Final

Remedial Action Report for Soil, Sediment, and Surface Water at RVAAP-13 Building 1200

Ravenna Army Ammunition Plant Portage and Trumbull Counties, Ohio

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

Prepared for:



US Army Corps of Engineers.

United States Army Corps of Engineers Louisville District



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

May 14, 2015

REPORT DOCUMENTATION PAGE			Form Approved OMB No. 0704-0188		
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1. REPORT DATE (DD-MM-YYYY) 2 14-05-2015 2	. REPORT TYPE Technica	1	3. DATES COVERED (From - To) 1941-2015		
4. TITLE AND SUBTITLE			5a. CON	ITRACT NUMBER	
Final Remarking Action Report for Soil Sod	imant and Surface Water			Contract No. W912QR-04-D-0028	
Remedial Action Report for Soil, Sed at RVAAP-13 Building 1200	imeni, and Surface water		5b. GRA	ANT NUMBER	
Ravenna Army Ammunition Plant				NA	
Portage and Trumbull Counties, Ohio			5c. PRO	GRAM ELEMENT NUMBER	
				NA	
6. AUTHOR(S)			5d. PRO	JECT NUMBER	
Jed Thomas, PE				Delivery Order No. 0001	
			5e. TAS	SK NUMBER	
				NA	
			51. WOI		
7. PERFORMING ORGANIZATION NAM	E(S) AND ADDRESS(ES)			8. PERFORMING ORGANIZATION REPORT NUMBER	
Leidos Engineering of Ohio, Inc. 8866 Commons Blvd., Suite 201 Twinsburg, OH 44087				15-012(E)/05112015	
9. SPONSORING/MONITORING AGENC	Y NAME(S) AND ADDRESS(ES)			10. SPONSOR/MONITOR'S ACRONYM(S)	
USACE - Louisville District				CELRL-ED-E-C	
U.S. Army Corps of Engineers, Louisville District 600 Martin Luther King Jr. Place			11. SPONSOR/MONITOR'S REPORT		
P.O. Box 59				NUMBER(S)	
Louisville, Kentucky 40202-0059				NA	
12. DISTRIBUTION/AVAILABILITY STATEMENT					
Reference Distribution Page					
13. SUPPLEMENTARY NOTES					
None					
14. ABSTRACT					
the approved Record of Decision for S	Soil, Sediment, and Surface W val of 376 tons of contaminate inment of CERCLA closure f	Vater at RVA	AP-13 Bu within th	plementing Alternative 2 in accordance with hilding 1200. This remedial action report he area of concern (AOC). Implementation surface water for the future land use	
15. SUBJECT TERMS Remedial cleanup goals, remedial obj	ectives, contamination, excav	ation, disposa	ıl		
16. SECURITY CLASSIFICATION OF:	17. LIMITATION OF	18. NUMBER	19a. N 🗛	NE OF RESPONSIBLE PERSON	
a. REPORT b. ABSTRACT c. THIS	ADOTDAOT	OF		Nathaniel Peters	
NA NA NA	A NA	PAGES 339	19b. TEL	EPHONE NUMBER (Include area code) 502-315-2624	
	1		1	Standard Form 298 (Rev. 8/98)	

Prescribed by ANSI Std. Z39.18

CONTRACTOR STATEMENT OF INDEPENDENT TECHNICAL REVIEW

Leidos has completed the Remedial Action Report for Soil, Sediment, and Surface Water at RVAAP-13 Building 1200 at the Ravenna Army Ammunition Plant, Portage and Trumbull Counties, 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.

/Jed Thomas, PE Study/Design Team Leader

W. Hein

W. Kevin Jago Independent Technical Review Team Leader

5/14/2015 Date

5/14/2015 Date

Significant concerns and the explanation of the resolution are as follows:

Internal Leidos Independent Technical Review was conducted on the Preliminary Draft version of this document. Subsequent versions of this document (e.g., Draft and Final) will incorporate changes based on the technical reviews of USACE, the Ohio Army National Guard, and the Ohio Environmental Protection Agency. Internal Leidos Independent Technical Review comments are recorded on a Document Review Record per Leidos quality assurance procedure QAAP 3.1. This Document Review Record is maintained in the project file. Changes to the report addressing the comments have been verified by the Study/Design Team Leader.

As noted above, all concerns resulting from independent technical review of the project have been considered.

Lisa Jones-Bateman Senior Program Manager

5/14/2015 Date



John R. Kasich, Governor Mary Taylor, Lt. Governor Craig W. Butler, Director

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 Plt RVAAP Remediation Response Project Records Remedial Response Portage County 267000859188

Subject: Approval of the "Final Remedial Action Report for Soil, Sediment, and Surface Water at RVAPP-013 Building 1200 at the Ravenna Army Ammunition Plant, Ravenna, Ohio," Dated May 14, 2015, Ohio EPA ID # 267-000859-188

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-013 Building 1200 at the Ravenna Army Ammunition Plant, Ravenna, Ohio,"* dated May 14, 2015. This document, received by Ohio EPA's NEDO on May 15, 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-013 Building 1200*" is approved.

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

Sincerely,

al9.1k

Andrew C. Kocher Site Coordinator Division of Environmental Response and Revitalization

ACK/nvr

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Final

Remedial Action Report for Soil, Sediment, and Surface Water at RVAAP-13 Building 1200

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

May 14, 2015

DOCUMENT DISTRIBUTION for the Final Remedial Action Report for Soil, Sediment, and Surface Water at RVAAP-13 Building 1200 Ravenna Army Ammunition Plant Portage and Trumbull Counties, Ohio

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Appendix G. Memorandum for Record

Appendix H. Property Management Plan Insertion

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	Chemical of Concern
CUG	Cleanup Goal
ERA	Ecological Risk Assessment
FS	Feasibility Study
ft	Feet
FWCUG	Facility-Wide Cleanup Goal
HAZWOPER	Hazardous Waste Operations and Emergency Response
HHRA	Human Health Risk Assessment
ISM	Incremental Sampling Method
OHARNG	Ohio Army National Guard
Ohio EPA	Ohio Environmental Protection Agency
PBA	Performance-Based Acquisition
PBA08 RI	PBA08 Remedial Investigation
PCB	Polychlorinated Biphenyl
QA	Quality Assurance
RAO	Remedial Action Objective
RAR	Remedial Action Report
RD	Remedial Design
RI	Remedial Investigation
ROD	Record of Decision
RSL	Regional Screening Level
RVAAP	Ravenna Army Ammunition Plant
SAIC	Science Applications International Corporation
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

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 2014b) specific to the Building 1200 area of concern (AOC) at the former Ravenna Army Ammunition Plant (RVAAP). This report documents the attainment of the selected remedy in the *Record of Decision for Soil, Sediment, and Surface Water at RVAAP-13 Building 1200* (USACE 2014a) (herein referred to as the Building 1200 ROD). The selected remedy for soil, sediment, and surface water at the Building 1200 AOC was to excavate contaminated surface soil [0-1 ft below ground surface (bgs)] to achieve a cleanup goal (CUG) of a 1,450 mg/kg concentration of manganese in surface soil for Unrestricted (Residential) Land Use. This CUG is the RVAAP facility-wide background concentration for manganese in surface soil. No chemicals of concern (COCs) were identified in subsurface soil, sediment, or surface water at the AOC; therefore, no action was required for these media.

The remedial action described within this RAR attained the remedial action CUG and remedial action objective established in the Building 1200 Record of Decision (ROD). During field activities performed from November 2014 to January 2015, 376 tons of contaminated soil was removed from two distinct areas at the Building 1200 AOC. For purposes of this report, the contaminated area at incremental sampling method (ISM) sampling locations B12ss-016M and B12ss-017M (just east of the footprint of former Building 1200) is referred to as the "Open Area" (Figure 3-1). The contaminated area at ISM sampling location B12ss-022M (ditch south of the former settling pond discharge area) is referred to as the "Drainage Ditch" (Figure ES-2). The excavated contaminated soil was transported for off-site disposal, and ISM confirmation samples were collected for laboratory analysis and comparison against the CUG.

The Open Area excavation was completed after the first phase of soil removal, as all confirmation samples were below the CUG of 1,450 mg/kg (Figure ES-1). Three phases of soil removal were performed for the Drainage Ditch. After the third phase of soil removal, confirmation sample results indicated that seven of the nine confirmation samples of the excavation extent were below the CUG of 1,450 mg/kg for manganese (Figure ES-2). The following provides further details of the samples that exceeded the CUG:

- 1. Confirmation sample B12cs-073M was representative of the excavation wall from point 24 to point 26. To refine the areas that potentially required additional excavation, samples B12cs-072M (point 25 to point 26) and B12cs-074M (point 24 to point 25) were collected as subsamples of that same area. These subsamples had manganese concentrations below the CUG; therefore, the excavation wall is considered to have attained the CUG and no further soil removal is required.
- Confirmation sample B12cs-075M was collected within a previous ISM sample location (B12ss-038M) which was sampled in February 2010 as part of the remedial investigation (RI) conducted at the Building 1200 AOC. Sample location B12ss-038M had a manganese concentration of 919 mg/kg, and the preceding Comprehensive Environmental Response,

Compensation, and Liability Act (CERCLA) documents determined that the area was not a risk to future receptors and did not require remediation. The manganese concentration in sample B12cs-075M (1,700 mg/kg) was below both the U.S. Environmental Protection Agency (USEPA) Regional Screening Level (RSL) for residential exposure to soil (1,800 mg/kg) and the RVAAP facility-wide subsurface soil (1-13 ft bgs) background concentration (3,030 mg/kg).

The U.S. Army and Ohio Environmental Protection Agency (Ohio EPA) held discussions on January 7, 2015, regarding the status of the remedial action and the data described above. In consideration that: 1) residual manganese concentrations in sample B12cs-075M from the southernmost excavation wall were below the USEPA residential RSL for soil and the RVAAP facility-wide subsurface soil background value, 2) that all other areas of the excavation were confirmed to be below the CUG, and 3) that the southern excavation extent had extended into an ISM area previously determined to be below the CUG, Ohio EPA concurred that additional soil removal was not required to attain remedial action objectives and Unrestricted (Residential) Land Use. The modeled excavation extents and sample results are presented in Figures ES-1 and ES-2. The final surveyed excavation extents are presented in Figure ES-3.

Upon confirming that no further excavation was required, the excavation at the Open Area was backfilled using soil from a U.S. Army and Ohio EPA approved source and graded to match the existing drainage pattern and neighboring and/or original elevations. The Drainage Ditch was backfilled with No. 3 coarse aggregate and graded to neighboring and/or original elevations. Revegetation and re-seeding of disturbed areas at the Open 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 (USACE 2014b). Re-seeding of the disturbed areas at and near the Drainage Ditch will be completed once the weather is more conducive for restoration activities.

By achieving the remedial action objectives, the Building 1200 AOC allows for Unrestricted (Residential) Land Use for soil, sediment, and surface water. Land use controls, CERCLA five-year reviews, or operations and maintenance sampling are not required for these media.



Figure ES-1. Excavation Area, Open Area (Based on Field Estimates)

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20 20'	US Army Corps of Engineers Louisville District BUILDING 1200 AOC SAMPLING RESULTS REMEDIAL ACTION DRAWN BY: P. HOLM 0/01-16-15 15002/DWGS/025B1200-FIG6-1



Figure ES-2. Excavation Area, Drainage Ditch (Based on Field Estimates)



Figure ES-3. Excavation Area, Drainage Ditch (Final Surveyed Extent)

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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 Building 1200 (RVAAP-13) 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 2014b) (herein referred to as the RD) specific to the Building 1200 AOC and documents attainment of the selected remedy in the *Record of Decision for Soil, Sediment, and Surface Water at RVAAP-13 Building 1200* (USACE 2014a) (herein referred to as the Building 1200 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 B1200 ROD and summarize field activities specified in the RD that are specific to the Building 1200 AOC. Remedial actions specific to RVAAP-48, Anchor Test Area, are summarized in a separate RAR.

The Building 1200 AOC will be used for Military Training. The remedial alternative selected in the Building 1200 ROD 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 future use. The Building 1200 ROD specified that surface soil [0-1 ft below ground surface (bgs) containing manganese exceeding cleanup goals (CUGs) should be remediated to a level protective of human health. No COCs were identified in subsurface soil, sediment, or surface water at the AOC; therefore, no action was required for these media.

The selected remedy was executed in accordance with the RD (USACE 2014b). 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:
 - Appendix A. Utility Clearance
 - 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 from Secondary Containment Forms
 - Appendix G. Memorandum for Record
 - o Appendix H. Property Management Plan Insertion

This section describes the former RVAAP, the Building 1200 AOC, and discusses previous investigations at the Building 1200 AOC.

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 BUILDING 1200 AOC BACKGROUND INFORMATION AND PREVIOUS INVESTIGATIONS

The Building 1200 AOC is a former operational facility designated as RVAAP-13. The AOC is approximately 7.7 acres and is situated in the eastern portion of Camp Ravenna (Figures 2-2 and 2-3). From 1941 to 1971, three buildings served as a quality assurance (QA) inspection station that encompassed disassembly of production line munitions items from explosive melt-pour operations. Building demolition activities took place between November 2004 and August 2005, and no buildings or structures remain at the AOC. The remaining surface features include the access road, drainage ditch from the former operations area to the former settling pond, and the former settling pond and associated discharge area.

Since 1989, the Building 1200 AOC has been included in various assessments and investigations including:

- Resource Conservation and Recovery Act Facility Assessment (Jacobs 1989);
- Preliminary Assessment for the Characterization of Areas of Contamination (USACE 1996);
- Phase I Remedial Investigation of High-Priority Areas of Concern (USACE 1998); and
- Characterization of 14 AOCs (MKM 2007).

In 2010, the PBA08 Remedial Investigation (PBA08 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-13 Building 1200* (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 the Building 1200 AOC. Manganese was the only human health COC identified in surface soil (0-1 ft bgs). No COCs were identified for subsurface soil (1-13 ft bgs), sediment, or surface water. The ERA concluded with a Level II Screening Level ERA, recommending no further action from the ecological perspective. The contaminant fate and transport evaluation indicated soil remediation was not warranted to protect groundwater resources.

The CUG for manganese in surface soil was developed in the feasibility study (FS) to support the remedial alternative selection process for soil remediation. The remedial alternatives were developed 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 recommended alternative in the FS [and further modified in the *Proposed Plan for Soil, Sediment, and Surface Water at RVAAP-13 Building 1200* (USACE 2013) and approved in the *Record of Decision for Soil, Sediment, and Surface Water at RVAAP-13 Building 1200* (USACE 2014a)] was Attain Unrestricted (Residential) Land Use. This alternative involved removing shallow surface soil (0-1 ft bgs) at incremental sampling method (ISM) locations B12ss-016M, B12ss-017M, and B12ss-022M (Figure 2-3) that exceeded the CUG for manganese (1,450 mg/kg). For purposes of this RAR, ISM sampling locations B12ss-016M and B12ss-017M are referred to as the Open Area and ISM sample location B12ss-022M is referred to as the Drainage Ditch.

