Final

Remedial Action Report for Soil, Sediment, and Surface Water at RVAAP-48 Anchor Test Area

Ravenna Army Ammunition Plant Portage and Trumbull Counties, Ohio

Contract No. W912QR-04-D-0028 Delivery Order No. 0001

Prepared for:



United States Army Corps of Engineers Louisville District

Prepared by:



Leidos Engineering of Ohio, Inc. 8866 Commons Boulevard, Suite 201 Twinsburg, Ohio 44087

April 16, 2015

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14. ABSTRACT

This remedial action report summarizes activities performed in support of the plan for implementing Alternative 2 in accordance with the approved Record of Decision for Soil, Sediment, and Surface Water at RVAAP-48 Anchor Test Area. This remedial action report summarizes the excavation and removal of 45 tons of contaminated surface soil within the area of concern (AOC). Implementation of this remedial action resulted in attainment of CERCLA closure for soil, sediment, and surface water for the future land use (Military Training) or Unrestricted (Residential) Land Use.

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CONTRACTOR STATEMENT OF INDEPENDENT TECHNICAL REVIEW

Leidos has completed the Remedial Action Report for Soil, Sediment, and Surface Water at RVAAP-48 Anchor Test Area at the Ravenna Army Ammunition Plant, Ravenna, Ohio. Notice is hereby given that an independent technical review has been conducted that is appropriate to the level of risk and complexity inherent in the project. During the independent technical review, compliance with established policy principles and procedures, utilizing justified and valid assumptions, was verified. This included review of data quality objectives; technical assumptions; methods, procedures, and materials to be used; the appropriateness of data used and level of data obtained; and reasonableness of the results, including whether the product meets the customer's needs consistent with law and existing United States Army Corps of Engineers (USACE) policy.

al home	04/15/2015
Jed Thomas, PE	Date
Study/Design Team Leader	
W. Kevin Jago	04/15/2015 Date
Independent Technical Review Team Leader	Date
Significant concerns and the explanation of the resolution are as follow. Internal Leidos Independent Technical Review was conducted on the document. Subsequent versions of this document (e.g., Draft and Final the technical reviews of USACE, the Ohio Army National Guard, and Agency. Internal Leidos Independent Technical Review comments ar Record per Leidos quality assurance procedure QAAP 3.1. This Docu in the project file. Changes to the report addressing the comments have Team Leader. As noted above, all concerns resulting from independent technical considered.	e Preliminary Draft version of this) will incorporate changes based on the Ohio Environmental Protection e recorded on a Document Review ment Review Record is maintained e been verified by the Study/Design
July	04/15/2015
Lisa Iones-Bateman	04/15/2015 Date
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June 16, 2015

Mr. Mark Leeper, P.G., MBA Army National Guard Directorate Environmental Programs Division ARNGD-ILE-CR 111 South George Mason Drive Arlington, VA 22204 Re: US Army Ravenna Ammunition PIt RVAAP
Remediation Response
Project Records
Remedial Response
Portage County
267000859109

Subject: Approval of the "Final Remedial Action Report for Soil, Sediment, and Surface Water at RVAPP-048 Anchor Test Area at the Ravenna Army Ammunition Plant, Ravenna, Ohio," Dated April 16, 2015, Ohio EPA ID # 267-000859-109

Dear Mr. Leeper:

The Ohio Environmental Protection Agency (Ohio EPA), Northeast District Office (NEDO), Division of Environmental Response and Revitalization (DERR), has received and reviewed the document entitled, "Final Remedial Action Report for Soil, Sediment, and Surface Water at RVAPP-048 Anchor Test Area at the Ravenna Army Ammunition Plant, Ravenna, Ohio," dated April 16, 2015. This document, received by Ohio EPA's NEDO on April 17, 2015, was prepared for the U.S. Army Corps of Engineers (USACE) Louisville District, by Leidos Engineering of Ohio, Inc.

Ohio EPA has reviewed this documentation and has found no significant deficiencies. As a result, the "Final Remedial Action Report for Soil, Sediment, and Surface Water at RVAPP-048 Anchor Test Area" is approved.

If you have any questions or concerns, please do not hesitate to contact me at (330) 963-1249.

Sincerely,

Andrew C. Kocher Site Coordinator

algal

Division of Environmental Response and Revitalization

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Final

Remedial Action Report for Soil, Sediment, and Surface Water at RVAAP-48 Anchor Test Area

Volume One - Main Report and Attachments Version 1.0

Ravenna Army Ammunition Plant Portage and Trumbull Counties, Ohio

Contract No. W912QR-04-D-0028 Delivery Order No. 0001

Prepared for:

U.S. Army Corps of Engineers 600 Martin Luther King, Jr. Place Louisville, Kentucky 40202

Prepared by:

Leidos Engineering of Ohio, Inc. 8866 Commons Boulevard, Suite 201 Twinsburg, Ohio 44087

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USACE = United States Army Corps of Engineers

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ACRONYMS AND ABBREVIATIONS

AOC Area of Concern

ARAR Applicable and Relevant or Appropriate Requirement

bgs below ground surface

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act

COC Chemicals of Concern

CUG Cleanup Goals

ERA Ecological Risk Assessment

ft feet

HHRA Human Health Risk Assessment ISM Incremental Sampling Method OHARNG Ohio Army National Guard

Ohio EPA Ohio Environmental Protection Agency

PBA Performance-based Acquisition

PCB Polychlorinated Biphenyl
RAO Remedial Action Objective
RAR Remedial Action Report

RD Remedial Design

RI Remedial Investigation

RVAAP Ravenna Army Ammunition Plant SVOC Semi-Volatile Organic Compound USACE U.S. Army Corps of Engineers

USEPA U.S. Environmental Protection Agency

USP&FO U.S. Property and Fiscal Officer VOC Volatile Organic Compound THIS PAGE INTENTIONALLY LEFT BLANK.

EXECUTIVE SUMMARY

This Remedial Action Report (RAR) describes the field activities specified in the *Remedial Design* for Soil, Sediment, and Surface Water at RVAAP-13 Building 1200 and RVAAP-48 Anchor Test Area (USACE 2014a) specific to Anchor Test Area. This report documents the attainment of the selected remedy in the Record of Decision for Soil, Sediment, and Surface Water at RVAAP-48 Anchor Test Area (USACE 2014b) (herein referred to at the ATA ROD). The selected remedy for soil, sediment, and surface water at Anchor Test Area was to excavate contaminated soil to achieve a cleanup goal (CUG) of 15.4 mg/kg of arsenic in soil for Unrestricted (Residential) Land Use. Sediment and surface water are not present at the area of concern (AOC).

The remedial action described within this RAR attained the remedial action CUG and remedial action objective established in the ATA ROD. During field activities performed in November 2014, 45 tons of contaminated soil was removed from Anchor Test Area and transported for off-site disposal. Confirmation samples were collected and laboratory analysis confirmed the confirmation samples were below the CUG of 15.4 mg/kg for arsenic. The excavation extents and sample results are presented in Figure ES-1.

Upon confirming that CUGs were attained and no further excavation was required, the excavation footprint was backfilled using soil from a U.S. Army and Ohio Environmental Protection Agency (Ohio EPA) approved source and graded to match the existing drainage pattern and neighboring and/or original elevations. Re-vegetation and re-seeding of the disturbed area took place during the week of December 8, 2014 using seed mixtures detailed in Tables 8-3 and 8-4 of the remedial design.

By achieving the remedial action CUG, Anchor Test Area allows for Unrestricted (Residential) Land Use for soil. Sediment and surface water are not present at the AOC. Land use controls, Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) five-year reviews, or operations and maintenance sampling are not required for these media.

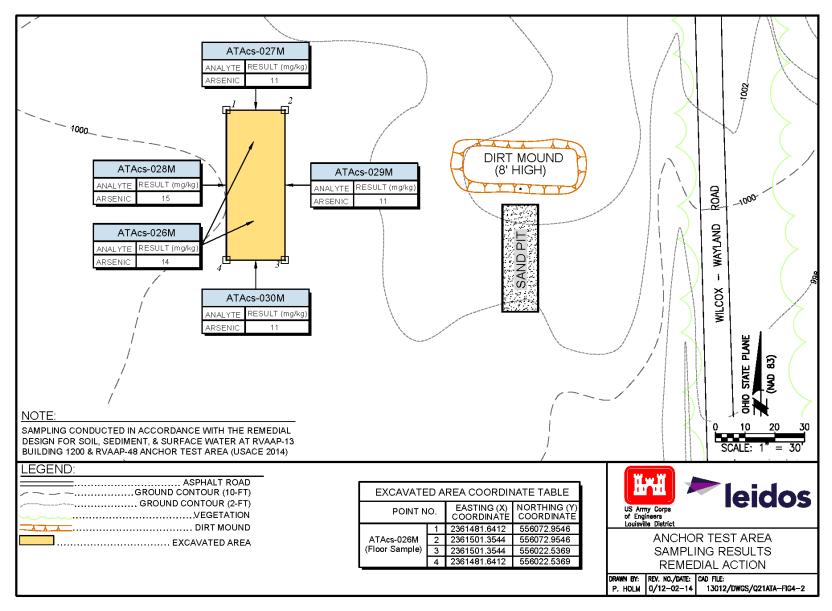


Figure ES-1. Excavation Area (Plan View)

1.0 Introduction

Leidos Engineering of Ohio, Inc. [formerly part of Science Applications International Corporation (SAIC)] has been contracted by the U.S. Army Corps of Engineers (USACE), Louisville District to provide environmental services to achieve response complete, remedy in place, or site closeout at the Anchor Test Area (RVAAP-48) area of concern (AOC) within the former Ravenna Army Ammunition Plan (RVAAP) in Ravenna, Ohio. This Remedial Action Report (RAR) describes the field activities specified in the *Remedial Design for Soil, Sediment, and Surface Water at RVAAP-13 Building 1200 and RVAAP-48 Anchor Test Area* (USACE 2014a) (herein referred to as the RD) specific to Anchor Test Area and documents attainment of the selected remedy in the *Record of Decision for Soil, Sediment, and Surface Water at RVAAP-48 Anchor Test Area* (USACE 2014b) (herein referred to as the ATA ROD).

This work is being performed in accordance with USACE, Louisville District, Multiple Award Remediation Contract W912QR-04-D-0028, Delivery Order No. 0001, under a Performance-based Acquisition (PBA). In addition, planning and performance of all work elements is being conducted in accordance with the requirements of the Ohio Environmental Protection Agency (Ohio EPA) *Director's Final Findings and Orders* dated June 10, 2004 (Ohio EPA 2004).

1.1 PURPOSE

The purpose of this RAR is to document completion of the selected remedial action alternative specified in the ATA ROD and summarize field activities specified in the RD that are specific to Anchor Test Area. Activities specific to the Building 1200 AOC will be summarized in a separate RAR.

The anticipated land use for Anchor Test Area is Military Training. The remedial alternative selected in the ATA ROD to attain remedy for soil, sediment, and surface water was Alternative 2: Attain Unrestricted (Residential) Land Use. Therefore, the selected remedy met and exceeded remedial action objectives (RAOs) for the anticipated land use. The ATA ROD specified that soil containing arsenic exceeding cleanup goals (CUGs) should be remediated to a level protective of human health. Sediment and surface water do not exist at Anchor Test Area.

The selected remedy was executed in accordance with the RD. This RAR presents the confirmation sampling scheme and analytical results which verify the achievement of Unrestricted (Residential) Land Use.

1.2 REPORT ORGANIZATION

This RAR is organized as follows:

- Section 2: describes the facility and AOC;
- Section 3: outlines RAOs and CUGs;
- Section 4: presents the project organization and coordination;

- Section 5: discusses construction mobilization and site preparation;
- Section 6: describes soil removal and confirmation sampling activities;
- Section 7: summarizes site restoration activities;
- Section 8: presents the conclusions;
- Section 9: lists the references used in the document.
- Appendices:
 - o Appendix A. Utility Clearance
 - o Appendix B. Field Change Request Forms
 - o Appendix C. Laboratory Analytical Results
 - o Appendix D. Manifest Log, Waste Profile, and Waste Manifests
 - o Appendix E. Stormwater Construction Site Inspection Reports
 - o Appendix F. Release of Rain Water Form from Secondary Containment Form
 - o Appendix G. Property Management Plan Insertion

2.0 BACKGROUND INFORMATION

This section describes the former RVAAP, Anchor Test Area, and discusses previous investigations at Anchor Test Area.

2.1 FACILITY DESCRIPTION

The facility, consisting of 21,683 acres, is located in northeastern Ohio within Portage and Trumbull counties, approximately 4.8 kilometers (3 miles) east/northeast of the City of Ravenna and approximately 1.6 kilometers (1 mile) northwest of the City of Newton Falls (Figure 2-1). The facility, previously known as RVAAP, was formerly used as a load, assemble, and pack facility for munitions production. As of September 2013, administrative accountability for the entire acreage of the facility has been transferred to the U.S. Property and Fiscal Officer (USP&FO) for Ohio and was subsequently licensed to the Ohio Army National Guard (OHARNG) for use as a military training site (Camp Ravenna). References to RVAAP in this document relate to previous activities at the facility related to former munitions production activities or to activities being conducted under the restoration/cleanup program.

2.2 ANCHOR TEST AREA BACKGROUND INFORMATION AND PREVIOUS INVESTIGATIONS

Anchor Test Area is approximately 0.5 acres and is located approximately 50-75 ft west of Wilcox-Wayland Road and 2,500 ft south of Newton Falls Road (Figures 2-2 and 2-3). Although operational information is relatively limited about this former research and development area used by the Firestone Tire and Rubber Company Defense Research Division, it is believed that the area was used for testing explosives-driven soil anchoring devices. These devices typically consisted of metal rods driven into the ground and attached via a cable to stabilize structures or anchor them to the ground. The dates this AOC was used are unknown; however, a 1961 drawing shows the final design for the AOC; therefore, it is likely it was not active until after the early 1960s. Aerial photographs from 1966 confirm the construction of AOC features, but it is unknown whether Anchor Test Area was active at the time of the photographs.

The distinct surface features of the AOC are the former earthen blast wall (dirt mounds) and a nearby 12 by 36 ft sandpit. The anchor tests were likely performed within the sandpit. The adjacent dirt mounds functioned as blast walls. One mound is approximately 8-10 ft high while the others are only 1-2 ft high. The dirt mounds are still observable, although the mounds are overgrown with vegetation and small trees. The sandpit is no longer visually distinct due to vegetative growth. Metal debris is visible in the area, and a section of concrete culvert can be seen in one of the dirt mounds.

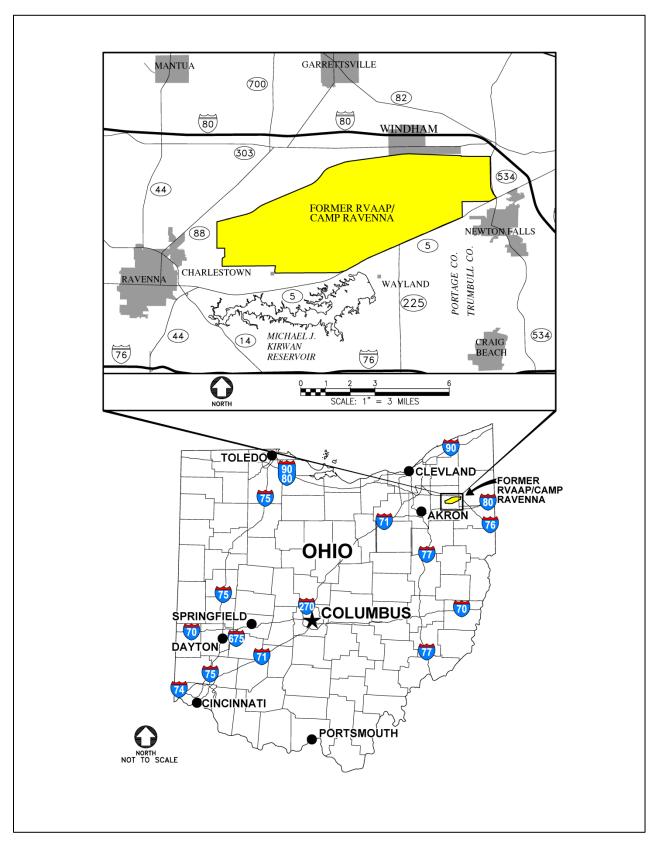


Figure 2-1. General Location and Orientation of Camp Ravenna

The AOC is currently heavily overgrown with trees, shrubs, and tall grass. The immediate surrounding area is forested except for: (1) a wetland approximately 100 ft away on the east side of Wilcox-Wayland Road within a separate watershed; and (2) a wetland approximately 500 ft south within the same watershed. The wetland to the south is drained by an unnamed stream to the south that flows east into the Load Line 4 Pond. Load Line 4 Pond effluent exits the installation's southern boundary and flows approximately 1.5 stream miles to the south where it flows into the West Branch River. Because the AOC is located on the southern edge of a small topographic high, any surface water not percolating to groundwater flows south directly into the wetland.

Anchor Test Area has been included in various assessments and investigations, including:

- Relative Risk Site Evaluation for Newly Added Sites (USACHPPM 1998); and
- Characterization of 14 AOCs (MKM 2007).

In 2010, the PBA08 Remedial Investigation (RI) was implemented to supplement historical data available for the AOC and support development of the *Remedial Investigation/Feasibility Study Report for Soil, Sediment, and Surface Water at RVAAP-48 Anchor Test Area* (USACE 2012). Sampling results were combined with applicable results of previous sampling events to evaluate the nature and extent of contamination, examine contaminant fate and transport, conduct risk assessments, and evaluate potential remedial alternatives. A human health risk assessment (HHRA) and ecological risk assessment (ERA) were conducted to document chemicals of concern (COCs) that may pose potential risks to human health and the environment resulting from exposure to contamination at Anchor Test Area. Arsenic was the only human health COC identified in surface soil [0-1 ft below ground surface (bgs)]. No COCs were identified for subsurface soil (1-13 ft bgs), sediment, or surface water. In addition, the ERA concluded there is sufficient justification to recommend no further action from an ecological perspective. The contaminant fate and transport evaluation indicated soil remediation was not warranted to protect groundwater resources.

The CUG for arsenic in surface soil was developed in the feasibility study to support the remedial alternative selection process for soil remediation. The remedial alternatives were selected by combining general response actions, technology types, and process options retained from screening remedial technology/process options. Remedial alternatives assured adequate protection of human health and the environment, achieved RAOs, met Applicable and Relevant or Appropriate Requirements (ARARs), and permanently and significantly reduced the volume, toxicity, and/or mobility of COCs. Remedial alternatives were evaluated against the nine Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) criteria (overall protection of human health and the environment; compliance with ARARs; long-term effectiveness and permanence; reduction of toxicity, mobility, or volume through treatment; short-term effectiveness; implementability; cost; state acceptance; and community acceptance) and were compared against one another as part of the selection process.

The selected remedy in the *Record of Decision for Soil, Sediment, and Surface Water at RVAAP-48 Anchor Test Area* (USACE 2014b) was Attain Unrestricted (Residential) Land Use. As two different polygons were presented in the Characterization of 14 AOCs report, RD sampling was conducted as

discussed in Section 3.3 to encompass both polygons identified as ATAss-005M and further refine the contamination. Once the area of contamination was further refined, the selected remedy specified removing shallow surface soil (0-1 ft bgs) at Anchor Test Area that exceeded the CUG for arsenic (15.4 mg/kg) with the collection of confirmation samples to confirm the identified contamination has been removed.

2.3 COMMUNITY INVOLVEMENT AND REGULATORY APPROVAL

The *Proposed Plan for Soil, Sediment, and Surface Water at RVAAP-48 Anchor Test Area* (USACE 2013) was presented to the public on August 7, 2013. A 30-day public comment period was conducted from July 25, 2013 to August 23, 2013 and a public meeting was held on August 7, 2013 so the public could provide comments for consideration as part of the remedy selection process. The Army did not receive any verbal or written comments during the public meeting and public comment period.

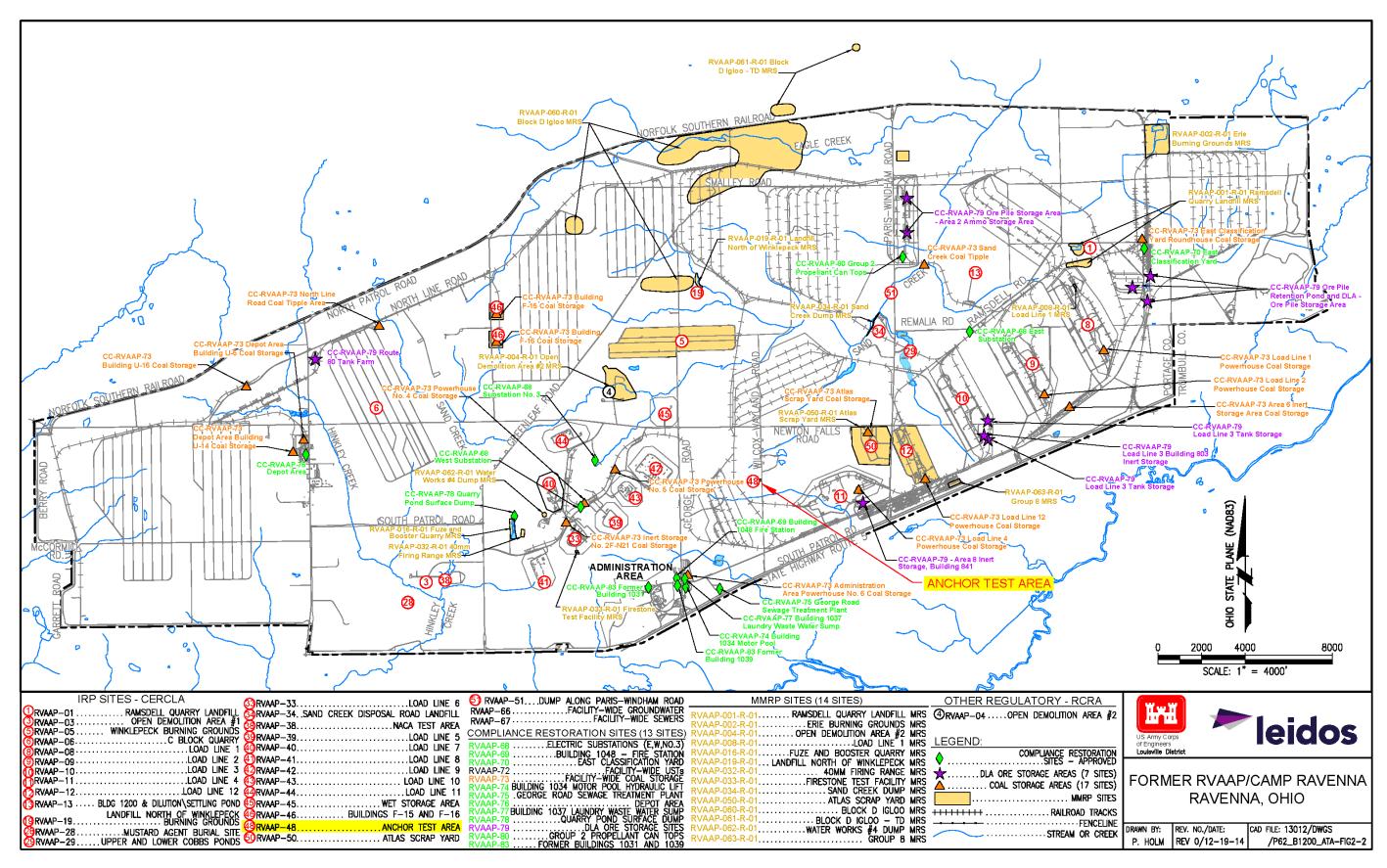


Figure 2-2. Camp Ravenna Installation Map

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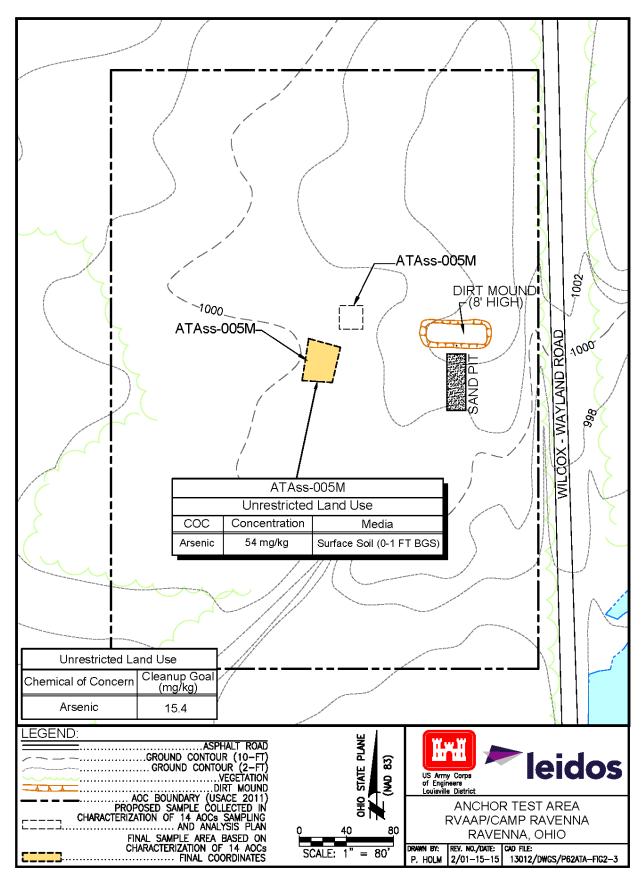


Figure 2-3. Features of Anchor Test Area

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3.0 REMEDIAL ACTION OBJECTIVE AND CLEANUP GOAL

This section describes the RAO and CUG for the selected remedy. The RAO specifies requirements the remedial action must fulfill to protect human health and the environment under current and reasonably anticipated future land use. CUGs are the chemical concentrations required to achieve the RAO.

3.1 REMEDIAL ACTION OBJECTIVE

The RAO specified in the ATA ROD was to prevent: (1) National Guard Trainee exposure to COCs above CUGs in soil; (2) adverse ecological effects from previous AOC activities; and (3) negative groundwater impacts from contaminant migration from source media (e.g., soil). The selected remedy [Alternative 2: Attain Unrestricted (Residential) Land Use] attained the RAO by remediating arsenic in soil to a depth of 1 ft bgs at location ATAss-005M. Sediment and surface water do not exist at Anchor Test Area. No remedial actions were required for soil to protect ecological resources or groundwater.

3.2 REMEDIAL ACTION CLEANUP GOAL

Table 3-1 presents the CUG to attain Unrestricted (Residential) Land Use for Anchor Test Area. The HHRA identified arsenic in surface soil (0-1 ft bgs) as a COC for the National Guard Trainee and Resident Farmer. Consequently, surface soil (0-1 ft bgs) at location ATAss-005M requires remediation to attain the future land use (Military Training) or Unrestricted (Residential) Land Use. No COCs were identified in subsurface soil (greater than 1 ft bgs) for either the National Guard Trainee or Resident Farmer.

Table 3-1. Summary of COCs, CUGs, and Locations Requiring Remedy at Anchor Test Area

	Chemicals of		Location and Depth Requiring Remediation	
Media	Concern	Cleanup Goals	(Arsenic Concentration)	
Surface Soil	Arsenic	15.4 mg/kg	ATAss-005M (54 mg/kg) at 0-1 ft bgs	
Subsurface Soil	None	Not applicable	Not applicable	

^a The cleanup goal for arsenic is the Ravenna Army Ammunition Plant facility-wide background value for surface soil (0-1 ft bgs).

3.3 REMEDIAL DESIGN SAMPLING

Incremental sampling method (ISM) area ATAss-005M was identified as requiring removal. To ensure the area with contamination was adequately defined prior to the remedial action and to refine areas and volumes of soil removal, the RD included provisions for additional sampling to ensure all contaminated soil was removed during this remedial action. Surface soil (0-1 ft bgs) samples were collected from four ISM areas in December 2013 (Figure 3-1) to encompass 1) the sample ATAss-005M polygon as presented in the Characterization of 14 AOCs sampling and analysis plan, and 2) the final sample ATAss-005M polygon based on coordinate data following completion of the

ft bgs = Feet below ground surface.

mg/kg = Milligram per kilogram.

