APPENDIX G IDW Disposal Letter Report





Regional Office

33 Boston Post Rd West Suite 340 Marlborough, MA 01752

Phone: 508.229.2270 Fax: 508.229.7737 November 1, 2013

Mr. Eric Cheng, P.E.
Technical Manager
U.S. Army Corps of Engineers, Louisville District
600 Martin Luther King Jr. Place
Louisville, Kentucky 40202-0059

Subject: Investigation-Derived Waste Letter Report

2011 Performance-Based Acquisition

Environmental Investigation and Remediation

14 Compliance Restoration Sites

Ravenna Army Ammunition Plant, Ravenna, Ohio

Contract No. W912QR-04-D-0039

Delivery Order No. 0004 Project No. 5161.004

Dear Mr. Cheng:

Investigation activities in accordance with the Site Inspection (SI) and Remedial Investigation (RI) Work Plan (October 2012) SI and RI Work Plan Addendum (June 2013) were conducted from August 12, 2013 through August 14, 2013 and on September 10, 2013. These activities resulted in the generation of Investigation-Derived Waste (IDW) consisting of soil cuttings from direct push borings and equipment decontamination fluids. The purpose of this letter report is to characterize and classify IDW for disposal and to propose methods for disposing the IDW.

This letter report includes a summary of IDW generated, the origin of the IDW (Table 1), as well as proposed classification and recommendations for disposal of the IDW (Table 2). This letter report follows guidance established by the following:

- 1.) The Facility-Wide Sampling and Analysis Plan (SAIC 2011),
- 2.) Final SI/RI Work Plan (ECC 2012), and
- 3.) Final SI/RI Work Plan Addendum (ECC 2013).

Two distinct IDW streams were sampled as part of the SI/RI Work Plan field activities. Each waste stream was composited and sampled per requirements outlined in Section 7.0 of the Facility-Wide Sampling and Analysis Plan (FWSAP) and SI/RI Work Plan. IDW streams generated are:

- One (1), 55-gallon drum containing equipment decontamination fluids (Liquinox, distilled water [DI], and diluted hydrochloric/nitric acids), sampled on August 15, 2013, and
- One (1) 55-gallon drums containing soils from SI/RI sampling activities, sampled on August 15, 2012 and 10 September 2013, and

Corporate Office

1240 Bayshore Highway Burlingame, CA 94010

Phone: (650) 347-1555 Fax: (650) 347-8789 www.ecc.net Per Section 7.0 of the Facility-Wide SAP, three composite samples were collected for Toxicity Characteristic Leaching Procedure (TCLP) parameters and submitted for laboratory analysis to characterize the following waste streams for disposal:

- Liquid IDW

The liquid sample (083SB-0021-0001-IDW TCLP) characterized one drum of decontamination fluid containing 2% hydrochloric/10% nitric acids, DI water, and Liquinox.

Solid IDW

The solid samples (083SB-0022-0001-IDW TCLP and 075SB-0011-0001-SB TCLP) were collected from one, 55-gallon drum containing soil cuttings.

Table 1 summarizes the IDW samples collected.

Table 1 – Summary of Site Inspection/Remedial Investigation Investigation-Derived Waste

| Container Type and Size | Contents | Generation Dates | Sample ID |
|---------------------------|---|---|--|
| 55-gallon closed top drum | De-con fluids from sampling equipment and decontamination | 12 August 2013 through 14 August 2013 | 083SB-0021-0001-IDW TCLP |
| 55-gallon closed top drum | Soil cuttings | 12 August 2013 through 14 August 2013, and 10 September 2013 | 083SB-0022-0001-IDW TCLP and 075SB-0011-0001-SB TCLP |

Per Section 8.0 of the FWSAP, non-indiginous IDW is characterized for disposal on the basis of composite samples collected and submitted for laboratory analysis to characterize the waste stream for disposal. Upon receipt of analytical results from the laboratory, the analytical data was reviewed to determine if the waste was potentially hazardous. This review consisted of a comparison of the analytical results against the TCLP criteria presented in Table 8-1 and 8-2, Maximum Concentration of Contaminants for the Toxicity Characteristic (40 Code of Federal Regulation (CFR) 261.24), as presented in the FWSAP. The results of this review are summarized below.

<u>IDW –FLUIDS</u>

One liquid composite sample (083SB-0021-0001-IDW TCLP) was collected. **Attachment 1** presents the analytical laboratory data for TCLP analysis for IDW fluids generated during the August 12 through August 14, 2013 field activities. All analytical results were below regulatory levels as presented in Tables 8-1 and 8-2 in the FWSAP.