2.3 COMMUNITY INVOLVEMENT AND REGULATORY APPROVAL

The *Proposed Plan for Soil, Sediment, and Surface Water at RVAAP-13 Building 1200* (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 2-1. General Location and Orientation of Camp Ravenna

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Figure 2-2. Camp Ravenna Installation Map



Figure 2-3. Features of the Building 1200 AOC

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 future land use. CUGs are the chemical concentrations required to achieve the RAO.

3.1 REMEDIAL ACTION OBJECTIVE

The RAO specified in the Building 1200 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 and exceeded the RAO by remediating manganese in surface soil to a depth of 1 ft bgs at ISM locations B12ss-016M, B12ss-017M, and B12ss-022M. No remedial actions were required for subsurface soil, sediment, or surface water. No remedial actions were required 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 the Building 1200 AOC. The HHRA identified manganese 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 ISM locations B12ss-016M, B12ss-017M, and B12ss-022M required remediation to attain the future land use (Military Training) or Unrestricted (Residential) Land Use. No COCs were identified in subsurface soil, sediment, or surface water for either the National Guard Trainee or Resident Farmer.

Media	Chemicals of Concern	Cleanup Goals	Location and Depth Requiring Remediation (Manganese Concentration)
Surface Soil	Manganese	1,450 mg/kg ¹	B12ss-016M (4,100 mg/kg), B12ss-017M (2,700 mg/kg), B12ss-022M (1,800 mg/kg) at 0-1 ft bgs
Subsurface Soil	None	Not applicable	Not applicable
Sediment	None	Not applicable	Not applicable
Surface Water	None	Not applicable	Not applicable

Table 3-1. Summary of COCs, CUGs, and Locations Requiring Remedyat the Building 1200 AOC

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

ft = Feet.

bgs = Feet below ground surface.

mg/kg = Milligrams per kilogram.

3.3 REMEDIAL DESIGN SAMPLING

To ensure the areas with contamination at the Open Area (B12ss-016M and B12ss-017M) and Drainage Ditch (B12ss-022M) were 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. RD sampling was conducted to collect surface soil (0-1 ft bgs) samples from nine ISM areas in December 2013 (Figure 3-1) to further refine the areas requiring soil removal. The removal of all contaminated soil was further ensured by confirmation ISM sampling conducted on the sidewalls and excavation floor after the soil removal activities.

RD sample results exceeding the manganese CUG at the Building 1200 AOC are presented in Table 3-2. The ISM sample locations above the CUG required soil removal with confirmation sampling. The ISM sample areas below the CUG (B12ss-041M and B12ss-046M) did not require soil removal.

		Manganese Concentration	Concentration Exceed Manganese CUG of 1,450	
Station	Sample ID	(mg/kg)	mg/kg?	
B12ss-041M	B12ss-041M-0001-SO	690	No	
B12ss-042M	B12ss-042M-0002-SO	3600	Yes	
B12ss-043M	B12ss-043M-0004-SO	3600	Yes	
B12ss-044M	B12ss-044M-0005-SO	4400	Yes	
B12ss-045M	B12ss-045M-0006-SO	3500	Yes	
B12ss-046M	B12ss-046M-0007-SO	550	No	
B12ss-047M	B12ss-047M-0008-SO	1900	Yes	
B12ss-048M	B12ss-048M-0010-SO	1500	Yes	
B12ss-049M	B12ss-049M-0011-SO	1500	Yes	

Table 3-2. Remedial Design Sampling Results and Cleanup Goal Comparison

CUG = Cleanup goal.

ID = Identification.

mg/kg = Milligrams per kilogram.

3.4 BUILDING 1200 MOUND REMEDIAL DESIGN SAMPLING

As discussed in Section 4.3 of the *Remedial Investigation/Feasibility Study Report for Soil, Sediment, and Surface Water at RVAAP-13 Building 1200* (USACE 2012), an asbestos visual inspection did not identify any asbestos on the ground surface at the AOC. However, the inspection recommended further investigation of a 4 ft high by 21 ft long by 13 ft wide mound near the footprint of former Building T-4602. As part of RD activities, a total of 30 push-probe aliquots were collected and visually examined in December 2013. In addition, five test pits along the sides and top of the mound were excavated with a shovel to the base of the mound, and the surface of the mound was cleared of snow and vegetation to allow for visual inspection. No building debris or construction materials were observed in the push probes, on the surface of the mound, or in the test pits (USACE 2014b). Soil samples were collected, and none of the sample results exceeded the facility-wide background values and Resident Receptor (Adult/Child) facility-wide cleanup goals (FWCUGs) for RVAAP. Therefore, no remedial actions were required for this mound.



Figure 3-1. Remedial Design Sampling Scheme

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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:

- Selecting and procuring a qualified remedial subcontractor (Chemtron Corporation) to perform the work described herein;
- Providing project management and construction oversight;
- Coordinating transportation and disposal activities with the Camp Ravenna Environmental Office; and
- Collecting 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

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 U.S. Army confirmed there were no known subsurface hazards at or near the planned excavation areas. The e-mail documentation of the 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 personnel were all Hazardous Waste Operations and Emergency Response (HAZWOPER) trained, provided appropriate certifications, and received a briefing prior to conducting field activities. 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 (herein referred to as 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 7, 2014, Leidos conducted a site walk with Camp Ravenna Environmental Office to review planned clearing and grubbing activities. On November 18 and 19, 2014, the site was grubbed and cleared to facilitate equipment access along the off-road haul route and excavate the contaminated soil from the Drainage Ditch. The Subcontractor removed as few trees as possible to perform the excavation. A few large trees near the Drainage Ditch required removal prior to implementing additional excavation activities. In accordance with Camp Ravenna Environmental Office requirements, these large trees were cut to manageable sections and staged near Building 812 for public sale as firewood under the Camp Ravenna natural resources program. Scrub, small trees, and saplings were grubbed and cleared without cutting or chipping and scattered at the project site.

5.5 STORMWATER CONTROLS

In accordance with the RD, silt fencing was installed to prevent siltation from the construction area at both excavation areas. In addition to the RD specifications, a straw bale check dam was placed within the two ditches north and east of the Open Area and at the north end of the Drainage Ditch. A portion of the Open Area was used as a stockpile area; a straw bale berm was constructed around the stockpile area. Photograph 5-1 shows the silt fence downgradient of the Open Area, and Photograph 5-2 shows the straw bale berm around the stockpile area. Photograph 5-3 shows the silt fence downgradient of the Drainage Ditch, and Photograph 5-4 shows the straw bale check dam north of the Drainage Ditch. Excavation areas and stockpiles area 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. The completed stormwater construction site inspection 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 the best management practices employed during remedial activities (e.g., covering the excavated area at night), no excavation water required containerization. Stormwater accumulated on top of plastic in both excavation areas. The Subcontractor removed the non-contact stormwater with either a submersible or trash pump, and it was then pumped 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 Camp Ravenna Environmental Office. The completed forms are presented in Appendix F.



Photograph 5-1. Silt Fence Installed Downgradient of the Open Area



Photograph 5-2. Straw Bale Berm around the Stockpile Area



Photograph 5-3. Silt Fence Installed Downgradient of the Drainage Ditch



Photograph 5-4. Straw Bale Check Dam at the Drainage Ditch

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

6.1 SOIL REMOVAL AND CONFIRMATION SAMPLING PROCEDURES

Soil removal activities began on November 19, 2014, and were completed on December 22, 2014. Appendix D contains the manifest log, waste profile, and waste manifests. During the soil removal activities, 376 tons of non-hazardous soil was removed from the Open Area and Drainage Ditch and stockpiled within the Open Area. Stockpiled soil was transferred to lined, on-road haul trucks for off-site disposal. Plastic sheeting was placed between the stockpile area and truck to contain spillage. Any spillage was transferred to the stockpile or into a haul truck. Once the on-road haul truck was filled, the exterior of the truck was inspected to ensure no contaminated soil was present. The truck was covered prior to leaving the construction site. Once the on-road haul truck left the site, the contaminated soil was transported for acceptance by Envirite of Ohio in Canton, Ohio, and ultimately disposed at American Landfill in Waynesburg, Ohio. A 312E Hydraulic Excavator was used to excavate soil to a minimum of 1 ft bgs from both removal areas at the Building 1200 AOC.

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 the Building 1200 AOC, as the soil was adequately dry for transport and acceptance. The field change request forms for this project are presented in Appendix B.

Excavation equipment was decontaminated after coming in contact with contaminated soil and before contacting other materials in accordance with Section 6.4 of the RD (USACE 2014b). Additionally, the excavation equipment was decontaminated prior to being removed from the work site. The Leidos Field Manager inspected equipment prior to handling restoration materials or demobilization.

After excavation activities were completed, confirmatory ISM samples were collected from excavation sidewalls and floors and analyzed in accordance with Section 7.0 of the RD (USACE 2014b). Disposable sampling equipment, including sterile plastic scoops and foil pans were used to collect ISM sample aliquots; therefore, no decontamination was required. All confirmatory samples were dried, sieved, and ground finely by TestAmerica Laboratories, Inc. (located in North Canton, Ohio) and were analyzed for total manganese. The results were compared against the CUG of 1,450 mg/kg. All confirmation soil sample results are presented in Appendix C.

Sections 6.2 and 6.3 describe the soil removal activities and confirmation sampling in further detail.

6.2 OPEN AREA

Surface soil removed from the Open Area consisted mainly of ballast, gravel, topsoil, and sandstone. The excavation bottom was sandstone with some large rocks. The excavated soil was directly loaded into lined on-road haul trucks. Photograph 6-1 shows the removal and loading of surface soil from the contaminated area, and Photograph 6-2 shows the covered and secured excavated area and remaining stockpile.





Photograph 6-1. Removing and Loading Surface Soil from the Open Area

Photograph 6-2. Covered and Secured Excavated Open Area and Stockpile

Five confirmatory ISM samples (plus one field duplicate) were collected from the excavation footprint at locations B12cs-056M, B12cs-057M, B12cs-058M, B12cs-059M, and B12cs-066M (Figure 6-1). The confirmation sample results showed the remedial activities attained the CUG for manganese, and no additional soil removal was required from this area. The confirmation soil sample results are summarized in Table 6-1 and presented in Appendix C. Figure 6-1 shows the plan view of the excavated area.

Location				Lab Result	
				Manganese	below
				Concentration	Cleanup
Description	Field Point	Sample Location	Sample ID	(mg/kg)	Goal? ^a
Northern wall	Point 1 to 2	B12cs-056M	B12cs-056M-0022-SO	160	Yes
Northern wall, field	Point 1 to 2	B12cs-056M	B12cs-056M-0027-FD	120	Yes
duplicate	101111102	D12c5-050WI	B12cs-050W-0027-17D	120	105
Western wall	Point 4 to 1	B12cs-057M	B12cs-057M-0023-SO	890	Yes
Eastern wall	Point 2 to 3	B12cs-058M	B12cs-058M-0024-SO	720	Yes
Southern wall	Point 3 to 4	B12cs-059M	B12cs-059M-0025-SO	700	Yes
Excavation floor	All	B12cs-066M	B12cs-066M-0021-SO	510	Yes

^a Remedial action cleanup goal for manganese in soil is 1,450 mg/kg.

ID = Identification.

mg/kg = Milligrams per kilogram.
6.3 DRAINAGE DITCH

Three phases of soil excavation and confirmation sampling from the Drainage Ditch were required. The following subsections describe these phases in detail.

6.3.1 Phase 1

Phase 1 excavation of the Drainage Ditch consisted of removing the entirety of ISM location B12ss-022M to 1 ft bgs. Soil was excavated with the 312E Hydraulic Excavator and loaded into a Terramac RT9 tracked, off-road haul truck to transport the soil to the stockpile area. Excavated material mainly consisted of saturated organic material, silt and clay (excavation floor). Photograph 6-3 shows the removal of surface soil from the Drainage Ditch, and Photograph 6-4 shows the loading of contaminated soil into the tracked off-road haul truck. Photograph 6-5 shows the completed Phase 1 removal of surface soil from the contaminated ditch area, and Photograph 6-6 shows the loading of stockpiled soil into an on-road haul truck.



Photograph 6-3. Removing Surface Soil from the Drainage Ditch (Phase 1)



Photograph 6-4. Loading Contaminated Soil into the Tracked Truck (Phase 1)



Photograph 6-5. Completed Excavation at northern end of Drainage Ditch (Phase 1)



Photograph 6-6. Loading Stockpiled Soil

Five confirmatory ISM samples were collected from the floor and sidewalls of the excavated Drainage Ditch (Figure 6-2). Based on the manganese concentrations of these confirmatory ISM samples, additional ISM soil samples representing subdivided areas may have been analyzed. The confirmation sample results showed the following:

- 1) B12cs-050M (floor) Confirmation sample was below the CUG. No additional removal was required from the floor.
- 2) B12cs-055M (north wall, Point 8 to 9) Confirmation sample was below the CUG. No additional removal was required from the wall.
- B12cs-052M (south wall, Point 12 to 13) Confirmation sample exceeded the CUG. Additional soil removal from this area required in Phase 2.
- 4) B12cs-053M (east wall, Point 9 to 12) Confirmation sample exceeded the CUG. To refine areas requiring further soil removal, this sample location was further subdivided into three sample locations, sampled, and analyzed. The confirmation sample results of the subdivided sample locations are described below:
 - a. B12cs-063M (east wall, Point 9 to 10) Confirmation sample exceeded the CUG. Additional soil removal from this area required in Phase 2.
 - b. B12cs-064M (east wall, Point 10 to 11) Confirmation sample exceeded the CUG. Additional soil removal from this area required in Phase 2.
 - c. B12cs-065M (east wall, Point 11 to 12) Confirmation sample was below the CUG. No additional soil removal was required.
- 5) B12cs-054M (west wall, Point 8 to 13) Confirmation sample exceeded the CUG. To refine areas requiring further soil removal, this sample location was further subdivided into three sample locations, sampled, and analyzed. The confirmation sample results of the subdivided sample locations are described below:
 - a. B12cs-060M (west wall, Point 8 to 15) Confirmation sample exceeded the CUG. Additional soil removal from this area required in Phase 2.
 - b. B12cs-061M (west wall, Point 14 to 15) Confirmation sample exceeded the CUG. Additional soil removal from this area required in Phase 2.
 - c. B12cs-062M (west wall, Point 13 to 14) Confirmation sample exceeded the CUG. Additional soil removal from this area required in Phase 2.