Characterization of 14 AOCs that exceeded the CUG. The removal of all contaminated soil was further ensured by confirmation sampling conducted on the sidewalls and excavation floor after the soil removal activities.

The comparison of sample results exceeding the arsenic CUG at Anchor Test Area are presented in Table 3-2. The ISM sample locations (ATAss-021M and ATAss-023M) were above the CUG and, therefore, required soil removal with confirmation sampling. The ISM sample areas below the CUG (ATAss-022M and ATAss-024M) did not require soil removal.

Table 3-2. Sample Results and Cleanup Goal Comparison Anchor Test Area

		Arsenic	Concentration Exceed Arsenic CUG of 15.4
Station	Sample ID	Concentration	mg/kg?
ATAss-021M	ATAss-021M-0001-SO	35 mg/kg	Yes
ATAss-022M	ATAss-022M-0002-SO	12 mg/kg	No
ATAss-023M	ATAss-023M-0003-SO	25 mg/kg	Yes
ATAss-024M	ATAss-024M-0005-SO	9.9 mg/kg	No

CUG = Cleanup Goal.

ID = Identification.

mg/kg = Milligram per kilogram.

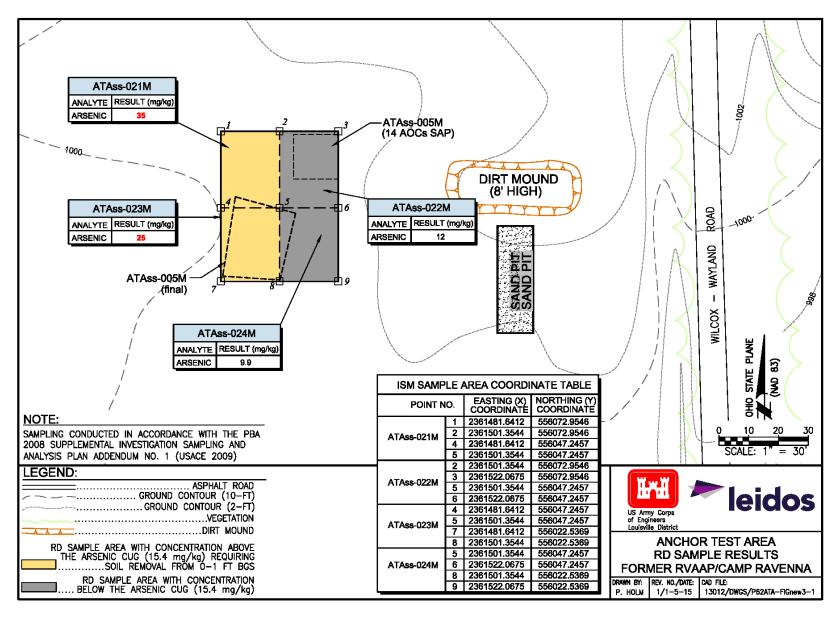


Figure 3-1. Remedial Design Sampling Scheme

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4.0 PROJECT ORGANIZATION AND COORDINATION

This section presents the project organization and describes the project team coordination. Figure 4-1 presents the project organization chart for this remedial action. The U.S. Army was the lead entity and was responsible for implementing this remedial action. USACE, Louisville District provided technical oversight on behalf of the U.S. Army. Ohio EPA was the regulatory authority governing work on this remedial action. Leidos was the primary contractor responsible for implementing the RD, which included the following:

- Selected and procured a qualified remedial subcontractor (Chemtron Corporation) to perform the work described herein;
- Provided project management and construction oversight;
- Coordinated transportation and disposal activities with RVAAP; and
- Collected confirmation samples.

A full description of the roles and responsibilities is included in Section 2.0 of the RD.

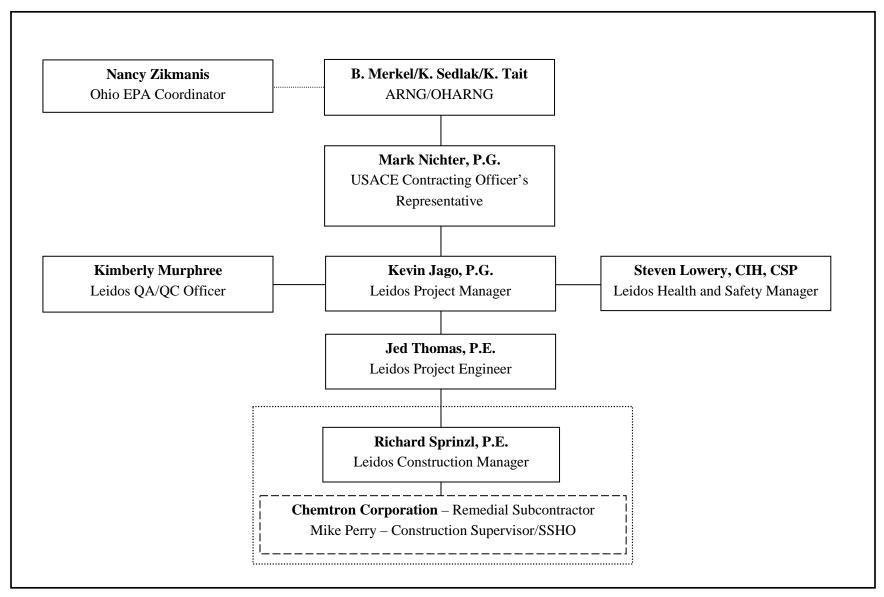


Figure 4-1. Project Organizational Chart

5.0 CONSTRUCTION MOBILIZATION

This section describes construction mobilization and site preparation activities required to implement the RD, including notification requirements and site preparation activities.

5.1 UTILITY CLEARANCE

On November 12, 2014, the Army confirmed there were no known subsurface hazards at or near the planned excavation areas. The e-mail documentation of this utility clearance is presented in Appendix A.

5.2 SITE CONTROL AND ACCESS

Prior to implementing the remedial action, Leidos submitted a roster of all personnel (including subcontractors) who would be working at the AOC. The Leidos Construction Manager coordinated with Camp Ravenna regarding incoming deliveries or pickups. Signs were erected along the traffic route to expedite deliveries, maintain traffic flow, promote safety, and prevent interference with other Camp Ravenna operations.

5.3 LAND SURVEY

Prior to starting excavation activities, the Leidos remedial action subcontractor (Subcontractor) established the initial horizontal limits of excavation by land survey for each removal area. The excavation limits were demarcated by wooden stakes to help guide operators implementing the soil removal activities.

5.4 VEGETATION CLEARING

On November 17, 2014, the site was grubbed and cleared to facilitate equipment access and excavate the contaminated soil. The Subcontractor removed as few trees as possible to perform the excavation. Only small trees required removal, and, in accordance with a November 7, 2014 site walk with OHARNG, these smaller trees did not require cutting or staging. The large trees at or near the excavation area did not require removal, as excavation activities were implemented around the trees.

5.5 STORMWATER CONTROLS

In accordance with the RD, silt fencing was installed to prevent siltation from the construction area. In addition to the specifications of the RD, a straw bale check dam was placed within the ditch line paralleling Wilcox-Wayland Road immediately down gradient of the haul route access point. Photograph 5-1 shows the silt fence, and Photograph 5-2 shows the straw bale check dam. Excavation areas were opened at the beginning of each day and covered with impermeable plastic sheeting at the end of each day's activities, where appropriate. Stormwater controls were inspected by the Leidos Construction Manager on a daily basis during construction activities and on a weekly basis between construction phases. Completed reports are presented in Appendix E.

The RD required containerization and characterization of any excavation water that collected in the excavated areas with soil remaining above the CUG. Excavation water was defined as water (e.g., rainwater, groundwater) that came in contact with any contaminated areas. Due to these best management practices (e.g., covering the excavated area at night), no excavation water required containerization during the remedial activities. Stormwater accumulated on top of plastic in both excavation areas. The Subcontractor removed the non-contact storm water with a submersible pump, and pumped it through downgradient stormwater controls. The discharge was monitored for adequate sediment control. The quantities of discharges were tracked on the Release of Rain Water from Secondary Containment form provided by the Camp Ravenna Environmental Office. Completed forms are presented in Appendix F.



Photograph 5-1. Silt Fence Installed Downgradient Photograph 5-2. Straw Bale Check Dam Paralleling of Excavation Area



Wilcox-Wayland Road

6.0 EXCAVATION AND SAMPLING ACTIVITIES

This section summarizes the soil excavation and disposal activities conducted during this remedial action.

6.1 SOIL REMOVAL ACTIVITIES

Soil removal activities began on November 18, 2014 and were completed on November 19, 2014. During the soil removal activities, a total of 45 tons of non-hazardous soil was placed in roll-off boxes, staged on site in the parking lot of Building 1036, and transported for acceptance to Envirite of Ohio in Canton, Ohio. The following sections describe the soil removal activities in further detail.

A 312E Hydraulic Excavator was used to excavate soil from the removal area at Anchor Test Area. Once removed with the 312E Hydraulic Excavator, the soil was placed in a 544K Wheel Loader to transport the soil into roll-off boxes lined with plastic. Photograph 6-1 shows the removal of surface soil from the contaminated area, and Photograph 6-2 shows the loading of contaminated soil into a roll-off box. Once roll-off boxes were filled, the exteriors of the roll-off boxes were inspected to ensure no contaminated soil was present. Prior to exiting the loading area, the roll-off box was covered and properly labeled prior to leaving the construction site.

Two field change requests (FCR-RVAAPB1200-001 and FCR-RVAAPB1200-003) were approved for the potential use of drying agents (Calciment© and Stabl-Zorb) in the event the soil was too saturated for transport or acceptance by the disposal facility. Neither of the drying agents was needed at Anchor Test Area, as the soil was adequately dry. The field change request forms for this project are presented in Appendix B.

With the approval of the Camp Ravenna Environmental Office, the roll-off boxes were temporarily staged on site at the parking lot of Building 1036. On December 5, 2014 and December 6, 2014, all non-hazardous material was transported for acceptance to Envirite of Ohio, Inc. in Canton, Ohio. Photograph 6-3 shows the covered and secured excavated area after the soil removal activities took place. Photograph 6-4 shows the roll-off boxes staged at the Building 1036 parking area.

6.2 CONFIRMATION SAMPLING

After excavation activities were completed, five confirmatory ISM samples were collected from the excavation footprint and analyzed in accordance with Section 7.0 of the RD at locations ATA-026M, ATA-027M, ATA-028M, ATA-029M, and ATA-030M (Figure 6-1). The confirmation sample results showed the remedial activities attained the CUG for arsenic. All confirmation soil sampling results are presented in Appendix C.



Photograph 6-1. Removing Surface Soil from Anchor Test Area



Photograph 6-2. Loading Contaminated Soil into Roll-off Box



Photograph 6-3. Covered and Secured Excavated Area Upon Completing Soil Removal



Photograph 6-4. Roll-off Boxes Staged at Building 1036 Parking Area

Samples ATAcs-026M-0006-SO, ATAcs-027M-0007-SO, ATAcs-027M-0011-FD, ATAcs-028M-0008-SO, ATAcs-029M-0009-SO, and ATAcs-030M-0010-SO were dried, sieved, and ground finely by TestAmerica Laboratories, Inc. (located in North Canton, Ohio) and were analyzed for total arsenic. The results were compared against the CUG of 15.4 mg/kg. The confirmation soil sample results are summarized in Table 6-1 and in Appendix C.

The laboratory results indicate arsenic concentrations are below the remedial action CUG. Therefore, no additional removal was required. Figure 6-1 shows the plan view of the excavated area.

Table 6-1. Confirmation Sample Results

Sample Location	Sample ID	Arsenic Concentration	Lab Result below Cleanup Goal? ^a
ATA-026M (Excavation floor)	ATAcs-026M-0006-SO	14 mg/kg	Yes
ATA-027M (Northern wall)	ATAcs-027M-0007-SO	11 mg/kg	Yes
ATA-027M (Northern wall, field duplicate)	ATAcs-027M-0011-FD	12 mg/kg	Yes
ATA-028M (Western wall)	ATAcs-028M-0008-SO	15 mg/kg	Yes
ATA-029M (Eastern wall)	ATAcs-029M-0009-SO	11 mg/kg	Yes
ATA-030M (Southern wall)	ATAcs-030M-0010-SO	11 mg/kg	Yes

^a Remedial action cleanup goal for arsenic in soil is 15.4 mg/kg.

6.3 UNEXPECTED MATERIALS

No unexpected materials were encountered during soil removal activities.

ID = Identification.

mg/kg = Milligrams per kilogram.

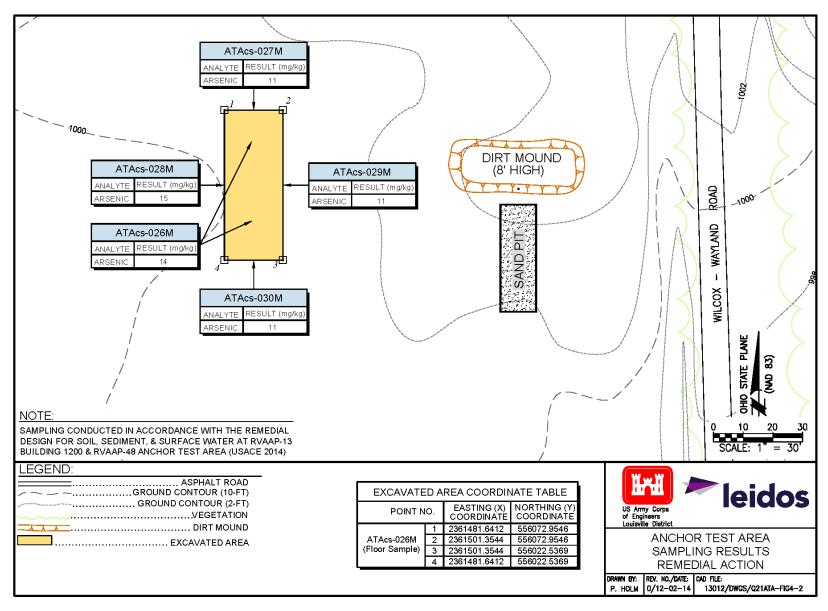


Figure 6-1. Excavation Area (Plan View)

7.0 SITE RESTORATION

The following sections describe the site restoration activities performed in accordance with Section 8.0 of the RD.

7.1 BACKFILL SOURCE PILE

Section 8.1 of the RD indicated a previous backfill source would be utilized for backfill once CUGs were attained during the soil excavation at Anchor Test Area. However, the backfill source specified in the RD was no longer available for use. Accordingly, Leidos identified and sampled a new backfill source at Patrick Excavating and Trucking at 5839 State Route 5, Ravenna, Ohio.

On September 11, 2014, the staged backfill source at Patrick Excavating and Trucking was sampled. One ISM sample (B12bf-060M-0014M-SO) was collected and analyzed for RVAAP full-suite parameters except volatile organic compounds (VOCs). One discrete sample (B12bf-060-0015-SO) was collected and analyzed for VOCs.

Data was screened using the RVAAP surface soil background values and Resident Receptor CUGs at 10^{-6} risk. The U.S. Environmental Protection Agency (USEPA) regional screening level for residential exposure for soil (10^{-6} risk) was used if an analyte did not have a CUG. A brief summary of the results are presented below.

- All analyte concentrations were below either the surface background values or the screening level.
- All pesticide, polychlorinated biphenyl (PCB), explosive, and VOC analyte concentrations were either not detectable or had estimated concentrations less than laboratory reporting levels.
- All semi-volatile organic compound (SVOC) analyte concentrations were either not detectable or were below the screening level, with the exception of benzo(a)pyrene at a concentration of 0.11 mg/kg. The concentration of benzo(a)pyrene (0.11 mg/kg) is less than half the Resident Farmer CUG at 10⁻⁵ of 0.221 mg/kg.

The results of the background sampling event and Ohio EPA's approval to use this source are documented in the field change request (FCR-RVAAPB1200-002) presented in Appendix B.

7.2 BACKFILLING OPEN EXCAVATION

Upon confirming that CUGs were attained and no further excavation was required, the excavation footprint was backfilled using soil from the approved source and graded to match the existing drainage pattern and neighboring and/or original elevations. The backfill material was graded and compacted. Photograph 7-1 shows the backfilled excavation area, and Photograph 7-2 shows the excavation area after seeding and mulching.







Photograph 7-2. Excavation Area after Backfill, Seeding, and Mulching

7.3 RE-VEGETATION AND REMOVAL OF EROSION CONTROLS

Re-vegetation and re-seeding of disturbed area took place during the week of December 8, 2014. Reseeding the areas was performed with the prescribed seed mixtures detailed in Tables 8-3 and 8-4 of the RD. At the time of submission of this RAR, Leidos will continue to perform weekly inspections of the site and the silt fencing to ensure the storm water controls are intact. The inspection frequency may be reduced to at least once per month if runoff is unlikely due to weather conditions (e.g., snow, ice, ground frozen). Once vegetation is established to 70 percent coverage, the silt fencing and other storm water controls will be removed and disposed.

The selected remedy for soil, sediment, and surface water at Anchor Test Area, as documented in the ATA ROD (USACE 2014b), was to excavate contaminated soil to achieve an arsenic CUG of 15.4 mg/kg for Unrestricted (Residential) Land Use. The remedial action described within this RAR attained the remedial action CUG and RAO established in the ATA ROD. Table 8-1 presents the removal totals from Anchor Test Area.

Table 8-1. Soil Removal Quantity

Location	Total Waste Volume (tons)
Anchor Test Area	45

Table 8-2 presents the final confirmation soil sampling results.

Table 8-2. Confirmation Soil Sample Results

ISM Sample Area	Confirmation Soil Sample Results (Arsenic Concentration)	Confirmation Sample Result Below Cleanup Goal? ^a
ATA-026M (Excavation floor)	14 mg/kg	Yes
ATA-027M (Northern wall)	11 mg/kg	Yes
ATA-028M (Western wall)	15 mg/kg	Yes
ATA-029M (Eastern wall)	11 mg/kg	Yes
ATA-030M (Southern wall)	11 mg/kg	Yes

^a Remedial action cleanup goal for arsenic in soil is 15.4 mg/kg.

ISM = Incremental Sampling Method.

mg/kg = Milligrams per kilogram.

By achieving the remedial action CUG, ATA is allowed for Unrestricted (Residential) Land Use for soil. Sediment and surface water are not present at the AOC. Land use controls, CERCLA five-year reviews, or operations and maintenance sampling are not required for these media. Appendix G presents an insert for the Property Management Plan that provides a summary of ATA, the remedial activities completed, and documents that no land use controls are required for soil, sediment, and surface water after completing this remedial action.

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9.0 REFERENCES

- MKM Engineers, Inc. (MKM) 2007. Characterization of 14 AOCs at Ravenna Army Ammunition Plant. March 2007.
- Ohio Environmental Protection Agency (Ohio EPA) 2004. Director's Final Findings and Orders in the Matter of U.S. Department of the Army, Ravenna Army Ammunitions Plant. June 2004.
- U.S. Army Corps of Engineers (USACE) 2012. Remedial Investigation/Feasibility Study Report for Soil, Sediment, and Surface Water at RVAAP-48 Anchor Test Area at the Ravenna Army Ammunition Plant, Ravenna, Ohio. March 2012.
- USACE 2013. Proposed Plan for Soil, Sediment, and Surface Water at RVAAP-48 Anchor Test Area at the Ravenna Army Ammunition Plant, Ravenna, Ohio. April 2013.
- USACE 2014a. Remedial Design for Soil, Sediment, and Surface Water at RVAAP-13 Building 1200 and RVAAP-48 Anchor Test Area at the Ravenna Army Ammunition Plant. August 2014.
- USACE 2014b. Record of Decision for Soil, Sediment, and Surface Water at RVAAP-48 Anchor Test Area at the Ravenna Army Ammunition Plant, Ravenna, Ohio. March 2014.
- United States Army Center for Health Promotion and Preventative Medicine (USACHPPM) 1998. Relative Risk Site Evaluation for Newly Added Sites at the Ravenna Army Ammunition Plant, Ravenna, Ohio. Hazardous and Medical Waste Study No. 37-EF-5360-99. October 1998.

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APPENDIX A UTILITY CLEARANCE

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Thomas, Jed H.

From: Sedlak, Kevin M CTR (US) <kevin.m.sedlak.ctr@mail.mil>

Sent: Wednesday, November 12, 2014 7:28 AM

To: Thomas, Jed H. Cc: Sprinzl, Rich E.

Subject: RE: B1200 and ATA - Utility Clearance (UNCLASSIFIED)

Signed By: kevin.m.sedlak.ctr@mail.mil

Classification: UNCLASSIFIED

Caveats: NONE

There are no known active utilities buried or aboveground in either area.

Kevin Sedlak
Restoration Project Manager
Camp Ravenna
1438 State Route 534 SW
Newton Falls, OH 44444
ARNG-ILE Clean Up
Office Phone 614-336-6000 Ex 2053
mailto:kevin.m.sedlak.ctr@mail.mil

----Original Message----

From: Thomas, Jed H. [mailto:JED.H.THOMAS@leidos.com]

Sent: Tuesday, November 11, 2014 12:42 PM

To: Sedlak, Kevin M CTR (US)

Cc: Sprinzl, Rich E.

Subject: RE: B1200 and ATA - Utility Clearance

Hi Kevin - Just following up, can you confirm the info below regarding the utility clearance at the Building 1200 or Anchor Test Area soil removal areas? Thank you.

From: Thomas, Jed H.

Sent: Monday, November 03, 2014 4:54 PM To: Kevin Sedlak (kevin.m.sedlak.ctr@mail.mil)

Cc: Sprinzl, Rich E.

Subject: B1200 and ATA - Utility Clearance

Kevin -

Per the Remedial Design and Leidos' requirements, can you confirm to the best of your knowledge that there are no known subsurface assets or hazards at or near where the Building 1200 and Anchor Test Area soil removal areas will take place?

Please let me know if you have any questions or need additional information.
Thank you,
Jed
Jed Thomas Leidos
Project Manager Environmental Restoration Division
phone: 330.405.5802
fax: 330.405.9811

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jed.h.thomas@leidos.com <mailto:john.t.doe@leidos.com> |
leidos.com/engineering <http://www.leidos.com/engineering>

Classification: UNCLASSIFIED

Caveats: NONE

APPENDIX B FIELD CHANGE REQUEST FORMS

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PROJECT <u>Building 1200 and Anchor Test Area Remedial Action</u> CONTRACT NO. <u>GSA Contract No. W912QR-04-D-0028 Delivery Order No. 0001</u>
REQUESTOR IDENTIFICATION NAME Jed Thomas ORGANIZATION Leidos PHONE 330-405-5802
TITLE Deputy Project Manager SIGNATURE
BASELINE IDENTIFICATION
BASELINE(S) AFFECTED Cost Scope Milestone Method of Accomplishment
AFFECTED DOCUMENT (TITLE, NUMBER AND SECTION) Remedial Design for Soil, Sediment, and Surface Water at RVAAP-13 Building 1200 and RVAAP-48 Anchor Test Area (Section 6.0)
DESCRIPTION OF CHANGE: Due to the timing of the remedial action and potential saturated soil that may be encountered, Leidos and Remedial Subcontractor would also like a provision to use Calciment® as a drying agent during the Building 1200 and Anchor Test Area remedial actions. On an as needed basis, Calciment® will be mixed with excavated soil. The drying agent will be mixed with the excavated soil to ensure the material does not have free liquids when it is loaded to the haul trucks and can be accepted for disposed at the landfill. The Calciment will not change the characteristics of the disposed material. Attached to this FCR are lab sheets presenting typical chemical analysis and TCLP analysis of Calciment®.
JUSTIFICATION:
Justification for use of the Calciment® is to ensure haul trucks do not contain any free liquids during transport and the excavated material is dry enough to be accepted at the receiving landfill.
IMPACT OF NOT IMPLEMENTING REQUEST:
The use of the drying agent will ensure the truck loads will not leak during transportation to the landfill and will ensure the landfill will accept the disposed material. The use of the Calciment® will minimize disposa volumes, relative to volumes created from other drying agents such as sawdust.
PARTICIPANTS AFFECTED BY IMPLEMENTING REQUEST: Leidos and Remedial Subcontractor
COST ESTIMATE (\$) 0 ESTIMATOR SIGNATURE No cost impact to USACE PHONE NA DATE NA
PREVIOUS FCR AFFECTED YES NO; IF YES, FCR NO
USACE COTR Mal DATE 10/29/2014
OHIO EPA PROJECT MANAGER AL SKA DATE 11/5/14
LEIDOS H&S MANGER SIGNATURE (IF APPLICABLE) NA DATE NA

Page 1 of 3



CALCIMENT®

Typical Chemical Analysis Grand River

<u>Element</u>	<u>Formula</u>	Percent
Total Calcium Oxide	CaO	64.89
Magnesium Oxide	MgO	2.86
Silicon Dioxide	SiO ₂	7.86
Aluminum Oxide	Al_2O_3	3.56
Iron Oxide	Fe2O ₃	0.89
Potassium Oxide	K_2O_3	0.46
Sulfur Trioxide	SO_3	4.34
Sodium Oxide	Na ₂ O	.38
Titanium Dioxide	TiO ₂	0.13
Manganese Dioxide	MnO_2	0.04
Phosphorus Pentoxide	P_2O_5	0.20
Strontium Oxide	SrO	0.07
Barium Oxide	BaO	0.07
Carbon	C	14.25
Available\Free Calcium Oxide		40 - 45



$\underline{CALCIMENT@}$

TCLP

Grand River, OH

ELEMENT	FORMULA	RESULT mg/L	LIMIT
ARSENIC	As	< 2.500	5.00
BARIUM	Ba	0.300	100.00
CADMIUM	Cd	< 0.010	1.00
CHROMIUM	Cr	< 0.050	0.05
LEAD	Pb	< 0.10	5.00
MERCURY	Hg	< 0.005	0.20
SELENIUM	Se	< 0.50	1.00
SILVER	$\mathbf{A}\mathbf{g}$	< 0.01	5.00

FCR NOFCR-RVAAPB1200-002	DATE INITIATED <u>10/24/14</u>
PROJECT <u>Building 1200 and Anchor Test Area Remedial Action</u> CONTRACT NO. GSA Contract No. W912QR-04-D-0028 Delivery Order	· No. 0001
REQUESTOR IDENTIFICATION NAME Jed Thomas ORGANIZATION Leidos PHONE	E 330-405-5802
<u> </u>	<u> </u>
TITLE Deputy Project Manager SIGNATURE	-
BASELINE IDENTIFICATION	
BASELINE(S) AFFECTED ☐ Cost ☐ Scope ☐ Milestone ☒ Metho	od of Accomplishment
AFFECTED DOCUMENT (TITLE, NUMBER AND SECTION)	
Remedial Design for Soil, Sediment, and Surface Water at RVAAP-13 B	uilding 1200 and RVAAP-48
Anchor Test Area (Section 8.1)	

DESCRIPTION OF CHANGE:

Section 8.1 of the referenced Remedial Design indicates the a previous backfill source will be utilized for backfill once the cleanup goals are attained during the soil excavation at the Building 1200 and Anchor Test Area AOCs. However, the backfill source specified in the Remedial Design is no longer available for use. Accordingly, Leidos identified and sampled a new backfill source at Patrick Excavating and Trucking at 5839 State Route 5, Ravenna, Ohio.

On September 11, 2014, the staged backfill source at Patrick Excavating and Trucking was sampled.

One ISM sample (B12bf-060M-0014M-SO) was collected and analyzed for RVAAP full suite parameters except VOCs. One discrete sample (B12bf-060-0015-SO) was collected and analyzed for VOCs.

