

Demolition Completion Report Areas 1395 and 1495 Remedial Systems

Fort Drum Installation Restoration Program Fort Drum, New York

September 2015

Contract No.: W912DR-12-D-0007

Delivery Order No.: 0003

Prepared For:

U.S. ARMY CORPS OF ENGINEERS BALTIMORE DISTRICT

10 South Howard Street Baltimore, Maryland 21201-2536

Prepared By:

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Our Ref.: GP14DRUM.RIFS

Date:

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Acronyms and Abbreviations

ACM Asbestos-Containing Materials

AS Air Sparging

BTEX Benzene, Toluene, Ethylbenzene, and Xylenes

BV Bioventing

CY Cubic Yard

DANC Development Authority of the North Country

DMP Data Management Plan

DPW Directorate of Public Works

HASP Health and Safety Plan

IRP Installation Restoration Program

MNA Monitored Natural Attenuation

NYSDEC New York State Department of Environmental Conservation

PWS Performance Work Statement

QAPP Quality Assurance Project Plan

SOP Standard Operating Procedures

SVE Soil Vapor Extraction

USACE United States Army Corps of Engineers

UST Underground Storage Tank



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1. Introduction

The PIKA - MP Joint Venture (JV), LLC¹ (hereinafter referred to as the JV) has prepared this Demolition Completion Report to document the activities and procedures used to perform the decommissioning and demolition of the former remedial treatment buildings at Areas 1395 and 1495. This work was conducted in support of the Installation Restoration Program (IRP) at Fort Drum, New York in accordance with approved *Demolition Work Plan – Buildings 1395 & 1495 Site* (Work Plan; PIKA-MP JV, 2015). This work is funded under the United States (US) Army Corps of Engineers (USACE) Baltimore District Multiple Award Environmental Services (MAES) contract, Award No. W912DR-12-D-0007, Delivery Order 0003.

1.1 Background

The 1395 and 1495 sites are located in the former Gasoline Alley area in the southwest corner of Fort Drum (Figure 1). This area is approximately 2 miles long, consisting of two parallel one-way streets, Oneida Avenue and Ontario Avenue (currently under construction to create a single two-way street). Since at least the 1940s fuel dispensing areas were located in or near the median that separated these roads, where kerosene, gasoline, diesel fuel, and jet propulsion (JP)-4 fuel were stored and dispensed from underground storage tanks (USTs) along the north side of Oneida Avenue. Gasoline and diesel fuel were released to the subsurface from two 25,000 gallon USTs formerly located at each site, resulting in dissolved phase contamination in the underlying aguifer (primarily benzene, toluene, ethylbenzene, and xylenes [BTEX]). Previous remedial efforts included bioventing/soil vapor extraction (BV/SVE), air sparging (AS), an in-situ bioremediation pilot study utilizing ozone-enhanced air sparging, nutrient application, and monitored natural attenuation (MNA). Following the documentation of decreasing or stable contaminant concentration trends, plume stability, sustainable biodegradation, and no risk to ecological or human receptors (Plexus, 2013a and 3013b), the NYSDEC approved the Army's recommendation for no further monitoring and site close-out.

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¹ The PIKA-MP LLC Joint Venture is comprised of PIKA International, Inc. and its mentor ARCADIS, Inc.



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2. Remedial System Demolition

2.1 Initial Site Conditions

Each site had one remediation system structure. Each structure was approximately 350 square feet and 15 feet tall, and was comprised of an equipment bay housing system equipment and associated piping and a small control room containing control and circuit breaker panels. Each structure stood on a reinforced concrete slab of approximately 575 square feet and 12 to 16 inches thick.

2.2 Pre-Demolition Activities

A hazardous materials survey was conducted in February 2015. As presented in the Work Plan, no asbestos containing materials (ACM) were identified during the survey. Dig Permits were obtained from the Fort Drum Directorate of Public Works (DPW) for each Area. Normal utility clearance activities, consisting of reviewing available installation-supplied utility maps, contacting Dig Safely New York, and ground penetrating radar survey were also conducted prior to initiating the work.