Phase 1 confirmation soil sample results are summarized in Table 6-2. Figure 6-2 shows the plan view of the Phase 1 excavated extent of B12ss-022M, confirmation sample locations, and identifies areas that required additional removal after the Phase 1 soil removal.

6.3.2 Phase 2

Phase 2 excavation of the Drainage Ditch, soil stockpiling, and loadout was performed the week of December 8, 2014. Additional tree clearing was completed for excavation and moving equipment. Surface soil (0-1 ft bgs) was excavated 4 ft beyond the existing lateral extent at the locations that had manganese concentrations above the CUG during the Phase 1 activities.

Location				Manganese	Lab Result below	
Description Field Point Sample Loca		Sample Location	Sample ID	Concentration (mg/kg)	Cleanup Goal? ^a	
Excavation floor	All	B12cs-050M	B12cs-050M-0016-SO	390	Yes	
Northern wall	Point 8 to 9	B12cs-055M	B12cs-055M-0020-SO	410	Yes	
Southern wall	Point 12 to 13	B12cs-052M	B12cs-052M-0017-SO	1900	No	
Southern wall, field duplicate	Point 12 to 13	B12cs-052M	B12cs-052M-0026-FD	3600	No	
Western wall	Point 8 to 13	B12cs-054M	B12cs-054M-0019-SO	1900	No	
Western wall-Subdivided North	Point 8 to 15	B12cs-060M	B12cs-060M-0031-SO	2100	No	
Western Wall-Subdivided Middle	Point 14 to 15	B12cs-061M	B12cs-061M-0032-SO	1800	No	
Western wall-Subdivided South	Point 13 to 14	B12cs-062M	B12cs-062M-0033-SO	1500	No	
Eastern wall	Point 9 to 12	B12cs-053M	B12cs-053M-0018-SO	1800	No	
Eastern wall-Subdivided North	Point 9 to 10	B12cs-063M	B12cs-063M-0034-SO	1700	No	
Eastern wall-Subdivided Middle	Point 10 to 11	B12cs-064M	B12cs-064M-0035-SO	2300	No	
Eastern wall-Subdivided South	Point 11 to 12	B12cs-065M	B12cs-065M-0036-SO	1300	Yes	

Table 6-2. Confirmation Sample Results, Drainage Ditch, Phase 1 Excavation

^a Remedial action cleanup goal for manganese in soil is 1,450 mg/kg.

ID = Identification.

mg/kg = Milligrams per kilogram.

After the Phase 2 soil removal activities were complete, three confirmatory ISM samples were collected from the newly excavated side walls on December 10, 2014. Based on the manganese concentrations of these confirmatory ISM samples, additional ISM soil samples representing subdivided areas may have been analyzed. The confirmation sample results showed the following:

- 1) B12cs-070M (western wall, Point 17 to 23) Confirmation sample was below the CUG. No additional removal was required from the wall.
- B12cs-073M (eastern wall, Point 24 to 26) Confirmation sample exceeded the CUG. To refine areas requiring further soil removal, this sample location was further subdivided into two sample locations, sampled, and analyzed. The confirmation sample results of the subdivided sample locations are described below:
 - a. B12cs-072M (Point 25 to 26) Confirmation sample was below the CUG. No additional removal was required from the wall.
 - b. B12cs-074M (Point 24 to 25) Confirmation sample was below the CUG. No additional removal was required from the wall.
- 3) B12cs-068M (south wall, Point 16 to 17) Confirmation sample exceeded the CUG. Due to the small size of the sample location, this sample was not split. Since the location had a manganese concentration above the CUG, additional excavation was required in Phase 3.

The Phase 2 confirmation soil sample results are summarized in Table 6-3. Figure 6-3 shows the plan view of the excavated area after Phase 2 and confirmation sample locations.

Location					Lab Result
Description	Field Point	Sample Location	Sample ID	Manganese Concentration (mg/kg)	below Cleanup Goal? ^a
Western wall	Point 23 to 17	B12cs-070M	B12cs-070M-0040-SO	1000	Yes
Eastern wall	Point 24 to 26	B12cs-073M	B12cs-073M-0043-SO	1700	No
Eastern wall- Subdivided North	Point 24 to 25	B12cs-074M	B12cs-074M-0044-SO	1100	Yes
Eastern wall- Subdivided Middle	Point 25 to 26	B12cs-072M	B12cs-072M-0042-SO	1300	Yes
Southern wall	Point 17 to 16	B12cs-068M	B12cs-068M-0038-SO	4200	No

 Table 6-3. Confirmation Sample Results, Drainage Ditch, Phase 2 Excavation

^a Remedial action cleanup goal for manganese in soil is 1,450 mg/kg.

ID = Identification.

mg/kg = Milligrams per kilogram.

6.3.3 Phase 3

Phase 3 excavation of the southern wall (ISM sample B12cs-068M), soil stockpiling, and loadout was performed on December 22 and 23, 2014. The southern wall was excavated for an additional 15 ft laterally (0-1 ft bgs). One confirmation ISM sample, B12cs-075M (Figure 6-3, Point 19 to Point 20), and one field duplicate were collected on December 22, 2014. The laboratory results indicate manganese concentrations were slightly above the remedial action CUG. Photograph 6-7 shows the completed Phase 3 excavation, and Photograph 6-8 shows the Phase 3 stockpile area. The

confirmation soil sample results are summarized in Table 6-4. Figure 6-3 shows the plan view of the excavated area after Phase 3.



Photograph 6-7. Completed Phase 3 Excavation



Photograph 6-8. Phase 3 Soil Stockpile Area

	Location				Lab Result
				Manganese Concentration	below Cleanup
Description	Field Point	Sample Location	Sample ID	(mg/kg)	Goal? ^a
Southern wall	Point 19 to 20	B12cs-075M	B12cs-075M-0046-SO	1700	No
Southern wall, field duplicate	Point 19 to 20	B12cs-075M	B12cs-075M-0047-FD	1600	No

 Table 6-4. Confirmation Sample Results, Drainage Ditch, Phase 3 Excavation

^a Remedial action cleanup goal for manganese in soil is 1,450 mg/kg.

ID = Identification.

mg/kg = Milligrams per kilogram.

6.3.4 Meeting with Ohio EPA

The Army and Ohio EPA held a meeting on January 7, 2015, to discuss status of the Building 1200 AOC remedial action and confirmation sampling results for the Phase 3 excavation. Information presented and discussed at the meeting included the fact that the Phase 3 excavation had extended into a previous ISM sample location (B12ss-038M) collected in February 2010 as part of the PBA08 RI conducted at the Building 1200 AOC. The Phase 3 confirmation sample B12cs-075M was collected within the footprint of the previous ISM sample B12ss-038M. Sample location B12ss-038M had a manganese concentration of 919 mg/kg, and the preceding CERCLA documents determined that this area was not a risk to future receptors and did not require remediation. The manganese concentration in confirmation sample B12cs-075M (1,700 mg/kg) was below the U.S. Environmental Protection Agency (USEPA) Regional Screening Level (RSL) for residential exposure to soil (1,800 mg/kg) and the RVAAP facility-wide subsurface soil (1-13 ft bgs) background concentration (3,030 mg/kg).

In consideration that: 1) residual manganese concentrations in sample B12cs-075M from the southernmost excavation wall were below the USEPA residential RSL for soil and the RVAAP

facility-wide subsurface soil background value, 2) all other areas of the excavation were confirmed to be below the CUG, and 3) the southern excavation extent had extended into an ISM area previously determined to be below the CUG, Ohio EPA concurred that additional soil removal was not required to attain RAOs and Unrestricted (Residential) Land Use. Appendix G contains the Memorandum for Record documenting agreements made during this meeting.

6.4 **POST-EXCAVATION LAND SURVEY**

The Subcontractor utilized depth controls to ensure that a minimum of 1 ft depth was achieved throughout the excavation of surface soil at both removal areas, and was verified by Leidos Field Manager. A post-excavation land survey was performed at both excavation areas to record the final excavation extents presented in Figure 6-4.

6.5 UNEXPECTED MATERIALS

No unexpected materials were encountered during soil removal activities.



Figure 6-1. Excavation Area, Open Area (Based on Field Estimates)



Figure 6-2. Excavation Area, Drainage Ditch, Phase 1 (Based on Field Estimates)



Figure 6-3. Excavation Area, Drainage Ditch, Phases 2 and 3 (Based on Field Estimates)



Figure 6-4. Building 1200 Excavation Areas (Final Surveyed Extent)

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 in the Open 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 facility-wide surface soil background values and Resident Receptor CUGs at 10^{-6} risk. The USEPA RSL for residential exposure for soil (10^{-6} risk) was used if an analyte did not have a CUG. A brief summary of the results is presented below.

- All analyte concentrations were below either the RVAAP facility-wide surface background values or the screening level.
- All pesticide, polychlorinated biphenyl (PCB), explosive, propellant, 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 RVAAP FWCUG for the Resident Farmer at 10⁻⁵ (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 EXCAVATIONS

Upon confirming that no further excavation was required, the excavation footprint in the Open Area 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. Disturbed areas adjacent to the excavation area were re-graded to fix ruts as necessary. Photograph 7-1 shows the backfilled excavation area at the Open Area, and Photograph 7-2 shows the excavation area after seeding and mulching.





Photograph 7-1. Backfilled "Open" Excavation Area

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

The excavation footprint of the Drainage Ditch was backfilled using No. 3 coarse aggregate and graded to match the neighboring and/or original elevations. Disturbed areas adjacent to the ditch and haul route were re-graded as necessary. Photograph 7-3 shows the backfilled excavation area, and Photograph 7-4 shows the haul route after re-grading and mulching.



Photograph 7-3. Backfilled "Ditch" Excavation Area



Photograph 7-4. Haul Route after Re-grading, and Mulching

7.3 RE-VEGETATION AND REMOVAL OF EROSION CONTROLS

Re-vegetation and re-seeding of disturbed areas at the Open Area and east of the Drainage Ditch took place during the week of December 8, 2014. Re-seeding of the area was performed with the prescribed seed mixtures detailed in Tables 8-3 and 8-4 of the RD. Re-seeding of the disturbed areas at and near the Drainage Ditch will be completed once the weather is more conducive for restoration activities. Leidos will continue to perform weekly inspections of the site and the silt fencing to ensure the stormwater controls are intact until vegetation is established to 70 percent coverage. 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). Upon establishing the required vegetation coverage, the silt fencing and other stormwater controls will be removed and disposed.

The selected remedy for soil, sediment, and surface water at the Building 1200 AOC, as documented in the Building 1200 ROD (USACE 2014a), was to excavate contaminated soil from two removal areas to achieve a manganese CUG of 1,450 mg/kg for Unrestricted (Residential) Land Use. The remedial action described within this RAR attained the remedial action CUG and RAO established in the Building 1200 ROD (USACE 2014a). Table 8-1 presents the removal totals from the Building 1200 AOC.

Table 8-1	. Soil Remova	l Quantity
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Location	Total Waste Volume (tons)		
Building 1200 AOC	376		

The Open Area excavation was completed after the first phase of soil removal, as all confirmation samples were below the CUG of 1,450 mg/kg. Three phases of soil removal were performed for the Drainage Ditch. After the third phase of soil removal, confirmation sample results indicated that seven of the nine confirmation samples of the excavation extent were below the CUG of 1,450 mg/kg for manganese. Table 8-2 presents the confirmation sample results for the final excavation extents. The following details the samples that exceeded the CUG:

- Confirmation sample B12cs-073M was representative of the excavation wall from point 24 to point 26. To refine the areas that potentially required additional excavation, samples B12cs-072M (point 25 to point 26) and B12cs-074M (point 24 to point 25) were collected as subsamples of that same area. These subsamples had manganese concentrations below the CUG; therefore, the excavation wall is considered to have attained the CUG and no further soil removal is required.
- 2) Confirmation sample B12cs-075M was collected within a previous ISM sample location (B12ss-038M) which was sampled in February 2010 as part of the PBA08 RI conducted at the Building 1200 AOC. Sample location B12ss-038M had a manganese concentration of 919 mg/kg, and the preceding CERCLA documents determined that this area was not a risk to future receptors and did not require remediation. The manganese concentration in sample B12cs-075M (1,700 mg/kg) was below the USEPA RSL for residential exposure to soil (1,800 mg/kg) and the RVAAP facility-wide subsurface soil (1-13 ft bgs) background concentration (3,030 mg/kg).

The Army and Ohio EPA held discussions on January 7, 2015, regarding the status of the remedial action and the data described above, and, Ohio EPA concurred that additional soil removal was not required to attain RAOs and Unrestricted (Residential) Land Use (USACE 2014c). Appendix H presents an insert for the Property Management Plan that provides a summary of the Building 1200 AOC, the remedial activities completed, and documentation that no land use controls are required for soil, sediment, and surface water after completion of this remedial action.

Confirmation Sounds Area Description	Confirmation Sample Location	Confirmation Soil Sample Results (Manganese Concentration,	Confirmation Sample Result Below
Confirmation Sample Area Description		mg/kg)	Cleanup Goal? ^a
	Open Area	1.50	**
B12cs-056M (Northern Wall	B12cs-056M	160	Yes
B12cs-057M (Western wall)	B12cs-057M	890	Yes
B12cs-058M (Eastern Wall)	B12cs-058M	720	Yes
B12cs-059M (Southern wall)	B12cs-059M	700	Yes
B12cs-066M (Excavation floor)	B12cs-066M	510	Yes
	Drainage Ditc	h	
Excavation floor, Phase 1	B12cs-050M	390	Yes
Northern wall, Phase 1	B12cs-055M	410	Yes
Western wall, Phase 2	B12cs-070M	1000	Yes
Eastern wall- Subdivided South, Phase 1	B12cs-065M	1300	Yes
Eastern wall, Phase 2	B12cs-073M	1700	No
Eastern wall- Subdivided Middle, Phase 2	B12cs-072M	1100	Yes
Eastern wall- Subdivided North, Phase 2	B12cs-074M	1300	Yes
Southern wall, Phase 3	B12cs-075M	1700	No ^b

Table 8-2. Confirmation Soil Sample Results of Final Excavation Extent

^aRemedial action cleanup goal for manganese in soil is 1,450 mg/kg.

^b Result is below EPA Regional Screening Level (RSL) (1,800 mg/kg) and PBA08 RI sample B12ss-038M (919 mg/kg) was below CUG. Army and Ohio EPA held discussions on January 7, 2015 and concurred no additional excavation is required (USACE 2014c).

mg/kg = Milligrams per kilogram.