IDW -SOLIDS

Two solid composite samples (083SB-0022-0001-IDW TCLP, and 075SB-0011-0001-SB TCLP) were collected. **Attachment 2** presents the analytical laboratory data for TCLP analysis for IDW solids generated during the August 12 through August 14, 2013 and September 10, 2013 field activities. All analytical results were below regulatory levels as presented in Tables 8-1 and 8-2 in the FWSAP.

Please note the IDW addressed in this letter report has been characterized under provisions of the FWSAP using TCLP analysis and process knowledge. Unless RVAAP has additional information that would result in the IDW meeting, or containing materials that meet, the definition of a listed hazardous waste as defined in 40 CFR Part 261 Subpart D, it is recommended that the IDW, as presently characterized, be disposed as summarized in Table 2.

Table 2 - Summary of Final Waste Classification and Recommended Options

| Medium | Waste Criterion | Disposal Recommendation | | | |
|--------|----------------------|--|--|--|--|
| Water | Inorganics, Organics | Permitted Wastewater Treatment Facility or Permitted Solid Waste Facility | | | |
| Soils | Inorganics, Organics | Permitted Wastewater Treatment Facility or Permitted Solid Waste Facility | | | |

Since RVAAP, under RCRA, is the generator of this material, ECC requests concurrence or direction on the waste classification prior to disposal to ensure materials are properly disposed. Following your direction and immediate approval, ECC will proceed with appropriate waste disposal.

Should you have any questions or wish to discuss the proposed activities further, please do not hesitate to contact the undersigned at 508-229-2270, ext. 22109, or via email.

Regards,

ECC

Alexander Easterday Sr. Project Manager

Alexander Enterles

Copy: Brett Merkel, ARNG

Kevin Sedlak, ARNG Katie Tait, OHARNG

Mark Patterson, RVAAP Facility Manager

Nancy Zikmanis, Ohio EPA

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ATTACHMENTS

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Attachment 1 – IDW Analytical Results – Fluids

| Analysis Type | Chemical | Units | Limit of Detection (mg/L) | TCLP Criteria (mg/L) | Results 083SB-0021- 0001-IDW TCLP |
|------------------------|-----------------------|-------|---------------------------------|----------------------------|--|
| Semi-Volatile Organics | 1,4-Dichlorobenzene | mg/L | 0.0040 | 7.50 | 0.0040 U |
| Semi-Volatile Organics | 2,4,5-Trichlorophenol | mg/L | 0.020 | 400.00 | 0.020 U |
| Semi-Volatile Organics | 2,4,6-Trichlorophenol | mg/L | 0.020 | 2.00 | 0.020 U |
| Semi-Volatile Organics | 2,4-Dinitrotoluene | mg/L | 0.0040 | 0.13 | 0.0040 U |
| Semi-Volatile Organics | Hexachlorobenzene | mg/L | 0.0040 | 0.13 | 0.0040 U |
| Semi-Volatile Organics | Hexachlorobutadiene | mg/L | 0.0040 | 0.50 | 0.0040 U |
| Semi-Volatile Organics | Hexachloroethane | mg/L | 0.0040 | 3.00 | 0.0040 U |
| Semi-Volatile Organics | 3 & 4 Methylphenol | mg/L | 0.360 | 200 | 0.360 U |
| Semi-Volatile Organics | 2-Methylphenol | mg/L | 0.020 | 200 | 0.020 U |
| Semi-Volatile Organics | Nitrobenzene | mg/L | 0.0040 | 2.00 | 0.0040 U |
| Semi-Volatile Organics | Pentachlorophenol | mg/L | 0.020 | 100.00 | 0.020 U |
| Semi-Volatile Organics | Pyridine | mg/L | 0.010 | 5.00 | 0.010 U |
| TCLP Metals | Arsenic | mg/L | 0.0120 | 5.00 | 0.010 J |
| TCLP Metals | Barium | mg/L | 0.00090 | 100.00 | 0.19 |
| TCLP Metals | Cadmium | mg/L | 0.0010 | 1.00 | 0.0010 U |
| TCLP Metals | Chromium | mg/L | 0.0020 | 5.00 | 0.019 |
| TCLP Metals | Lead | mg/L | 0.0020 | 5.00 | 0.013 |
| TCLP Metals | Mercury | mg/L | 0.000060 | 0.20 | 0.000060 U |
| TCLP Metals | Selenium | mg/L | 0.0065 | 1.00 | 0.0028 J B |
| TCLP Metals | Silver | mg/L | 0.0020 | 5.00 | 0.0018 J B |
| TCLP Herbicides | 2,4,5-TP (Silvex) | mg/L | 0.0010 | 1.00 | 0.0010 U |
| TCLP Herbicides | 2,4-D | mg/L | 0.010 | 10.00 | 0.010 U |
| TCLP Pesticides | Chlordane | mg/L | 0.0030 | 0.03 | 0.0030 U |
| TCLP Pesticides | Endrin | mg/L | 0.00010 | 0.02 | 0.00010 U |
| TCLP Pesticides | Gamma-BHC (Lindane) | mg/L | 0.00010 | 0.40 | 0.00010 U |
| TCLP Pesticides | Heptachlor | mg/L | 0.00010 | 0.0080 | 0.00038 P |
| TCLP Pesticides | Heptachlor Epoxide | mg/L | 0.00010 | 0.0080 | 0.00010 U |
| TCLP Pesticides | Methoxychlor | mg/L | 0.00010 | 10.00 | 0.00010 U |
| TCLP Pesticides | Toxaphene | mg/L | 0.0030 | 0.50 | 0.0030 U |
| Volatile Organics | 1,1-Dichloroethene | mg/L | 0.025 | 0.7 | 0.025 U |
| Volatile Organics | 1,2-Dichloroethane | mg/L | 0.050 | 0.50 | 0.050 U |
| Volatile Organics | 2-Butanone | mg/L | 0.250 | 200 | 0.250 U |
| Volatile Organics | Benzene | mg/L | 0.0250 | 0.50 | 0.0250 U |
| Volatile Organics | Carbon Tetrachloride | mg/L | 0.0250 | 0.50 | 0.0250 U |
| Volatile Organics | Chlorobenzene | mg/L | 0.0250 | 100.00 | 0.0250 U |
| Volatile Organics | Chloroform | mg/L | 0.0250 | 6.00 | 0.0250 U |
| Volatile Organics | Tetrachloroethylene | mg/L | 0.050 | 0.70 | 0.050 U |
| Volatile Organics | Trichloroethene | mg/L | 0.0250 | 0.50 | 0.0250 U |
| Volatile Organics | Vinyl Chloride | mg/L | 0.0250 | 0.2 | 0.0250 U |