2.3 Building Demolition and Waste Management

Building demolition activities were conducted by JV employees utilizing rental equipment. Project mobilization and a site safety kickoff meeting were conducted on 22 June 2015. Prior to starting demolition activities, a safe work area was established by designating the work zone, demarcating utilities and monitoring wells, and establishing erosion control measures. Once the safe work area was established, the demolition crew conducted a survey for wildlife or endangered species (per Fort Drum requirements) and general site hazards. Universal wastes were also identified and inventoried during the survey. After viewing both areas, no birds, bats, nests or other wildlife were found that would be in danger or harmed during the demolition of buildings. During the inspection, one panel box in Building 1395 was found to still be powered. Upon the discovery, the JV personnel coordinated with Fort Drum for the safe deactivation and disconnection of the utility line from the utility pole.

After completion of the survey, fiberglass insulation was manually removed from each building to limit nuisance dust/particulates during demolition implementation. Universal wastes were then removed and staged in Building 1599 for subsequent disposal by Fort Drum. The universal waste includes light bulbs, lubricating oils drained from



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remediation equipment, and fire extinguishers. A total of 14 five gallon buckets of universal wastes were collected.

Building demolition was conducted by slowly peeling back the exterior metal siding of each building to expose the support beams and then crippling the vertical columns on each side of the building by gently pulling downward and away from the building until the structure was no longer standing. After bringing down the structure, the building materials were segregated and staged for subsequent disposal. Steel from the buildings was placed in containers provided by Fort Drum for subsequent management and recycling under the base recycling program. Upon completion of building demolition activities, the concrete slabs were removed using construction machinery equipped with a hammer attachment. The concrete was broken into manageable pieces and inspected for contamination. There was no visual staining of the concrete or the soil below the former slab. The concrete and remaining demolition debris was then loaded into 30 cubic yard (CY) roll-off containers and disposed of at the Development Authority of the North Country (DANC) solid waste management facility. A total of six roll-off containers were sent to DANC. Scale tickets documenting the disposal are presented in Appendix A. A photographic log documenting the site activities is presented in Appendix B.



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3. Site Restoration

Upon removal of the concrete and demolition debris, the surrounding area was smoothed to match existing grade. Temporary fencing and individual temporary support devices were removed and equipment was demobilized from the site. Since the work was completed in late June, final grading and seeding was delayed until the fall. Silt fence was installed as an erosion and sediment control measure until final site restoration activities were conducted. The silt fencing was removed, and topsoil placement and hydro-seeding were conducted, during the week of 28 September 2015.