By achieving the remedial action CUG, the Building 1200 AOC allows for Unrestricted (Residential) Land Use for soil, sediment, and surface water. Land use controls, CERCLA five-year reviews, or operations and maintenance sampling are not required for these media.

- Jacobs (Jacobs Engineering Group, Inc.) 1989. RCRA Facility Assessment, Preliminary Review/ Visual Site Inspection Ravenna Army Ammunition Plant Ravenna, Ohio. October 1989.
- 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.
- USACE (U.S. Army Corps of Engineers) 1996. Preliminary Assessment for the Ravenna Army Ammunition Plant, Ravenna, Ohio. February 1996.
- USACE 1998. Phase I Remedial Investigation Report for High-Priority Areas of Concern at the Ravenna Army Ammunition Plant, Ravenna, Ohio. February 1998.
- USACE 2012. Remedial Investigation/Feasibility Study Report for Soil, Sediment, and Surface Water at RVAAP-13 Building 1200 at the Ravenna Army Ammunition Plant, Ravenna, Ohio. March 2012.
- USACE 2013. Proposed Plan for Soil, Sediment, and Surface Water at RVAAP-13 Building 1200 at the Ravenna Army Ammunition Plant, Ravenna, Ohio. April 2013.
- USACE 2014a. Record of Decision for Soil, Sediment, and Surface Water at RVAAP-13 Building 1200 at the Ravenna Army Ammunition Plant, Ravenna, Ohio. March 2014.
- USACE 2014b. 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 2014c. Memorandum for Record from Army to Ohio EPA DERR-NEDO, Ravenna Army Ammunition Plant (RVAAP) Restoration Program, Portage/Trumbull Counties, RVAAP-13 Building 1200 Remedial Action. January 15, 2015.

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APPENDIX A UTILITY CLEARANCE

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Thomas, Jed H.

From: Sent: To: Cc: Subject: Signed By: Sedlak, Kevin M CTR (US) <kevin.m.sedlak.ctr@mail.mil> Wednesday, November 12, 2014 7:28 AM Thomas, Jed H. Sprinzl, Rich E. RE: B1200 and ATA - Utility Clearance (UNCLASSIFIED) 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 (<u>kevin.m.sedlak.ctr@mail.mil</u>) 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?

1

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

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Classification: UNCLASSIFIED Caveats: NONE

APPENDIX B FIELD CHANGE REQUEST FORMS

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CONTRACT NO. GSA Contract No. W912QR-04-D-0028 I REQUESTOR IDENTIFICATION NAME Jed Thomas ORGANIZATION Leidos	
	PHONE <u>330-405-5802</u>
TITLE Deputy Project Manager SIGNATURE	Hanne
BASELINE IDENTIFICATION	an a fear ann an ann an ann an an ann an ann an
BASELINE(S) AFFECTED 🗍 Cost 📋 Scope 📋 Milesto	one 🛛 Method of Accomplishment
AFFECTED DOCUMENT (TITLE, NUMBER AND SECTION) Remedial Design for Soil, Sediment, and Surface Water at Anchor Test Area (Section 6.0)	RVAAP-13 Building 1200 and RVAAP-48
DESCRIPTION OF CHANGE: Due to the timing of the remedial action and potential satur Remedial Subcontractor would also like a provision to use Building 1200 and Anchor Test Area remedial actions. On with excavated soil. The drying agent will be mixed with th not have free liquids when it is loaded to the haul trucks an The Calciment will not change the characteristics of the dis sheets presenting typical chemical analysis and TCLP ana	Calciment® as a drying agent during the an as needed basis, Calciment® will be mixed be excavated soil to ensure the material does and can be accepted for disposed at the landfill. sposed material. Attached to this FCR are lab
JUSTIFICATION: Justification for use of the Calciment® is to ensure haul tru transport and the excavated material is dry enough to be a	icks do not contain any free liquids during iccepted at the receiving landfill.
IMPACT OF NOT IMPLEMENTING REQUEST:	
The use of the drying agent will ensure the truck loads will will ensure the landfill will accept the disposed material. The volumes, relative to volumes created from other drying agent	he use of the Calciment® will minimize disposa
PARTICIPANTS AFFECTED BY IMPLEMENTING REQUE Leidos and Remedial Subcontractor	EST:
COST ESTIMATE (\$) <u>0</u> ESTIMATOR SIGNATURI PHONE <u>NA</u> D	E <u>No cost impact to USACE</u> ATE <u>NA</u>
PREVIOUS FCR AFFECTED 🗌 YES 🖾 NO; IF YES, FC	CR NO
USACE COTR Jud W. Miller	DATE 10/29/2014
OHIO EPA PROJECT MANAGER	DATE 11/5/14
LEIDOS H&S MANGER SIGNATURE (IF APPLICABLE)	IA DATE <u>NA</u>



CALCIMENT®

Typical Chemical Analysis Grand River

<u>Element</u>	<u>Formula</u>	<u>Percent</u>
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	SO3	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	С	14.25
Available\Free Calcium Oxid	e	40 - 45

Page 2 of 3



CALCIMENT®

<u>TCLP</u>

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	Ag	<0.01	5.00

Page 3 of 3

PROJ	O. <u>FCR-RVAAPB1200-002</u> DATE INITIATED <u>10/24/1</u> ECT <u>Building 1200 and Anchor Test Area Remedial Action</u> RACT NO. <u>GSA Contract No. W912QR-04-D-0028 Delivery Order No. 0001</u>
	ESTOR IDENTIFICATION Jed Thomas ORGANIZATION Leidos PHONE <u>330-405-5802</u>
TITLE	Deputy Project Manager SIGNATURE
BASE	INE IDENTIFICATION
BASE	INE(S) AFFECTED 🗌 Cost 🔲 Scope 🔲 Milestone 🖂 Method of Accomplishment
Reme	CTED DOCUMENT (TITLE, NUMBER AND SECTION) dial Design for Soil, Sediment, and Surface Water at RVAAP-13 Building 1200 and RVAAP-48 Anchor Test Area (Section 8.1)
<u>Sectio</u> backfil Test A use. A	RIPTION OF CHANGE: n 8.1 of the referenced Remedial Design indicates the a previous backfill source will be utilized once the cleanup goals are attained during the soil excavation at the Building 1200 and Anch rea AOCs. However, the backfill source specified in the Remedial Design is no longer availab accordingly, Leidos identified and sampled a new backfill source at Patrick Excavating and True 9 State Route 5, Ravenna, Ohio.
	ptember 11, 2014, the staged backfill source at Patrick Excavating and Trucking was sampled
	M sample (B12bf-060M-0014M-SO) was collected and analyzed for RVAAP full suite parame VOCs. One discrete sample (B12bf-060-0015-SO) was collected and analyzed for VOCs.
except The re backgr Screer	VOCs. One discrete sample (B12bf-060-0015-SO) was collected and analyzed for VOCs. sults of the analyses are attached to this FCR. Data was screened using the RVAAP surface ound values and Resident Receptor cleanup goals (CUGs) at 10-6 risk. The EPA Regional ning Level for resident for soil (10-6 risk) (May 2014) was used if an analyte did not have a CU
The re backgr Screer brief s	VOCs. One discrete sample (B12bf-060-0015-SO) was collected and analyzed for VOCs. sults of the analyses are attached to this FCR. Data was screened using the RVAAP surface ound values and Resident Receptor cleanup goals (CUGs) at 10-6 risk. The EPA Regional ning Level for resident for soil (10-6 risk) (May 2014) was used if an analyte did not have a CU ummary of the results are presented below. All analyte concentrations were below either the surface background values or the screening
except The re backg Screet brief s 1) 2)	VOCs. One discrete sample (B12bf-060-0015-SO) was collected and analyzed for VOCs. sults of the analyses are attached to this FCR. Data was screened using the RVAAP surface ound values and Resident Receptor cleanup goals (CUGs) at 10-6 risk. The EPA Regional ning Level for resident for soil (10-6 risk) (May 2014) was used if an analyte did not have a CU ummary of the results are presented below. All analyte concentrations were below either the surface background values or the screening level. All pesticide, PCB, explosive, and VOC analyte concentrations were either not detectable or estimated concentrations.
except The re backg Screen brief s 1) 2)	VOCs. One discrete sample (B12bf-060-0015-SO) was collected and analyzed for VOCs. sults of the analyses are attached to this FCR. Data was screened using the RVAAP surface ound values and Resident Receptor cleanup goals (CUGs) at 10-6 risk. The EPA Regional hing Level for resident for soil (10-6 risk) (May 2014) was used if an analyte did not have a CU ummary of the results are presented below. All analyte concentrations were below either the surface background values or the screening level. All pesticide, PCB, explosive, and VOC analyte concentrations were either not detectable or
except The re backgi Screer brief s 1) 2) 3)	VOCs. One discrete sample (B12bf-060-0015-SO) was collected and analyzed for VOCs. sults of the analyses are attached to this FCR. Data was screened using the RVAAP surface ound values and Resident Receptor cleanup goals (CUGs) at 10-6 risk. The EPA Regional ning Level for resident for soil (10-6 risk) (May 2014) was used if an analyte did not have a CU ummary of the results are presented below. All analyte concentrations were below either the surface background values or the screening level. All pesticide, PCB, explosive, and VOC analyte concentrations were either not detectable or estimated concentrations. All SVOC analyte concentrations were either not detectable or were below the screening lev with the exception of benzo(a)pyrene at a concentration of 0.11 mg/kg. The concentration of
except The re backgr Screer brief s 1) 2) 3) Additic	VOCs. One discrete sample (B12bf-060-0015-SO) was collected and analyzed for VOCs. sults of the analyses are attached to this FCR. Data was screened using the RVAAP surface ound values and Resident Receptor cleanup goals (CUGs) at 10-6 risk. The EPA Regional ing Level for resident for soil (10-6 risk) (May 2014) was used if an analyte did not have a CU ummary of the results are presented below. All analyte concentrations were below either the surface background values or the screening level. All pesticide, PCB, explosive, and VOC analyte concentrations were either not detectable or estimated concentrations. 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
except <u>The re</u> <u>backg</u> <u>Screet</u> <u>brief s</u> 1) 2) 3) <u>Additic</u> <u>JUSTI</u> <u>The ju</u> <u>and Ar</u> <u>Remen</u>	VOCs. One discrete sample (B12bf-060-0015-SO) was collected and analyzed for VOCs. sults of the analyses are attached to this FCR. Data was screened using the RVAAP surface ound values and Resident Receptor cleanup goals (CUGs) at 10-6 risk. The EPA Regional ing Level for resident for soil (10-6 risk) (May 2014) was used if an analyte did not have a CU ummary of the results are presented below. All analyte concentrations were below either the surface background values or the screening level. All pesticide, PCB, explosive, and VOC analyte concentrations were either not detectable or estimated concentrations. All SVOC analyte concentrations were either not detectable or were below the screening lev with the exception of benzo(a)pyrene at a concentration of 0.11 mg/kg. The concentration o benzo(a)pyrene (0.11 mg/kg) is less than half the Resident Farmer CUG at 10-5 of 0.221 mg nal details of the sampling activities will be presented in the Remedial Action Report. FICATION: stification for this FCR is to obtain approval of staged soil for use as backfill after the Building for chor Test Areas meet the cleanup goals. As noted, the source used previously and cited in the
except The re backg Screer brief s 1) 2) 3) Additic JUSTI The ju and Ar Remed action	VOCs. One discrete sample (B12bf-060-0015-SO) was collected and analyzed for VOCs. sults of the analyses are attached to this FCR. Data was screened using the RVAAP surface ound values and Resident Receptor cleanup goals (CUGs) at 10-6 risk. The EPA Regional hing Level for resident for soil (10-6 risk) (May 2014) was used if an analyte did not have a CU ummary of the results are presented below. All analyte concentrations were below either the surface background values or the screening level. All pesticide, PCB, explosive, and VOC analyte concentrations were either not detectable or estimated concentrations. All SVOC analyte concentrations were either not detectable or were below the screening leve with the exception of benzo(a)pyrene at a concentration of 0.11 mg/kg. The concentration o benzo(a)pyrene (0.11 mg/kg) is less than half the Resident Farmer CUG at 10-5 of 0.221 mg nal details of the sampling activities will be presented in the Remedial Action Report. FICATION: stification for this FCR is to obtain approval of staged soil for use as backfill after the Building for the concent and the cleanup goals. As noted, the source used previously and cited in the dial Design is no longer available for use. Having acceptable backfill available for the remedial

Leidos and Remedial Subco	D BY IMPLEMENTING REQU	EST:	
COST ESTIMATE (\$) _0_	ESTIMATOR SIGNATUR PHONE <u>NA</u>	RE <u>No cost impact to</u> DATE <u>NA</u>	USACE
PREVIOUS FCR AFFECTE	D 🗌 YES 🖾 NO; IF YES, F	CR NO	
USACE COTR	more W. Will	DATE _	10/29/2014 11/5/14
OHIO EPA PROJECT MAN	AGER	DATE	11/3-114
LEIDOS H&S MANGER SIGNA		A DATE 1	NA
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		Ň	

Sample Id Date Analyte	CAS Number	Background Criteria	Screening Level(HQ=.1, Risk=1E-6)	Screening Level Source	B12bf-060- 0015-SO 09/11/14	B12bf-060M 0014-SO 09/11/14
Analyte			etals			
Aluminum	7429-90-5	17700	7380	DEC	NR	6400
	7429-90-3	0.96		RFC	NR	0.13 J
Antimony Arsenic	7440-36-0	15.4	0.425		NR	0.13 J 7.4
Barium	7440-38-2	88.4	1413		NR	7.4 46 J
Beryllium	7440-39-3	0.88		RSL	NR	46 J 0.38 J
Cadmium	7440-41-7	0.00		RFC	NR	<0.35 UJ
Calcium	7440-43-9	15800	1000000		NR	<0.33 UJ 1700
Chromium	7440-70-2		8147		NR	1700 15 J
		17.4				
Cobalt	7440-48-4 7440-50-8	10.4		RFC RFC	NR	6.4 7.4
Copper		17.7			NR	
Iron	7439-89-6	23100	180000	RDA RSL	NR	14000
Lead	7439-92-1	26.1			NR	17
Magnesium	7439-95-4	3030	1000000		NR	1200
Manganese	7439-96-5	1450		RFC	NR	590
Nickel	7440-02-0	21.1		RFC	NR	11 J
Potassium	7440-09-7	927	100000		NR	370
Selenium	7782-49-2	1.4		RSL	NR	1.4
Silver	7440-22-4	0		RFC	NR	0.038 J
Sodium	7440-23-5	123	1000000		NR	71 J
Thallium	7440-28-0	0	0.612		NR	<0.35 UJ
Vanadium	7440-62-2	31.1		RFC	NR	15
Zinc	7440-66-6	61.8	2321	RFC	NR	33 J
	00.07.4	Organics -	• Explosives	220		0.07.11
1,3,5-Trinitrobenzene	99-35-4			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	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
		Organics -	Semivolatile			