The results of the analyses are attached to this FCR. Data was screened using the RVAAP surface soil background values and Resident Receptor cleanup goals (CUGs) at 10-6 risk. The EPA Regional Screening Level for resident for soil (10-6 risk) (May 2014) was used if an analyte did not have a CUG. A brief summary of the results are presented below.

- 1) All analyte concentrations were below either the surface background values or the screening level.
- 2) All pesticide, PCB, explosive, and VOC analyte concentrations were either not detectable or had estimated concentrations.
- 3) All SVOC analyte concentrations were either not detectable or were below the screening level, with the exception of benzo(a)pyrene at a concentration of 0.11 mg/kg. The concentration of benzo(a)pyrene (0.11 mg/kg) is less than half the Resident Farmer CUG at 10-5 of 0.221 mg/kg.

Additional details of the sampling activities will be presented in the Remedial Action Report.

JUSTIFICATION:

The justification for this FCR is to obtain approval of staged soil for use as backfill after the Building 1200 and Anchor Test Areas meet the cleanup goals. As noted, the source used previously and cited in the Remedial Design is no longer available for use. Having acceptable backfill available for the remedial action is a critical component of completing this remedial action.

IMPACT OF NOT IMPLEMENTING REQUEST:

The impact of not implementing request is there will not be soil backfill available at the time the cleanup goals are attained during the soil removal activities. This would result in having open excavations that may result in ponding of storm water, safety hazards, and will delay the overall site restoration component of this remedial action.

OST ESTIMATE (\$) <u>0</u>	ESTIMATOR SIGNATURE <u>No</u> PHONE <u>NA</u> DATE <u>NA</u>	cost impact to USACE
REVIOUS FCR AFFECTED	YES NO; IF YES, FCR NO.	
SACE COTR	mad W. Willer	DATE 10/29/2014
HIO EPA PROJECT MANA	GER Ah Mh	DATE 10/29/2014 DATE 11/5/14/
EIDOS H&S MANGER SIGNA	TURE (IF APPLICABLE) NA	DATE <u>NA</u>
`		
	Page 2 of 2	

			Screening			
	CAS	Background		Screening	B12bf-060-	B12bf-060M-
Sample Id	Number	Criteria	Risk=1E-6)	Level Source	0015-SO	0014-SO
Date					09/11/14	09/11/14
Analyte						
	1		etals	1	1	ı
Aluminum	7429-90-5	17700	7380		NR	6400
Antimony	7440-36-0	0.96		RFC	NR	0.13 J
Arsenic	7440-38-2	15.4	0.425		NR	7.4
Barium	7440-39-3	88.4	1413		NR	46 J
Beryllium	7440-41-7	0.88		RSL	NR	0.38 J
Cadmium	7440-43-9	0		RFC	NR	<0.35 UJ
Calcium	7440-70-2	15800	1000000		NR	1700
Chromium	7440-47-3	17.4	8147	RFC	NR	15 J
Cobalt	7440-48-4	10.4	131	RFC	NR	6.4
Copper	7440-50-8	17.7	311	RFC	NR	7.4
Iron	7439-89-6	23100	180000	RDA	NR	14000
Lead	7439-92-1	26.1	400	RSL	NR	17
Magnesium	7439-95-4	3030	1000000	RDA	NR	1200
Manganese	7439-96-5	1450	293	RFC	NR	590
Nickel	7440-02-0	21.1	155	RFC	NR	11 J
Potassium	7440-09-7	927	1000000	RDA	NR	370
Selenium	7782-49-2	1.4	39	RSL	NR	1.4
Silver	7440-22-4	0	38.6	RFC	NR	0.038 J
Sodium	7440-23-5	123	1000000	RDA	NR	71 J
Thallium	7440-28-0	0	0.612	RFC	NR	<0.35 UJ
Vanadium	7440-62-2	31.1		RFC	NR	15
Zinc	7440-66-6	61.8	2321		NR	33 J
		Organics -	- Explosives		.1	<u>.</u>
1,3,5-Trinitrobenzene	99-35-4		225	RFC	NR	<0.05 U
1,3-Dinitrobenzene	99-65-0		0.765		NR	<0.05 U
2,4,6-Trinitrotoluene	118-96-7			RFC	NR	<0.05 U
2,4-Dinitrotoluene	121-14-2		0.753		NR	<0.05 U
2,6-Dinitrotoluene	606-20-2		0.769		NR	<0.05 U
2-Amino-4,6-Dinitrotoluene	35572-78-2			RFC	NR	<0.05 U
2-Nitrotoluene	88-72-2			RFC	NR	<0.05 U
3-Nitrotoluene	99-08-1			RSL	NR	<0.05 U
4-Amino-2,6-Dinitrotoluene	19406-51-0			RFC	NR	<0.05 U
4-Nitrotoluene	99-99-0			RFC	NR	<0.05 U
HMX	2691-41-0			RFC	NR	<0.05 U
Nitrobenzene	98-95-3			RSL	NR	<0.05 U
Nitrocellulose	9004-70-0		18000000		NR	<1.8 U
Nitroglycerin	55-63-0			RFC	NR	<0.25 U
Nitroguanidine Nitroguanidine	556-88-7			RSL	NR	<0.039 U
PETN	78-11-5			RSL	NR	0.04 J
RDX	121-82-4			RFC	NR	<0.05 U
Tetryl	479-45-8			RSL	NR	<0.05 U
1011 1	T17- 1 3-0	Organics -	Semivolatile 12	INDL	111	1 < 0.03 0
1,2,4-Trichlorobenzene	120-82-1	Organics -		RSL	NR	<0.043 U
1,4,4-111CHIOLOUCHZCHC	120-02-1		3.8	NOL	111/	<0.0 4 3 U

	~.~		Screening		7.40.000	
	CAS	Background	Level(HQ=.1,	Screening	B12bf-060-	B12bf-060M-
Sample Id	Number	Criteria	Risk=1E-6)	Level Source	L	0014-SO
Date	_				09/11/14	09/11/14
Analyte						
1,2-Dichlorobenzene	95-50-1		180	RSL	NR	<0.086 U
1,3-Dichlorobenzene	541-73-1			NR	NR	<0.086 U
1,4-Dichlorobenzene	106-46-7			RSL	NR	<0.086 U
2,4,5-Trichlorophenol	95-95-4			RSL	NR	<0.17 U
2,4,6-Trichlorophenol	88-06-2			RSL	NR	<0.086 UJ
2,4-Dichlorophenol	120-83-2			RSL	NR	<0.17 U
2,4-Dimethylphenol	105-67-9			RSL	NR	<0.17 U
2,4-Dinitrophenol	51-28-5			RSL	NR	<0.17 U
2-Chloronaphthalene	91-58-7			RSL	NR	<0.0043 U
2-Chlorophenol	95-57-8			RSL	NR	<0.086 U
2-Methyl-4,6-dinitrophenol	534-52-1			RSL	NR	<0.086 U
2-Methylnaphthalene	91-57-6			RFC	NR	0.011 J
2-Methylphenol	95-48-7		310	RSL	NR	<0.17 U
2-Nitrobenzenamine	88-74-4		61	RSL	NR	<0.086 U
2-Nitrophenol	88-75-5			NR	NR	<0.086 U
3+4-Methylphenol	15831-10-4		620	RSL	NR	<0.17 U
3,3'-Dichlorobenzidine	91-94-1		1.2	RSL	NR	<0.17 U
3-Nitrobenzenamine	99-09-2			NR	NR	<0.17 U
4-Bromophenyl phenyl ether	101-55-3			NR	NR	<0.086 U
4-Chloro-3-methylphenol	59-50-7		620	RSL	NR	<0.17 U
4-Chlorobenzenamine	106-47-8		2.7	RSL	NR	<0.17 U
4-Chlorophenyl phenyl ether	7005-72-3			NR	NR	<0.086 U
4-Nitrobenzenamine	100-01-6		25	RSL	NR	<0.17 U
4-Nitrophenol	100-02-7			RFC	NR	<0.17 U
Acenaphthene	83-32-9			RSL	NR	<0.0085 U
Acenaphthylene	208-96-8			RSL	NR	<0.0043 U
Anthracene	120-12-7		1700		NR	0.013 J
Benz(a)anthracene	56-55-3		0.221	RFA	NR	0.084
Benzenemethanol	100-51-6			RSL	NR	<0.17 U
Benzo(a)pyrene	50-32-8		0.022		NR	0.11 *
Benzo(b)fluoranthene	205-99-2		0.221		NR	0.16
Benzo(ghi)perylene	191-24-2			RSL	NR	0.12
Benzo(k)fluoranthene	207-08-9			RFA	NR	0.086
Benzoic acid	65-85-0		25000		NR	0.2 J
Bis(2-chloroethoxy)methane	111-91-1			RFC	NR	<0.17 U
Bis(2-chloroethyl) ether	111-44-4			RSL	NR	<0.0085 U
Bis(2-chloroisopropyl) ether	108-60-1			RSL	NR	<0.086 U
Bis(2-ethylhexyl)phthalate	117-81-7			RSL	NR	<0.086 U
Butyl benzyl phthalate	85-68-7			RSL	NR	<0.086 U
Carbazole	86-74-8			RFC	NR	<0.086 U
Chrysene	218-01-9			RFA	NR	0.11
Di-n-butyl phthalate	84-74-2			RSL	NR	<0.086 U
Di-n-octylphthalate	117-84-0			RSL	NR	<0.086 U
• •	_					
Dibenz(a,h)anthracene	53-70-3		0.022	KFA	NR	<0.0085 U

			Screening			
	CAS	Background	Level(HQ=.1,	Screening	B12bf-060-	B12bf-060M-
Sample Id	Number	Criteria	Risk=1E-6)	Level Source	0015-SO	0014-SO
Date					09/11/14	09/11/14
Analyte		1		1	1	
Dibenzofuran	132-64-9			RFC	NR	<0.0085 U
Diethyl phthalate	84-66-2		4900		NR	<0.086 U
Dimethyl phthalate	131-11-3			NR	NR	<0.086 U
Fluoranthene	206-44-0			RFC	NR	0.2
Fluorene	86-73-7			RFC	NR	<0.0085 U
Hexachlorobenzene	118-74-1			RSL	NR	<0.0085 U
Hexachlorobutadiene	87-68-3			RSL	NR	<0.086 U
Hexachlorocyclopentadiene	77-47-4			RSL	NR	<0.086 U
Hexachloroethane	67-72-1			RSL	NR	<0.086 U
Indeno(1,2,3-cd)pyrene	193-39-5		0.221	RFA	NR	0.096
Isophorone	78-59-1		560	RSL	NR	<0.086 U
N-Nitroso-di-n-propylamine	621-64-7		0.12	RFC	NR	<0.086 U
N-Nitrosodiphenylamine	86-30-6		110	RSL	NR	<0.086 U
Naphthalene	91-20-3		122	RFC	NR	0.0093 J
Pentachlorophenol	87-86-5		2.12	RFA	NR	<0.086 U
Phenanthrene	85-01-8		170	RSL	NR	0.066
Phenol	108-95-2		1800	RSL	NR	<0.086 U
Pyrene	129-00-0		122	RFC	NR	0.16
		Organics - I	Pesticide/PCB	ı	.1.	
4,4'-DDD	72-54-8	T J		RSL	NR	<0.0017 U
4,4'-DDE	72-55-9			RFC	NR	0.0011 J
4,4'-DDT	50-29-3			RSL	NR	<0.0017 U
Aldrin	309-00-2		0.053		NR	<0.0017 U
Dieldrin	60-57-1		0.056		NR	<0.0017 U
Endosulfan I	959-98-8			RSL	NR	<0.0017 U
Endosulfan II	33213-65-9			RSL	NR	<0.0017 U
Endosulfan sulfate	1031-07-8			RSL	NR	<0.0017 U
Endrin	72-20-8			RFC	NR	<0.0017 U
Endrin aldehyde	7421-93-4			RSL	NR	<0.0017 U
Endrin ketone	53494-70-5			RSL	NR	<0.0017 U
Heptachlor	76-44-8		0.198		NR	<0.0017 U
Heptachlor epoxide	1024-57-3		0.098		NR	<0.0017 U
Lindane	58-89-9			RSL	NR	0.003 J
Methoxychlor	72-43-5			RSL	NR	<0.003 J
Toxaphene	8001-35-2	 		RSL	NR	<0.0033 U <0.034 U
alpha-BHC	319-84-6		0.48		NR	0.0049 J
alpha-Chlordane	519-64-0			RSL	NR	<0.0049 J
beta-BHC	319-85-7	1	0.496		NR NR	0.0017 U
delta-BHC	319-85-7	1	0.490			
		-	1.0	NR	NR ND	<0.0017 U
gamma-Chlordane	5103-74-2	O	s - Volatile	RSL	NR	0.0019 J
1.1.1 (0.2.11	71 55 6	Organic,		DCI	-0.0012 II	IND
1,1,1-Trichloroethane	71-55-6			RSL	<0.0012 U	NR
1,1,2,2-Tetrachloroethane	79-34-5			RSL	<0.0012 UJ	NR
1,1,2-Trichloroethane	79-00-5		0.15	RSL	<0.0012 U	NR

			Screening			
	CAS	Background	Level(HQ=.1,	Screening	B12bf-060-	B12bf-060M-
Sample Id	Number	Criteria	Risk=1E-6)	Level Source	0015-SO	0014-SO
Date					09/11/14	09/11/14
Analyte						
1,1-Dichloroethane	75-34-3		3.6	RSL	<0.0012 U	NR
1,1-Dichloroethene	75-35-4		23	RSL	<0.0012 U	NR
1,2-Dibromoethane	106-93-4		0.036	RSL	<0.0012 UJ	NR
1,2-Dichloroethane	107-06-2		0.46	RSL	<0.0012 U	NR
1,2-Dichloroethene	540-59-0			NR	<0.0024 U	NR
1,2-Dichloropropane	78-87-5		1	RSL	<0.0024 U	NR
2-Butanone	78-93-3		2700	RSL	<0.0047 U	NR
2-Hexanone	591-78-6		20	RSL	<0.0012 U	NR
4-Methyl-2-pentanone	108-10-1		530	RSL	<0.0012 U	NR
Acetone	67-64-1		6100	RSL	<0.018 UJ	NR
Benzene	71-43-2		1.2	RSL	<0.00059 UJ	NR
Bromochloromethane	74-97-5		15	RSL	<0.0024 U	NR
Bromodichloromethane	75-27-4		0.29	RSL	<0.00059 UJ	NR
Bromoform	75-25-2		67	RSL	<0.0012 U	NR
Bromomethane	74-83-9		0.68	RSL	<0.0012 U	NR
Carbon disulfide	75-15-0		77	RSL	<0.0012 U	NR
Carbon tetrachloride	56-23-5		0.65	RSL	<0.0012 U	NR
Chlorobenzene	108-90-7		28	RSL	<0.0012 UJ	NR
Chloroethane	75-00-3		1400	RSL	<0.0012 U	NR
Chloroform	67-66-3		0.32	RSL	<0.00059 U	NR
Chloromethane	74-87-3		11	RSL	<0.00059 U	NR
Dibromochloromethane	124-48-1		0.73	RSL	<0.0012 UJ	NR
Ethylbenzene	100-41-4		5.8	RSL	<0.00059 UJ	NR
Methylene chloride	75-09-2		35	RSL	<0.0024 U	NR
Styrene	100-42-5		600	RSL	<0.00059 UJ	NR
Tetrachloroethene	127-18-4			RSL	<0.0012 UJ	NR
Toluene	108-88-3			RSL	<0.00059 UJ	NR
Trichloroethene	79-01-6		0.41	RSL	<0.0012 UJ	NR
Vinyl chloride	75-01-4		0.059	RSL	<0.0012 U	NR
Xylenes, total	1330-20-7		58	RSL	<0.0024 U	NR
cis-1,3-Dichloropropene	10061-01-5			RSL	<0.0012 UJ	NR
trans-1,3-Dichloropropene	10061-02-6		1.8	RSL	<0.0012 U	NR

^{*-} Exceeds screening level

NR- not reported

U-not detected

UJ-not detected, reporting limit estimated

J- estimated

RFC-Resident Farmer Child

RFA-Resident Farmer Adult

RDA-Recommended dail allowance for nutrient

RSL-EPA Regional Screening Level for resident for soil (May 2014)

FCR NO. <u>FCR-RVAAPB1200-003</u> PROJECT <u>Building 1200 and Anchor Test Area Remedial Action</u> CONTRACT NO. <u>GSA Contract No. W912QR-04-D-0028 Delivery Order No. 0001</u>
REQUESTOR IDENTIFICATION NAME Jed Thomas ORGANIZATION Leidos PHONE 330-405-5802
TITLE Deputy Project Manager SIGNATURE
BASELINE IDENTIFICATION
BASELINE(S) AFFECTED Cost Scope Milestone Method of Accomplishment
AFFECTED DOCUMENT (TITLE, NUMBER AND SECTION) Remedial Design for Soil, Sediment, and Surface Water at RVAAP-13 Building 1200 and RVAAP-48 Anchor Test Area (Section 6.0)
DESCRIPTION OF CHANGE: Due to the timing of the remedial action and potential saturated soil that may be encountered, in addition to potentially using Calciment® as a drying agent, Leidos and Remedial Subcontractor would also like a provision to use Stabl-Zorb as a drying agent during the Building 1200 and Anchor Test Area remedial actions. On an as needed basis, the Stabl-Zorb will be mixed with excavated soil. Stabl-Zorb is designed to both aid in fluid stabilization and is an all-natural product made of corncob. Stabl-Zorb is an environmentally-friendly remediation material. The drying agent will be mixed with the excavated soil to ensure the material does not have free liquids when it is loaded to the haul trucks and can be accepted for disposed at the landfill. The Stabl-Zorb will not change the characteristics of the disposed material. Attached to this FCR are Safety Data Sheets associated with this material.
JUSTIFICATION:
Justification for use of the Stabl-Zorb is to ensure hauf trucks do not contain any free liquids during transport and the excavated material is dry enough to be accepted at the receiving landfill.
IMPACT OF NOT IMPLEMENTING REQUEST:
The use of the drying agent will ensure the truck loads will not leak during transportation to the landfill and will ensure the landfill will accept the disposed material. The use of the Stabi-Zorb will minimize disposal volumes, relative to volumes created from other drying agents such as sawdust.
PARTICIPANTS AFFECTED BY IMPLEMENTING REQUEST: Leidos and Remedial Subcontractor
COST ESTIMATE (\$) _0
PREVIOUS FCR AFFECTED TYES NO; IF YES, FCR NO
USACE COTR Multin DATE 11/4/2014 OHIO EPA PROJECT MANAGER AR DATE 11/5/2014
OHIO EPA PROJECT MANAGER ARE 11/5/2014
LEIDOS H&S MANGER SIGNATURE (IF APPLICABLE) NA DATE NA
Page 1 of 5



THE ANDERSONS SAFETY DATA SHEET

DATE PREPARED: 10/17/00 CURRENT AS OF: 6/18/14

SECTION 1: PRODUCT / SUPPLIER IDENTIFICATION

PRODUCT NAMES: Dri-Zorb®, DZ300, Stabl-Cobs™, Stabl-Pell™, Grit-O'Cobs®, Lite-R'Cobs®, XRP®,

Stabl-Zorb™

PRODUCT USE: Comcob carrier / filler

MFR INFO: The Andersons Cob Products

PO Box 119

Maumee, Ohio, USA 43537

FOR EMERGENCY: (800) 757-8951 FOR INFORMATION: (419) 891-2957

SECTION 2: HAZARDS IDENTIFICATION

HAZARD SYMBOLS / STATEMENTS:



WARNING

MAY CAUSE MILD SKIN IRRITATION MAY CAUSE EYE IRRITATION MAY CAUSE RESPIRATORY IRRITATION

 HAZARD CLASSIFICATIONS:
 CATEGORY
 INTERPRETATION

 SKIN IRRITATION
 3
 Mild

 EYE IRRITATION
 2B
 Severe Eye Irritation Possible

TARGET ORGAN SYSTEMIC TOXICITY 3 Transient Respiratory Irritation Possible

PRECAUTIONARY STATEMENTS:

- IF SKIN IRRITATION OCCURS, GET MEDICAL ADVICE
- IF IN EYES, RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES REMOVE CONTACT LENSES
- IF EYE IRRITATION PERSISTS, GET MEDICAL ADVICE
- WASH HANDS AFTER HANDLING
- . USE ONLY OUTDOORS OR IN WELL VENTILATED AREAS
- AVOID BREATHING DUST
- IF INHALED, REMOVE TO FRESH AIR AND KEEP AT REST IN A POSITION COMFORTABLE FOR BREATHING
- DISPOSE OF CONTENTS / CONTAINER IN ACCORDANCE WITH NATIONAL / REGIONAL / LOCAL REGULATIONS

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL IDENTITY SYNONYM CAS NUMBER CONCENTRATION (%)

Corncob fractions Not listed 100.0

Page 1 of 4

CORNCOBS

SECTION 4: FIRST AID MEASURES

IF INHALED: Move victim to fresh air. Seek medical attention if irritation persists.

IF ON SKIN: Wash affected areas with soap and water. Seek medical attention if irritation

persists. Wash contaminated clothing before re-use.

IF IN THE EYES: Immediately flush with water for at least 20 minutes. Seek medical attention if

imitation persists.

IF SWALLOWED: If victim is alert and not convulsing, give one glass of water to dilute material.

Seek immediate medical attention.

SPECIAL TREATMENT: None known HEALTH HAZARDS: See Section 11

SECTION 5: FIREFIGHTING MEASURES

EXTINGUISHING MEDIA: Use media suitable for surrounding fire. No special media

required.

SPECIFIC FIRE HAZARDS: Decomposition products may be toxic; typical of wood smoke.

SPECIAL FIREFIGHTING PROCEDURES: Wear full protective clothing and positive-pressure self-

contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

SPILL / RELEASE PROCEDURES: Collect spilled product and store to re-use. Contaminated product

and/or environmental media should be recovered and disposed of

properly.

ENVIRONMENTAL PRECAUTIONS: Prevent spilled material from entering storm drains or water bodies.

PROTECTIVE EQUIPMENT: See Section 8

SECTION 7: HANDLING AND STORAGE

Store in a cool, dry, well ventilated area.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS:

HAZARDOUS COMPONENT **OSHA PEL ACGIH TLV**

15 mg/m³ (total) 5 mg/m³ (respirable) 10 mg/m³ (inhalable) 3 mg/m³ (respirable) Corncob fractions

CORNCOBS

PERSONAL PROTECTIVE EQUIPMENT / PROTECTION MEASURES / CONTROLS;

RESPIRATORY PROTECTION: NIOSH approved particulate respirator, if required

EYE PROTECTION: Safety glasses with sideshields, goggles, or faceshield recommended

SKIN PROTECTION: Long sleeves, cotton gloves recommended

VENTILATION: Local exhaust ventilation recommended

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Tan granules, with no appreciable odor

pH: Not available
MELTING POINT: Not applicable
BOILING POINT: Not applicable

BOILING POINT: Not applicable
FLASH POINT: 350°F (open cup), 388°F (closed cup)

EVAPORATION RATE: Not applicable FLAMMABLE LIMITS: Not applicable VAPOR PRESSURE: Not applicable VAPOR DENSITY: Not applicable SPECIFIC GRAVITY: 0.8 – 1.2

SOLUBILITY (IN WATER): Practically insoluble PARTITION COEFFICIENT: Not applicable AUTOIGNITION TEMP: Not applicable DECOMPOSITION TEMP: Not applicable

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Product is stable

CONDITIONS TO AVOID: Excessive heat (over 300°F)

INCOMPATIBILITY: Strong oxidizers, caustics, acids

HAZARDOUS DECOMPOSITION PRODUCTS: CO,

SECTION 11: TOXICOLOGICAL INFORMATION

HEALTH EFFECTS: May be irritating to the nose and respiratory tract. Skin irritation may result from

repeated or prolonged exposure. May also be irritating to the eyes.

CARCINOGENICITY: The ingredient is not a known / listed carcinogen.

INGREDIENT TOXICITY RANGES:

ORAL: None listed

DERMAL: None listed

INHALATION: None listed

SECTION 12: ECOLOGICAL INFORMATION

This product is not known to be ecotoxic, persistent, or have the potential to bioaccumulate.

Page 3 of 4

CORNCOBS

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of in accordance with all national, regional / state, and local regulations. Reuse recovered product where possible.

SECTION 14: TRANSPORT INFORMATION

This product is not regulated as a transportation hazard.

SECTION 15: REGULATORY INFORMATION

SARA SECTION 311 / 312 HAZARD CATEGORY: IMMEDIATE HAZARD

SECTION 16: OTHER INFORMATION

NFPA RATINGS: HEALTH

FLAMMABILITY 0 INSTABILITY 0

HMIS RATINGS: HEALTH

FLAMMABILITY 0 PHYSICAL HAZARD 0

PREPARED BY: SS

The information and data contained herein is based upon facts considered to be correct as of the date hereof. Information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. In no event will The Andersons be responsible for damages of any nature whatsoever resulting from the use or reliance upon this information. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to information or the product to which this information refers.

APPENDIX C LABORATORY ANALYTICAL RESULTS

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THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Canton 4101 Shuffel Street NW North Canton, OH 44720 Tel: (330)497-9396

TestAmerica Job ID: 240-44561-1

Client Project/Site: RVAAP Building 1200 and ATA Remedial

Act

For:

Leidos, Inc. 8866 Commons Boulevard Suite 201 Twinsburg, Ohio 44087

Attn: Jed Thomas

Authorized for release by: 11/25/2014 3:02:06 PM

Mark Loeb, Project Manager II (330)966-9387 mark.loeb@testamericainc.com

-----LINKS

Review your project results through

Have a Question?