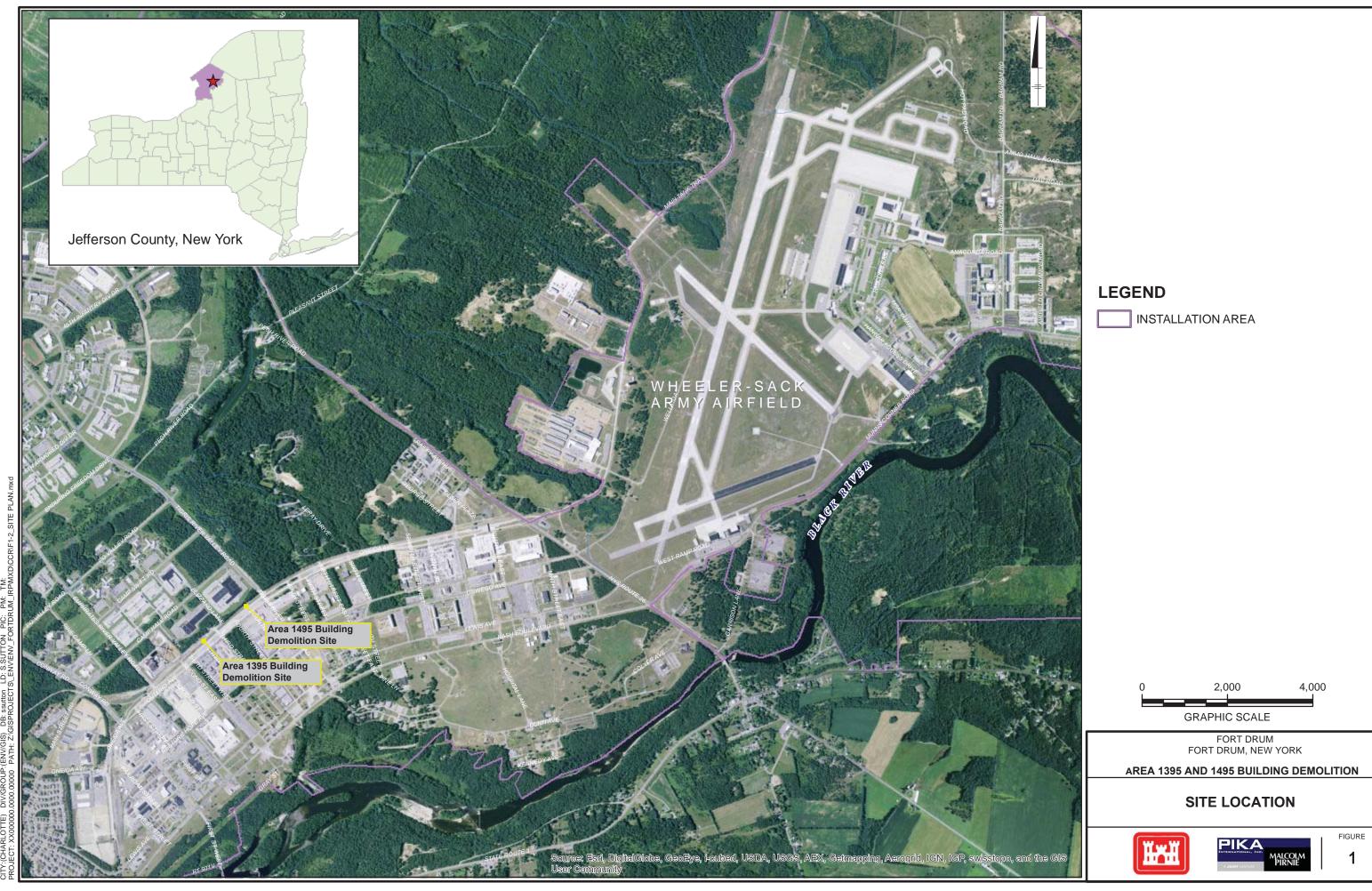
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4. References

PIKA-MP JV, 2015. Demolition Work Plan – Buildings 1395 & 1495 Site, Installation Restoration Program, Fort Drum, New York. April 2015.



Figures





APPENDIX A

C&D Disposal Scale Tickets

Development Authority of the North Country Solid Wast's Management Facility 23400 NYS Route 177 Rodman, New York 13682 Tel: (315) 661-3230

DATE:06/30/15 TICKET #: 351890 TIME IN: 10:03 TIME OUT:10:18

Bill Acct:WASTMANA Company:Waste Management 22360 Card Rd. Felts Mills NY 13638

Haul Acot: WASTMANA Company: Waste Management

TRUCK#:5172 License#:55604JS
Container#: LBS Tons
GROSS: 65700 32.85
TARE: 37440 18.72
NET: 28260 14.13

MATERIAL:200 - C&D County :10 - Cefferson W/C: 177 - WASTE MANAGEMENT (C&D)

TIP FEE: 621.72 : 0.00 TOTAL FEE: \$621.72

NOTE: ARCADUS/DRUM

Weighmaster:Lisa Simpson THANK YOU!

RB

Development Authority of the North Country Solid Waste Management Facility 23400 NYS Route 177 Rodman, New York 13682 Tel: (315) 661-3230

DATE:06/29/15 TICKET #: 351774
TIME IN: 09:52 TIME OUT:10:13

Bill Acct: WASTMANA Company: Waste Management 22360 Card Rd.

Felts Mills NY 13638

Haul Acct: WASTMANA Company: Waste Management

MATERIAL: 200 - CWD County :10 - Cefferson W/C: 177 - WASTE MANAGEMENT (CWD)

> TIP FEE: 954.36 : 0.00 TOTAL FEE: \$954.36

NOTE: ARCADIS/DRLM

Weighmaster:Lisa Simpson THANK YOU!