Building 1200/Anchor Test Area Backfill Sample Results

Some la Id	CAS	Background	Screening Level(HQ=.1,	Screening Level Source	B12bf-060-	B12bf-060M-
Sample Id	Number	Criteria	Risk=1E-6)	Level Source		0014-SO
Date Analyte	_				09/11/14	09/11/14
+		I	100	D. 07		0.00477
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			RSL	NR	<0.17 U
2-Nitrobenzenamine	88-74-4		61		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		61.2	RFC	NR	<0.17 U
Acenaphthene	83-32-9		350	RSL	NR	<0.0085 U
Acenaphthylene	208-96-8	1		RSL	NR	<0.0043 U
Anthracene	120-12-7	1	1700		NR	0.013 J
Benz(a)anthracene	56-55-3	1	0.221		NR	0.084
Benzenemethanol	100-51-6	1		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	1		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	1		RSL	NR	<0.0085 U
Bis(2-chloroisopropyl) ether	108-60-1			RSL	NR	<0.086 U
Bis(2-ethylhexyl)phthalate	117-81-7	1		RSL	NR	<0.086 U
Butyl benzyl phthalate	85-68-7	1		RSL	NR	<0.086 U
Carbazole	86-74-8	1		RFC	NR	<0.086 U
Chrysene	218-01-9	1		RFA	NR	0.11
Di-n-butyl phthalate	84-74-2			RSL	NR	<0.086 U
Di-n-octylphthalate	117-84-0			RSL	NR	<0.080 U
/ 1						
Dibenz(a,h)anthracene	53-70-3		0.022	кга	NR	<0.0085 U

Building 1200/Anchor Test Area Backfill Sample Results

Somulo Id	CAS	Background	Screening Level(HQ=.1, Pick=1E_6)	Screening	B12bf-060-	B12bf-060M-
Sample Id	Number	Criteria	Risk=1E-6)	Level Source	0015-SO	0014-SO
Date Analyte					09/11/14	09/11/14
•	132-64-9		15.2	DEC	ND	-0.0005 II
Dibenzofuran			4900	RFC	NR NR	<0.0085 U
Diethyl phthalate	84-66-2		4900			<0.086 U
Dimethyl phthalate	131-11-3		1.(2	NR	NR NR	<0.086 U 0.2
Fluoranthene	206-44-0			RFC		
Fluorene Hexachlorobenzene	86-73-7			RFC	NR	<0.0085 U
	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		NR	0.096
Isophorone	78-59-1			RSL	NR	<0.086 U
N-Nitroso-di-n-propylamine	621-64-7			RFC	NR	<0.086 U
N-Nitrosodiphenylamine	86-30-6	ļ		RSL	NR	<0.086 U
Naphthalene	91-20-3			RFC	NR	0.0093 J
Pentachlorophenol	87-86-5			RFA	NR	<0.086 U
Phenanthrene	85-01-8			RSL	NR	0.066
Phenol	108-95-2		1800		NR	<0.086 U
Pyrene	129-00-0			RFC	NR	0.16
		Organics - I	Pesticide/PCB			-
4,4'-DDD	72-54-8			RSL	NR	<0.0017 U
4,4'-DDE	72-55-9		2.63	RFC	NR	0.0011 J
4,4'-DDT	50-29-3		1.9	RSL	NR	<0.0017 U
Aldrin	309-00-2		0.053	RFC	NR	<0.0017 U
Dieldrin	60-57-1		0.056	RFC	NR	<0.0017 U
Endosulfan I	959-98-8		37	RSL	NR	<0.0017 U
Endosulfan II	33213-65-9		37	RSL	NR	<0.0017 U
Endosulfan sulfate	1031-07-8		37	RSL	NR	<0.0017 U
Endrin	72-20-8		1.12	RFC	NR	<0.0017 U
Endrin aldehyde	7421-93-4		1.8	RSL	NR	<0.0017 U
Endrin ketone	53494-70-5		1.8	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	1		RSL	NR	<0.0033 U
Toxaphene	8001-35-2	1		RSL	NR	<0.034 U
alpha-BHC	319-84-6		0.085		NR	0.0049 J
alpha-Chlordane	5103-71-9			RSL	NR	<0.0017 U
beta-BHC	319-85-7		0.496		NR	0.0023 J
delta-BHC	319-86-8	1		NR	NR	<0.0017 U
gamma-Chlordane	5103-74-2			RSL	NR	0.0019 J
5	10100 / 7 2	Organic	s - Volatile		- '**	5.0017.8
1,1,1-Trichloroethane	71-55-6			RSL	<0.0012 U	NR
1,1,2,2-Tetrachloroethane	79-34-5	1		RSL	<0.0012 U	NR
1,1,2-Trichloroethane	79-00-5	1		RSL	<0.0012 UJ	NR

Building 1200/Anchor Test Area Backfill Sample Results

			Screening			
	CAS	Background		Screening	B12bf-060-	B12bf-060M-
Sample Id	Number	Criteria	Risk=1E-6)	Level Source		0014-SO
Date					09/11/14	09/11/14
Analyte						
1,1-Dichloroethane	75-34-3			RSL	<0.0012 U	NR
1,1-Dichloroethene	75-35-4			RSL	<0.0012 U	NR
1,2-Dibromoethane	106-93-4		0.036		<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		<0.0024 U	NR
2-Butanone	78-93-3		2700	RSL	<0.0047 U	NR
2-Hexanone	591-78-6			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		8.1	RSL	<0.0012 UJ	NR
Toluene	108-88-3		490	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		1.8	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-RVAA</u> PROJECT <u>Building 12</u> CONTRACT NO. <u>GSA</u>	PB1200-003 00 and Anchor Test Area Reme Contract No. W912QR-04-D-0	dial Action 028 Delivery Order	DATE INITIATED <u>11/3/14</u> <u>No. 0001</u>
REQUESTOR IDENTI NAME <u>Jed Thomas</u>	FICATION ORGANIZATION Leidos	PHONE	E <u>330-405-5802</u>
TITLE Deputy Project	Manager SIGNATURE	1 hours	
BASELINE IDENTIFIC	CATION	n de trê de fan de f	
BASELINE(S) AFFEC	TED 🗌 Cost 🔲 Scope 🗌 M	ilestone 🛛 Metho	od of Accomplishment
AFFECTED DOCUME Remedial Design for S Anchor Test Are	NT (TITLE, NUMBER AND SECTI ioil, Sediment, and Surface Wat a.(Section 6.0)	ON) er at RVAAP-13 Bi	uilding 1200 and RVAAP-48
to potentially using Ca provision to use Stabl-	e remedial action and potential s lciment® as a drying agent, Leic Zorb as a drying agent during th	tos and Remedial	may be encountered, in addition Subcontractor would also like a nd Anchor Test Area remedial rated soil. Stabl-Zorb is designed
to both aid in fluid state environmentally-friend ensure the material do for disposed at the lan	ilization and is an all-natural pro ly remediation material. The dry es not have free liquids when it dfill. The Stabl-Zorb will not cha ure Safety Data Sheets associat	oduct made of corn ing agent will be m is loaded to the ha ange the characteri	cob. Stabl-Zorb is an nixed with the excavated soil to nul trucks and can be accepted stics of the disposed material
JUSTIFICATION:			
			ain any free liquids during
Justification for use of transport and the exca	vated material is dry enough to	trucks do not cont be accepted at the	receiving landfill.
transport and the exca	vated material is dry enough to	trucks do not cont be accepted at the	receiving landfill.
transport and the exca IMPACT OF NOT IMP The use of the drying a will ensure the landfill	vated material is dry enough to	be accepted at the will not leak during I. The use of the S	g transportation to the landfill and Stabl-Zorb will minimize disposal
transport and the exca IMPACT OF NOT IMP The use of the drying a will ensure the landfill volumes, relative to vo	vated material is dry enough to LEMENTING REQUEST: agent will ensure the truck loads will accept the disposed materia lumes created from other drying CTED BY IMPLEMENTING RE	be accepted at the will not leak during I. The use of the S agents such as sa	g transportation to the landfill and Stabl-Zorb will minimize disposal
transport and the exca IMPACT OF NOT IMP The use of the drying a will ensure the landfill volumes, relative to vo PARTICIPANTS AFFE	vated material is dry enough to LEMENTING REQUEST: agent will ensure the truck loads will accept the disposed materia lumes created from other drying CTED BY IMPLEMENTING RE Subcontractor	be accepted at the will not leak during if. The use of the S gagents such as sa QUEST:	g transportation to the landfill and Stabl-Zorb will minimize disposal
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transport and the exca IMPACT OF NOT IMP The use of the drying a will ensure the landfill volumes, relative to vo PARTICIPANTS AFFE Leidos and Remedial COST ESTIMATE (\$)	vated material is dry enough to LEMENTING REQUEST: agent will ensure the truck loads will accept the disposed materia lumes created from other drying CTED BY IMPLEMENTING RE Subcontractor 	be accepted at the will not leak during it. The use of the S agents such as sa GUEST: TURE <u>No cost</u> DATE <u>NA</u> S, FCR NO.	g transportation to the landfill and Stabl-Zorb will minimize disposal awdust
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		The Anders	ons	
		THE ANDER		
DATE PREPARED:	10/17/00			URRENT AS OF: 6/18/14
SECTION 1: PROD	UCT / SUPPLIER ID	ENTIFICATION		
PRODUCT NAMES:	Dri-Zorb [®] , DZ300, Stabl-Zorb [™]	Stabl-Cobs [™] , St	tabl-Pell [™] , Grit-O'Cobs [®] ,	Lite-R'Cobs [®] , XRP [®] ,
PRODUCT USE:	Corncob carrier / fi	iller		
MFR INFO:	The Andersons Co PO Box 119 Maumee, Ohio, US			
	FOR EMERGENC			
		JN: (419) 891-28	807	
HAZARD SYMBOLS	NING MAY CAU MAY CAU	DN USE MILD SKIN I USE EYE IRRITA	RRITATION	
HAZARD SYMBOLS	/ STATEMENTS: NING MAY CAU MAY CAU MAY CAU	DN USE MILD SKIN I USE EYE IRRITA' ISE RESPIRATO CATEGORY 3	RRITATION TION IRY IRRITATION INTERPRETATION Mild	
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HAZARD SYMBOLS WAR HAZARD CLASSIFIC SKIN IRRITATION EYE IRRITATION TARGET ORGAN SY PRECAUTIONARY S IF SKIN IRRITATIO IF IN EYES, RINSI IF EYE IRRITATIO WASH HANDS AF USE ONLY OUTD AVOID BREATHIN IF INHALED, REM DISPOSE OF COM SECTION 3: COM	/ STATEMENTS: INING MAY CAU MAY CAU	SE MILD SKIN I SE EYE IRRITA SE RESPIRATO CATEGORY 3 2B 3 EDICAL ADVICE WATER FOR S EDICAL ADVICE WATER FOR S EDICAL ADVICE WATER FOR S EDICAL ADVICE WATER FOR S EDICAL ADVICE	RRITATION TION DRY IRRITATION Mild Severe Eye Irritatio Transient Respirato EVERAL MINUTES – RE EAS REST IN A POSITION CO NCE WITH NATIONAL // EDIENTS CAS NUMBER	n Possible by Initation Possible EMOVE CONTACT LENSE OMFORTABLE FOR BREAT REGIONAL / LOCAL REGIONAL / LOCAL

CORNCOBS

IF INHALED:	Move victim to	o fresh air. Seek med	ical attention if irritation persis	ts.
IF ON SKIN:		d areas with soap and sh contaminated clothi	water. Seek medical attentio	n if irritatior
IF IN THE EYES:	Immediately f		east 20 minutes. Seek medic	al attention
IF SWALLOWED:		ert and not convulsing, ate medical attention.	give one glass of water to dilu	ite material
SPECIAL TREATMENT:	None known			
HEALTH HAZARDS:	See Section 1	11		
SECTION 5: FIREFIGHTI	NG MEASURES			
EXTINGUISHING MEDIA:		Use media suitable required.	for surrounding fire. No spec	ial media
SPECIFIC FIRE HAZARDS		Decomposition pro-	ducts may be toxic; typical of v	wood smok
SPECIAL FIREFIGHTING P	ROCEDURES:	Wear full protective contained breathing	e clothing and positive-pressur g apparatus.	e self-
Store in a cool, dry, well ven	and the owned and	RSONAL PROTECTI	ON	
SECTION 8: EXPOSURE				
EXPOSURE LIMITS:				
We we show the second second	I <u>T OSH</u>	A PEL	ACGIH TLV	
EXPOSURE LIMITS:	15 m	A PEL g/m ³ (total) g/m ³ (respirable)	ACGIH TLV 10 mg/m ³ (inhalable) 3 mg/m ³ (respirable)	
EXPOSURE LIMITS: HAZARDOUS COMPONEN	15 m	g/m ³ (total)	10 mg/m ³ (inhalable)	

PERSONAL PROTECTIVE E	QUIPMENT / PROTECTION MEASURES / CONTROLS:
RESPIRATORY PROTECTIO	N: NIOSH approved particulate respirator, if required
EYE PROTECTION:	Safety glasses with sideshields, goggles, or faceshield recommend
SKIN PROTECTION:	Long sleeves, cotton gloves recommended
VENTILATION:	Local exhaust ventilation recommended
SECTION 9: PHYSICAL A	ND CHEMICAL PROPERTIES
APPEARANCE AND ODOR:	Tan granules, with no appreciable odor
pH:	Not available
MELTING POINT:	Not applicable
BOILING POINT: FLASH POINT:	Not applicable 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:	
AUTOIGNITION TEMP:	Not applicable
DECOMPOSITION TEMP:	Not applicable
CONDITIONS TO AVOID: INCOMPATIBILITY:	Excessive heat (over 300°F) Strong oxidizers, caustics, acids
HAZARDOUS DECOMPOSI	TION PRODUCTS: COx
SECTION 11: TOXICOLOG	GICAL INFORMATION
	be irritating to the nose and respiratory tract. Skin irritation may result from ated or prolonged exposure. May also be irritating to the eyes.
CARCINOGENICITY: The	ingredient is not a known / listed carcinogen.
INGREDIENT TOXICITY RAI	NGES:
ORAL: None	listed
DERMAL: None	listed
INHALATION: None	listed
SECTION 12: ECOLOGIC	LINFORMATION
This product is not known to I	e ecotoxic, persistent, or have the potential to bioaccumulate.
	Page

CC	ND			2
	/8.	ч	uв	

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

HEALTH	1
FLAMMABILITY	0
INSTABILITY	0
HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0
SS	
	FLAMMABILITY INSTABILITY HEALTH FLAMMABILITY PHYSICAL HAZARD

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.