Visit us at: www.testamericainc.com This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Leidos, Inc.P TestAmerica Job ID: 240-44561-1P

roject/Site: RVAAP Building 1200 and ATA Remedial ActP

Toxicity Equivalent Factor (Dioxin)P

Toxicity Equivalent Quotient (Dioxin)P

163tAmerica 30b ib. 240-4430 i- ii

QualifiersG

Metals

Qualifier	Qualifier Description
DP	The reported value is from a dilution.P
JP	Estimated: The analyte was positively identified; the quantitation is an estimationP

lossaryG

TEFP

TEQP

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤P	Listed under the "D" column to designate that the result is reported on a dry weight basisP
%R	Percent RecoveryP
CFLP	Contains Free LiquidP
CNFP	Contains no Free LiquidP
DERP	Duplicate error ratio (normalized absolute difference)P
Dil Fa	Dilution FactorP
DL, RA, RE, INP	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sampleP
DLCP	Decision level concentrationP
MDAP	Minimum detectable activityP
EDLP	Estimated Detection LimitP
MDCP	Minimum detectable concentrationP
MDLP	Method Detection LimitP
MLP	Minimum Level (Dioxin)P
NCP	Not CalculatedP
NDP	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation LimitP
QCP	Quality ControlP
RERP	Relative error ratioP
RLP	Reporting Limit or Requested Limit (Radiochemistry)P
RPDP	Relative Percent Difference, a measure of the relative difference between two pointsP

Case NarrativeE

Client: Leidos, Inc.P TestAmerica Job ID: 240-44561-1

Project/Site: RVAAP Building 1200 and ATA Remedial ActP

Job ID: 240-44561-1vv

Laboratory: TestAmerica CantonE

NarrativeE

CASE NARRATIVE

Client: Leidos, Inc.E

Project: RVAAP Building 1200 and ATA Remedial ActE

Report Number: 240-44561-1E

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples anP no P problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control P limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of P the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted amples, P the reporting limits are adjusted relative to the dilution required.P

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses P performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the P application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, anP data P have been found to be compliant with laboratory protocols unless otherwise noted below.P

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions P to NELAP requirements are noted in this report. Pursuant to NEPAP, this report may not be reproduced, except in full, without the written P approval of the laboratory.P

Calculations are performed before rounding to avoid round-off errors in calculated results.P

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed the P individual sections below.P

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the P method header P

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.P

RECEIPTE

The samples were received on 11/19/2014 10:15 AM; the samples arrived in good condition, properly preserved and, where requireP, on P ice. The temperature of the cooler at receipt was 5.6° C.P

TOTAL METALS (ICPMS) WITH INCREMENTAL SAMPLE PREPARATIONE

Samples ATAcs-026M-0006-SO (240-44561-1), ATAcs-027M-0007-SO (240-44561-2), ATAcs-028M-0008-SO (240-44561-3), P ATAcs-029M-0009-SO (240-44561-4), ATAcs-030M-0010-SO (240-44561-5) and ATAcs-027M-0011-FD (240-44561-6) were analyzed for P total metals (ICPMS) with incremental sample preparation in accordance with ITRC Technical and Regulatory Guidance: ISM, February P 2012 and EPA SW-846 Method 6020 DoD. The samples began the drying process on 11/19/2014 and were ground, sieved and P subaliquoted on 11/19/2014. Samples were digested for metals analysis on 11/21/2014 and analyzed on 11/24/2014. P

Arsenic was detected in method blank MB 240-157854/1-A at a level that was above the method detection limit but below the reporting P limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL P and/or RL, the result has been flagged. Refer to the QC report for details.P

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.P

TOTAL SOLIDS/PERCENT MOISTURE

TestAmerica CantonP

11/25/2014

Case NarrativeE

Client: Leidos, Inc.P TestAmerica Job ID: 240-44561-1

Project/Site: RVAAP Building 1200 and ATA Remedial ActP

Job ID: 240-44561-1 (Continued)E

Laboratory: TestAmerica Canton (Continued)E

Samples ATAcs-026M-0006-SO (240-44561-1), ATAcs-027M-0007-SO (240-44561-2), ATAcs-028M-0008-SO (240-44561-3), P ATAcs-029M-0009-SO (240-44561-4), ATAcs-030M-0010-SO (240-44561-5) and ATAcs-027M-0011-FD (240-44561-6) were analyzed for P Total Solids/Percent Moisture in accordance with Percent Moisture method. The samples were leached on 11/19/2014 and analyzed on P 11/21/2014. P

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.P

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Method Summary

Client: Leidos, Inc.P

roject/Site: RVAAP Building 1200 and ATA Remedial ActP

TestAmerica Job ID: 240-44561-1P

Method	Method Description	Protocol	Laboratory
6020P	Metals (ICP/MS)	SW846P	TAL CANP
Moisture	Percent MoistureP	EPAP	TAL CANP

Protocol References:

EPA = US Environmental Protection Agencyaa

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.aPa

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396P

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Sample Summary

Client: Leidos, Inc.P

roject/Site: RVAAP Building 1200 and ATA Remedial ActP

TestAmerica Job ID: 240-44561-1P

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-44561-1P	ATAcs-026M-0006-SOP	SolidP	11/18/14 13:50P	11/19/14 10:15P
240-44561-2P	ATAcs-027M-0007-SOP	SolidP	11/18/14 12:35P	11/19/14 10:15P
240-44561-3P	ATAcs-028M-0008-SOP	SolidP	11/18/14 13:00P	11/19/14 10:15P
240-44561-4P	ATAcs-029M-0009-SOP	SolidP	11/18/14 13:15P	11/19/14 10:15P
240-44561-5P	ATAcs-030M-0010-SOP	SolidP	11/18/14 13:30P	11/19/14 10:15P
240-44561-6P	ATAcs-027M-0011-FDP	SolidP	11/18/14 12:35P	11/19/14 10:15P

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Detection Summary5

Client: Leidos, Inc.P

Arsenic

roject/Site: RVAAP Building 1200 and ATA Remedial ActP

TestAmerica Job ID: 240-44561-1P

Client Sample ID: ATAcs	s-026M-0006-SO5			Lab Sample ID	: 240-44561-1
Analyte5	Result5 Qualifier5	LOQ5	DL5 Unit5	Dil Fac5 D5 Method5	Prep Type5
Arsenic	14P DP	0.95P	0.025P mg/KgP	2P 🌣 6020P	Total/NA
Client Sample ID: ATAcs	s-027M-0007-SO5			Lab Sample ID): 240-44561-2
– Analyte5	Result5 Qualifier5	LOQ5	DL5 Unit5	Dil Fac5 D5 Method5	Prep Type5
Arsenic	11P DP	0.84P	0.022P mg/KgP	2P 🌣 6020P	Total/NA
Client Sample ID: ATAcs	s-028M-0008-SO5			Lab Sample ID	: 240-44561-
Analyte5	Result5 Qualifier5	LOQ5	DL5 Unit5	Dil Fac5 D5 Method5	Prep Type5
Arsenic	15P DP	0.90P	0.023 mg/KgP	2P ₹ 6020P	Total/NA
Client Sample ID: ATAcs	s-029M-0009-SO5			Lab Sample ID): 240-44561-4
Analyte5	Result5 Qualifier5	LOQ5	DL5 Unit5	Dil Fac5 D5 Method5	Prep Type5
Arsenic	11P DP	0.96P	0.025P mg/KgP	2P [‡] 6020P	Total/NA
Client Sample ID: ATAcs	s-030M-0010-SO5			Lab Sample ID): 240-44561-
Analyte5	Result5 Qualifier5	LOQ5	DL5 Unit5	Dil Fac5 D5 Method5	Prep Type5
Arsenic	11P DP	0.92P	0.024P mg/KgP	2P 6020P	Total/NA
Client Sample ID: ATAcs	s-027M-0011-FD5			Lab Sample ID): 240-44561-6
Analyte5	Result5 Qualifier5	LOQ5	DL5 Unit5	Dil Fac5 D5 Method5	Prep Type5

1.0P

0.026P mg/KgP

2P ≅ 6020P

12P DP

11/25/2014

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1 3

Total/NA

Client Sample Resultsr

Client: Leidos, Inc.P TestAmerica Job ID: 240-44561-1P

roject/Site: RVAAP Building 1200 and ATA Remedial ActP

Percent Moisturer

Lab Sample ID: 240-44561-1r

11/21/14 08:44P

Client Sample ID: ATAcs-026M-0006-SOr Date Collected: 11/18/14 13:50r Matrix: Solidr

Date Received: 11/19/14 10:15r Percent Solids: 98.1r

Method: 6020 - Metals (ICP/MS) Analyter	Resultr Qualifier	LOQr	DLr Unitr	Dr	Preparedr	Analyzedr	Dil Facr
Arsenicr	14r Dr	0.95P	0.025P mg/KgP	-	11/21/14 10:12P	11/24/14 10:25P	2P
General Chemistryr							
Analyter	Resultr Qualifier	LOQr	DLr Unitr	Dr	Preparedr	Analyzedr	Dil Facr
Percent Solidsr	98r	0.10P	0.10P %P			11/21/14 08:44P	1P

0.10P

1.9r

0.10P %P

Client Sample Resultsr

Client: Leidos, Inc.P TestAmerica Job ID: 240-44561-1P

roject/Site: RVAAP Building 1200 and ATA Remedial ActP

Client Sample ID: ATAcs-027M-0007-SOr

Lab Sample ID: 240-44561-2r

Matrix: Solidr

Date Collected: 11/18/14 12:35r Date Received: 11/19/14 10:15r Percent Solids: 98.1r

Method: 6020 - Metals (ICP/MS) Analyter Arsenicr	Resultr Qualifier	LOQr 0.84P	DLr Unitr 0.022P mg/KgP	Dr <u></u>	Preparedr 11/21/14 10:12P	Analyzedr 11/24/14 10:44P	Dil Facr 2P
General Chemistryr	Resultr Qualifier	LOOr	DLr Unitr	Dr	Preparedr	Analyzedr	Dil Facr
Percent Solidsr	98r	0.10P	0.10P %P			11/21/14 08:44P	1P
Percent Moisturer	1.9r	0.10P	0.10P %P			11/21/14 08:44P	1P

Client: Leidos, Inc.P TestAmerica Job ID: 240-44561-1P

roject/Site: RVAAP Building 1200 and ATA Remedial ActP

Lab Sample ID: 240-44561-3r

Client Sample ID: ATAcs-028M-0008-SOr Date Collected: 11/18/14 13:00r Matrix: Solidr

Date Received: 11/19/14 10:15r Percent Solids: 98.0r

Method: 6020 - Metals (ICP/MS) Analyter	Resultr Qualifier	LOQr	DLr	Unitr	Dr	Preparedr	Analyzedr	Dil Facr
Arsenicr	15r Dr	0.90P	0.023	mg/KgP	\	11/21/14 10:12P	11/24/14 10:47P	2P
General Chemistryr								

General Chemistryr							
Analyter	Resultr Qualifier	LOQr	DLr Unitr	Dr	Preparedr	Analyzedr	Dil Facr
Percent Solidsr	98r	0.10P	0.10P %P			11/21/14 08:44P	1 _P
Percent Moisturer	2.0r	0.10P	0.10P %P			11/21/14 08:44P	1P

Client: Leidos, Inc.P TestAmerica Job ID: 240-44561-1P

roject/Site: RVAAP Building 1200 and ATA Remedial ActP

Client Sample ID: ATAcs-029M-0009-SOr

Date Collected: 11/18/14 13:15r

Date Received: 11/19/14 10:15r

Lab Sample ID: 240-44561-4r

Matrix: Solidr

Percent Solids: 97.8r

Method: 6020 - Metals (ICP/MS)							
` ,							
Analyter	Resultr Qualifier	LOQr	DLr Unitr	Dr	Preparedr	Analyzedr	Dil Facr

Allalytei	Resulti Qualifiei	LOQI	DEI OIIII	Di	riepareur	Allalyzeui	Diriaci
Arsenicr	11r Dr	0.96P	0.025P mg/KgP	\	11/21/14 10:12P	11/24/14 10:51P	2P
Conoral Chamistman							

General Chemistryr	Beauter Qualifier	1.00-	Di a Haita	D	Duamanadu	Analyseds	Dil Faar
Analyter	Resultr Qualifier	LOQr	DLr Unitr	Dr	Preparedr	Analyzedr	Dil Facr
Percent Solidsr	98r	0.10P	0.10P %P			11/21/14 08:44P	1P
Percent Moisturer	2.2r	0.10P	0.10P %P			11/21/14 08:44P	1P

Client: Leidos, Inc.P TestAmerica Job ID: 240-44561-1P

roject/Site: RVAAP Building 1200 and ATA Remedial ActP

Percent Moisturer

Lab Sample ID: 240-44561-5r

11/21/14 08:44P

Client Sample ID: ATAcs-030M-0010-SOr Date Collected: 11/18/14 13:30r Matrix: Solidr

Date Received: 11/19/14 10:15r Percent Solids: 97.5r

0.10P %P

Method: 6020 - Metals (ICP/MS) Analyter	Resultr Qualifier	LOQr	DLr Unitr	Dr	Preparedr	Analyzedr	Dil Facr
Arsenicr	11r Dr	0.92P	0.024P mg/KgP	<u> </u>	11/21/14 10:12P	11/24/14 11:03	2P
General Chemistryr							
Analyter	Resultr Qualifier	LOQr	DLr Unitr	Dr	Preparedr	Analyzedr	Dil Facr
Percent Solidsr	97r	0.10P	0.10P %P			11/21/14 08:44P	1P

0.10P

2.5r

Client: Leidos, Inc.P TestAmerica Job ID: 240-44561-1P

roject/Site: RVAAP Building 1200 and ATA Remedial ActP

Client Sample ID: ATAcs-027M-0011-FDr

Lab Sample ID: 240-44561-6r

Matrix: Solidr

Date Collected: 11/18/14 12:35r Date Received: 11/19/14 10:15r Percent Solids: 97.5r

Method: 6020 - Metals (ICP/MS)							
Analyter	Resultr Qualifier	LOQr	DLr Unitr	Dr	Preparedr	Analyzedr	Dil Facr
Arsenicr	12r Dr	1.0P	0.026P mg/KgP	<u> </u>	11/21/14 10:12P	11/24/14 11:06P	2P
_							
General Chemistryr							
Analyter	Resultr Qualifier	LOQr	DLr Unitr	Dr	Preparedr	Analyzedr	Dil Facr
Percent Solidsr	97r	0.10P	0.10P %P			11/21/14 08:44P	1P
Percent Moisturer	2.5r	0.10P	0.10P %P			11/21/14 08:44P	1P
	Analyter Arsenicr General Chemistryr Analyter Percent Solidsr	Analyter Resultr Qualifier Arsenicr 12r Dr General Chemistryr Analyter Resultr Qualifier Percent Solidsr 97r	Analyter Resultr Qualifier LOQr Arsenicr 12r Dr 1.0P General Chemistryr Analyter Resultr Qualifier LOQr Percent Solidsr 97r 0.10P	Analyter Resultr Qualifier LOQr DLr Unitr Arsenicr 12r Dr 1.0P 0.026P mg/KgP General Chemistryr Analyter Resultr Qualifier LOQr DLr Unitr Percent Solidsr 97r 0.10P 0.10P %P	Analyter Resultr Qualifier LOQr DLr Unitr Dr Arsenicr 12r Dr 1.0P 0.026P mg/KgP 3 General Chemistryr Analyter Resultr Qualifier LOQr DLr Unitr Dr Percent Solidsr 97r 0.10P 0.10P %P	Analyter Resultr Qualifier LOQr DLr Unitr Dr Preparedr Arsenicr 12r Dr 1.0P 0.026P mg/KgP 3 11/21/14 10:12P General Chemistryr Analyter Analyter Resultr Qualifier LOQr DLr Unitr Dr Preparedr Percent Solidsr 97r 0.10P 0.10P %P	Analyter Resultr Qualifier LOQr DLr Unitr Dr Preparedr Analyzedr Arsenicr 12r Dr 1.0P 0.026P mg/KgP 11/21/14 10:12P 11/24/14 11:06P General Chemistryr Analyter Resultr Qualifier LOQr DLr Unitr Dr Preparedr Analyzedr Percent Solidsr 97r 0.10P 0.10P %P 11/21/14 08:44P

Client: Leidos, Inc.P

roject/Site: RVAAP Building 1200 and ATA Remedial ActP

TestAmerica Job ID: 240-44561-1P

Method: 6020 - Metals (ICP/MS)RR

Lab Sample ID: MB 240-157854/1-A ^2k

Matrix: Solidk

Analysis Batch: 158267k

MBk MBk

Sample Sample

14P DP

Sample Sample

14P DP

Sample Sample

98P

1.9

sultk Qualifierk

sultk Qualifierk

sultk Qualifierk

LOQk **DLk Unitk** Resultk Qualifierk Dk Preparedk Dil Fac Analyte Analyzed 1.0P 0.026P mg/KgP 11/21/14 10:12P 11/24/14 10:18P Arsenic 0.0276P J DP

> Spik Addedk

Spik

Addedk

9.53P

100P

LCSk LCSk

85.8P DP

MSk MSk

22.6P DP

DUk DUk

13.3P DP

DUk DUk

98P

1.8P

Resultk Qualifierk

Resultk Qualifierk

Resultk Qualifierk

Resultk Qualifierk

Unitk

Unitk

Unitk

%P

mg/KgP

mg/KgP

Dk

Dk

mg/KgP

Lab Sample ID: LCS 240-157854/2-A ^2k

Matrix: Solidk

Analysis Batch: 158267k

Analyte

Arsenic

Lab Sample ID: 240-44561-1 MSk

Matrix: Solidk

Analyte

Analysis Batch: 158267k

Arsenic

Lab Sample ID: 240-44561-1 DUk Matrix: Solidk

Analysis Batch: 158267k

Analyte

Arsenic

Method: Moisture - Percent Moisture

Lab Sample ID: 240-44561-1 DUk

Matrix: Solidk

Analysis Batch: 157814k

Analyte ercent SolidsP ercent MoistureP Client Sample ID: Method Blank

Prep Type: Total/NAk Prep Batch: 157854k

Client Sample ID: Lab Control Sample

Prep Type: Total/NAk

Prep Batch: 157854k

%Reck Limitsk 86P 73 - 110P

Client Sample ID: ATAcs-026M-0006-SOk

Prep Type: Total/NAk

Prep Batch: 157854k

%Rec.k

%Reck Limitsk

Client Sample ID: ATAcs-026M-0006-SOk

Prep Type: Total/NAk

Prep Batch: 157854k

PDk PDk Limitk

2P 20P

Client Sample ID: ATAcs-026M-0006-SOk

Prep Type: Total/NAk

4P

20P

PDk Unitk Dk PDk Limit %P 0.08P 20P

TestAmerica CantonP

Client: Leidos, Inc.P

roject/Site: RVAAP Building 1200 and ATA Remedial ActP

TestAmerica Job ID: 240-44561-1P

Metalstt

ISM Prep Batch: 157738b

Lab Sample IDb	Client Sample IDb	Prep Typeb	Matrixb	Methodb	Prep Batchb
240-44561-1P	ATAcs-026M-0006-SOP	Total/NAP	SolidP	Increment, PrepP	
240-44561-1 DU	ATAcs-026M-0006-SOP	Total/NAP	SolidP	Increment, PrepP	
240-44561-1 MSP	ATAcs-026M-0006-SOP	Total/NAP	SolidP	Increment, PrepP	
240-44561-2P	ATAcs-027M-0007-SOP	Total/NAP	SolidP	Increment, PrepP	
240-44561-3P	ATAcs-028M-0008-SOP	Total/NAP	SolidP	Increment, PrepP	
240-44561-4P	ATAcs-029M-0009-SOP	Total/NAP	SolidP	Increment, PrepP	
240-44561-5P	ATAcs-030M-0010-SOP	Total/NAP	SolidP	Increment, PrepP	
240-44561-6P	ATAcs-027M-0011-FDP	Total/NAP	SolidP	Increment, PrepP	

Prep Batch: 157854b

Lab Sample IDb	Client Sample IDb	Prep Typeb	Matrixb	Methodb	Prep Batchb
240-44561-1P	ATAcs-026M-0006-SOP	Total/NAP	SolidP	3050BP	157738P
240-44561-1 DU	ATAcs-026M-0006-SOP	Total/NAP	SolidP	3050BP	157738P
240-44561-1 MSP	ATAcs-026M-0006-SOP	Total/NAP	SolidP	3050BP	157738P
240-44561-2P	ATAcs-027M-0007-SOP	Total/NAP	SolidP	3050BP	157738P
240-44561-3P	ATAcs-028M-0008-SOP	Total/NAP	SolidP	3050BP	157738P
240-44561-4P	ATAcs-029M-0009-SOP	Total/NAP	SolidP	3050BP	157738P
240-44561-5P	ATAcs-030M-0010-SOP	Total/NAP	SolidP	3050BP	157738P
240-44561-6P	ATAcs-027M-0011-FDP	Total/NAP	SolidP	3050BP	157738P
LCS 240-157854/2-A ^2P	Lab Control SampleP	Total/NAP	SolidP	3050BP	
MB 240-157854/1-A ^2P	Method BlankP	Total/NAP	SolidP	3050BP	

Analysis Batch: 158267b

Lab Sample IDb	Client Sample IDb	Prep Typeb	Matrixb	Methodb	Prep Batchb
240-44561-1P	ATAcs-026M-0006-SOP	Total/NAP	SolidP	6020P	157854P
240-44561-1 DU	ATAcs-026M-0006-SOP	Total/NAP	SolidP	6020P	157854P
240-44561-1 MSP	ATAcs-026M-0006-SOP	Total/NAP	SolidP	6020P	157854P
240-44561-2P	ATAcs-027M-0007-SOP	Total/NAP	SolidP	6020P	157854P
240-44561-3P	ATAcs-028M-0008-SOP	Total/NAP	SolidP	6020P	157854P
240-44561-4P	ATAcs-029M-0009-SOP	Total/NAP	SolidP	6020P	157854P
240-44561-5P	ATAcs-030M-0010-SOP	Total/NAP	SolidP	6020P	157854P
240-44561-6P	ATAcs-027M-0011-FDP	Total/NAP	SolidP	6020P	157854P
LCS 240-157854/2-A ^2P	Lab Control SampleP	Total/NAP	SolidP	6020P	157854P
MB 240-157854/1-A ^2P	Method BlankP	Total/NAP	SolidP	6020P	157854P

General Chemistrytt

ISM Prep Batch: 157738b

Lab Sample IDb	Client Sample IDb	Prep Typeb	Matrixb	Methodb	Prep Batchb
240-44561-1P	ATAcs-026M-0006-SOP	Total/NAP	SolidP	Increment, PrepP	
240-44561-1 DU	ATAcs-026M-0006-SOP	Total/NAP	SolidP	Increment, PrepP	
240-44561-2P	ATAcs-027M-0007-SOP	Total/NAP	SolidP	Increment, PrepP	
240-44561-3P	ATAcs-028M-0008-SOP	Total/NAP	SolidP	Increment, PrepP	
240-44561-4P	ATAcs-029M-0009-SOP	Total/NAP	SolidP	Increment, PrepP	
240-44561-5P	ATAcs-030M-0010-SOP	Total/NAP	SolidP	Increment, PrepP	
240-44561-6P	ATAcs-027M-0011-FDP	Total/NAP	SolidP	Increment, PrepP	

Analysis Batch: 157814b

Lab Sample IDb	Client Sample IDb	Prep Typeb	Matrixb	Methodb	Prep Batchb
240-44561-1P	ATAcs-026M-0006-SOP	Total/NAP	SolidP	MoistureP	157738P

TestAmerica CantonP

QC Association Summaryb

TestAmerica Joh ID: 240 44561 1D

roject/Site: RVAAP Building 1200 and ATA Remedial ActP

TestAmerica Job ID: 240-44561-1P

General Chemistry (Continued)tt

Analysis Batch: 157814 (Continued)b

Client: Leidos, Inc.P

Lab Sample IDb	Client Sample IDb	Prep Typeb	Matrixb	Methodb	Prep Batchb
240-44561-1 DU	ATAcs-026M-0006-SOP	Total/NAP	SolidP	MoistureP	157738P
240-44561-2P	ATAcs-027M-0007-SOP	Total/NAP	SolidP	MoistureP	157738P
240-44561-3P	ATAcs-028M-0008-SOP	Total/NAP	SolidP	MoistureP	157738P
240-44561-4P	ATAcs-029M-0009-SOP	Total/NAP	SolidP	MoistureP	157738P
240-44561-5P	ATAcs-030M-0010-SOP	Total/NAP	SolidP	MoistureP	157738P
240-44561-6P	ATAcs-027M-0011-FDP	Total/NAP	SolidP	MoistureP	157738P

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Lab Sample ID: 240-44561-1

Lab Sample ID: 240-44561-31

TestAmerica Job ID: 240-44561-1P

roject/Site: RVAAP Building 1200 and ATA Remedial ActP

Client: Leidos, Inc.P

Client Sample ID: ATAcs-026M-0006-SO1

Date Collected: 1 /18/14 13:501 Matrix: Solid1 Date Received: 1 /19/14 10:151 Percent Solids: 98.1

	Batch1	Batch1		Dilution	Batch1	Prepared1		
Prep Type1	Type1	Method1	Run	Factor1	Number1	or Analyzed1	Analyst1	Lab1
Total/NAP	ISM PrepP	Increment, PrepP			157738P	11/19/14 15:00P	DRJP	TAL CANP
Total/NAP	repP	3050BP			157854P	11/21/14 10:12P	DEEP	TAL CANP
Total/NAP	AnalysisP	6020P		2P	158267P	11/24/14 10:25P	AMM2P	TAL CANP
Total/NAP	ISM PrepP	Increment, PrepP			157738P	11/19/14 15:00P	DRJP	TAL CANP
Total/NAP	AnalysisP	MoistureP		1P	157814P	11/21/14 08:44P	KSP	TAL CANP

Client Sample ID: ATAcs-027M-0007-SO1

Lab Sample ID: 240-44561-21 Date Collected: 1 /18/14 12:351 Matrix: Solid1 Date Received: 1 /19/14 10:151 Percent Solids: 98.1

	Batch1	Batch1		Dilution	Batch1	Prepared1		
Prep Type1	Type1	Method1	Run	Factor1	Number1	or Analyzed1	Analyst1	Lab1
Total/NAP	ISM PrepP	Increment, PrepP			157738P	11/19/14 15:00P	DRJP	TAL CANP
Total/NAP	repP	3050BP			157854P	11/21/14 10:12P	DEEP	TAL CANP
Total/NAP	AnalysisP	6020P		2P	158267P	11/24/14 10:44P	AMM2P	TAL CANP
Total/NAP	ISM PrepP	Increment, PrepP			157738P	11/19/14 15:00P	DRJP	TAL CANP
Total/NAP	AnalysisP	MoistureP		1P	157814P	11/21/14 08:44P	KSP	TAL CANP

Client Sample ID: ATAcs-028M-0008-SO1

Date Collected: 1 /18/14 13:001 Matrix: Solid1 Date Received: 1 /19/14 10:151 Percent Solids: 98.01

	Batch1	Batch1		Dilution	Batch1	Prepared1		
Prep Type1	Type1	Method1	Run	Factor1	Number1	or Analyzed1	Analyst1	Lab1
Total/NAP	ISM PrepP	Increment, PrepP			157738P	11/19/14 15:00P	DRJP	TAL CANP
Total/NAP	repP	3050BP			157854P	11/21/14 10:12P	DEEP	TAL CANP
Total/NAP	AnalysisP	6020P		2P	158267P	11/24/14 10:47P	AMM2P	TAL CANP
Total/NAP	ISM PrepP	Increment, PrepP			157738P	11/19/14 15:00P	DRJP	TAL CANP
Total/NAP	AnalysisP	MoistureP		1P	157814P	11/21/14 08:44P	KSP	TAL CANP

Client Sample ID: ATAcs-029M-0009-SO1

Lab Sample ID: 240-44561-41 Date Collected: 1 /18/14 13:151 Matrix: Solid1 Date Received: 1 /19/14 10:151 Percent Solids: 97.81

_	Batch1	Batch1		Dilution	Batch1	Prepared1		
Prep Type1	Type1	Method1	Run	Factor1	Number1	or Analyzed1	Analyst1	Lab1
Total/NAP	ISM PrepP	Increment, PrepP			157738P	11/19/14 15:00P	DRJP	TAL CANP
Total/NAP	repP	3050BP			157854P	11/21/14 10:12P	DEEP	TAL CANP
Total/NAP	AnalysisP	6020P		2P	158267P	11/24/14 10:51P	AMM2P	TAL CANP
Total/NAP	ISM PrepP	Increment, PrepP			157738P	11/19/14 15:00P	DRJP	TAL CANP
Total/NAP	AnalysisP	MoistureP		1P	157814P	11/21/14 08:44P	KSP	TAL CANP

TestAmerica CantonP

Lab Chronicle1

Client: Leidos, Inc.P TestAmerica Job ID: 240-44561-1P

roject/Site: RVAAP Building 1200 and ATA Remedial ActP

Client Sample ID: ATAcs-030M-0010-SO1

Lab Sample ID: 240-44561-51

Matrix: Solid1

Date Collected: 1 /18/14 13:301 Date Received: 1 /19/14 10:151 Percent Solids: 97.51

	Batch1	Batch1		Dilution	Batch1	Prepared1		
Prep Type1	Type1	Method1	Run	Factor1	Number1	or Analyzed1	Analyst1	Lab1
Total/NAP	ISM PrepP	Increment, PrepP			157738P	11/19/14 15:00P	DRJP	TAL CANP
Total/NAP	repP	3050BP			157854P	11/21/14 10:12P	DEEP	TAL CANP
Total/NAP	AnalysisP	6020P		2P	158267P	11/24/14 11:03	AMM2P	TAL CANP
Total/NAP	ISM PrepP	Increment, PrepP			157738P	11/19/14 15:00P	DRJP	TAL CANP
Total/NAP	AnalysisP	MoistureP		1P	157814P	11/21/14 08:44P	KSP	TAL CANP

Client Sample ID: ATAcs-027M-001 -FD1 Lab Sample ID: 240-44561-61

Date Collected: 1 /18/14 12:351 Matrix: Solid1 Date Received: 1 /19/14 10:151 Percent Solids: 97.51

	Batch1	Batch1		Dilution	Batch1	Preparedii		
Prep Type1	Type1	Method1	Run	Factor1	Number1	or Analyzed1	Analyst1	Labii
Total/NAP	ISM PrepP	Increment, PrepP			157738P	11/19/14 15:00P	DRJP	TAL CANdd
Total/NAP	repP	3050BP			157854P	11/21/14 10:12P	DEEP	TAL CANdd
Total/NAP	AnalysisP	6020P		2P	158267P	11/24/14 11:06P	AMM2P	TAL CANdd
Total/NAP	ISM PrepP	Increment, PrepP			157738P	11/19/14 15:00P	DRJP	TAL CANdd
Total/NAP	AnalysisP	MoistureP		1P	157814P	11/21/14 08:44P	KSP	TAL CANdd

Laboratory References:1

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396P

Certification Summary

Client: Leidos, Inc.P TestAmerica Job ID: 240-44561-1

Project/Site: RVAAP Building 1200 and ATA Remedial ActP

Laboratory: TestAmerica Canton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.P

Authority	Program	EPA Region	Certification ID	Expiration Date
CaliforniaP	NELAP	9	01144CA	06-30-14 *P
CaliforniaP	State ProgramP	9P	2927P	04-30-15P
ConnecticutP	State ProgramP	1P	H-0590P	12-31-14P
FloridaP	NELAP	4P	E87225P	06-30-15P
GeorgiaP	State ProgramP	4P	N/AP	06-30-15P
IllinoisP	NELAP	5P	200004P	07-31-15P
KansasP	NELAP	7P	E-10336P	01-31-15P
Kentucky (UST)P	State ProgramP	4P	58P	06-30-15P
-A-BP	DoD ELAP		2315P	07-18-16P
MinnesotaP	NELAP	5P	039-999-348P	12-31-14P
NevadaP	State ProgramP	9P	OH-000482008AP	07-31-15P
New JerseyP	NELAP	2P	OH001P	06-30-15P
New YorkP	NELAP	2P	10975P	03-31-15P
Ohio VAP	State ProgramP	5P	CL0024P	10-31-15
PennsylvaniaP	NELAP	3P	68-00340P	08-31-15P
ГехаsР	NELAP	6P		08-31-15P
USDAP	Federal		P330-13-00319P	11-26-16P
√irginiaP	NELAP	3P	460175P	09-14-15P
WashingtonP	State ProgramP	10P	C971P	01-12-15P
West Virginia DEP	State ProgramP	3P	210P	12-31-14P
WisconsinP	State ProgramP	5P	999518190P	08-31-15P

^{*} Certification renewal pending - certification considered valiP.P

TestAmerica CantonP



TestAmerica Laboratories, Inc.