Development Authority of the North Country Solid Waste Management Facility 23400 NYS Route 177 Rodman, New York 13682 Tel: (315)661-3230

DATE:06/29/15 TICKET #: 351801 TIME IN: 11:52 TIME OUT:12:08

Bill Acct:WASTMANA Company:Waste Management 22360 Card Rd. Felts Mills NY 13638

Haul Acct: WASTMANA Company: Waste Management

MATERIAL: 200 - C&D County :10 - Cefferson W/C: 177 - WASTE MANAGEMENT (C&D)

> TIP FEE: 757.24 : 0.00 TOTAL FEE: \$757.24

NOTE: ARCADIS/DRUM

Weighmaster: Lisa Simpson THANK YOU!

RB

Development Authority of the North Country Solid Waste Management Facility 23400 NYS Route 177 Rodman, New York 13682 Tel: (315)661-3230

TIME OUT: 10:19 TICKET #: 352333 DATE:07/08/15 TIME IN: 10:02

Bill Acot: WASTMANA

Company: Waste Management 22360 Card Rd. NY 13638 Felts Mills

Haul Acot: WASTMANA

Company: Waste Management

CACCE # COCK	5170	LICGUSE#: 11023MD
Containe:#	***	License#:
	SET	Tons
GROSS:	53420	26.71
TARE:	36700	18.35
NET:	16720	8.36
1 1 1 1 1 1		
MATERIAL: 200	1	
County W/C:	177 - 1	MASTE MANAGEMENT (C&D)

TIP FEE: 367.84 CARELLES TOTAL FEE: \$367.84

NOTE: ARCADIA/FI DRM

Weighmasser: Jamie Persy THANK YOU!

Development Authority of the North Country Solid Waste Management Facility 23400 NYS Route 177 Rodman, New York 13662 Tel: (315)661-3230

TICKET #: 351906 DATE:06/30/15 TIME IN: 11:48

TIME OUT: 12:03

Bill Acct: WASTMANA

Company:Waste Management 22360 Card Rd. Felts Mills NY 13638

Haul Acot: WASTMANA

Company: Waste Management

TRUCK#:5172	5172	License#: 55604JS
Containe:	16:#:	Li dense#:
	BS	Tons
GROSS:	60180	30.09
TARE:	36800	18,40
NET:	23380	11.69
1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
MATERIAL: 200	IL:200 - 0	ζ. D
County	:10 - 56	Jefferson

TIP FEE: 514.36 0.00 TOTAL FEE: \$514.36

177 - WASTE MANAGEMENT (C&D)

W/C:

NOTE: ARCADUS/DRUM

Weighmaster: Lisa Simpson THANK YOU!

Development Authority of the North Country Solid Waste Management Facility 23400 NYS Route 177 Rodman, New York 13682 Tel:(315)661-3230

TIME OUT:07:50 TICKET #: 352226 DATE:07/07/15 TIME IN: 07:28

Bill Acct: WASTMANA

Company: Waste Management 22360 Card Rd. NY 13638 Felts Mills

Haul Acct: WASTMANA

Company: Waste Wanagement

RUCK#: 5:173	5.173	License#: 53004JA
container	:#:0	License#:
	SAL	Tons
ROSS:	73140	36.57
ARE:	38100	19.05
ET:	35040	17.52

MATERIAL:200 - C&D County :10 - Cefferson W/C: 177 - WASTE MANAGEMENT(C&D)

TIP FEE: 770.88 0.00 TOTAL FEE: \$770.88

NOTE: ARCADIS/FT DRM

Weighmasser: Jamie Persy THANK YOU!

APPENDIX B

Photographic Log



Building 1395 Pre-Demolition



Building 1495 Pre-Demolition



Equipment Delivered and Exclusion Zone Established



Manual Removal of Fiberglass Insulation



Universal Waste Removed and Staged in Building 1599



Building Demolition in Progress



Building Demolition



Concrete Slab Removal



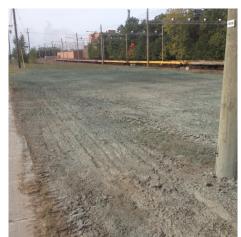
Final Grading with Silt Fence



Concrete Slab Removal



Post Demolition Clean Up



Final Site Restoration (Soil and Seed) at Area 1395



Final Site Restoration (Soil and Seed) at Area 1495