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Page 5 of 5
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: 240-44673-1

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: 11/28/2014 5:08:43 PM

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

LINKS **Review your project** results through Total Access Have a Question? Ask-The Expert Visit us at: www.testamericainc.com

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Sample Summary	7
Detection Summary	8
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QC Association Summary	16
Lab Chronicle	18
Certification Summary	20
Chain of Custody	21

Definitions/Glossary

Client: Leidos, Inc Project/Site: RVAAP Building 1200 and ATA Remedial Act.

TestAmerica Job ID: 240-44673-1.

QualifiersG

Metals

wetais	
Qualifier	Qualifier Description
D.	The reported value is from a dilution.
J.	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteri.
4.	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not . pplicable.a
U.	Undetected at the Limit of Detection.a

lossaryG

Abbreviation	These commonly used abbreviations may or may not be present in this report.	
¤.	Listed under the "D" column to designate that the result is reported on a dry weight basis.	
%R.	Percent Recovery.	
CFL.	Contains Free Liquid.	
CNF.	Contains no Free Liquid.	
DER.	Duplicate error ratio (normalized absolute difference).	
Dil Fac.	Dilution Factor.	
DL, RA, RE, IN.	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample.	
DLC.	Decision level concentration.	
MDA.	Minimum detectable activity.	4.0
EDL.	Estimated Detection Limit.	13
MDC.	Minimum detectable concentration.	
MDL.	Method Detection Limit.	
ML.	Minimum Level (Dioxin).	
NC.	Not Calculated.	
ND.	Not detected at the reporting limit (or MDL or EDL if shown).	
PQL.	Practical Quantitation Limit.	
QC.	Quality Control.	
RER.	Relative error ratio.	
RL.	Reporting Limit or Requested Limit (Radiochemistry).	
RPD.	Relative Percent Difference, a measure of the relative difference between two points.	
TEF.	Toxicity Equivalent Factor (Dioxin).	
TEQ.	Toxicity Equivalent Quotient (Dioxin).	

Client: Leidos, Inc.1 Project/Site: RVAAP Building 1200 and ATA Remedial Act1

Job ID: 240-44673-1vS

Laboratory: TestAmerica CantonS

NarrativeS

CASE NARRATIVES

Client: Leidos, Inc.S

Project: RVAAP Building 1200 and ATA Remedial ActS

Report Number: 240-44673-1S

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples an1 no 1 problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control 1 limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of 1 the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, 1 the reporting limits are adjusted relative to the dilution required.1

Calculations are performed before rounding to avoid round-off errors in calculated results.1

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed1n the 1 individual sections below.1

TestAmerica utilizes USEPA approved methods and DOD QSM, where applicable, in all analytical work. The samples presented in this 1 report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. A 1 summary of QC data for these analyses is included at the back of the report. 1

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses 1 performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the 1 applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and tdata 1 have been found to be compliant with laboratory protocols unless otherwise noted below. 1

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the 1 method header.1

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.1

All parameters for which TestAmerica North Canton has certification were evaluated to the limit of detection (LOD) and include qualified 1 results where applicable. Parameters not certified under QSM, if any, were evaluated to the detection limit (DL) and include qualified 1 results where applicable.1

The sample(s) that contain constituents flagged with U are undetected. The result associated with this flag is the limit of detection (LOD).1

<u>RECEIPT</u>S

The samples were received on 1 /21/2014 9:45 AM; the samples arrived in good condition, properly preserved and, where required,1on 1 ice. The temperatures of the 2 coolers at receipt time were 10.2° C and 11.2° C.1

TOTAL METALS (ICPMS) WITH INCREMENTAL SAMPLE PREPARATIONS

Samples B12CS-050M-0016-SO (240-44673-1), B12CS-052M-0017-SO (240-44673-2), B12CS-053M-0018-SO (240-44673-3), 1 B12CS-054M-0019-SO (240-44673-4), B12CS-055M-0020-SO (240-44673-5) and B12CS-052M-0026-FD (240-44673-9) were analyzed 1 for total metals (ICPMS) with incremental sample preparation in accordance with ITRC Technical and Regulatory Guidance: ISM, February 1 2012 and EPA SW-846 Method 6020 DoD. The samples began the drying process on 11/21/2014, were processed and sieved on 1/24/2014, digested on 1 /25/2014 and analyzed on 1 /26/2014. 1

Manganese failed the recovery criteria high for the MS of sample B12CS-050M-0016-SOMS (240-44673-1) in batch 240-158728.1

Job ID: 240-44673-1 (Continued)vS

Laboratory: TestAmerica Canton (Continued)S

Manganese exceeded the RPD limit for the duplicate of sample B12CS-050M-0016-SODU (240-44673-1). 1

Samples B12CS-052M-0017-SO (240-44673-2)[5X], B12CS-053M-0018-SO (240-44673-3)[5X], B12CS-054M-0019-SO (240-44673-4)[5X] 1 and B12CS-052M-0026-FD (240-44673-9)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.1

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.1

TOTAL SOLIDS/PERCENT MOISTURES

Samples B12CS-050M-0016-SO (240-44673-1), B12CS-052M-0017-SO (240-44673-2), B12CS-053M-0018-SO (240-44673-3), 1 B12CS-054M-0019-SO (240-44673-4), B12CS-055M-0020-SO (240-44673-5) and B12CS-052M-0026-FD (240-44673-9) were analyzed 1 for Total Solids/Percent Moisture in accordance with Percent Moisture method. The samples were leached on 11/21/2014 and analyzed on 1/25/2014. 1

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.1

Method Summary

Client: Leidos, Inc Project/Site: RVAAP Building 1200 and ATA Remedial Act.

Method	Method Description	Protocol	Laboratory
6020.	Metals (ICP/MS).	SW846.	TAL CAN.
Moisture.	Percent Moisture.	EPA.	TAL CAN.

Protocol References:

EPA = US Environmental Protection Agency.

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

Laboratory References:

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

Sample Summary

Client: Leidos, Inc Project/Site: RVAAP Building 1200 and ATA Remedial Act.

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-44673-1.	B12CS-050M-0016-SO.	Solid.	11/19/14 16:05.	11/21/14 09:45.
240-44673-2.	B12CS-052M-0017-SO.	Solid.	11/19/14 15:15.	11/21/14 09:45.
240-44673-3.	B12CS-053M-0018-SO.	Solid.	11/19/14 15:30.	11/21/14 09:45.
240-44673-4.	B12CS-054M-0019-SO.	Solid.	11/19/14 15:55.	11/21/14 09:45.
240-44673-5.	B12CS-055M-0020-SO.	Solid.	11/20/14 15:58.	11/21/14 09:45.
240-44673-9	B12CS-052M-0026-FD.	Solid.	11/19/14 15:15.	11/21/14 09:45.

TestAmerica Canton.

Detection Summary7

Client: Leidos, Inc Project/Site: RVAAP Building 1200 and ATA Remedial Act. TestAmerica Job ID: 240-44673-1.

Client Sample ID: B12	CS-050M-0016-SO7			Lab Sample ID): 240-44673-1
Analyte7	Result7 Qualifier7	LOQ7	DL7 Unit7	Dil Fac7 D7 Method7	Prep Type7
Manganese.	390. J D	0.95.	0.11. mg/Kg.	2. 🔅 6020.	Total/NA
Client Sample ID: B12	CS-052M-0017-SO7			Lab Sample ID): 240-44673-2
Analyte7	Result7 Qualifier7	LOQ7	DL7 Unit7	Dil Fac7 D7 Method7	Prep Type7
Manganese.	1900. D	2.3.	0.27. mg/Kg.	5. 🔅 6020.	Total/NA
Client Sample ID: B12	CS-053M-0018-SO7			Lab Sample ID): 240-44673-3
Analyte7	Result7 Qualifier7	LOQ7	DL7 Unit7	Dil Fac7 D7 Method7	Prep Type7
Manganese.	1800. D	2.3.	0.28. mg/Kg.	5. 🔅 6020.	Total/NA
Client Sample ID: B12	CS-054M-0019-SO7			Lab Sample ID): 240-44673-4
Analyte7	Result7 Qualifier7	LOQ7	DL7 Unit7	Dil Fac7 D7 Method7	Prep Type7
Manganese.	1900. D	2.5.	0.29. mg/Kg.	5. 🌣 6020.	Total/NA
Client Sample ID: B12	CS-055M-0020-SO7			Lab Sample ID): 240-44673-5
Analyte7	Result7 Qualifier7	LOQ7	DL7 Unit7	Dil Fac7 D7 Method7	Prep Type7
Manganese.	410. D	0.83.	0.099. mg/Kg.	2. 🔅 6020.	Total/NA
Client Sample ID: B12	CS-052M-0026-FD7			Lab Sample ID): 240-44673-9
Analyte7	Result7 Qualifier7	LOQ7	DL7 Unit7	Dil Fac7 D7 Method7	Prep Type7
Manganese.		4.8.	0.58. mg/Kg.	10. 7 6020.	Total/NA

TestAmerica Canton.

Client: Leidos, Inc Project/Site: RVAAP Building 1200 and ATA Remedial Act.

TestAmerica Job ID: 240-44673-1.

Client Sample ID: B12CS-050M	le ID: B12CS-050M-0016-SOr Lab Sa							4673-1r
Date Collected: 11/19/14 16:05r	ate Collected: 11/19/14 16:05r							ix: Solidr
Date Received: 11/21/14 09:45r		Percent Solids:						ds: 97.6r
Method: 6020 - Metals (ICP/MS)r					_			
Analyter	Resultr Qualifier	LOQ	DLr	Unitr	Dr	Preparedr	Analyzedr	Dil Facr
Manganeser	390r J Dr	0.95.	0.11.	mg/Kg.	<u></u>	11/25/14 10:31.	11/26/14 10:30.	2.
General Chemistryr								
Analyter	Resultr Qualifier	LOQ	DLr	Unitr	Dr	Preparedr	Analyzedr	Dil Facr
Percent Solidsr	98r	0.10.	0.10.	%			11/25/14 09:29.	1.
Percent Moisturer	2.4r	0.10.	0.10.	%			11/25/14 09:29.	1.

TestAmerica Canton.

Client: Leidos, Inc Project/Site: RVAAP Building 1200 and ATA Remedial Act.

TestAmerica Job ID: 240-44673-1.

Client Sample ID: B12CS-052M	-0017-SOr					Lab Sam	ple ID: 240-4	4673-2r
Date Collected: 11/19/14 15:15r	ate Collected: 11/19/14 15:15r							x: Solidr
Date Received: 11/21/14 09:45r		Percent Solids: 9						ds: 97.1r
Method: 6020 - Metals (ICP/MS)r Analyter	Resultr Qualifier	LOQ	Dir	Unitr	Dr	Preparedr	Analyzedr	Dil Facr
Manganeser	1900r Dr	2.3.		mg/Kg.		11/25/14 10:31.	11/26/14 15:28.	5.
General Chemistryr								
Analyter	Resultr Qualifier	LOQ	DLr	Unitr	Dr	Preparedr	Analyzedr	Dil Facr
Percent Solidsr	97r	0.10.	0.10.	%			11/25/14 09:29.	1.
Percent Moisturer	2.9r	0.10.	0.10.	%			11/25/14 09:29.	1.

TestAmerica Canton.

Client: Leidos, Inc Project/Site: RVAAP Building 1200 and ATA Remedial Act.

TestAmerica Job ID: 240-44673-1.

Client Sample ID: B12CS-053M-	12CS-053M-0018-SOr Lab Sar						nple ID: 240-44673-3r	
Date Collected: 11/19/14 15:30r	ate Collected: 11/19/14 15:30r							x: Solidr
Date Received: 11/21/14 09:45r		Percent Solids: 9						ds: 96.7r
Method: 6020 - Metals (ICP/MS)r Analyter	Resultr Qualifier	LOQ	DLr	Unitr	Dr	Preparedr	Analyzedr	Dil Facr
Manganeser	1800r Dr	2.3.		mg/Kg.		11/25/14 10:31.	11/26/14 15:31.	5.
General Chemistryr								
Analyter	Resultr Qualifier	LOQ	DLr	Unitr	Dr	Preparedr	Analyzedr	Dil Facr
Percent Solidsr	97r	0.10.	0.10.	%			11/25/14 09:29.	1.
Percent Moisturer	3.3r	0.10.	0.10.	%			11/25/14 09:29.	1.

TestAmerica Canton.

Client: Leidos, Inc Project/Site: RVAAP Building 1200 and ATA Remedial Act.

TestAmerica Job ID: 240-44673-1.

Client Sample ID: B12CS-054M	t Sample ID: B12CS-054M-0019-SOr Lab Sar						nple ID: 240-44673-4r	
Date Collected: 11/19/14 15:55r	Pate Collected: 11/19/14 15:55r							ix: Solidr
Date Received: 11/21/14 09:45r		Percent Solids: 9						ds: 96.9 <mark>r</mark>
Method: 6020 - Metals (ICP/MS)r	Resultr Qualifier	LOQ	DI	Unitr	Dr	Bronorodr	Apolyzodz	Dil Facr
Analyter						Preparedr	Analyzedr	
Manganeser	1900r Dr	2.5.	0.29.	mg/Kg.	¢	11/25/14 10:31.	11/26/14 15:35.	5.
General Chemistryr								
Analyter	Resultr Qualifier	LOQ	DLr	Unitr	Dr	Preparedr	Analyzedr	Dil Facr
Percent Solidsr	97r	0.10.	0.10.	%			11/25/14 09:29.	1.
Percent Moisturer	3.1r	0.10.	0.10.	%			11/25/14 09:29.	1.

TestAmerica Canton.

Client: Leidos, Inc Project/Site: RVAAP Building 1200 and ATA Remedial Act.

TestAmerica Job ID: 240-44673-1.

Client Sample ID: B12CS-055M-	0020-SOr					Lab Sam	ple ID: 240-44	4673-5r
ate Collected: 11/20/14 15:58r								x: Solidr
Date Received: 11/21/14 09:45r		Percent Solids: 9						ds: 98.2r
Method: 6020 - Metals (ICP/MS)r Analyter	Resultr Qualifier	LOQ	DLr	Unitr	Dr	Preparedr	Analyzedr	Dil Facr
Manganeser	410r Dr	0.83.	0.099.	mg/Kg.	<u></u>	11/25/14 10:31.	11/26/14 11:07.	2.
General Chemistryr								
Analyter	Resultr Qualifier	LOQ	DLr	Unitr	Dr	Preparedr	Analyzedr	Dil Facr
Percent Solidsr	98r	0.10.	0.10.	%			11/25/14 09:29.	1.
Percent Moisturer	1.8r	0.10.	0.10.	%			11/25/14 09:29.	1.