CHAIN OF CUSTODY AND RECEIVING DOCUMENTS



240-44561 Chain of Custody

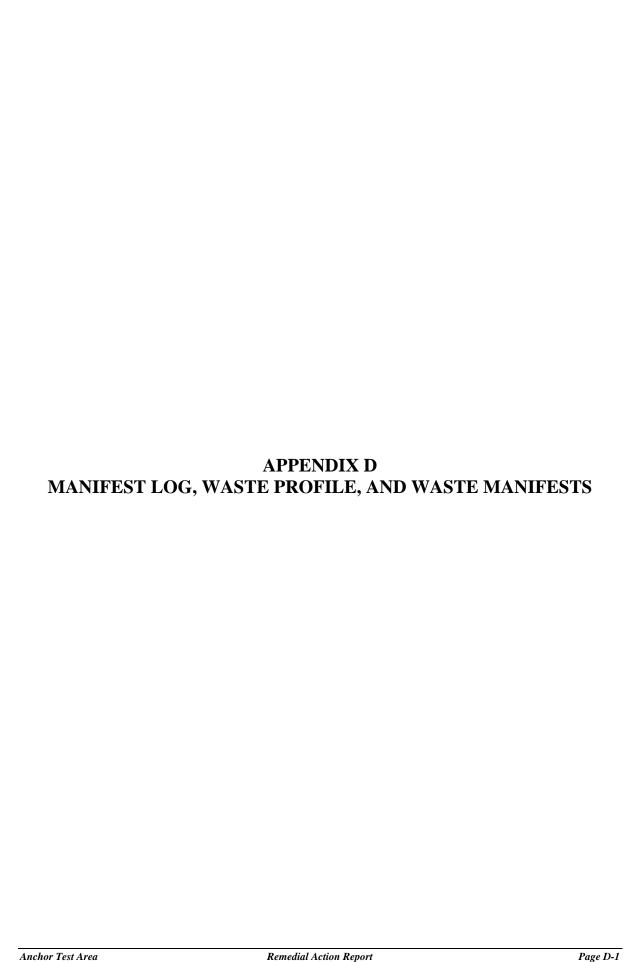
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Chain of Custody Record leidos

Page 1 of 1 Date:	eldos	Leidos, Inc.	2	eidos, Inc.	מנה	,			COC No.:		RVAAP-RA- 02	4-02		
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This Date Processing Pr	Phone Number: 330-405-5802		, ,								Add	iress:		_
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	Company		Company					S = Soil/solid r	matrix		_			

Canton Facility	#: 44501
Client Leidos Site Name	Cooler unpacked by:
Cooler Received on 1)-19.14 Opened on 11-19.14	
FedEx: ft Grd Exp (UPS) FAS Stetson Client Drop Off TestAmerica Courier	
Receipt After-hours: Drop-off Date/Time Storage Location	ALL AND
TestAmerica Cooler # Foam Box Client Cooler Box Other	
COOLANT: Weffice Blue Ice Dry Ice Water None 1. Cooler temperature upon receipt	
IR GUN# A (CF +4.0 °C) Observed Cooler Temp °C Corrected Cooler Te	mp. °C
IR GUN# 4 (CF +1.2 °C) Observed Cooler Temp. °C Corrected Cooler Te	
IR GUN# 5 (CF +0.4 °C) Observed Cooler Temp. 5-2 °C Corrected Cooler Te	
IR GUN# 8 (CF +0.7 °C) Observed Cooler Temp. °C Corrected Cooler To	
2. Were custody seals on the outside of the cooler(s)? If Yes Quantity / Cs -Were custody seals on the outside of the cooler(s) signed & dated?	No NA
[1]	MO NA
[]	No
	No
5. Were the custody papers relinquished & signed in the appropriate place?	P No
6. Did all bottles arrive in good condition (Unbroken)?	No
7. Could all bottle labels be reconciled with the COC?	No No
8. Were correct bottle(s) used for the test(s) indicated?	
9. Sufficient quantity received to perform indicated analyses?	
10. Were sample(s) at the correct pH upon receipt?	
	(Mor
[] 경기가 있는 경기가 되었다. 하지만 2차차 (1) 가입자 경기가 있다. 그리고 경기가 있다. 그리고 하게 되었다. 그리고 있다면 보다 다른 사람들이 되었다. [] 경기가 있다고 있다. 그리고 경기가 되었다. 그리고 있다면 보다 그리고 있다면 보다 그리고 있다. 그리고 있다면 보다 그리고 있다면 보다 그리고 있다. 그리고 있다면 보다 그리고 있다면 보다 그리고 있다.	No CNA
13. Was a trip blank present in the cooler(s)? Yes	(D)
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Contacted PM Date by via Verbal V	oice Mail Other Samples processed by:
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Contacted PM Date by via Verbal V Concerning	Samples processed by: Samples processed by: ling time had expired. d in a broken container.
Contacted PM Date by via Verbal V Concerning 14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES 15. SAMPLE CONDITION Sample(s) were received after the recommended hold sample(s)	Samples processed by: Samples processed by: ling time had expired. d in a broken container.
Contacted PM Date by via Verbal V Concerning 14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES 15. SAMPLE CONDITION Sample(s) were received after the recommended hold Sample(s) were received with bubble >6 mm 16. SAMPLE PRESERVATION	Samples processed by: Samples processed by: ling time had expired. d in a broken container.

Ref: SOP NC-SC-0005, Sample Receiving L:\QAQC\QA Department\QA TARDIS\Document Control\Work Instructions\WI_QA use only\WI-NC-099M-110614 Cooler Receipt Form.doc djl



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Anchor Test Area Remedial Action Manifest Log

L	oad#	Disposal Date	Area of Concern	Date of Generation	Transporter	Truck License No.	Accepting Facility	Waste Profile No.	Manifest Document No.	Landfill Quantity (tons)	Copy of Initial manifest leaving site (Y/N)	Signed Final Manifest Received from Landfill (Y/N)
	1	12/1/2014	ATA	11/18/2014	Chemtron	TNV1816	Envirite	K145150EOH	046122	16.73	Υ	Υ
	2	12/1/2014	ATA	11/18/2014	Chemtron	TNV1816	Envirite	K145150EOH	046123	18.58	Υ	Υ
	3	12/2/2014	ATA	11/18/2014	Chemtron	TNV1816	Envirite	K145150EOH	046124	10.06	Υ	Υ

TOTAL 45.37

	WASTE MANIFEST 5. Generator's Name and Mailin	OH5 210 0	20 736	1	3. Emergency Res (800) 8	51-8061	4. Wast	te Tracking	Numb 0 46122
	1438 STATE R	IG Address FORMER F OUTE 534 SW	RAVENNA ARI	MY AMMUN	enerator's Site Ac	ddress (if differ	ent than mailing a	ddress)	OTOTZZ
	NEWTON FALL					TATE RO			
	Generator's Phone:	(61A) 336 G	136	1	RAVEN	INA, OH	44266		
6	5. Transporter 1 Company Name	iver A.	100						
1 7	7. Transporter 2 Company Name	KST Cheutron	+				U.S. EPA	ID Number	OHDOLOGOGE
	. Hansporter 2 Company Name	}					U.S. EPA I	ID Mumbor	0 000 000 BT
8.	. Designated Facility Name and	Site Address CAN 400					1	io reamber	
	2050 CENTRAL	AVENUE SE	TE OF OHIO, I	NC.			U.S. EPA I		
	CANTON, OH 4						O	HD 980	568 992
Fa	acility's Phone: (33L	0) 617-4300					1		
	9. Waste Shipping Name ar	nd Description			10. Co	ontainers	11 7 11	1	
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ENVIRITE OF OHIO, INC. CANTON, OHIO 44707

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WASTE MANIFEST	OH5 210 C	20 736	1	3. Emergency Respo (800) 85	1-8061	4. Husic		04612	23
5. Generator's Name and Ma	iling Address FORMER	RAVENNA ARM	IV AMMU	Generator's Site Addi	ress (if differer	t than mailing add	(ress)		
1438 STATE	ROUTE 534 SW			8451 ST					
NEWTON FA	LLS, OH 44444		į.	RAVEN					
Generator's Phone:	(614) 336-	6136			, i, Oi i				
6. Transporter 1 Company Na	INST Chemtra	- 1						40066060	
7. Transporter 2 Company Na		ON						000 000 R	<u>T</u>
7. Hansporter 2 Company Na	une					U.S. EPA ID	Number		
8. Designated Facility Name a	and Site Address	RITE OF OHIO, II	NC			U.S. EPA ID	Number		
2050 CENTRA	AL AVENUE, S.E.	CITE OF OTHO, I	NO.			OH	4D 980	568 992	
CANTON, OH									
Facility's Phone: (3	330) 617-4300			111411111111111111111111111111111111111					
9. Waste Shipping Nan	ne and Description			ļ	ontainers	11. Total	12. Unit		
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ENVIRITE OF OHIO, INC. CANTON, OHIO 44707

WEIGHT TALLY		NUMBER		
		REMEMBER ARTS		
REMARKS:				
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		ซีซีพีพี ID Gross		
		37160 lb Het		
		44320 lb Tare		
LPU	SPU	02:48 pm 12/01/14		
ENVIRITE OF OHIO,	INC., WEIGHER			
RRECHBUHLER SCAL	FS			

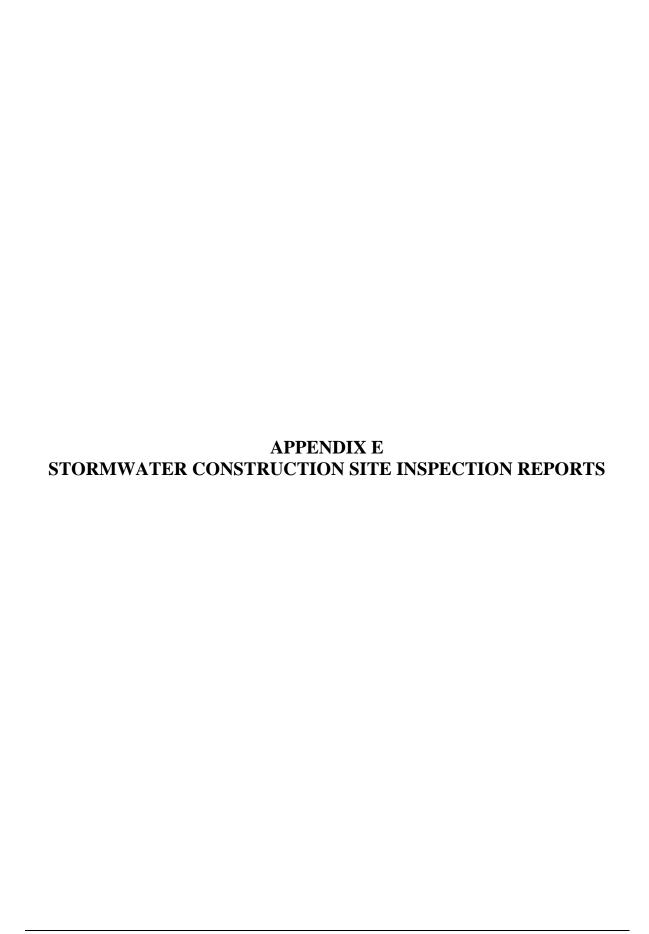
WASTE MANIFEST	OH5 210 02		-	3. Emergeocy, Respo (800) 85				¹¹ 046124
5. Generator's Name and Mail 1438 STATE F	ing Address FORMER R. ROUTE 534 SW	AVENNA ARI	MY AMMU	Nenerator's Site Addr 8451 ST		than mailing add		
NEWTON FAL Generator's Phone:	LS, OH 44444 (614) 336-61	136		RAVENN	IA, OH 4			
6 Transporter 1 Company Na						U.S. EPA ID	Number &	400 000 KST
7. Transporter 2 Company Na						U.S. EPA ID	Number	
CANTON, OH	IL AVENUE, S.E.	TE OF OHIO,	INC.			U.S. EPA ID		568 992
Facility's Prione:				10. Co	ntainers	11. Total	12. Unit	
9. Waste Shipping Nam	e and Description ATED MATERIAL			No.	Туре	Quantity	Wt,/Vol.	
1, NOW-KEGGE	ATED MATERIAL			00/	EM	EST. 15	T	
2.								
3.								
4.								
13. Special Handling Instruction 1 K145150EOH / No	on Regulated Soil				1 14°			
1 K145150EOH / No BOX 14. GENERATOR'S CERTIFIC Generator's/Offeror's Printed/T Ka-Unry n	on Regulated Soil #736 CATION: I certify the materials describ	ed above on this manife		nature		oper disposal of F	Hazardous W.	aste.
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ENVIRITE OF OHIO, INC. CANTON, OHIO 44707

WEIGHT TALLY		NUMBER
REMARKS:		K14515000H
	And	RECEIF
		CHETTRUM
		65060 to 12:23 pm 12/02/14
LPU	SPU	65060 10 Gross 20120 10 Net 44540 10 Tare 12:39 PM 12/02/14
ENVIRITE OF OHIO. IN	IC. WEIGHER	

BRECHBUHLER SCALES



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Stormwater Construction Site Inspection Report General Information Project Name Building 1200 + ATA Location NPDES Tracking No. Start/End Time **Date of Inspection** Inspector's Name(s) Inspector's Title(s) onstruction Manager Inspector's Contact Information Site Prepa Excavation Describe present phase of construction Type of Inspection: ☐ During storm event ☐ Post-storm event 'ÆRegular ☐ Pre-storm event Weather Information Has there been a storm event since the last inspection? UYes UNo If yes, provide: Approximate Amount of Precipitation (in): Storm Start Date & Time: Storm Duration (hrs): Weather at time of this inspection? ☐ Clear Cloudy
☐ Other: ☐ Fog A Snowing ☐ High Winds ☐ Sleet Rain Rain Temperature: 38 Have any discharges occurred since the last inspection? Tyes Tho If yes, describe: Are there any discharges at the time of inspection? Tyes No If yes, describe:

Site-specific BMPs

Number the structural and non-structural BMPs identified in your SWPPP on your site map and list them
below (add as many BMPs as necessary). Carry a copy of the numbered site map with you during your
inspections. This list will ensure that you are inspecting all required BMPs at your site.

Describe corrective actions initiated, date completed, and note the person that completed the work in the

Corrective Action Log.

	ВМР	BMP Installed?	BMP Maintenance Required?	Corrective Action Needed and Notes
1	SIt Fence around Excustion	Yes □No	☐Yes ÆNo	Installed today (11/17/14), 2 sides
2		□Yes □No	□Yes □No	
3		□Yes □No	□Yes □No	
4		□Yes □No	□Yes □No	
5		□Yes □No	□Yes □No	
6		□Yes □No	□Yes □No	3604000
7		□Yes □No	□Yes □No	
8		□Yes □No	□Yes □No	
9		□Yes □No	□Yes □No	
10		□Yes □No	□Yes □No	

RS 11/11/14

Overall Site Issues

Below are some general site issues that should be assessed during inspections. Customize this list as needed for conditions at your site.

	BMP/activity	Implemented?	Maintenance Required?	Corrective Action Needed and Notes
1	Are all slopes and disturbed areas not actively being worked properly stabilized?	□Yes □No	OYes ONo	N/A
2	Are natural resource areas (e.g., streams, wetlands, mature trees, etc.) protected with barriers or similar BMPs?	AYes □No	□Yes ¬No	
3	Are perimeter controls and sediment barriers adequately installed (keyed into substrate) and maintained?	Yes □No	□Yes X(No	
4	Are discharge points and receiving waters free of any sediment deposits?	AYes □No	□Yes No	
5	Are storm drain inlets properly protected?	NA No	OYes ONo	N/A
6	Is the construction exit preventing sediment from being tracked into the street?	⊠Yes □No	UYes Divio	
7	Is trash/litter from work areas collected and placed in covered dumpsters?	ÓYes □No	□Yes No	
8	Are washout facilities (e.g., paint, stucco, concrete) available, clearly marked, and maintained?	□Yes □No NA	Yes ONo	N/A
9	Are vehicle and equipment fueling, cleaning, and maintenance areas free of spills, leaks, or any other deleterious material?	Mayes □No	□Yes QNo	
10	Are materials that are potential stormwater contaminants stored inside or under cover?	□Yes □No	□Yes □No	N/A
11	Are non-stormwater	□Yes □No	☐Yes ☐No	NA

0000		BMP/activity	Implemented?	Maintenance Required?	Corrective Action Needed and Notes
		discharges (e.g., wash water, dewatering) properly controlled?		,	
	12	Are spoil piles stabilized with vegetations and/or contained by silt fence or other appropriate and required controls?	Yes □No	□Yes ŪNo	Polloff box covered
	13	Are wastes properly stored with no risk of discharge?	Yes □No	□Yes □No	Roll of F Box Covered.
	14	(Other)	□Yes □No	□Yes □No	

Non-Co	ompliance
Describe any incidents of non-compliance not described above	2:
NA	
Prepared By	11/17/14 Date
Julthin	11/16/14
Daviawad Ry	Date

Stormwater Construction Site Inspection Report General Information **Project Name** Location NPDES Tracking No. Start/End Time Date of Inspection Inspector's Name(s) Inspector's Title(s) Inspector's Contact Information Describe present phase of construction Type of Inspection: ☐ During storm event ☐ Post-storm event Regular ☐ Pre-storm event Weather Information Has there been a storm event since the last inspection? □Yes △No If yes, provide: Approximate Amount of Precipitation (in): Storm Start Date & Time: Storm Duration (hrs): Weather at time of this inspection? ☐ High Winds ☐ Snowing Cloudy ☐ Sleet ☐ Fog ☐ Clear Rain Temperature: AU° Other: Have any discharges occurred since the last inspection? □Yes 🙇 No If yes, describe: Are there any discharges at the time of inspection? Yes 2No If yes, describe:

Site-specific BMPs

Number the structural and non-structural BMPs identified in your SWPPP on your site map and list them
below (add as many BMPs as necessary). Carry a copy of the numbered site map with you during your
inspections. This list will ensure that you are inspecting all required BMPs at your site.

 Describe corrective actions initiated, date completed, and note the person that completed the work in the Corrective Action Log.

	BMP	BMP Installed?	BMP Maintenance	Corrective Action Needed and Notes
			Required?	
1	Gitt Fence-Was Wall	Of Yes □No	□Yes □Mo	Installed 11/18/14
2	Straw Bale in Ditch	⊠ Yes □No	☐Yes ☑No	Installed 11/19/14
3		□Yes □No	□Yes □No	
4		□Yes □No	□Yes □No	
5		□Yes □No	□Yes □No	
6		□Yes □No	□Yes □No	
7		□Yes □No	□Yes □No	
8		□Yes □No	□Yes □No	
9		□Yes □No	□Yes □No	
10		□Yes □No	□Yes □No	

Overall Site Issues
Below are some general site issues that should be assessed during inspections. Customize this list as needed for conditions at your site.

	BMP/activity	Implemented?	Maintenance Required?	Corrective Action Needed and Notes
1	Are all slopes and disturbed areas not actively being worked properly stabilized?	□Yes □No	□Yes □No	N/A
2	Are natural resource areas (e.g., streams, wetlands, mature trees, etc.) protected with barriers or similar BMPs?	ØYes □No	□Yes □No	
3	Are perimeter controls and sediment barriers adequately installed (keyed into substrate) and maintained?	MYes □No	□Yes □No	
4	Are discharge points and receiving waters free of any sediment deposits?	Yes □No	□Yes □No	
5	Are storm drain inlets properly protected?	□Yes □No	□Yes □No	NA
6	Is the construction exit preventing sediment from being tracked into the street?	Yes 🗆 No	□Yes XiNo	
7	Is trash/litter from work areas collected and placed in covered dumpsters?	Yes □No	□Yes □No	
8	Are washout facilities (e.g., paint, stucco, concrete) available, clearly marked, and maintained?	□Yes □No	□Yes □No	NA
9	Are vehicle and equipment fueling, cleaning, and maintenance areas free of spills, leaks, or any other deleterious material?	ØYes □No	□Yes □No	
10	Are materials that are potential stormwater contaminants stored inside or under cover?	Yes □No	□Yes □No	Rolloff Boxes Covered/Inecl
11	Are non-stormwater	□Yes □No	□Yes □No	NIR

	BMP/activity	Implemented?	Maintenance Required?	Corrective Action Needed and Notes
	discharges (e.g., wash water, dewatering) properly controlled?			
12	Are spoil piles stabilized with vegetations and/or contained by silt fence or other appropriate and required controls?	∰Yes □No	□Yes □No	Rolloff Boxes covered +Lineel
13	Are wastes properly stored with no risk of discharge?	AYes •No	□Yes □No	
14	(Other)	□Yes □No	□Yes □No	
L			Non-Compl	ance
Desc	cribe any incidents of non-c	ompliance not des		
	NA			
		1		

Reviewed By

Stormwater Construction Site Inspection Report General Information **Project Name** ATA RA 1700/F NPDES Tracking No. Location **Date of Inspection** Start/End Time Inspector's Name(s) Inspector's Title(s) Inspector's Contact Information Describe present phase of construction B1200 - (Xcavation Type of Inspection: Regular Regular ☐ Pre-storm event ☐ During storm event ☐ Post-storm event Weather Information Has there been a storm event since the last inspection? \(\sigma\)Yes \(\sigma\)No If yes, provide: Storm Start Date & Time: Storm Duration (hrs): Approximate Amount of Precipitation (in): Weather at time of this inspection? ☐ Sleet ☐ Clear Cloudy ☐ Rain ☐ Fog ☐ Snowing ☐ High Winds Other: Temperature: 15-20° Have any discharges occurred since the last inspection? The Salva If yes, describe: Are there any discharges at the time of inspection? DYes No If yes, describe:

Site-specific BMPs

Number the structural and non-structural BMPs identified in your SWPPP on your site map and list them
below (add as many BMPs as necessary). Carry a copy of the numbered site map with you during your
inspections. This list will ensure that you are inspecting all required BMPs at your site.

 Describe corrective actions initiated, date completed, and note the person that completed the work in the Corrective Action Log.

	Corrective Action			
	BMP	BMP Installed?	BMP Maintenance Required?	Corrective Action Needed and Notes
1	ATA Silt Fonce	XYes \(\square\) No	□Yes ÆNo	11/17/14
2	ATA StrawBaleBern	XIYes □No	□Yes DNo	11/13/14
3	B1200 SHIFEnce	DaYes □No	□Yes ⊠No	Installed 1/19/14-South end of Ditch
4	131200 HayBalo Bem	⊠Yes □No	□Yes ☑No	Installed 1/1/9/14-North and of Dtch
5	BIZOD Hay Balo Benn	⊠Yes □No	☐Yes ÆNo	Installed 11/19/14 around stockpile
6		□Yes □No	□Yes □No	
7		□Yes □No	□Yes □No	
8		□Yes □No	□Yes □No	
9		□Yes □No	□Yes □No	
10		□Yes □No	□Yes □No	

Overall Site Issues

Below are some general site issues that should be assessed during inspections. Customize this list as needed for conditions at your site.

	BMP/activity	Implemented?	Maintenance Required?	Corrective Action Needed and Notes
1	Are all slopes and disturbed areas not actively being worked properly stabilized?	□Yes □No	□Yes □No	MA
2	Are natural resource areas (e.g., streams, wetlands, mature trees, etc.) protected with barriers or similar BMPs?	ÓlYes □No	□Yes ⊠No	
3	Are perimeter controls and sediment barriers adequately installed (keyed into substrate) and maintained?	MYes □No	□Yes VNo	
4	Are discharge points and receiving waters free of any sediment deposits?	Dives □No	□Yes ØNo	
5	Are storm drain inlets properly protected?	☐Yes ☐No	□Yes □No	W/A
6	Is the construction exit preventing sediment from being tracked into the street?	Yes ONo	□Yes No	
7	Is trash/litter from work areas collected and placed in covered dumpsters?	Yes □No	□Yes No	
8	Are washout facilities (e.g., paint, stucco, concrete) available, clearly marked, and maintained?	□Yes □No	□Yes □No	MA
9	Are vehicle and equipment fueling, cleaning, and maintenance areas free of spills, leaks, or any other deleterious material?	XYes □No	□Yes ⊠No	W/A
10	Are materials that are potential stormwater contaminants stored inside or under cover?	ØYes □No	□Yes ONo	Rolloffs covered/Ined Stockpiles/open excavation covered
				· ·

	BMP/activity	Implemented?	Maintenance Required?	Corrective Action Needed and Notes
	discharges (e.g., wash water, dewatering) properly controlled?			
12	Are spoil piles stabilized with vegetations and/or contained by silt fence or other appropriate and required controls?	Yes ONo	□Yes □No	Stockples overed, Hay Bale Bern Rolloffs Covered/Ined
13	Are wastes properly stored with no risk of discharge?	ØYes □No	☐Yes ⊠No	Roll offs coverced/ined Stockpiles coverced
14	(Other)	□Yes □No	□Yes □No	

	Non-Co	npliance	
Describe any incidents of non-co	impliance not described above:		
N/A			
9,1	0		
Prepared By	<u> </u>		***************************************
Jal Thum		11/20/14	
Reviewed By		Date	

Stormwater Construction Site Inspection Report
General Information

General Information						
Project Name	RIMAP BIZDO/ATARA					
NPDES Tracking No.	'Ч,	Location	BIZOD/ATTA AOCS			
Date of Inspection	11/20/14	Start/End Time	1215/1315			
Inspector's Name(s)	Richsprinz		/			
Inspector's Title(s)	Env Engineer					
Inspector's Contact Information	330 348-1378					
Describe present phase of construction	Describe present phase of Procure has					
Type of Inspection: ☐ Regular ☐ Pre-storm event ☐ During storm event ☐ Post-storm event						
Weather Information						
Has there been a storm event since the last inspection? The Section of the last inspection						
If yes, provide: Storm Start Date & Time: Storm Duration (hrs): Approximate Amount of Precipitation (in):						
Weather at time of this inspection? □ Clear □ Cloudy □ Rain □ Sleet □ Fog □ Snowing □ High Winds □ Other: □ Temperature: 7.5°						
Have any discharges occurred since the last inspection?						
Are there any discharges at the time of inspection? Yes No If yes, describe:						

Site-specific BMPs

 Number the structural and non-structural BMPs identified in your SWPPP on your site map and list them below (add as many BMPs as necessary). Carry a copy of the numbered site map with you during your inspections. This list will ensure that you are inspecting all required BMPs at your site.