Notes:

J - Estimated value

B-Analyte detected in associated method blank P-Concentration differs more than 40% between primary and confirmation analysis mg/L – milligrams per liter

U- Undetected above laboratory limit of detection

Attachment 2 – IDW Analytical Results – Solids

| Analysis Type | Chemical | Units | Limit of Detection (mg/L) | TCLP Criteria (mg/L) | Results 083SB-0022 - 0001-IDW | | |
|------------------------|-----------------------|-------|---------------------------|----------------------------|--------------------------------------|--|--|
| Semi-Volatile Organics | 1,4-Dichlorobenzene | mg/L | 0.0040 | 7.50 | 0.0040 U | | |
| Semi-Volatile Organics | 2,4,5-Trichlorophenol | mg/L | 0.020 | 400.00 | 0.020 U | | |
| Semi-Volatile Organics | 2.4.6-Trichlorophenol | mg/L | 0.020 | 2.00 | 0.020 U | | |
| Semi-Volatile Organics | 2.4-Dinitrotoluene | mg/L | 0.0040 | 0.13 | 0.0040 U | | |
| Semi-Volatile Organics | Hexachlorobenzene | mg/L | 0.0040 | 0.13 | 0.0040 U | | |
| Semi-Volatile Organics | Hexachlorobutadiene | mg/L | 0.0040 | 0.50 | 0.0040 U | | |
| Semi-Volatile Organics | Hexachloroethane | mg/L | 0.0040 | 3.00 | 0.0040 U | | |
| Semi-Volatile Organics | Nitrobenzene | mg/L | 0.0040 | 2.00 | 0.0040 U | | |
| Semi-Volatile Organics | Pentachlorophenol | mg/L | 0.020 | 100.00 | 0.020 U | | |
| Semi-Volatile Organics | Pyridine | mg/L | 0.010 | 5.00 | 0.010 U | | |
| TCLP Metals | Arsenic | mg/L | 0.0120 | 5.00 | 0.0120 U | | |
| TCLP Metals | Barium | mg/L | 0.0090 | 100.00 | 0.40 | | |
| TCLP Metals | Cadmium | mg/L | 0.0010 | 1.00 | 0.00062 J | | |
| TCLP Metals | Chromium | mg/L | 0.0020 5.0 | | 0.0012 J | | |
| TCLP Metals | Lead | mg/L | 0.0020 | 5.00 | 0.0022 J | | |
| TCLP Metals | Mercury | mg/L | 0.000060/0.00020* | 0.20 | 0.000060 U/0.00020 U* | | |
| TCLP Metals | Selenium | mg/L | 0.25 | 1.00 | 0.0042 J | | |
| TCLP Metals | Silver | mg/L | 0.0050 | 5.00 | 0.0050 U | | |
| TCLP Herbicides | 2,4,5-TP (Silvex) | mg/L | 0.010 | 1.00 | 0.010 U | | |
| TCLP Herbicides | 2,4-D | mg/L | 0.0010 | 10.00 | 0.0010 U | | |
| TCLP Pesticides | Chlordane | mg/L | 0.0030 | 0.03 | 0.0030 J | | |
| TCLP Pesticides | Endrin | mg/L | 0.00010 | 0.02 | 0.00010 U | | |
| TCLP Pesticides | Gamma-BHC (Lindane) | mg/L | 0.00010 | 0.40 | 0.00010 U | | |
| TCLP Pesticides | Heptachlor | mg/L | 0.00010 | 0.01 | 0.00037 P | | |
| TCLP Pesticides | Heptachlor Epoxide | mg/L | 0.00010 | 0.01 | 0.00010 U | | |
| TCLP Pesticides | Methoxychlor | mg/L | 0.00010 | 10.00 | 0.00010 U | | |
| TCLP Pesticides | Toxaphene | mg/L | 0.0030 | 0.50 | 0.0030 U | | |
| Volatile Organics | 1,1-Dichloroethene | mg/L | 0.0250 | 0.7 | 0.0250 U | | |
| Volatile Organics | 1,2-Dichloroethane | mg/L | 0.050 | 0.50 | 0.050 U | | |
| Volatile Organics | 2-Butanone | mg/L | 0.250 | 200 | 0.250 U | | |
| Volatile Organics | Benzene | mg/L | 0.0250 | 0.50 | 0.0250 U | | |
| Volatile Organics | Carbon Tetrachloride | mg/L | 0.0250 | 0.50 | 0.0250 U | | |
| Volatile Organics | Chlorobenzene | mg/L | 0.0250 | 100.00 | 0.0250 U | | |
| Volatile Organics | Chloroform | mg/L | 0.0250 | 6.00 | 0.0250 U | | |
| Volatile Organics | Tetrachloroethylene | mg/L | 0.050 | 0.70 | 0.050 U | | |
| Volatile Organics | Trichloroethene | mg/L | 0.0250 | 0.50 | 0.0250 U | | |
| Volatile Organics | Vinyl Chloride | mg/L | 0.0250 | 0.20 | 0.0250 U | | |

