additional site activities or no further action recommendations. The draft version of this technical memorandum will include a CD with all daily field activity forms and photographs of site conditions prior to initiating removal and sampling activities, sampling locations, and site conditions after completion of the activities described in this work plan.

The Technical Memorandum will also document the potential for soil contamination and subsurface debris at the site and make recommendations for future actions.

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4.0 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.

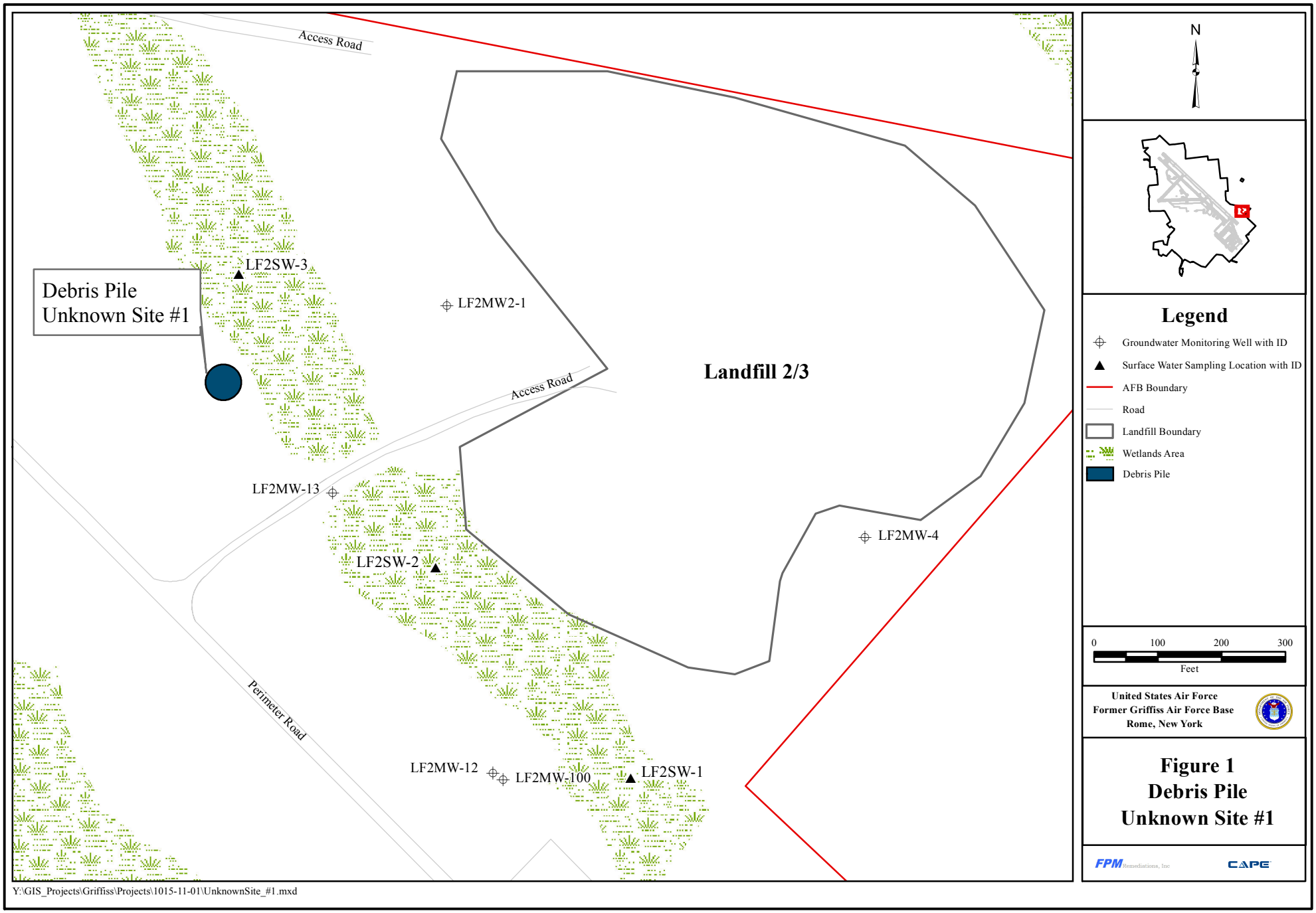
CAPE/FPM/AECOM, *Draft-Final Health and Safety Plan for Performance Based-Remediation at the former Griffiss AFB, New York*, July 2011.

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

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

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Appendix A
AOI 474 Figure and Photo



Y:\GIS_Projects\Griffiss\Projects\1015-11-01\UnknownSite_#1.mxd



Appendix B
Field Forms

Daily Quality Control Report

Project/Delivery Order Number: _____ Date: _____

Project Name/Site Number: _____

Weather conditions: Temperature: _____

Wind speed and direction: _____

Significant wind changes: _____

General description of tasks completed: _____

_____

_____

_____

_____

Explain any departures from the Work Plan or deviations from approved procedures during the day's field activities: _____

_____

_____

Explain any technical problems encountered in the field or field equipment/field analytical instrument malfunction: _____

_____

_____

Corrective actions taken or instructions obtained from AFCEE personnel: _____

_____

_____

Prepared by: _____ Date: _____

Signature: _____

SOIL / SEDIMENT SAMPLING FORM

Project: _____ Sampled by: _____

Site and Site Code (**SITEID**): _____

Sampling Location ID. (**LOCID**): _____

Date (**LOGDATE**): _____ Time: _____

FIELD OBSERVATIONS:

Sample Depth or Interval	**Material Description/ Color**

Comments/Observations:

_____

_____

_____

_____

Sample Time: _____ Sample ID: _____