Describe corrective actions initiated, date completed, and note the person that completed the work in the

Corrective	Action	Log.

	ВМР	BMP Installed?	BMP Maintenance Required?	Corrective Action Needed and Notes
1	ATA SILL Fence	ÀYes □No	□Yes ⊠No	
2	ATA STYNIN Bale Brech	∧ØYes □No	□Yes ⊠ No	
3	BIZOD Silterce	ØYes □No	□Yes QXNo	South of Ditch extension added today
4	BIZOO Hay Balo Check Dum	ÆYes □No	□Yes ⊠No	Nend of Ditch'
5	B/WD Hay Bale Born	☑Yes □No	□Yes ÆNo	Bitasfockaile
6		□Yes □No	□Yes □No	
7		□Yes □No	□Yes □No	
8		□Yes □No	□Yes □No	
9		□Yes □No	□Yes □No	
10		□Yes □No	□Yes □No	

Overall Site Issues

Below are some general site issues that should be assessed during inspections. Customize this list as needed for conditions at your site.

	BMP/activity	Implemented?	Maintenance Required?	Corrective Action Needed and Notes
1	Are all slopes and disturbed areas not actively being worked properly stabilized?	☐Yes □No	□Yes □No	NA
2	Are natural resource areas (e.g., streams, wetlands, mature trees, etc.) protected with barriers or similar BMPs?	⊠Ýes □No	□YesrŌNo	
3	Are perimeter controls and sediment barriers adequately installed (keyed into substrate) and maintained?	SYes □No	□Yes XNo	
4	Are discharge points and receiving waters free of any sediment deposits?	ØYes □No	□Yes ⊠No	
5	Are storm drain inlets properly protected?	□Yes □No	□Yes □No	NA
6	Is the construction exit preventing sediment from being tracked into the street?	Yes □No	□Yes ⊠No	
7	Is trash/litter from work areas collected and placed in covered dumpsters?	ØYes □No	☐Yes ☐No	
8	Are washout facilities (e.g., paint, stucco, concrete) available, clearly marked, and maintained?	QYes QNo	TYes UNo	W/A-
9	Are vehicle and equipment fueling, cleaning, and maintenance areas free of spills, leaks, or any other deleterious material?	QYes □No	□Yes □No	
10	Are materials that are potential stormwater contaminants stored inside or under cover?	□Yes □No	□Yes □No	Rolloffs e B(036 -covered/fined -Stockpile, covered
11	Are non-stormwater	□Yes □No_	TYes DNo	INIA '

	BMP/activity	Implemented?	Maintenance Required?	Corrective Action Needed and Notes
	discharges (e.g., wash water, dewatering) properly controlled?			
12	Are spoil piles stabilized with vegetations and/or contained by silt fence or other appropriate and required controls?	ŽIXes □No	□Yes X (No	Straw bute berm
13	Are wastes properly stored with no risk of discharge?	✓Yes □No	□Yes NNo	
14	(Other)	□Yes □No	□Yes □No	
		1	Non-Compl	iance

<u>L</u>			Non-Compli	ance
Des	cribe any incidents of non-co	ompliance not des	cribed above:	
	NA			
Lezavonem	Prepared By			1//20/14 Date
	Julhu			11/21/14
	Reviewed By			Date

Stormwater Construction Site Inspection Report General Information Project Name BIZOD/ATA RA NPDES Tracking No. Location Start/End Time **Date of Inspection** Inspector's Name(s) Inspector's Title(s) **Inspector's Contact Information** Describe present phase of Exavation/Loudant construction Type of Inspection: ☐ During storm event ☐ Post-storm event **Q**⊀Regular ☐ Pre-storm event Weather Information If yes, provide: Storm Start Date & Time: Storm Duration (hrs): Approximate Amount of Precipitation (in): l'gnow overnight Weather at time of this inspection? ☐ Sleet □ ZaCloudy Rain ☐ Snowing ☐ High Winds ☐ Other: Temperature: 26 Have any discharges occurred since the last inspection? □Yes 🔀 No If yes, describe: Are there any discharges at the time of inspection? DYes If yes, describe:

Site-specific BMPs

Number the structural and non-structural BMPs identified in your SWPPP on your site map and list them
below (add as many BMPs as necessary). Carry a copy of the numbered site map with you during your
inspections. This list will ensure that you are inspecting all required BMPs at your site.

Describe corrective actions initiated, date completed, and note the person that completed the work in the
 Corrective Action Log

	Corrective Action	1705.		
	ВМР	BMP Installed?	BMP Maintenance Required?	Corrective Action Needed and Notes
1	ATA SILT FONCE	□XYes □No	□Yes ∕aNo	Extension added today
2	ATA Strom hele Checkdam	☑Yes □No	□Yes ⊠No	0
3	B/200 SIH Pence	☑Yes □No	□Yes ∕ QNo	South end of Dital
4	BIZODEDTAW CHECK Dam	☑Yes □No	□Yes ÞØNo	North end of Ditch
5	B1200 Straw Berm	ØYes □No	□Yes Æ[No	BIZOÙ Stockpile
6		□Yes □No	□Yes □No	
7		□Yes □No	□Yes □No	
8		□Yes □No	□Yes □No	
9		□Yes □No	□Yes □No	
10		□Yes □No	□Yes □No	

RS 11/21/14

	BMP/activity	Implemented?	Maintenance	Corrective Action Needed and Notes
		V	Required?	
	Are all slopes and disturbed areas not actively being worked properly stabilized?	ÄYes □No	□Yes ☑No	
2	Are natural resource areas (e.g., streams, wetlands, mature trees, etc.) protected with barriers or similar BMPs?	Yes □No	□Yes_ŒNo	
3	Are perimeter controls and sediment barriers adequately installed (keyed into substrate) and maintained?	D2Ýes □No	□Yes ∕ ÛNo	
4	Are discharge points and receiving waters free of any sediment deposits?	⊠Yes □No	□Yes ⊠No	2
5	Are storm drain inlets properly protected?	DYes DNo	OYes ONo	NA
6	Is the construction exit preventing sediment from being tracked into the street?	□Xes □No	□Yeş □No	
7	Is trash/litter from work areas collected and placed in covered dumpsters?	□Yes □No	□Yes ⊖No	
8	Are washout facilities (e.g., paint, stucco, concrete) available, clearly marked, and maintained?	□Yes □No	□Yes □No	XM
9	Are vehicle and equipment fueling, cleaning, and maintenance areas free of spills, leaks, or any other deleterious material?	Dives □No	□Yes □No	
10	Are materials that are potential stormwater contaminants stored inside or under cover?	⊠Yes □No	□Yes ĎNo	Excavations/Rolloffs/Stockpiles Covered
11	Are non-stormwater	UYes ONo	QYes QNo	Taile

	BMP/activity	Implemented?	Maintenance Required?	Corrective Action Needed and Notes
	discharges (e.g., wash water, dewatering) properly controlled?			
12	Are spoil piles stabilized with vegetations and/or contained by silt fence or other appropriate and required controls?	☑Yes □No	□Yes QNo	
13	Are wastes properly stored with no risk of discharge?	⊅Yes □No	□Yes ⊠No	
14	(Other)	□Yes □No	□Yes □No	
••••				
			Non-Compli	ance
Des	cribe any incidents of non-c	ompliance not des	cribed above:	
	NA			
	101			
	NSm			11/21/14
	Prepared By			Date/
	Juli			11/22/14

Reviewed By

Date

Stormwater Construction Site Inspection Report General Information **Project Name** NPDES Tracking No. Location Start/End Time Date of Inspection Inspector's Name(s) Inspector's Title(s) **Inspector's Contact Information** 8-1348 Excavation/Loadout Describe present phase of construction Type of Inspection: ☐ Post-storm event ☐ During storm event ☐ Regular ☐ Pre-storm event Weather Information Has there been a storm event since the last inspection? AYes If yes, provide: Approximate Amount of Precipitation (in) ~137 Storm Start Date & Time: Storm Duration (hrs): 11/22~0.09 Weather at time of this inspection? ☐ High Winds Cloudy ☐ Rain ☐ Sleet ☐ Fog ☐ Snowing Other: Temperature: 60° Have any discharges occurred since the last inspection? Tyes also if yes, describe: 5, one water on top of plashe ph ditch overflowed Southend and through silt fence If yes, describe:

Site-specific BMPs

Number the structural and non-structural BMPs identified in your SWPPP on your site map and list them
below (add as many BMPs as necessary). Carry a copy of the numbered site map with you during your
inspections. This list will ensure that you are inspecting all required BMPs at your site.

 Describe corrective actions initiated, date completed, and note the person that completed the work in the Corrective Action Log.

	ВМР	BMP Installed?	BMP Maintenance Required?	Corrective Action Needed and Notes
1	ATASILT Fence.	>□Yes □No	☐Yes ☐ X o	
2	ATA Strawbalechecks	µ Z Yes □No	☐Yes ⊠No	
3	B1200511+ Gence	-ØYes □No	☐Yes ⊠No	South end of tatch
4	BITAD Show Check D	m ⊠ Yes □No	☐Yes ♠No	Nendof Ditch,
5	BIZOUSTAWN BOUM	∑Yes □No	□Yes ⊠No	Replaced in/sittence due to unfrezen andition
6	BIZOD Straw CheckDun	√ ⊠Yes □No	□Yes ☑No	Added 11/24/14/North of OpenArea)
7		□Yes □No	□Yes □No	
8		□Yes □No	□Yes □No	
9		□Yes □No	□Yes □No	
10		□Yes □No	□Yes □No	

RS 11/24/14

	BMP/activity	Implemented?	Maintenance Required?	Corrective Action Needed and Notes
1/	Are all slopes and disturbed areas not actively being worked properly stabilized?	□Yes □No	UYes ONo	A/A
2	Are natural resource areas (e.g., streams, wetlands, mature trees, etc.) protected with barriers or similar BMPs?	¥Yes □No	☐Yes ☐No	,
3	Are perimeter controls and sediment barriers adequately installed (keyed into substrate) and maintained?	⊠Yes □No	□Yes XQNo	
4	Are discharge points and receiving waters free of any sediment deposits?	ÖYes □No	□Yes ∫Q\No	
5	Are storm drain inlets properly protected?	QYes QNo	□Yes □No	Y/A
6	Is the construction exit preventing sediment from being tracked into the street?	OYes ONo	□Yes □No	
7	Is trash/litter from work areas collected and placed in covered dumpsters?	ÛYes □No	□Yes ဩNo	
8	Are washout facilities (e.g., paint, stucco, concrete) available, clearly marked, and maintained?	QYes □No	OYes ONo	NA.
9	Are vehicle and equipment fueling, cleaning, and maintenance areas free of spills, leaks, or any other deleterious material?	ØYes. □No	□Yes (No	426
10	Are materials that are potential stormwater contaminants stored inside or under cover?	□Yes □No	□Yes ဩŃo	Rolloffs covered Excavations covered.
11	Are non-stormwater	□Yes □No	□Yes □No	- W/A

Manager and American		BMP/activity	Implemented?	Maintenance Required?	Corrective Action Needed and Notes
		discharges (e.g., wash water, dewatering) properly controlled?	,*		
	12	Are spoil piles stabilized with vegetations and/or contained by silt fence or other appropriate and required controls?	□¥es □No	□Yes □No	NA
	13	Are wastes properly stored with no risk of discharge?	☑Yes □No	□Yes XONo	Rolloffs Covered/Ined
-	14	(Other)	□Yes □No	□Yes □No	

Non-Com	pliance
Describe any incidents of non-compliance not described above:	
NA	
Prepared By	17/24/14 Date
Jan Ihm	11/25/14
Reviewed By	Date

Stormwater Construction Site Inspection Report							
	General Information						
Project Name B1260/ATARA							
NPDES Tracking No.	7 !	Location	BIZOO/ATA				
Date of Inspection	11/25/14	Start/End Time	1250-1345				
Inspector's Name(s)	RichSprinzl						
Inspector's Title(s)	trivers						
Inspector's Contact Information	330-348-1378						
Describe present phase of construction	Post-Excovation						
Type of Inspection: ☐ Regular ☐ Pre-storm event	☐ During storm event	☐ Post-storm e	vent				
	Weather Info						
Has there been a storm event since	the last inspection? AYe	s 🔲 No					
If yes, provide: Storm Start Date & Time: S 11/24/14 — Trad	torm Duration (hrs):	Approximate	Amount of Precipitation (in):				
Weather at time of this inspection							
□ Clear □ Cloudy □ Rain □ Sleet □ Fog □ Snowing □ High Winds □ Other: Temperature							
Have any discharges occurred since the last inspection?							
Are there any discharges at the time of inspection? Tyes Wo. If yes, describe:							

Site-specific BMPs

 Number the structural and non-structural BMPs identified in your SWPPP on your site map and list them below (add as many BMPs as necessary). Carry a copy of the numbered site map with you during your inspections. This list will ensure that you are inspecting all required BMPs at your site.

 Describe corrective actions initiated, date completed, and note the person that completed the work in the Corrective Action Log.

	ВМР	BMP Installed?	BMP Maintenance Required?	Corrective Action Needed and Notes
1	A-ASilfAnce.	ØYes □No	□Yes □No	
2	ATA Straw ball checkoum	⊠¥es □No	□Yes □No	
3	B12005HAma	□Yes □No	□Yes □No	LS end of Dotah
4	B1200 Strawcheckdam	□Yes □No	□Yes □No	N end of atch
5	RIDDO STAW bornes Sill-force	□Yes □No	□Yes □No	(formerly strawbern)
6	BIZOOSTRAW Chelkdam	□Yes □No	□Yes □No	Not open Aren
7		□Yes □No	□Yes □No	
8		□Yes □No	□Yes □No	
9		□Yes □No	□Yes □No	
10	4	□Yes □No	□Yes □No	

RS 11/25/14

	BMP/activity	Implemented?	Maintenance Required?	Corrective Action Needed and Notes
•	Are all slopes and disturbed areas not actively being worked properly stabilized?	ÖYes □No	□Yes Nó	
2	Are natural resource areas (e.g., streams, wetlands, mature trees, etc.) protected with barriers or similar BMPs?	MYes ONo	□Yes □No	
3	Are perimeter controls and sediment barriers adequately installed (keyed into substrate) and maintained?	MYes □No	□Yes OffNo	
4	Are discharge points and receiving waters free of any sediment deposits?	ØYes □No	□Yes ∕QNo	
5	Are storm drain inlets properly protected?	□Yes □No	□Yes □No	7/4
6	Is the construction exit preventing sediment from being tracked into the street?	ĎYes □No	□Yes TSKNo	
7	Is trash/litter from work areas collected and placed in covered dumpsters?	ÓYes □No	□Yes ŌŃo	
8	Are washout facilities (e.g., paint, stucco, concrete) available, clearly marked, and maintained?	□Yes □No	□Yes □No	NA
9	Are vehicle and equipment fueling, cleaning, and maintenance areas free of spills, leaks, or any other deleterious material?	□Yes □No	□Yes □No	NA
10	Are materials that are potential stormwater contaminants stored inside or under cover?	DYes □No	□Yes ÞKNô	Excavations covered Rolloffs covered
11	Are non-stormwater	□Yes □No	□Yes □No	L NA

BMP/activity	Implemented?	Maintenance Required?	Corrective Action Needed and Notes
discharges (e.g., wash water, dewatering) properly controlled?			
Are spoil piles stabilized with vegetations and/or contained by silt fence or other appropriate and required controls?	□Yes □No	□Yes □No	NA
Are wastes properly stored with no risk of discharge?	⊖E¥es □No	□Yes □XNo	Rolloffs @Blo3b covered
(Other)	□Yes □No	□Yes □No	
	discharges (e.g., wash water, dewatering) properly controlled? Are spoil piles stabilized with vegetations and/or contained by silt fence or other appropriate and required controls? Are wastes properly stored with no risk of discharge?	discharges (e.g., wash water, dewatering) properly controlled? Are spoil piles stabilized with vegetations and/or contained by silt fence or other appropriate and required controls? Are wastes properly stored with no risk of discharge?	discharges (e.g., wash water, dewatering) properly controlled? Are spoil piles stabilized with vegetations and/or contained by silt fence or other appropriate and required controls? Are wastes properly stored with no risk of discharge?

İ	discharge?			
14	(Other)	□Yes □No	□Yes □No	
			Non-Compl	iance
Desc	cribe any incidents of non-c	ompliance not des	cribed above:	
	/ .			
	A/\mathcal{O}			
	/			
	·~~ (7		./ [::
	RSml	,		11/25/14
•	Prepared By	Same :		Date /
_	Da Th.			11 26/14
	Reviewed By			Date

Stormwater Construction Site Inspection Report General Information B1200/ATA RA **Project Name** NPDES Tracking No. Location B1200 /ATA Start/End Time Date of Inspection D815-0845 Inspector's Name(s) Inspector's Title(s) **Inspector's Contact Information** Describe present phase of construction Type of Inspection: ☐ During storm event ☐ Post-storm event 🗷 Regular ☐ Pre-storm event Weather Information Has there been a storm event since the last inspection? □Yes □No If yes, provide: Approximate Amount of Precipitation (in): Storm Start Date & Time: Storm Duration (hrs): ~ 1 hr 11/29/14 12/40 Weather at time of this inspection? ☐ Clear Cloudy ☐ Rain ☐ Sleet ☐ Fog ☐ Snowing ☐ High Winds Other: Temperature: Have any discharges occurred since the last inspection? ☐Yes ☑No If yes, describe: Are there any discharges at the time of inspection? Tyes No If yes, describe:

Site-specific BMPs

Number the structural and non-structural BMPs identified in your SWPPP on your site map and list them
below (add as many BMPs as necessary). Carry a copy of the numbered site map with you during your
inspections. This list will ensure that you are inspecting all required BMPs at your site.

 Describe corrective actions initiated, date completed, and note the person that completed the work in the Corrective Action Log

	ВМР	BMP Installed?	BMP Maintenance Required?	Corrective Action Needed and Notes
1	ATA Sit fence	△Yes □No	□Yes ⊠No	
2	ATA Straw bale chicked	⊠Yes □No	□Yes ⊠No	
3	B1200 silt fina	XIYes □No	☐Yes XNo	South of ditch.
4	B1200 Straw chickdan	Yes □No	□Yes ØNo	N and of ditch
5	BIZOD SIH ENCL	☑Yes □No	□Yes ⊠No	Open prin
6	B1200 Straw chick dar	ØLYes □No	□Yes 🖄No	North of Open are
7		□Yes □No	□Yes □No	
8		□Yes □No	□Yes □No	
9		□Yes □No	□Yes □No	
10		□Yes □No	□Yes □No	

	BMP/activity	Implemented?	Maintenance	Corrective Action Needed and Notes
1	Are all slopes and disturbed areas not actively being worked properly stabilized?	XiYes □No	Required?	
2	Are natural resource areas (e.g., streams, wetlands, mature trees, etc.) protected with barriers or similar BMPs?	XYes □No	□Yes No	
3	Are perimeter controls and sediment barriers adequately installed (keyed into substrate) and maintained?	Yes □No	□Yes No	
4	Are discharge points and receiving waters free of any sediment deposits?	Yes •No	□Yes No	
5	Are storm drain inlets properly protected?	□Yes □No	☐Yes ☐No	NA
6	Is the construction exit preventing sediment from being tracked into the street?	Yes □No	□Yes No	
7	Is trash/litter from work areas collected and placed in covered dumpsters?	Yes ONo	□Yes No	
8	Are washout facilities (e.g., paint, stucco, concrete) available, clearly marked, and maintained?	□Yes □No	□Yes □No	NA
9	Are vehicle and equipment fueling, cleaning, and maintenance areas free of spills, leaks, or any	□Yes □No	□Yes □No	NA
	other deleterious material?			
10	Are materials that are potential stormwater contaminants stored inside or under cover?	¶Yes □No	□Yes No	
11	Are non-stormwater	□Yes □No	□Yes □No	

	BMP/activity	Implemented?	Maintenance Required?	Corrective Action Needed and Notes
	discharges (e.g., wash water, dewatering) properly controlled?			NA
12	Are spoil piles stabilized with vegetations and/or contained by silt fence or other appropriate and required controls?	□Yes □No	□Yes □No	NA
13	Are wastes properly stored with no risk of discharge?	YYes □No	□Yes MNo	Roll off boxes covered
14	(Other)	□Yes □No	□Yes □No	NA

			1	
			Non-Compli	ance
Des	cribe any incidents of non-co	mpliance not des	cribed above:	
	AM			
L		***************************************		, ,
	Ded Han			12/1/14
	Prepared By			Date
	RS0			12/12/14
•	Reviewed By			Date

Stormwater Construction Site Inspection Report **General Information** BIZASIATA RA Project Name NPDES Tracking No. Location Start/End Time 12/8/14 **Date of Inspection** Inspector's Name(s) CHEY PACER ENUIRONMENTAL ENGINEER Inspector's Title(s) **Inspector's Contact Information** 330-405-5011 Describe present phase of EXCAVATION - PHASE TI construction Type of Inspection: ☐ During storm event ☐ Post-storm event Q/Regular ☐ Pre-storm event Weather Information Has there been a storm event since the last inspection? The Market Marke If yes, provide: Approximate Amount of Precipitation (in): Storm Duration (hrs): Storm Start Date & Time: Weather at time of this inspection? Cloudy ☐ High Winds ☐ Rain ☐ Sleet □ Fog ☐ Snowing ☐ Clear Other: Temperature: Have any discharges occurred since the last inspection? (YYe) If yes, describe: plastic @ Rain water ontop al Are there any discharges at the time of inspection? \(\sigma\) Yes If yes, describe:

Site-specific BMPs

Number the structural and non-structural BMPs identified in your SWPPP on your site map and list them
below (add as many BMPs as necessary). Carry a copy of the numbered site map with you during your
inspections. This list will ensure that you are inspecting all required BMPs at your site.

Describe corrective actions initiated, date completed, and note the person that completed the work in the

	ВМР	BMP Installed?	BMP Maintenance Required?	Corrective Action Needed and Notes
1	ATA Silt Fence	ŬYes □No	□Yes □No	
2	ATA Strawi bale check	⊠Yes □No	□Yes □No	
3	BIZAN CILTENCE	ØYes □No	□Yes □No	South of ditch
4	BIZED Strawbule check	ØYes □No	□Yes □No	North end of Ditch
5	BIZØZ SILFENCE	☑Yes □No	□Yes □No	Open area
6	BIZER CHOW Check dum	YaYes \(\square\) No	□Yes □No	North of open over
7		□Yes □No	□Yes □No	0 1
8		□Yes □No	□Yes □No	
9		□Yes □No	□Yes □No	
10		□Yes □No	□Yes □No	

	BMP/activity	Implemented?	Maintenance Required?	Corrective Action Needed and Notes
1	Are all slopes and disturbed areas not actively being worked properly stabilized?	¥Yes □No	□Yes tano	
2	Are natural resource areas (e.g., streams, wetlands, mature trees, etc.) protected with barriers or similar BMPs?	∭Yes □No	□Yes ⊅No	
3	Are perimeter controls and sediment barriers adequately installed (keyed into substrate) and maintained?	Yes □No	□Yes ⊅No	
4	Are discharge points and receiving waters free of any sediment deposits?	☐Yes ☐No	□Yes □No	
5	Are storm drain inlets properly protected?	□Yes □No	□Yes □No	NA
6	Is the construction exit preventing sediment from being tracked into the street?	∑Yes □No	□Yes □No	
7	Is trash/litter from work areas collected and placed in covered dumpsters?	ØYes □No	CAP INO	
8	Are washout facilities (e.g., paint, stucco, concrete) available, clearly marked, and maintained?	UYes UNo	□Yes □No	Nla
9	Are vehicle and equipment fueling, cleaning, and maintenance areas free of spills, leaks, or any other deleterious material?	□Yes □No	□Yes □No	N/A
10	Are materials that are potential stormwater contaminants stored inside or under cover?	⊠Yes □No	□Yes ØNo	
11	Are non-stormwater	□Yes □No	□Yes □No	N/A

	BMP/activity	Implemented?	Maintenance Required?	Corrective Action Needed and Notes
	discharges (e.g., wash water, dewatering) properly controlled?	u /A	NIA	~/A
12	Are spoil piles stabilized with vegetations and/or contained by silt fence or other appropriate and required controls?	ØYes □No	□Yes ⊠No	stockpile covered w/plantic and secured. Surrounded by straw bules.
13	Are wastes properly stored with no risk of discharge?	A Yes □No	□Yes No	stackfule on plantic with ift excavation covered with plantic and segund.
14	(Other)	□Yes □No	□Yes □No	L
		NA	~/A	NA

Non-Comp	liance
Describe any incidents of non-compliance not described above:	
. /	
N/A	
0//1	
C. Pacer	12/8/14
Prepared By	Date
0.0	
Mal	12/12/14
Reviewed By	Date

Stormwater Construction Site Inspection Report General Information Project Name BIZDO / ATA RA NPDES Tracking No. Location BIZKG/ATA AUCS Ιø **Date of Inspection** Start/End Time 12/9/14 \$ 83\$ to \$960 Inspector's Name(s) COLEY PACEL Inspector's Title(s) Inspector's Contact Information Describe present phase of construction EXCAVATION- PHASE IL Type of Inspection: ☐ Pre-storm event ☐ During storm event ☐ Post-storm event Regular Weather Information Has there been a storm event since the last inspection? ☐Yes 风No If yes, provide: Storm Duration (hrs): Approximate Amount of Precipitation (in): Storm Start Date & Time: Weather at time of this inspection? ☐ Snowing ☐ High Winds ☐ Clear XICloudy | Rain R ☐ Sleet ☐ Fog Plastic at BIZES 240°F Other: 1 Rain water on top of

Site-specific BMPs

If yes, describe:

If yes, describe:

• Number the structural and non-structural BMPs identified in your SWPPP on your site map and list them below (add as many BMPs as necessary). Carry a copy of the numbered site map with you during your inspections. This list will ensure that you are inspecting all required BMPs at your site.