TestAmerica Canton.

Client: Leidos, Inc Project/Site: RVAAP Building 1200 and ATA Remedial Act.

TestAmerica Job ID: 240-44673-1.

Client Sample ID: B12CS-052N	Sample ID: B12CS-052M-0026-FDr Lab Sa						ple ID: 240-4	4673-9r
Date Collected: 11/19/14 15:15r	11/19/14 15:15r Mai							
Date Received: 11/21/14 09:45r		Percent Solids: 9					ds: 96.2r	
Method: 6020 - Metals (ICP/MS)r Analyter	Resultr Qualifier	LOQ	Dir	Unitr	Dr	Preparedr	Analyzedr	Dil Facr
Manganeser	3600r Dr	4.8.		mg/Kg.		11/25/14 10:31.	11/26/14 15:50.	10.
General Chemistryr								
Analyter	Resultr Qualifier	LOQ	DLr	Unitr	Dr	Preparedr	Analyzedr	Dil Facr
Percent Solidsr	96r	0.10.	0.10.	%			11/25/14 09:29.	1.
Percent Moisturer	3.8r	0.10.	0.10.	%			11/25/14 09:29.	1.

TestAmerica Canton.

QC Sample Resultsk

Client: Leidos, Inc Project/Site: RVAAP Building 1200 and ATA Remedial Act.

Method: 6020 - Metals (ICP/MS)Rk

Lab Sample ID: MB 240-158406/1-A Matrix: Solidk Analysis Batch: 158728k	^2k	MBk MBk							Client Sa	Imple ID: Meth Prep Type: Prep Batcl	Tot	al/NAk
Analytek	Re	sultk Qualifierk		LOQk		DLk Unitk		Dk P	reparedk	Analyzed	1	Dil Fac
Manganese.	-	0.40. U.		1.0.		0.12. mg/Kg			5/14 10:31.			2.
	A A OL-							Oliont	Commite			
Lab Sample ID: LCS 240-158406/2-/	A ^2K							Client	Sample	ID: Lab Contro		
Matrix: Solidk										Prep Type:		
Analysis Batch: 158728k			Californi		LOOK	LCSk				Prep Batc	n: 1	58406K
A			Spikek				11	DI.	0/ Datala			
Analytek			Addedk			Qualifierk	Unitk	Dk		Limitsk		
Manganese.			100.		98.9.	D.	mg/Kg.		99.	80120.		
Lab Sample ID: 240-44673-1 MSk								Client S	ample ID	: B12CS-050M	-001	6-SOk
Matrix: Solidk										Prep Type:		
Analysis Batch: 158728k										Prep Batc		
	Samplek	Samplek	Spikek		MSk	MSk				%Rec.k		
Analytek	sultk	Qualifierk	Addedk		Resultk	Qualifierk	Unitk	Dk	%Reck	Limitsk		
Manganese.	390.	J D.	9.49.		416.	4 D.	mg/Kg.	÷	319.	10199.		
Lab Sample ID: 240-44673-1 DUk								Client S	ample ID	: B12CS-050M	-001	6-SOk
Matrix: Solidk								onone o		Prep Type:		
Analysis Batch: 158728k										Prep Batcl		
Analysis Datch. 130720K	Samplek	Samplek			DUk	DUk				Fiep Batch		PDk
Analytek	•	Qualifierk				Qualifierk	Unitk	Dk		F	PDk	Limitk
Manganese.	390.				563.		mg/Kg.				37.	20.

Method: Moisture - Percent Moisturek

Lab Sample ID: 240-44673-3 D Matrix: Solidk Analysis Batch: 158378k	Uk			Client Sample I	D: B12CS-053M-001 Prep Type: Tot	
	Samplek Samplek	DUk DUk				PDk
Analytek	sultk Qualifierk	Resultk Qualifierk	Unitk	Dk	PDk	Limit
Percent Solids.	97.	97.	%.		0.1.	20.
Percent Moisture.	3.3.	3.2.	%.		3.	20.

TestAmerica Canton.

QC Association Summaryb

Client: Leidos, Inc Project/Site: RVAAP Building 1200 and ATA Remedial Act.

TestAmerica Job ID: 240-44673-1.

Metalstb

ISM Prep Batch: 157912b

Lab Sample IDb	Client Sample IDb	Prep Typeb	Matrixb	Methodb	Prep Batchb
240-44673-1.	B12CS-050M-0016-SO	Total/NA.	Solid.	Increment, Prep.	
240-44673-1 DU.	B12CS-050M-0016-SO	Total/NA.	Solid.	Increment, Prep.	
240-44673-1 MS.	B12CS-050M-0016-SO	Total/NA.	Solid.	Increment, Prep.	
240-44673-2.	B12CS-052M-0017-SO	Total/NA.	Solid.	Increment, Prep.	
240-44673-3.	B12CS-053M-0018-SO	Total/NA.	Solid.	Increment, Prep.	
240-44673-4.	B12CS-054M-0019-SO	Total/NA.	Solid.	Increment, Prep.	
240-44673-5.	B12CS-055M-0020-SO	Total/NA.	Solid.	Increment, Prep.	
240-44673-9.	B12CS-052M-0026-FD.	Total/NA.	Solid.	Increment, Prep.	

Prep Batch: 158406b

Lab Sample IDb	Client Sample IDb	Prep Typeb	Matrixb	Methodb	Prep Batchb
240-44673-1.	B12CS-050M-0016-SO	Total/NA.	Solid.	3050B.	157912.
240-44673-1 DU.	B12CS-050M-0016-SO	Total/NA.	Solid.	3050B.	157912.
240-44673-1 MS.	B12CS-050M-0016-SO	Total/NA.	Solid.	3050B.	157912.
240-44673-2.	B12CS-052M-0017-SO	Total/NA.	Solid.	3050B.	157912.
240-44673-3.	B12CS-053M-0018-SO	Total/NA.	Solid.	3050B.	157912.
240-44673-4.	B12CS-054M-0019-SO	Total/NA.	Solid.	3050B.	157912.
240-44673-5.	B12CS-055M-0020-SO	Total/NA.	Solid.	3050B.	157912.
240-44673-9.	B12CS-052M-0026-FD.	Total/NA.	Solid.	3050B.	157912.
LCS 240-158406/2-A ^2.	Lab Control Sample.	Total/NA.	Solid.	3050B.	
MB 240-158406/1-A ^2.	Method Blank.	Total/NA.	Solid.	3050B.	

Analysis Batch: 158728b

Lab Sample IDb	Client Sample IDb	Prep Typeb	Matrixb	Methodb	Prep Batchb
240-44673-1.	B12CS-050M-0016-SO	Total/NA.	Solid.	6020.	158406.
240-44673-1 DU.	B12CS-050M-0016-SO	Total/NA.	Solid.	6020.	158406.
240-44673-1 MS.	B12CS-050M-0016-SO	Total/NA.	Solid.	6020.	158406.
240-44673-2.	B12CS-052M-0017-SO	Total/NA.	Solid.	6020.	158406.
240-44673-3.	B12CS-053M-0018-SO	Total/NA.	Solid.	6020.	158406.
240-44673-4.	B12CS-054M-0019-SO	Total/NA.	Solid.	6020.	158406.
240-44673-5.	B12CS-055M-0020-SO	Total/NA.	Solid.	6020.	158406.
240-44673-9.	B12CS-052M-0026-FD.	Total/NA.	Solid.	6020.	158406.
LCS 240-158406/2-A ^2.	Lab Control Sample.	Total/NA.	Solid.	6020.	158406.
MB 240-158406/1-A ^2.	Method Blank.	Total/NA.	Solid.	6020.	158406.

General Chemistrytb

ISM Prep Batch: 157912b

Lab Sample IDb	Client Sample IDb	Prep Typeb	Matrixb	Methodb	Prep Batchb
240-44673-1.	B12CS-050M-0016-SO	Total/NA.	Solid.	Increment, Prep.	
240-44673-2.	B12CS-052M-0017-SO	Total/NA.	Solid.	Increment, Prep.	
240-44673-3.	B12CS-053M-0018-SO	Total/NA.	Solid.	Increment, Prep.	
240-44673-3 DU.	B12CS-053M-0018-SO	Total/NA.	Solid.	Increment, Prep.	
240-44673-4.	B12CS-054M-0019-SO	Total/NA.	Solid.	Increment, Prep.	
240-44673-5.	B12CS-055M-0020-SO	Total/NA.	Solid.	Increment, Prep.	
240-44673-9.	B12CS-052M-0026-FD.	Total/NA.	Solid.	Increment, Prep.	

Analysis Batch: 158378b

Lab Sample IDb	Client Sample IDb	Prep Typeb	Matrixb	Methodb	Prep Batchb
240-44673-1.	B12CS-050M-0016-SO	Total/NA.	Solid.	Moisture.	157912.

TestAmerica Canton.

QC Association Summaryb

Client: Leidos, Inc Project/Site: RVAAP Building 1200 and ATA Remedial Act. TestAmerica Job ID: 240-44673-1.

General Chemistry (Continued)tb

Analysis Batch: 158378 (Continued)b

Lab Sample IDb	Client Sample IDb	Prep Typeb	Matrixb	Methodb	Prep Batchb
240-44673-2.	B12CS-052M-0017-SO	Total/NA.	Solid.	Moisture.	157912.
240-44673-3.	B12CS-053M-0018-SO	Total/NA.	Solid.	Moisture.	157912.
240-44673-3 DU.	B12CS-053M-0018-SO	Total/NA.	Solid.	Moisture.	157912.
240-44673-4.	B12CS-054M-0019-SO	Total/NA.	Solid.	Moisture.	157912.
240-44673-5.	B12CS-055M-0020-SO	Total/NA.	Solid.	Moisture.	157912.
240-44673-9.	B12CS-052M-0026-FD.	Total/NA.	Solid.	Moisture.	157912.

TestAmerica Canton.

Client: Leidos, Inc.1 Project/Site: RVAAP Building 1200 and ATA Remedial Act1

Lab Sample ID: 240-44673-23

Lab Sample ID: 240-44673-3

Lab Sample ID: 240-44673-43

Matrix: Solid3

Matrix: Solid3

Matrix: Solid3

Percent Solids: 96.93

Percent Solids: 96.73

Percent Solids: 97.13

Client Sample ID: B12CS-050M-0016-SO3 Lab Sample ID: 240-44673-13 Date Collected: 11/19/14 16:053 Matrix: Solid3 Date Received: 11/21/14 09:453 Percent Solids: 97.63 Batch3 Batch3 Dilution3 Batch3 Prepared3 Prep Type3 Method3 Factor3 Number3 Туре3 Run or Analyzed3 Analyst3 Lab3 Total/NA1 ISM Prep1 Increment, Prep 579121 1/21/14 14:001 DRJ TAL CAN1 Total/NA1 TAL CAN1 Prep1 3050B 58406 /25/14 10:31 DEE1 Total/NA1 Analysis1 60201 21 58728 /26/14 10:301 AMM21 TAL CAN1 Total/NA1 ISM Prep1 Increment, Prep1 57912 1/21/14 14:001 DRJ1 TAL CAN1 Total/NA1 Analysis1 Moisture 158378 /25/14 09:29 KS1 TAL CAN1

Client Sample ID: B12CS-052M-0017-SO3 Date Collected: 11/19/14 15:153 Date Received: 11/21/14 09:453

	Batch3	Batch3		Dilution3	Batch3	Prepared3		
Prep Type3	Type3	Method3	Run	Factor3	Number3	or Analyzed3	Analyst3	Lab3
Total/NA1	ISM Prep1	Increment, Prep			579121	1/21/14 14:001	DRJ	TAL CAN1
Total/NA1	Prep1	3050B			58406	/25/14 10:31	DEE1	TAL CAN1
Total/NA1	Analysis1	60201		51	58728	/26/14 15:281	AMM21	TAL CAN1
Total/NA1	ISM Prep1	Increment, Prep1			57912	1/21/14 14:001	DRJ1	TAL CAN1
Total/NA1	Analysis1	Moisture1			58378	/25/14 09:29	KS1	TAL CAN1

Client Sample ID: B12CS-053M-0018-SO3 Date Collected: 11/19/14 15:303 Date Received: 11/21/14 09:453

	Batch3	Batch3		Dilution3	Batch3	Prepared3		
Prep Type3	Туре3	Method3	Run	Factor3	Number3	or Analyzed3	Analyst3	Lab3
Total/NA1	ISM Prep1	Increment, Prep			579121	1/21/14 14:001	DRJ	TAL CAN1
Total/NA1	Prep1	3050B			58406	/25/14 10:31	DEE1	TAL CAN1
Total/NA1	Analysis1	60201		51	58728	/26/14 15:31	AMM21	TAL CAN1
Total/NA1	ISM Prep1	Increment, Prep1			57912	1/21/14 14:001	DRJ1	TAL CAN1
Total/NA1	Analysis1	Moisture1			58378	/25/14 09:29	KS1	TAL CAN1

Client Sample ID: B12CS-054M-0019-SO3 Date Collected: 11/19/14 15:553 Date Received: 11/21/14 09:453

	Batch3	Batch3		Dilution3	Batch3	Prepared3		
Prep Type3	Туре3	Method3	Run	Factor3	Number3	or Analyzed3	Analyst3	Lab3
Total/NA1	ISM Prep1	Increment, Prep			1579121	1/21/14 14:001	DRJ	TAL CAN1
Total/NA1	Prep1	3050B			58406	/25/14 10:31	DEE1	TAL CAN1
Total/NA1	Analysis1	60201		5	158728	/26/14 15:351	AMM21	TAL CAN1
Total/NA1	ISM Prep1	Increment, Prep1			57912	1/21/14 14:001	DRJ1	TAL CAN1
Total/NA1	Analysis1	Moisture1			58378	/25/14 09:29	KS1	TAL CAN1

TestAmerica Canton1

Client: Leidos, Inc.1 Project/Site: RVAAP Building 1200 and ATA Remedial Act1

Client Sample ID: B12CS-055M-0020-SO3 Lab Sample ID: 240-44673-53 Date Collected: 11/20/14 15:583 Matrix: Solid3 Date Received: 11/21/14 09:453 Percent Solids: 98.23 Batch3 Batch3 Dilution3 Batch3 Prepared3 Prep Type3 Туре3 Method3 Run Factor3 Number3 or Analyzed3 Analyst3 Lab3 Total/NA1 ISM Prep1 Increment, Prep 579121 1/21/14 14:001 DRJ TAL CAN1 3050B /25/14 10:31 DEE1 Total/NA1 Prep1 58406 TAL CAN1 Total/NA1 Analysis1 60201 21 58728 /26/14 1 :071 AMM21 TAL CAN1 Total/NA1 57912 1/21/14 14:001 DRJ1 TAL CAN1 ISM Prep1 Increment, Prep1 Total/NA1 158378 /25/14 09:29 KS1 TAL CAN1 Analysis1 Moisture