Notes:

NA – Not Analyzed

^{*-} Mercury sample result for sample 075SB-0011-0001-SO

J – Estimated Value

P-Concentration differs more than 40% between primary and confirmation analysis

mg/L – milligrams per liter U- Undetected above laboratory limit of detection



John R. Kasich, Governor Mary Taylor, Lt. Governor Scott J. Nally, Director

November 27, 2013

CERTIFIED MAIL 7012 3050 0001 8837 5129

Mr. Mark Patterson, Facility Manager Ravenna Army Ammunition Plant 8451 State Route 5 Ravenna, OH 44266

Re:

Investigation-Derived Waste Report 2011 Performance-Based Acquisition Environmental Investigation and Remediation 14 Compliance Restoration Sites, Ravenna Army Ammunition Plant (Ohio EPA ID # 267-000859-162)

Dear Mr. Patterson:

The Ohio Environmental Protection Agency (Ohio EPA) has received and reviewed the Investigation-Derived Waste Report 2011 Performance-Based Acquisition Environmental Investigation and Remediation 14 Compliance Restoration Sites, Ravenna Army Ammunition Plant. The document was received at Ohio EPA, Northeast District Office (NEDO), Division of Environmental Response and Revitalization (DERR) on November 15, 2013. The document was prepared for the U.S. Army Corps of Engineers (USACE), Louisville District by Environmental Chemical Corporation (ECC), under Contract No. W912QR-04-D-0039.

This report is approved and Ohio EPA concurs that the IDW (soil cuttings) from work conducted on August 12, 2013, August 14, 2013, and September 10, 2013, may be disposed of as contaminated, non-hazardous waste and that it be sent off-site for disposal to a permitted water treatment facility or permitted solid waste facility.

If you have any questions, please call me at (330) 963-1170.

Sincerely,

Edward D'Amato, Site Coordinator

Division of Environmental Response and Revitalization

ED:NZ/nvr

cc: Cullen Grasty, USACE

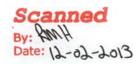
Katie Tait, OHNGB

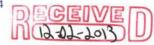
Kevin Sedlak, ARNG

Brett Merkel, ARNGD-Washington, DC

ec: Justin Burke, Ohio EPA, NEDO, DERR

Nancy Zikmanis, Ohio EPA, NEDO, DERR





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Pirst-Class Mail Postage & Fees Paid USPS Permit No. G-10

Sender: Please print your name, address, and ZIP+4 in this box

OHIO EPA NORTHEAST DISTRICT OFFICE 2110 EAST AURORA ROAD TWINSBURG OH 44087



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