Describe corrective actions initiated, date completed, and note the person that completed the work in the

Corrective A	ction Log.	
--------------	------------	--

Have any discharges occurred since the last inspection? ☐Yes ☐No

SAME AS

AGNE

Are there any discharges at the time of inspection? Yes DNo

F-12-12-12-12-12-12-12-12-12-12-12-12-12-	Corrective Action		The state of the s	
	ВМР	BMP Installed?	BMP Maintenance Required?	Corrective Action Needed and Notes
1	ATA SIH Fence	ФYes □No	□Yes □No	
2	ATA staubule thich	ФYes □No	□Yes □No	
3	Bizo Selffence	ФYes □No	□Yes □No	South of diffh
4	BIRDO Struibale	□Yes □No	□Yes □No	North end of diffeh
5	Bizza silt dence	□Yes □No	□Yes □No	Open drea
6	B1260 Shrwintech	□Yes □No	□Yes □No	No-12 y open area.
7		□Yes □No	□Yes □No	0 (
8		□Yes □No	□Yes □No	
9		□Yes □No	□Yes □No	
10		□Yes □No	□Yes □No	

	BMP/activity	Implemented?	Maintenance	Corrective Action Needed and Notes
l	Are all slopes and	ØrYes □No	Required?	
	disturbed areas not actively being worked properly stabilized?		,~	·
2	Are natural resource areas (e.g., streams, wetlands, mature trees, etc.) protected with barriers or similar BMPs?	Yes □No	□Yes Ūjijo	
3	Are perimeter controls and sediment barriers adequately installed (keyed into substrate) and maintained?	SSYes □No	□Yes ☑No	
4	Are discharge points and receiving waters free of any sediment deposits?	MYes □No	□Yes 50No	
5	Are storm drain inlets properly protected?	UYes ONO	N/A	N/A
6	Is the construction exit preventing sediment from being tracked into the street?	ØYes □No	□Yes ONO	
7	Is trash/litter from work areas collected and placed in covered dumpsters?	Yes ONo	□Yes ⊠No	
8	Are washout facilities (e.g., paint, stucco, concrete) available, clearly marked, and maintained?	□Yes □No	□Yes □No N/A	N/A
9	Are vehicle and equipment fueling, cleaning, and maintenance areas free of spills, leaks, or any other deleterious material?	□Yes □No	□Yes □No	NA
10	Are materials that are potential stormwater contaminants stored inside or under cover?	ØYes □No	□Yes No	
11	Are non-stormwater	□Yes □No	□Yes □No	N/A·

	BMP/activity	Implemented?	Maintenance Required?	Corrective Action Needed and Notes
-	discharges (e.g., wash water, dewatering) properly controlled?	~ /A	NA	~/A
12	Are spoil piles stabilized with vegetations and/or contained by silt fence or other appropriate and required controls?	ÄYes □No	□Yes ⊠No	Stockfile covered wplastic and secured Surported by straw bales.
13	Are wastes properly stored with no risk of discharge?	AYes □No	□Yes No	Stockfile on plastic while I to excavation w/plastic & seemed
14	(Other)	□Yes □No	□Yes □No	, ,
		N/V	Ан	7/V

	Non-Compliance	
Describe any incidents of non-compliance not describe		
,		
N/A		
/		
C. Pan	12/9/14	
Prepared By	Date	
R5, L	12/12/	14
Reviewed By	Date	

Stormwater Construction Site Inspection Report

General Information

B1288/ATA LA

Location NPDES Tracking No. AOCs 11 Start/End Time **Date of Inspection** 12/10/14 Inspector's Name(s) Inspector's Title(s) **Inspector's Contact Information** Describe present phase of EXCAVATION - PHASE IT. WASTE HAULING construction Type of Inspection: ☐ During storm event ☐ Post-storm event ☐ Pre-storm event Regular

79	Weath	er Information
Has there been a storm event sin	ce the last inspection?	□Yes QNo
If yes, provide: Storm Start Date & Time:	Storm Duration (hrs):	Approximate Amount of Precipitation (in):
Weather at time of this inspection ☐ Clear ☐ Cloudy ☐ Rain ☐ Other:	☐ Sleet ☐ Fog	☐ Snowing ☐ High Winds ture: 320F
Have any discharges occurred si If yes, describe:	ince the last inspection	? Yes ONO CAB PLASTIC AT BIZED OFEN AREA.

Site-specific BMPs

If yes, describe:

Are there any discharges at the time of inspection? The No

Project Name

Number the structural and non-structural BMPs identified in your SWPPP on your site map and list them
below (add as many BMPs as necessary). Carry a copy of the numbered site map with you during your
inspections. This list will ensure that you are inspecting all required BMPs at your site.

Describe corrective actions initiated, date completed, and note the person that completed the work in the

	Corrective Action	Log.		
	ВМР	BMP Installed?	BMP Maintenance Required?	Corrective Action Needed and Notes
I	ATH SILL Fence	☐Yes □No	□Yes ᢂNo	
2	ATA Strawbale Chuch	□Yes □No	□Yes □No	
3	B1200 Silt Fence	□Yes □No	□Yes ФNo	South of Ditch
4	B12000 straw Bale	□Yes □No	□Yes □No	North end of Ditch
5	BIZOOD SILL Fence	□Yes □No	□Yes □No	Open Avea
6	BIZOD Strawbule	□Yes □No	□Yes □No	North of Open Area
7		□Yes □No	□Yes □No	
8		□Yes □No	□Yes □No	
9		□Yes □No	□Yes □No	
10		□Yes □No	□Yes □No	

	BMP/activity	Implemented?	Maintenance Required?	Corrective Action Needed and Notes
1	Are all slopes and disturbed areas not actively being worked properly stabilized?	ØYes □No	□Yes ©No	
2	Are natural resource areas (e.g., streams, wetlands, mature trees, etc.) protected with barriers or similar BMPs?	aYes □No	☐Yes ØNo	
3	Are perimeter controls and sediment barriers adequately installed (keyed into substrate) and maintained?	QYes QNo	☐Yes ÔNo	
4	Are discharge points and receiving waters free of any sediment deposits?	ØYes □No	☐Yes No	
5	Are storm drain inlets properly protected?	□Yes □No	□Yes □No	NIA
6	Is the construction exit preventing sediment from being tracked into the street?	Yes □No	□Yes ANo	
7	Is trash/litter from work areas collected and placed in covered dumpsters?	Yes 🗆 No	□Yes 77No	
8	Are washout facilities (e.g., paint, stucco, concrete) available, clearly marked, and maintained?	UYes □No NA	□Yes □No N/A	N/A
9	Are vehicle and equipment fueling, cleaning, and maintenance areas free of spills, leaks, or any other deleterious material?	NA	□Yes □No	MA
10	Are materials that are potential stormwater contaminants stored inside or under cover?	QYes □No	TYes DINO	
11	Are non-stormwater	☐Yes ☐No	☐Yes ☐No	N/A

	BMP/activity	Implemented?	Maintenance Required?	Corrective Action Needed and Notes
	discharges (e.g., wash water, dewatering) properly controlled?	N/A	NIA	A/4
12	Are spoil piles stabilized	□Yes □No	□Yes □No	
	with vegetations and/or contained by silt fence or other appropriate and required controls?	NA	N/A	No spoils, Waste off-site.
13	Are wastes properly	□Yes □No	□Yes □No	f
	stored with no risk of discharge?	N/A	~ N/A	NA. All worder of ste
14	(Other)	□Yes □No	□Yes □No	
		N/A	N/A	

Describe any incidents of non-compliance not descri	bed above:	
N/A		
C. Dan	IZhahy	
Prepared By	Date	
RSp. 1	12/12/14	
Reviewed By	Date	

Non-Compliance

Stormwater Construction Site Inspection Report General Information Project Name BIZDA /ATA CA Location NPDES Tracking No. 12 AOCS Start/End Time **Date of Inspection** 12/11/14 Inspector's Name(s) Inspector's Title(s) Inspector's Contact Information Describe present phase of EXCANATION - PHASE II construction BACKFILL OF APPROVED AREAS Type of Inspection: ☑ Regular ☐ Pre-storm event ☐ During storm event ☐ Post-storm event Weather Information Has there been a storm event since the last inspection? The If yes, provide: Storm Start Date & Time: Storm Duration (hrs): Approximate Amount of Precipitation (in): Weather at time of this inspection? Cloudy ☐ Sleet ☐ Fog ☐ Snowing ☐ High Winds ☐ Clear Rain ☐ Other: Temperature: Have any discharges occurred since the last inspection? If yes, describe: Are there any discharges at the time of inspection? \(\subseteq \text{Yes} \)

Site-specific BMPs

If yes, describe:

Number the structural and non-structural BMPs identified in your SWPPP on your site map and list them
below (add as many BMPs as necessary). Carry a copy of the numbered site map with you during your
inspections. This list will ensure that you are inspecting all required BMPs at your site.

 Describe corrective actions initiated, date completed, and note the person that completed the work in the Corrective Action Log.

	ВМР	BMP Installed?	BMP Maintenance Required?	Corrective Action Needed and Notes
1	ATA SIH Fence	☐Yes ☐No	□Yes □No	
2	ATA Straw bules	☐Yes ☐No	□Yes □No	
3	BIZED Silt Fence	☐Yes ☐No	□Yes ŪNo	South of Ditch
4	BIZONS Strawbale	ФYes □No	□Yes □No	North kind of Ditch
5	BIZER SILL FEACE	□Yes □No	□Yes □No	Deen Area
6	BIZES Staubuly	□Yes □No	□Yes □No	North or open area
7		□Yes □No	□Yes □No	
8		□Yes □No	□Yes □No	
9		□Yes □No	□Yes □No	
10		□Yes □No	□Yes □No	

	BMP/activity	Implemented?	Maintenance Required?	Corrective Action Needed and Notes
1	Are all slopes and disturbed areas not actively being worked properly stabilized?	ØYes □No	□Yes ☑No	
2	Are natural resource areas (e.g., streams, wetlands, mature trees, etc.) protected with barriers or similar BMPs?	ØYes □No	☐Yes ZNo	
3	Are perimeter controls and sediment barriers adequately installed (keyed into substrate) and maintained?	Yes □No	□Yes □Xo	
4	Are discharge points and receiving waters free of any sediment deposits?	ØYes □No	□Yes ŒNo	
5	Are storm drain inlets properly protected?	UYes UNO	□Yes □No	XI/A
6	Is the construction exit preventing sediment from being tracked into the street?	AYes □No	□Yes ☑No	
7	Is trash/litter from work areas collected and placed in covered dumpsters?	ØYes □No	□Yes XINo	
8	Are washout facilities (e.g., paint, stucco, concrete) available, clearly marked, and maintained?	□Yes □No	□Yes □No N/A	
9	Are vehicle and equipment fueling, cleaning, and maintenance areas free of spills, leaks, or any other deleterious material?	□Yes □No	OYes ONo	N A
10	Are materials that are potential stormwater contaminants stored inside or under cover?	□Yes □No N (A	OYes ONo	N/A Weste 85th
11	Are non-stormwater	□Yes □No	□Yes □No	NA

	BMP/activity	Implemented?	Maintenance Required?	Corrective Action Needed and Notes
	discharges (e.g., wash water, dewatering) properly controlled?	N/A	N/A	N/A
12	Are spoil piles stabilized	□Yes □No	□Yes □No	, ,
	with vegetations and/or contained by silt fence or other appropriate and required controls?	<i>2 </i> 4	N/A	No stockpiles wastes off-site
13	Are wastes properly	□Yes □No	□Yes □No	
	stored with no risk of discharge?	N /A	NA	N/A. Wasks of site
14	(Other)	□Yes □No	□Yes □No	0
		N/A	NA	Whotes Offsete

Non-Comp	pliance
Describe any incidents of non-compliance not described above:	
,	
N/A	
/	
^ -	,)
Cilan	12/11/14
Prepared By	Date
RS	12/12/14
Reviewed By	Date

Stormwater Construction Site Inspection Report

	General Info	rmation			
Project Name	BIZOX/ATA RA				
NPDES Tracking No.	13	Location	BIZOD/ATA ADCS		
Date of Inspection	12/12/14	Start/End Time	1950 -1200		
Inspector's Name(s)	RichSprinzl		f		
Inspector's Title(s)	Env Engineer 330-348-1378				
Inspector's Contact Information	330-348-1378				
Describe present phase of construction	SITE RESTORATIO	N			
Type of Inspection: ☐ Regular ☐ Pre-storm event	☐ During storm event	☐ Post-storm e	vent		
	Weather Info	The second section is			
Has there been a storm event since	the last inspection? DYe	s ANO			
If yes, provide: Storm Start Date & Time: S	torm Duration (hrs):	Approximate	Amount of Precipitation (in):		
Weather at time of this inspection	?				
Clear Cloudy Rain Sleet Fog Snowing High Winds Temperature: 3					
Have any discharges occurred since the last inspection? □Yes ☑Yo If yes, describe:					
Are there any discharges at the time If yes, describe: Some water in	Are there any discharges at the time of inspection? Eyes 100 If yes, describe: Some water in corner of ATA Excavation - removed through 5ilt fence				

Site-specific BMPs

Number the structural and non-structural BMPs identified in your SWPPP on your site map and list them below (add as many BMPs as necessary). Carry a copy of the numbered site map with you during your inspections. This list will ensure that you are inspecting all required BMPs at your site.

Describe corrective actions initiated, date completed, and note the person that completed the work in the Corrective Action Log.

BMP BMP BMP **Corrective Action Needed and Notes** Installed? Maintenance Required? ATA-S, It Fence ☐Yes MNo ₽Yes □No ATA-Straw Greck Dam Dyes DNO B1200 Ditch Silf Force Dyes DNO B1200 Ditch Straw Dam Dyes DNO B1200 Open Area Silf Fence Dyes DNO B1200 Open Area Silf Fence Dyes DNO B1200 Open Area Straw Dyes DNO ☐Yes ☐No □Yes □No □Yes □No □Yes □No 5 □Yes □No 6 □Yes □No 7 □Yes □No □Yes □No □Yes □No ☐Yes ☐No □Yes □No 10 □Yes □No □Yes □No

	BMP/activity	Implemented?	Maintenance Required?	Corrective Action Needed and Notes
1	Are all slopes and disturbed areas not actively being worked properly stabilized?	⊠Yes □No	□Yes ⊠No	
2	Are natural resource areas (e.g., streams, wetlands, mature trees, etc.) protected with barriers or similar BMPs?	Ýes □No	□Yes ⊅No	
3	Are perimeter controls and sediment barriers adequately installed (keyed into substrate) and maintained?	AYes □No	□Yes QNo	
4	Are discharge points and receiving waters free of any sediment deposits?	ØYes □No	□Yes ⊠No	
5	Are storm drain inlets properly protected?	OYes ONO	□Yes □No N/A	N/A
6	Is the construction exit preventing sediment from being tracked into the street?	⊠Yes □No	□Yes ⊠No	
7	Is trash/litter from work areas collected and placed in covered dumpsters?	ŽYes □No	□Yes ŪNo	
8	Are washout facilities (e.g., paint, stucco, concrete) available, clearly marked, and maintained?	□Yes □No	□Yes □No N/A	
9	Are vehicle and equipment fueling, cleaning, and maintenance areas free of spills, leaks, or any other deleterious material?	MYes □No	□Yes MNo	
10	Are materials that are potential stormwater contaminants stored inside or under cover?	¥Yes □No	□Yes ⊠No	,
	Are non-stormwater	□Yes □No	□Yes □No	1,1

RSm & 12/12/14

	BMP/activity	Implemented?	Maintenance Required?	Corrective Action Needed and Notes
	discharges (e.g., wash water, dewatering) properly controlled?			
12	Are spoil piles stabilized with vegetations and/or contained by silt fence or other appropriate and required controls?	□Yes □No	□Yes □No	MA-wastes offsite
13	Are wastes properly stored with no risk of discharge?	Yes ANo	□Yes □No	03
14	(Other)	□Yes □No	□Yes □No	

Non-Comp	oliance
Describe any incidents of non-compliance not described above:	
/	
N/A	
/ `	
~ 0	F 14
Kank	12/12/14
Prepared By	Date
lest II.	12/13/14
Reviewed By	Date

Stormwater Construction Site Inspection Report General Information Project Name BIZES/ATA RA NPDES Tracking No. Location Date of Inspection Start/End Time Inspector's Name(s) Rich Sprinzl Inspector's Title(s) Env Engineer **Inspector's Contact Information** Describe present phase of COST-RESTORATION (ATA/BIZOO Open Area) construction Type of Inspection: ☐ Post-storm event Regular ☐ Pre-storm event ☐ During storm event Weather Information Has there been a storm event since the last inspection? See a No If yes, provide: Approximate Amount of Precipitation (in): Storm Start Date & Time: Storm Duration (hrs): 12/16/14~0,20 very light/truce Weather at time of this inspection? Snowing ☐ Clear ŽÍCloudy ☐ Rain ☐ Sleet ☐ Fog ⊓ High Winds Temperature: 28 Other: Have any discharges occurred since the last inspection? The Mino If yes, describe: Are there any discharges at the time of inspection? DYes XNo If yes, describe:

Site-specific BMPs

Number the structural and non-structural BMPs identified in your SWPPP on your site map and list them
below (add as many BMPs as necessary). Carry a copy of the numbered site map with you during your
inspections. This list will ensure that you are inspecting all required BMPs at your site.

 Describe corrective actions initiated, date completed, and note the person that completed the work in the Corrective Action Log.

	ВМР	BMP Installed?	BMP Maintenance Required?	Corrective Action Needed and Notes
1	ATA Silt Fence	⊠(Yes □No	□Yes ⊠No	
2	ATA Straw Checklyn	₂ ⊠(Yes □No	□Yes ⊉No	
3	B1200 Sillfonce	⊠ Yes □No	☐Yes ÆNo	
4	B1700 Straw CreckDam	QYes □No	□Yes ØMNo	
5	BIZOSIH FENCE	ØYes □No	XSYes □No	Need to Extend during Remon
6	B1700 Straw Check Dyn	ØYes □No	□Yes ZANo	
7		□Yes □No	□Yes □No	
8		□Yes □No	□Yes □No	
9		□Yes □No	□Yes □No	
10		□Yes □No	□Yes □No	

RSynf 12/18/14

	BMP/activity	Implemented?	Maintenance	Corrective Action Needed and Notes
1	Are all slopes and	ØYes □No	Required? UYes \ QNo	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	disturbed areas not actively being worked properly stabilized?			
2	Are natural resource areas (e.g., streams,	¶Yes □No	☐Yes ☐No	
	wetlands, mature trees, etc.) protected with barriers or similar BMPs?			
3	Are perimeter controls and sediment barriers adequately installed (keyed into substrate) and maintained?	∭Yes □No	□Yes ZNo	
4	Are discharge points and receiving waters free of any sediment deposits?	AYes □No	□Yes XNo	
5	Are storm drain inlets	□Yes □No	□Yes □No	
	properly protected?	NA	N/A	N/A
6	Is the construction exit preventing sediment from being tracked into the street?	ДYes □No	□Yes .□No	
7	Is trash/litter from work areas collected and placed in covered dumpsters?	XQYes □No	□Yes QNo	
8	Are washout facilities	□Yes □No	□Yes □No	/
	(e.g., paint, stucco, concrete) available, clearly marked, and maintained?	NA		N/A
9	Are vehicle and equipment fueling, cleaning, and maintenance areas free of spills, leaks, or any	Yes ONo	Yes ONo	
	other deleterious material?	/		
10	Are materials that are potential stormwater contaminants stored inside or under cover?	□Yes □No	□Yes <mark>'</mark> QNo	,
11	Are non-stormwater	□Yes □No	□Yes □No	N/A
		N/A	NA	/

	BMP/activity	Implemented?	Maintenance Required?	Corrective Action Needed and Notes
	discharges (e.g., wash water, dewatering) properly controlled?			
12	Are spoil piles stabilized with vegetations and/or contained by silt fence or other appropriate and required controls?	□Yes □No	□Yes □No	N/A-all hastes offsite
13	Are wastes properly stored with no risk of discharge?	□Yes □No	□Yes □No	N/A
14	(Other)	□Yes □No	□Yes □No	

Non-Comp	liance
Describe any incidents of non-compliance not described above:	
1.	
N/A	
1 7	
$\mathcal{A}_{\mathcal{C}}$	171.01.4
my	1418/19
Prepared By $\;$	Date '
	1 1
	12/19/14
Reviewed By	Date '

Storm	ıwater Constructioi	Site Inspectio	on Report				
	, General Info	rmation					
Project Name	181260/ATA-RA						
NPDES Tracking No.	15 '	Location	B1200/ATA AOCS				
Date of Inspection	12/22/14	Start/End Time	0750 /0830./525				
Inspector's Name(s) Rich Sprinz - Leidos							
Inspector's Title(s)	Environmental Era	neer					
Inspector's Contact Information	330-348-1318						
Describe present phase of construction	ATA-AST-RESTORI BIZDO-ADDITIONAL						
Type of Inspection: ☐ Pre-storm event	☐ During storm event	□ Post-storm e	vent				
	Weather Info						
If yes, provide:							
Weather at time of this inspection? ☐ Clear ☐ Cloudy ☐ Rain ☐ Sleet ☐ Fog ☐ Snowing ☐ High Winds ☐ Other: Temperature: 20°							
Have any discharges occurred since the last inspection? The Service of the last inspection?							
Are there any discharges at the tin If yes, describe: SuB Pumping	ne of inspection?************************************	NO AT BIZOD DITI	CH THROUGH SILT FENCE STEM				
			ीराया [.] प				

Site-specific BMPs

Number the structural and non-structural BMPs identified in your SWPPP on your site map and list them
below (add as many BMPs as necessary). Carry a copy of the numbered site map with you during your
inspections. This list will ensure that you are inspecting all required BMPs at your site.

 Describe corrective actions initiated, date completed, and note the person that completed the work in the Corrective Action Log.

,	CONTESTIVE MENTON	 		P
	ВМР	BMP Installed?	BMP Maintenance Required?	Corrective Action Needed and Notes
1	ATA Silt Fence	⊠Yes □No	□Yes ☑No	
2	ATTA Straw (he dellan	⊠Yes □No	□Yes ÆNo	,
3	BIZOS SHFERCE - Ditch	☑Yes □No	⊠ Yes □ No	S.F. extended Pastward 12/22/14/78
4	Birzos Straw Dim - Ditch	☑Yes □No	□Yes ☑No	•
5	BIT.00 SH FERGE -COUNTY	□ Yes □No	☐Yes ☐No	
	B1700 Straw aur-OpenAmer	QÝes □No	□Yes ☑No	
7	•	□Yes □No	□Yes □No	
8		□Yes □No	□Yes □No	
9		□Yes □No	□Yes □No	
10		□Yes □No	□Yes □No	

RSpyf12/22/14

	BMP/activity	Implemented?	Maintenance Required?	Corrective Action Needed and Notes
1	Are all slopes and disturbed areas not actively being worked properly stabilized?	Yes □No	□Yes QNo	
2	Are natural resource areas (e.g., streams, wetlands, mature trees, etc.) protected with barriers or similar BMPs?	Yes □No	□Yes □No	
3	Are perimeter controls and sediment barriers adequately installed (keyed into substrate) and maintained?	ØYes □No	□Yes ¬No	
4	Are discharge points and receiving waters free of any sediment deposits?	Yes ONo	□Yes SiNo	
5	Are storm drain inlets properly protected?	Yes ONo	□Yes No	NA
6	Is the construction exit preventing sediment from being tracked into the street?	Æxes □No	□Yes □No	
7	Is trash/litter from work areas collected and placed in covered dumpsters?	ØYes □No	□Yes □No	
8	Are washout facilities (e.g., paint, stucco, concrete) available, clearly marked, and maintained?	□Yes □No M/A	□Yes □No	NA
9	Are vehicle and equipment fueling, cleaning, and maintenance areas free of spills, leaks, or any other deleterious material?	ÆYes □No	□Yes No	
10	Are materials that are potential stormwater contaminants stored inside or under cover?	Yes □No	□Yes □No	
11	Are non-stormwater	Yes No	□Yes ŌNo	

RSmerzyzeliy

	BMP/activity	Implemented?	Maintenance Required?	Corrective Action Needed and Notes
	discharges (e.g., wash water, dewatering) properly controlled?	1		Fumpe & Denatored through SI+ Fence/Strawball Check dan
12	Are spoil piles stabilized with vegetations and/or contained by silt fence or other appropriate and required controls?	Yes □No	□Yes □Mo	
13	Are wastes properly stored with no risk of discharge?	XQYes □No	□Yes ZiNo	
14	(Other)	□Yes □No	□Yes □No	
			Non-Compli	ance
Desc	cribe any incidents of non-co	ompliance not des	cribed above:	
	N/A			
-	Prepared By			12/22/14 Date
C	Reviewed By			12/23/,4 Date

Stormwater Construction Site Inspection Report General Information Project Name BIZOO/ATA RA NPDES Tracking No. 16 Location BIZOD/ATA ADGS **Date of Inspection** Start/End Time Inspector's Name(s) RichSprinel Inspector's Title(s) Env Engineer **Inspector's Contact Information** Describe present phase of POST EXCOVERTION/RESTORATION construction Type of Inspection: ☐ Post-storm event ☐ Regular ☐ Pre-storm event ☐ During storm event Weather Information Has there been a storm event since the last inspection? The support of the last inspection? If yes, provide: Storm Start Date & Time: Storm Duration (hrs): Approximate Amount of Precipitation (in): 12/23/14 ~ P.D3" (overnight) Weather at time of this inspection? Rain □Cloudy ☐ Sleet ☐ Fog ☐ Snowing ☐ High Winds ☐ Clear ON/offsprinkle Temperature: 45 Other: Have any discharges occurred since the last inspection? □Yes ⊅No If yes, describe: Are there any discharges at the time of inspection? Tyes ANO If yes, describe:

Site-specific BMPs

Number the structural and non-structural BMPs identified in your SWPPP on your site map and list them
below (add as many BMPs as necessary). Carry a copy of the numbered site map with you during your
inspections. This list will ensure that you are inspecting all required BMPs at your site.

 Describe corrective actions initiated, date completed, and note the person that completed the work in the Corrective Action Log.

y				
	ВМР	BMP Installed?	BMP Maintenance Required?	Corrective Action Needed and Notes
1	ATA SILL FRACE	☑Yes □No	☐Yes ☑No	
2	ATA STORN DUM	₽Yes □No	□Yes □No	
3	Brzoo Ditch-Sittence	ØYes □No	□Yes □No	
4	PHZOO BHUN-Straw	XQYes □No	□Yes □No	
5	BITO O CHENAMON SI HEARD	' ② Yes □No	□Yes □No	
6	BIZZO OPENATUR STVAN	√QYes □No	□Yes □No	
7		□Yes □No	□Yes □No	
8		□Yes □No	□Yes □No	
9		□Yes □No	□Yes □No	
10		□Yes □No	□Yes □No	

12/23/14

slopes and ed areas not y being worked y stabilized? tural resource	Yes ONo	Required? □Yes □No	
ed areas not y being worked ly stabilized? tural resource	Yes UNo	LIYes MNo	
e.g., streams, ds, mature trees, otected with s or similar	Yes □No	□Yes □No	
rimeter controls liment barriers tely installed into substrate) intained?	Yes □No	□Yes □No	
charge points and ng waters free of liment deposits?	Yes □No	□Yes ØNo	
rm drain inlets y protected?	□Yes □No	□Yes □No	
onstruction exit ting sediment eing tracked into et?	MYes □No	□Yes □No	
/litter from work ollected and in covered ers?	QYes □No	□Yes ∕□No	
shout facilities aint, stucco, e) available, marked, and ned?	OYes ONo	□Yes □No □∫A	
nicle and lent fueling, g, and lance areas free s, leaks, or any eleterious 1?	□Yes □No	□Yes ØNo	
terials that are al stormwater inants stored or under cover?	Yes ONo	□Yes □No	i .
n-stormwater	□Yes □N6NN	OYes ONONH	NIA
	terials that are al stormwater inants stored or under cover?	terials that are all stormwater inants stored or under cover?	terials that are all stormwater inants stored or under cover?

E-49

	BMP/activity	Implemented?	Maintenance Required?	Corrective Action Needed and Notes
	discharges (e.g., wash water, dewatering) properly controlled?			
12	Are spoil piles stabilized with vegetations and/or contained by silt fence or other appropriate and required controls?	□Yes □No	□Yes □No	waste S/Premoved today
13	Are wastes properly stored with no risk of discharge?	Yes No	OYes ONo	J
14	(Other)	□Yes ÛNo	□Yes □No	

Non-Con	npliance	
Describe any incidents of non-compliance not described above:		
4) /n		
N/A		
$\rho = 0$		
KS V	1423/14	
Prepared By	Date /	
	1 1 .	
Jal Ihm	12/24/14	
Reviewed By	Date	

Stormwater Construction Site Inspection Report General Information Project Name NPDES Tracking No. Location BIZLOS/ATA AUG **Date of Inspection** Start/End Time

Inspector's Name(s) 25117 Inspector's Title(s) EnvEngineer/PE

Ara-Post-Restoration Describe present phase of construction

Type of Inspection:

🗖 Post-storm event ☐ During storm event

Weather Information Has there been a storm event since the last inspection? AYes ONo

If yes, provide: Storm Start Date & Time:

☐ Regular

Storm Duration (hrs):

Approximate Amount of Precipitation (in):

12/24/14~Pillerram 1227/14~0.03"rain, 12/28/14~0.28"

Weather at time of this inspection?

Inspector's Contact Information

□Cloudy ☐ Rain ☐ Sleet XX Clear

☐ Fog ☐ Snowing ☐ High Winds Temperature: 30

Other:

☐ Pre-storm event

Have any discharges occurred since the last inspection? ∠Yes □No If yes, describe: Some Bilos Ditch water may have overflowed top of plastic prorts passingthough Silt Fonce

Are there any discharges at the time of inspection? The No

If yes, describe:

Site-specific BMPs

Number the structural and non-structural BMPs identified in your SWPPP on your site map and list them below (add as many BMPs as necessary). Carry a copy of the numbered site map with you during your inspections. This list will ensure that you are inspecting all required BMPs at your site.

Describe corrective actions initiated, date completed, and note the person that completed the work in the

Corrective Action Log.

	CO// CC/// 11 (1/0//	205.		
	ВМР	BMP Installed?	BMP Maintenance Required?	Corrective Action Needed and Notes
1	ATA Siltlence	⊠Yes □No	□Yes ØNo	
2	ATIA STRUM Check Dum	⊠ Yes □No	□Yes ØNo	
3	B-1200 Atch Siltenco	⊉ Yes □No	□Yes ØNo	
4	B12000 Ditch Strum Dam	ÆYes □No	□Yes Ú No	
5	Bizon Donage Sillience		□Yes ØNo	
6	B1200 Oden Area Strawilliam	☑Yes □No	☐Yes ØNo	
7	•	□Yes □No	□Yes □No	
8		□Yes □No	□Yes □No	
9		□Yes □No	□Yes □No	
10		□Yes □No	□Yes □No	

RS 12/36/14

Overall Site Issues

Below are some general site issues that should be assessed during inspections. Customize this list as needed for conditions at your site.

	BMP/activity	Implemented?	Maintenance Required?	Corrective Action Needed and Notes
1	Are all slopes and disturbed areas not actively being worked properly stabilized?	AYes □No	□Yes □No	
2	Are natural resource areas (e.g., streams, wetlands, mature trees, etc.) protected with barriers or similar BMPs?	ZYes □No	□Yes □No	
3	Are perimeter controls and sediment barriers adequately installed (keyed into substrate) and maintained?	Yes □No	□Yes □No	-
4	Are discharge points and receiving waters free of any sediment deposits?	¥Yes □No	□Yes □No	
5	Are storm drain inlets properly protected?	OYes ONO	OYes ONo	
6	Is the construction exit preventing sediment from being tracked into the street?	OYes ONO	Yes ONo	
7	Is trash/litter from work areas collected and placed in covered dumpsters?	□Yes □No N/A	□Yes □No	
8	Are washout facilities (e.g., paint, stucco, concrete) available, clearly marked, and maintained?	Yes ONo	□Yes □No	
9	Are vehicle and equipment fueling, cleaning, and maintenance areas free of spills, leaks, or any other deleterious material?	□Yes □No	Yes ONo	
10	Are materials that are potential stormwater contaminants stored inside or under cover?	MYes □No	□Yes QNo	Ditch covered w/poly
11	Are non-stormwater	□Yes □No	□Yes □No	N/k

RS 12/34/14

	BMP/activity	Implemented?	Maintenance Required?	Corrective Action Needed and Notes
	discharges (e.g., wash water, dewatering) properly controlled?			
12	Are spoil piles stabilized with vegetations and/or contained by silt fence or other appropriate and required controls?	□Yes □No	□Yes □No	All wastes offsite
13	Are wastes properly stored with no risk of discharge?	Yes ONO	Yes ONO	All wastes offsite.
14	(Other)	□Yes □No	□Yes □No	

Non-Com	pliance
Describe any incidents of non-compliance not described above:	
A. / 10	
N/A	
	, 3 É
KSn. V	12/20/14
Prepared By	Date
Trepared by 4	Date ;
- Jel hu	12/31/14
Reviewed By	Date

Stormwater Construction Site Inspection Report

General Information					
Project Name	BIZOD/ATA RA				
NPDES Tracking No.	18	Location	BIZON/ATA ADCS		
Date of Inspection	1/5/15	Start/End Time	1505/ATA AOCS 1505-1625		
Inspector's Name(s)	Rich Sprinzl				
Inspector's Title(s)	ENU ENGINEER				
Inspector's Contact Information	330-348-1378				
Describe present phase of construction	POST-RESTORATION POST- PHASE IT EX	N (ATA) CAVATION /REST	DRATION (B1700)		
Type of Inspection: ☐ Regular ☐ Pre-storm event	☐ During storm event Weather Info	Post-storm e			
Has there been a storm event since	tina in a contrata de la contrata de la contrata de 🌽 esp				
If yes, provide:	tito inst inspection.	<u> </u>			
Storm Start Date & Time: $1/3/15 \sim 0.90'' + 44/14_{\sim}$	torm Duration (hrs): あ.25"	• • •	Amount of Precipitation (in):		
Weather at time of this inspection	?	TRACE ON GROUN	ID(OVERNIGHT)		
Weather at time of this inspection? Clear Cloudy Rain Sleet Fog Showing High Winds Temperature: 150					
Have any discharges occurred since the last inspection? The Serior Yes, describe:					
Are there any discharges at the time of inspection? Dyes ONO If yes, describe: \$1200 DITCH OVERFLOWING (TOPOFPLASTIC) TO SILTFENCE					

Site-specific BMPs

 Number the structural and non-structural BMPs identified in your SWPPP on your site map and list them below (add as many BMPs as necessary). Carry a copy of the numbered site map with you during your inspections. This list will ensure that you are inspecting all required BMPs at your site.

Describe corrective actions initiated, date completed, and note the person that completed the work in the Corrective Action Log.

	Corrective Action		·	
	ВМР	BMP Installed?	BMP Maintenance Required?	Corrective Action Needed and Notes
1	ATA SILTFENCE	Y Yes □No	☐Yes ☐No	
2	ATA STRAWCHECKDAM	XQYes □No	□Yes □No	
3	B1200 grantimons il Fence	XiYes □No	☐Yes ☐No	South of Ditch
4	B1200 B Strawbyle		□Yes □No	North Endof Ditch
5	B1200 BATEL SHIFTENCE	ØYes □No	☐Yes ☐No	OpenAren
6	131200 Strubules	⊠Yes □No	□Yes □No	North of Open Area
7		□Yes □No	□Yes □No	
8		□Yes □No	□Yes □No	
9		□Yes □No	□Yes □No	
10		□Yes □No	□Yes □No	

RSpn & 1/5/15

Overall Site IssuesBelow are some general site issues that should be assessed during inspections. Customize this list as needed for conditions at your site.

	BMP/activity	Implemented?	Maintenance Required?	Corrective Action Needed and Notes
1	Are all slopes and disturbed areas not actively being worked properly stabilized?	MaYes □No	□Yes Zi No	
2	Are natural resource areas (e.g., streams, wetlands, mature trees, etc.) protected with barriers or similar BMPs?		□Yes XNo	
3	Are perimeter controls and sediment barriers adequately installed (keyed into substrate) and maintained?	ØXYes □No	□Yes □No	
4	Are discharge points and receiving waters free of any sediment deposits?	XYes □No	□Yes □No	
5	Are storm drain inlets properly protected?	OYes ONo	□Yes □No	N/A
6	Is the construction exit preventing sediment from being tracked into the street?	Ø¥es □No	□Yes ⊠No	
7	Is trash/litter from work areas collected and placed in covered dumpsters?	YYes □No	□Yes ¤No	
8	Are washout facilities (e.g., paint, stucco, concrete) available, clearly marked, and maintained?	□Yes □No N/K	N/A	
9	Are vehicle and equipment fueling, cleaning, and maintenance areas free of spills, leaks, or any other deleterious material?	□Yes □No N/A	□Yes □No V/A	
10	Are materials that are potential stormwater contaminants stored inside or under cover?	UYes UNo	□Yes □No	N/A-waste offsite.
11	Are non-stormwater	UYes UNo	□Yes □No N/A	N/A

RSpn & 1/5/15

80,645 11,15 14,15	BMP/activity	Implemented?	Maintenance Required?	Corrective Action Needed and Notes
	discharges (e.g., wash water, dewatering) properly controlled?	N/A	N/A	N/A
12	Are spoil piles stabilized with vegetations and/or contained by silt fence or other appropriate and required controls?	□Yes □No	N/A	No stockpiles on site.
13	Are wastes properly stored with no risk of discharge?	□Yes □No	□Yes □No N/A	N/A. Waste offsite
14	(Other)	□Yes □No	□Yes □No	

Non-Comp	liance
Describe any incidents of non-compliance not described above:	
N/A	
Prepared By	1/5/15 Date
Reviewed By	Date 15

Stormwater Construction Site Inspection Report General Information **Project Name** LATA PA B1204 NPDES Tracking No. Location BRUG/ATA AOCS **Date of Inspection** Start/End Time Inspector's Name(s) Spring Inspector's Title(s) InvEngineer/ Inspector's Contact Information Describe present phase of ATTA-POST-RESTOPATION construction BIZON-RESTOPATION Type of Inspection: ☐ During storm event ☐ Post-storm event Regular ☐ Pre-storm event Weather Information Has there been a storm event since the last inspection? AYes ANO If yes, provide: Storm Start Date & Time: Storm Duration (hrs): Approximate Amount of Precipitation (in): SNOW OVERNIGHT Weather at time of this inspection? ☐ Snowing ☐ High Winds ☐ Clear □ Cloudy ☐ Rain ☐ Sleet ☐ Fog ☐ Other: Temperature: Have any discharges occurred since the last inspection? Yes No If yes, describe: Are there any discharges at the time of inspection? The ANO If yes, describe:

Site-specific BMPs

Number the structural and non-structural BMPs identified in your SWPPP on your site map and list them
below (add as many BMPs as necessary). Carry a copy of the numbered site map with you during your
inspections. This list will ensure that you are inspecting all required BMPs at your site.

Describe corrective actions initiated, date completed, and note the person that completed the work in the Corrective Action Log.

	00.1001110 2201101			
	BMP	BMP Installed?	BMP Maintenance Required?	Corrective Action Needed and Notes
ì	BAA Siltlence	ÒXYes □No	□Yes □XNo	·
2	ATA- Stran Dam	Yes ONo	.□Yes ,QfNo	
3	BIZODITCH SILTENA	√2Yes □No	☐Yes ☐No	
4	B17,00 Dich StrawDam	☑Yes □No	☐Yes ☐No	
5	Bilos OpenArea Siltlence	☑Yes □No	□Yes ØNo	
6	BIZED O'DENATED Strumbu		□Yes ØNo	
7		□Yes □No	□Yes □No	
8		□Yes □No	□Yes □No	
9		□Yes □No	□Yes □No	
10		☐Yes ☐No	□Yes □No	

RSmf 19/15

Overall Site Issues

Below are some general site issues that should be assessed during inspections. Customize this list as needed for conditions at your site.

	BMP/activity	Implemented?	Maintenance Required?	Corrective Action Needed and Notes
1	Are all slopes and disturbed areas not actively being worked properly stabilized?	YYes □No	□Yes ⊅No	
2	Are natural resource areas (e.g., streams, wetlands, mature trees, etc.) protected with barriers or similar BMPs?	⊠Yes □No	□Yes □No	
3	Are perimeter controls and sediment barriers adequately installed (keyed into substrate) and maintained?	DYes ONo	□Yes □No	
4	Are discharge points and receiving waters free of any sediment deposits?	Yes □No	□Yes ⊅No	
5	Are storm drain inlets properly protected?	Yes ONO	□Yes □No	NA
6	Is the construction exit preventing sediment from being tracked into the street?	⊠Yes □No	□Yes □No	
7	Is trash/litter from work areas collected and placed in covered dumpsters?	ÚÝes □No	□Yes □No	
8	Are washout facilities (e.g., paint, stucco, concrete) available, clearly marked, and maintained?		Yes ONo	
9	Are vehicle and equipment fueling, cleaning, and maintenance areas free of spills, leaks, or any other deleterious material?	□Yes □No	□Yes □No	
10	Are materials that are potential stormwater contaminants stored inside or under cover?	Yes ONo	Yes ONO	
- 1		□Yes □No	□Yes □No	NML.

E-58

E-59

	BMP/activity	Implemented?	Maintenance Required?	Corrective Action Needed and Notes
	discharges (e.g., wash water, dewatering) properly controlled?			
12	Are spoil piles stabilized with vegetations and/or contained by silt fence or other appropriate and required controls?	□Yes □No	□Yes □No	All haste offsite
13	Are wastes properly stored with no risk of discharge?	Yes No	Yes ONO	V
14	(Other)	□Yes □No	□Yes □No	

Non-Com	pliance
Describe any incidents of non-compliance not described above:	
1. /.	
N/A	
\mathcal{K}	1/4/15
1 m	
Prepared By	Date/
)
Ja h	1/4/15
Reviewed By	Date

Stormwater Construction Site Inspection Report General Information **Project Name** B1200 MA RA NPDES Tracking No. Location Date of Inspection Start/End Time Inspector's Name(s) Inspector's Title(s) **Inspector's Contact Information** Describe present phase of construction Type of Inspection: ☐ During storm event □ Post-storm event **Z**Regular ☐ Pre-storm event Weather Information Has there been a storm event since the last inspection? \alphaYes If yes, provide: Storm Start Date & Time: Storm D Storm Duration (hrs): Approximate Amount of Precipitation (in): Weather at time of this inspection? ☐ Sleet ☐ Clear □Cloudy ☐ Rain ☐ Fog ☐ Snowing ☐ High Winds Temperature: / 7 Other: Have any discharges occurred since the last inspection? □Yes △No If yes, describe: Are there any discharges at the time of inspection? DYes No If yes, describe:

Site-specific BMPs

Number the structural and non-structural BMPs identified in your SWPPP on your site map and list them
below (add as many BMPs as necessary). Carry a copy of the numbered site map with you during your
inspections. This list will ensure that you are inspecting all required BMPs at your site.

 Describe corrective actions initiated, date completed, and note the person that completed the work in the Corrective Action Log.

BMP BMP BMP Corrective Action Needed and Notes Installed? Maintenance Required? STASILT FENCE Yes UNo ☐Yes ☑No QYes □No □Yes ⊠No STICAL DAM BIZER Ptch Silt Fence & Yes ONO 3 □Yes ⊈(No Blue PACHSTAW Der SYes ONO ☐Yes ဩNo REMOVED AFTER RACKFILLING DITCH TODAY 61260 OseNtrea CIHTENES QYES ONO □Yes ☑No GIOD MONARUSTRAM DYES ONO □Yes □No 6 □Yes □No 7 □Yes □No □Yes □No 8 □Yes □No 9 □Yes □No □Yes □No □Yes □No □Yes □No 10

RS 19/15

Overall Site Issues

Below are some general site issues that should be assessed during inspections. Customize this list as needed for conditions at your site.

	BMP/activity	Implemented?	Maintenance	Corrective Action Needed and Notes
1	Are all slopes and disturbed areas not actively being worked	Yes ONo	Required? □Yes □No	HAULROAD REGRADED + 57RANED
2	properly stabilized? Are natural resource areas (e.g., streams, wetlands, mature trees, etc.) protected with barriers or similar BMPs?	Yes ONo	OYes ONo	
3	Are perimeter controls and sediment barriers adequately installed (keyed into substrate) and maintained?	Yes □No	□Yes • • • • • • • • • • • • • • • • • • •	
4	Are discharge points and receiving waters free of any sediment deposits?	□Nes □No	□Yes i□No	
5	Are storm drain inlets properly protected?	Yes QNo	□Yes □No	
6	Is the construction exit preventing sediment from being tracked into the street?	ÚÝes □No	□Yes NNo	
7	Is trash/litter from work areas collected and placed in covered dumpsters?	□Yes □No	□Yes □No	
8	Are washout facilities (e.g., paint, stucco, concrete) available, clearly marked, and maintained?		□Yes □No	
9	Are vehicle and equipment fueling, cleaning, and maintenance areas free of spills, leaks, or any other deleterious material?	□Yes □No	□Yes □No	
10	Are materials that are potential stormwater contaminants stored inside or under cover?	Yes ONO	OYes ONO	
11	Are non-stormwater	□Yes □Noj ,	□Yes □No//s	Mh

1/9/15

	BMP/activity	Implemented?	Maintenance Required?	Corrective Action Needed and Notes
	discharges (e.g., wash water, dewatering) properly controlled?			
12	Are spoil piles stabilized with vegetations and/or contained by silt fence or other appropriate and required controls?	□Yes □No	□Yes □No	All waster offsite.
13	Are wastes properly stored with no risk of discharge?	□Yes □No	□Yes □No WA	
14	(Other)	□Yes '□No	□Yes □No	

Non-Con	npliance
Describe any incidents of non-compliance not described above:	
,	
\\\A	
)	
1	1
1-1	: / _ /
	1/9//5
Prepared By	Date
Jal Ihan	1 (10 (1)
Reviewed By	Date

APPENDIX F RELEASE OF RAIN WATER FORM FROM SECONDARY CONTAINMENT FORMS

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	RELEASE OF KAIN WATER FROM SECONDARY CONTAINMENT
1.	Date: 12/11/84
2.	Building/Reference Number and Site Location: ATA ACL AND BIZOU AUC CFEN AREA
3.	What is the water level height (in inches) inside the containment area? 24' / 4-6'
4.	Is a hydrocarbon (POL) sheen noted on the surface of the water?
5.	Is a hydrocarbon (POL) odor noted for the water?Yes / 100
6.	If hydrocarbons (POL) present, what action was taken to remove the hydrocarbons prior to releasing the water (or was the water removed for off-site treatment and disposal)?
	<u> </u>
	- IVIT
7.	What was the approximate volume of water released from the containment (gallons or cubic feet)?
	ATA ~300 gilles
	377 ATA ~300 gilles 377 ATA ~300 gillons
8.	Following the release of the water, was the valve locked in the closed position and functioning (or drain plug screwed in)? Yes / No / NO
9.	Note any deficiencies and action taken to have them corrected, including notification to Camp Ravenna Range Control (614-336-6041) and Environmental (6568) if POL was released to the environment.
	11/1. WATER DISCHARGED THROUGH SILT FOUCE AND BE STRAW BALES PRICE TO
	WOODS, WATER WAS ON TOP OF PLASTIC
10.	Person(s) who completed this form: CORY ANGREEUS
	Phone: 330-353-6153
	LIIOIIC:

	RELEASE OF RAIN WATER FROM SECONDARY CONTAINMENT
1.	Date: 12/12/14
2.	Building/Reference Number and Site Location: ATA Ao C
3.	What is the water level height (in inches) inside the containment area? 23"
4.	Is a hydrocarbon (POL) sheen noted on the surface of the water?
5.	Is a hydrocarbon (POL) odor noted for the water?Yes (No
6.	If hydrocarbons (POL) present, what action was taken to remove the hydrocarbons prior to releasing the water (or was the water removed for off-site treatment and disposal)?
	N/A
7.	What was the approximate volume of water released from the containment (gallons or cubic feet)?
	~25 gallons
8.	Following the release of the water, was the valve locked in the closed position and functioning (or drain plug screwed in)? Yes / No
9.	Note any deficiencies and action taken to have them corrected, including notification to Camp Ravenna Range Control (614-336-6041) and Environmental (6568) if POL was released to the environment.
	N/A, WATER DISCHARGED THROUGH STRAWBALECHECK DAM PRIOR
	TO WOODS.
10.	Person(s) who completed this form: RICH SPRINZL LEIDOS FM
	Phone: _330-348-1378

APPENDIX G PROPERTY MANAGEMENT PLAN INSERTION

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Appendix A-48: Anchor Test Area – (RVAAP-48) – No Further Action (NFA) STATUS for Soil, Sediment, and Surface Water

A.48.1 Background

Although operational information is relatively limited about this former research and development area used by the Firestone Tire and Rubber Company Defense Research Division, it is believed that Anchor Test Area was used for testing explosives-driven soil anchoring devices. These devices typically consisted of metal rods driven into the ground and attached via a cable to stabilize structures or anchor them to the ground. The dates this Area of Concern (AOC) was used are unknown; however, a 1961 drawing shows the final design for the AOC; therefore, it is likely it was not active until after the early 1960s. Aerial photographs from 1966 confirm the construction of AOC features, but it is unknown whether Anchor Test Area was active at the time of the photographs.

A.48.2 Publications

The following publications can be located on <www.RVAAP.org> or in established Ravenna Army Ammunition Plant (RVAAP) information repositories:

- Final Remedial Action Report for Soil, Sediment, and Surface Water at RVAAP-48 Anchor Test Area, April 2015.
- Final Remedial Design for Soil, Sediment, and Surface Water at RVAAP-13 Building 1200 and RVAAP-48 Anchor Test Area, August 2014.
- Final Record of Decision for Soil, Sediment, and Surface Water at RVAAP-48 Anchor Test Area, March 2014.
- Final Proposed Plan for Soil, Sediment, and Surface Water at RVAAP-48 Anchor Test Area, May 2013.
- Final Remedial Investigation/Feasibility Study Report for Soil, Sediment, and Surface Water at the RVAAP-48 Anchor Test Area, Ravenna Army Ammunition Plant, Ravenna, Ohio, January 2012.
- Final PBA 2008 Supplemental Investigation Sampling and Analysis Plan Addendum No. 1 at Ravenna Army Ammunition Plant, December 2009.
- Final Work Plan Performance-Based Acquisition for Environmental Investigation and Remediation MEC Avoidance/Removal Services, September 2009.
- Final Project Management Plan for the 2008 Performance-Based Acquisition of Environmental Investigation and Remediation, December 2008.
- Final Quality Assurance Surveillance Plan for the 2008 Performance-Based Acquisition of Environmental Investigation and Remediation at Ravenna Army Ammunition Plant, September 2008.
- Final Characterization of 14 AOCs at Ravenna Army Ammunition Plant, March 2007.
- Final Sampling and Analysis Plan Addendum for the Characterization of 14 RVAAP AOCs, October 2004.

 Hazardous and Medical Waste Study No. 37-EF-5360-99 Relative Risk Site Evaluation for Newly Added Sites, October 1998.

A.48.3 Site Location and Description

Anchor Test Area is approximately 0.5 acres and is located approximately 50-75 ft west of Wilcox-Wayland Road and 2,500 ft south of Newton Falls Road (Figures 2-2 and 2-3). The distinct surface features of the AOC are the former earthen blast wall (dirt mounds) and a nearby 12 by 36 ft sandpit. The anchor tests were likely performed within the sandpit. The adjacent dirt mounds functioned as blast walls. One mound is approximately 8-10 ft high while the others are only 1-2 ft high. The dirt mounds are still observable, although the mounds are overgrown with vegetation and small trees. The sandpit is no longer visually distinct due to vegetative growth. Metal debris is visible in the area, and a section of concrete culvert can be seen in one of the dirt mounds.

The immediate vicinity is heavily forested with the exception of the large wetland approximately 500 ft to the south. No perennial surface water or drainage conveyance features are present at the AOC. Sediment and surface water are not considered media of concern at Anchor Test Area. Surface water occurs only intermittently as overland storm water runoff associated with heavy rainfall events and generally flows towards the wetland located 500 ft to the south. The wetland is drained to the south by an unnamed stream which enters the west branch of the Mahoning River.

Anchor Test Area is located on the southern edge of a small topographic high isolated from other former operational areas at an elevation of approximately 1004 ft above mean sea level (amsl). From this topographic high, the elevation gently slopes downward towards the south and west to approximately 998 ft amsl.

A.48.4 Land Use and Activities

The AOC will be used for Military Training. The selected and implemented remedy for soil allows for Unrestricted (Residential) Land Use, which also allows for Military Training Land Use.

A.48.5 Remedy Objectives

The Record of Decision for Soil, Sediment, and Surface Water at RVAAP-48 Anchor Test Area (USACE 2014) documented that sediment and surface water are not present at the AOC. Arsenic in soil was identified as a chemical of concern (COC) requiring remediation to attain Unrestricted (Residential) Land Use. Remedial activities were conducted in November 2014 and were summarized in the Remedial Action Report for Soil, Sediment, and Surface Water at RVAAP-48 Anchor Test Area (USACE 2015). A total of 45 tons of contaminated soil was excavated from within the AOC and transported and disposed at a local landfill. Confirmation sampling results and concurrence from the Ohio Environmental Protection Agency (Ohio EPA) concluded that the AOC met the criteria for Unrestricted (Residential) Land Use after implementing the remedial action.

A.48.6 Land Use Controls

Land use controls (LUCs) are not required for soil, sediment, or surface water. The remedial action achieved the remedial action objective (RAO) for arsenic in soil to attain Unrestricted (Residential) Land Use. Sediment and surface water are not present at Anchor Test Area. Other media (i.e., groundwater) will be addressed as part of future actions.

A.48.7 Monitoring and Reporting

Five-year reviews are not required for soil, sediment, and surface water at Anchor Test Area, which is compliant with Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Section 121(c).

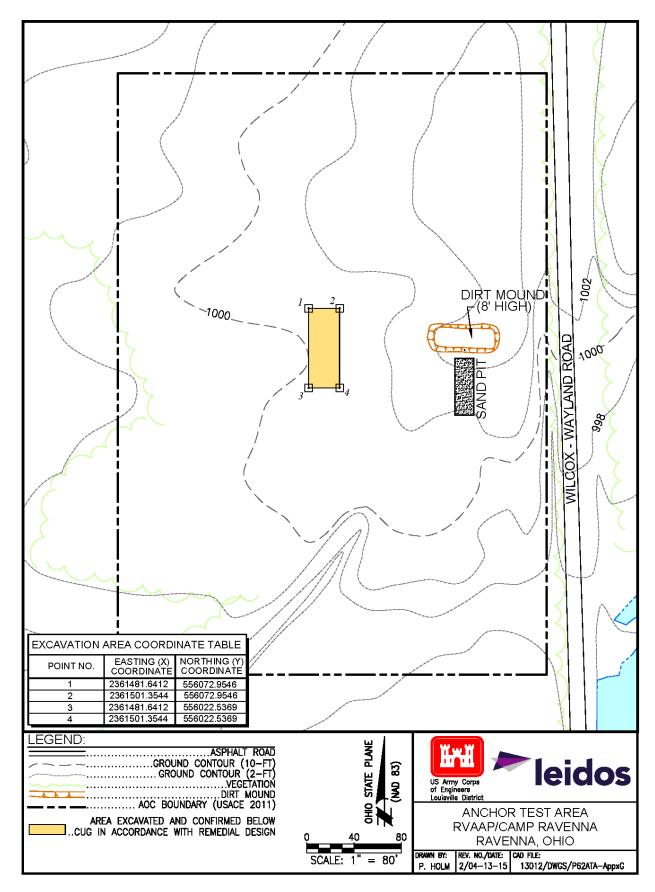


Figure A.48-1. Features of Anchor Test Area