Client Sample ID: B12CS-052M-0026-FD3
Date Collected: 11/19/14 15:153
Date Received: 11/21/14 09:453

Lab Sample ID: 240-44673-93 Matrix: Solid3 Percent Solids: 96.23

	Batch3	Batch3		Dilution3	Batch3	Prepared3		
Prep Type3	Туре3	Method3	Run	Factor3	Number3	or Analyzed3	Analyst3	Lab3
Total/NA1	ISM Prep1	Increment, Prep			1579121	1/21/14 14:001	DRJ	TAL CAN1
Total/NA1	Prep1	3050B			58406	/25/14 10:31	DEE1	TAL CAN1
Total/NA1	Analysis1	6020		0	158728	/26/14 15:501	AMM21	TAL CAN1
Total/NA1	ISM Prep1	Increment, Prep1			57912	1/21/14 14:001	DRJ1	TAL CAN1
Total/NA1	Analysis1	Moisture1			58378	/25/14 09:29	KS1	TAL CAN1

Laboratory References:3

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-93961

Certification Summary

Client: Leidos, Inc.1 Project/Site: RVAAP Building 1200 and ATA Remedial Act1

TestAmerica Job ID: 240-44673-1

Laboratory: TestAmerica Canton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.1

Authority	Program	EPA Region	Certification ID	Expiration Date
California1	NELAP1	91	01 44CA1	06-30-14 *d1
California1	State Program1	91	29271	04-30-15d1
Connecticut1	State Program1		PH-0590	12-31-14d1
Florida1	NELAP1	41	E872251	06-30-15d1
Georgia1	State Program1	41	N/A1	06-30-15d1
Illinois1	NELAP1	51	2000041	07-31-15d1
Kansas1	NELAP1	71	E-103361	01-31-15d1
Kentucky (UST)1	State Program1	41	581	06-30-15d1
L-A-B1	DoD ELAP1		23151	07-18-16d1
Minnesota1	NELAP1	51	039-999-348	12-31-14d1
Nevada1	State Program1	91	OH-000482008A1	07-31-15d1
New Jersey1	NELAP1	21	OH001	06-30-15d1
New York1	NELAP1	2	109751	03-31-15d1
Ohio VAP1	State Program1	51	CL0024	10-31-15d1
Pennsylvania1	NELAP1	31	68-003401	08-31-15d1
Texas1	NELAP1	61		08-31-15d1
USDA1	Federal1		P330-13-00319	1-26-16d1
Virginia1	NELAP1	31	4601751	09-14-15d1
Washington1	State Program	101	C971	01-12-15d1
West Virginia DEP1	State Program1	31	210	12-31-14d1
Wisconsin1	State Program1	51	9995181901	08-31-15d1

* Certification renewal pending - certification considered vali1.1

TestAmerica Laboratories, Inc.

CHAIN OF CUSTODY AND RECEIVING DOCUMENTS

TestAmer

THE LEADER IN ENVIRONMENTAL TESTING



4101 Shuffel Street, N.W. North Canton, OH 44720 tel 330.497.9396 fax 330.497.0772 www.testamericainc.com

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11/28/2014



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: 240-44673-2

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: 12/3/2014 6:05:35 PM

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

LINKS **Review your project** results through Total Access Have a Question? Ask-The Expert Visit us at: www.testamericainc.com

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### Client: Leidos, Inc. roject/Site: RVAAP Building 1200 and ATA Remedial ActP

### QualifiersG

### Metals

Qualifier	Qualifier Description
DP	The reported value is from a dilution.P
UP	Undetected at the Limit of Detection.P

### lossary

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 FacP	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
TEFP	Toxicity Equivalent Factor (Dioxin)P
TEQP	Toxicity Equivalent Quotient (Dioxin)P

Client: Leidos, Inc.1 1 rorectj/1ite: SRAA1 VBildinu g200 and ATA Semedial Act1

#### Job ID: 240-44673-2vS

#### 1aboratorL: yestTA@rima CactocS

NarrativeS

### **CTnS NTEETyIRS**

#### CVject: 1eBSosdlcm,S

### . roPent: ERTT.SjSBSYScu g200 acISTyT EeASeISaVTntS

#### Eeport NBASer: 240-44673-2S

With the exceptions noted as flaus or footnotes, standard analytical protocols were followed in the analysis of the samples an1 no 1 problems were encoBntered or anomalies observed. In addition all laboratory qBality control samples were within established control 1 limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reportinu limit within the constraints of 1 the method. In some cases, dBe to interference or analytes present at hiuh concentrations, samples were dilBted. For dilBted samples, 1 the reportinu limits are adested relative to the dilBtion reqBired.1

CalcBlations are performed before roBndinu to avoid roBnd-off errors in calcBlated resBlts.1

All holdinu times were met and proper preservation noted for the methods performed on these samples, Bnless otherwise detailed1n the 1 individBal sections below.1

TestAmerica Btilizes U/1E1A approved methods and DOD Q/1M, where applicable, in all analytical work. The samples presented in this 1 report were analyzed for the parameter(s) listed on the analytical methods sBmmary paue in accordance with the method(s) indicated. A 1 sBmmary of QC data for these analyses is inclBded at the back of the report. 1

TestAmerica Canton attests to the validity of the laboratory data uenerated by TestAmerica facilities reported herein. All analyses 1 performed by TestAmerica facilities were done Bsinu established laboratory /101s that incorporate QAjQC procedBres described in the 1 applicable methods. TestAmerica's operations uroBps have reviewed the data for compliance with the laboratory QAjQC plan, and tdata 1 have been foBnd to be compliant with laboratory protocols Bnless otherwise noted below. 1

All solid sample resBits are reported on an "as received" basis Bnless otherwise indicated by the presence of a % solids valBe in the 1 method header.1

This laboratory report is confidential and is intended for the sole Bse of TestAmerica and its client.1

All parameters for which TestAmerica North Canton has certification were evalBated to the limit of detection (LOD) and inclBde qBalified 1 resBits where applicable. 1 arameters not certified Bnder Q/1M, if any, were evalBated to the detection limit (DL) and inclBde qBalified 1 resBits where applicable.1

The sample(s) that contain constitBents flauued with U are Bndetected. The resBlt associated with this flau is the limit of detection (LOD).1

#### <u>ESCSI.Sy</u>S

The samples were received on ggj2gj20g4 9:45 AM; the samples arrived in uood condition, properly preserved and, where reqBired1on 1 ice. The temperatBres of the 2 coolers at receipt time were g0.2° C and gg.2° C.1

SesBlts inclBded in this report are from samples taken off hold bn g2jgj20g4.1

#### yOyT1 MSyT1n (IC.SMn) WIyH INCESMSNyT1 nTM.SIS .SES.STETyIONS

/1amples Vg2C/1-065M-0036-/1O (240-44673-6), Vg2C/1-062M-0033-/1O (240-44673-7), Vg2C/1-064M-0035-/1O (240-44673-g0), 1 Vg2C/1-063M-0034-/1O (240-44673-g2), Vg2C/1-06gM-0032-/1O (240-44673-g4) and Vg2C/1-060M-003g-/1O (240-44673-g5) were 1 analyzed for total metals (IC1 M/1) with incremental sample preparation in accordance with ITSC Technical and SeuBlatory 8 Bidance: I/1M, 1 FebrBary 20g2 and E1 A /1W-G46 Method 6020 DoD. The samples beuan the dryinu process on ggj2gj20g4, were processed and sieved 1 on ggj24j20g4, diuested on g2j0gj20g4 and analyzed on g2j02j20g4. 1

> TestAmerica Canton1 12/3/2014

### Job ID: 240-44673-2 (CocticBel§vS

#### 1aboratorL: yestTA@rima Cactoc (CocticBel9S

Manuanese failed the recovery criteria hiuh for the M/1 of sample 240-44G32-g in batch 240-g59324. Sefer to the QC report for 1etails.1

/1amples Vg2C/1-065M-0036-/1O (240-44673-6)[g0X], Vg2C/1-062M-0033-/1O (240-44673-7)[g0X], Vg2C/1-064M-0035-/1O (240-44673-g0)1 [20X], Vg2C/1-063M-0034-/1O (240-44673-g2)[g0X], Vg2C/1-06gM-0032-/1O (240-44673-g4)[g0X] and Vg2C/1-060M-003g-/1O 1 (240-44673-g5)[20X] reqBired dilBtion prior to analysis. The reportinu limits have been ad Bested accordinuly.1

The sample dBplicate (DU) precision for manuanese in batch 240-g590g2 was oBtside control limits.1

No additional analytical or qBality issBes were noted, other than those described above or in the Definitionsj81ossary paue.1

#### yOyT1 nO1IDn/.S ECSNy MOInyUES

/1amples Vg2C/1-065M-0036-/1O (240-44673-6), Vg2C/1-062M-0033-/1O (240-44673-7), Vg2C/1-064M-0035-/1O (240-44673-g0), 1 Vg2C/1-063M-0034-/1O (240-44673-g2), Vg2C/1-06gM-0032-/1O (240-44673-g4) and Vg2C/1-060M-003g-/1O (240-44673-g5) were 1 analyzed for Total /1olidsj1 ercent MoistBre in accordance with 1 ercent MoistBre method. The samples were leached on ggj2gj20g4 and 1 analyzed on ggj25j20g4. 1

No analytical or qBality issBes were noted, other than those described above or in the Definitionsj81ossary paue.1

### **Method Summary**

1 @el.t: neiLosdll.,

. rolectj/.ite: SRAA. VBiCil.u g200 al.L ATA SemeLiaCAct.

Method	Method Description	Protocol	Laboratory
6020.	Meta© (I1. jM/.).	/ W846 .	TAn 1.AN.
MoistBre.	ercel.t MoistBre.	E. A.	TAn 1.AN.

#### Protocol References:

E. A = U/. El.virol.mel.t.C. rotectiol. Auel. y.

/.W846 = "Test MethoLs For Eva@.til.u /.o@. Wasted. hysica fl hemica OMethoLs" dThirL ELitiol.dNovember g986 AI.L Its UpLates,.

#### Laboratory References:

TAn 1AN = TestAmerica 1.al.tol.d4g0g /.hBffeQ.treet NWdNorth 1.al.tol.dOH 44720dTEn (330)497-9396.

## Sample Summary

TestAmerica Job ID: 240-44673-2P

Client: Leidos, Inc. roject/Site: RVAAP Building 1200 and ATA Remedial ActP

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-44673-6P	B12CS-065M-0036-SOP	SolidP	11/19/14 15:35P	11/21/14 09:45P
240-44673-7P	B12CS-062M-0033-SOP	SolidP	11/19/14 15:52P	11/21/14 09:45P
240-44673-10P	B12CS-064M-0035-SOP	SolidP	11/20/14 15:20P	11/21/14 09:45P
240-44673-12P	B12CS-063M-0034-SOP	SolidP	11/20/14 16:18P	11/21/14 09:45P
240-44673-14P	B12CS-061M-0032-SOP	SolidP	11/20/14 16:23P	11/21/14 09:45P
240-44673-15P	B12CS-060M-0031-SOP	SolidP	11/20/14 16:25P	11/21/14 09:45P

TestAmerica CantonP

## **Detection Summary4**

1 @el.t: neiLosdII.,

. rolectj/.ite: SRAA. VBiCil.u g200 al.L ATA SemeLiaCAct.

Client Sample ID: B12	CS-065M-0036-SO4			Lab Sample ID	: 240-4 673-6
Analyte4	Result4 Qualifier4	LOQ4	DL4 Unit4	Dil Fac4 D4 Method4	Prep Type4
Mal.ual.ese.	g300. D	4,9.	0,94. muj5u.	g0 🌣 6020.	TotaGKA
Client Sample ID: B12	CS-062M-0033-SO4			Lab Sample ID	): 240-4 673-7
Analyte4	Result4 Qualifier4	LOQ4	DL4 Unit4	Dil Fac4 D4 Method4	Prep Type4
Mal.ual.ese.	g900. D	4,9.	0,99. muj5u.	g0 🌣 6020.	TotaGKA
Client Sample ID: B12	CS-064M-0035-SO4			Lab Sample ID:	240-4 673-10
Analyte4	Result4 Qualifier4	LOQ4	DL4 Unit4	Dil Fac4 D4 Method4	Prep Type4
Mal.ual.ese.	2300. D	N,0.	g,g. muj5u	20 🔅 6020.	TotaĢKA
Client Sample ID: B12	CS-063M-0034-SO4			Lab Sample ID:	240-4 673-12
Analyte4	Result4 Qualifier4	LOQ4	DL4 Unit4	Dil Fac4 D4 Method4	Prep Type4
Mal.ual.ese.	g700. D	4,7.	0,96. muj5u.	g0 🌣 6020.	TotaGKA
Client Sample ID: B12	CS-061M-0032-SO4			Lab Sample ID:	240-4 673-14
Analyte4	Result4 Qualifier4	LOQ4	DL4 Unit4	Dil Fac4 D4 Method4	Prep Type4
Mal.ual.ese.	g800. D	4,6.	0,96. muj5.u.	g0 🔅 6020.	TotaĢKA
Client Sample ID: B12	CS-060M-0031-SO4			Lab Sample ID:	240-4 673-15
Analyte4	Result4 Qualifier4	LOQ4	DL4 Unit4	Dil Fac4 D4 Method4	Prep Type4
Mal.ual.ese.	2g00. D	8,8.	g,g. muj5.u.	20 7 6020.	TotaØKA

### Client: Leidos, Inc. roject/Site: RVAAP Building 1200 and ATA Remedial ActP

Client Sample ID: B12CS-065M-	0036-SOr				Lab Samp	ole ID: 240-44	4673-6r
Date Collected: 11/19/14 15:35r	Matrix: Solidr						
Date Received: 11/21/14 09:45r				Percent Solids: 96.3			
Method: 6020 - Metals (ICP/MS)r Analyter	Resultr Qualifier	LOQ	DLr Unitr	Dr	Preparedr	Analyzedr	Dil Facr
Manganeser	1300r Dr	4.5P	0.54P mg/KgP	\$	12/01/14 10:57P	12/02/14 15:34P	10P
General Chemistryr Analyter	Resultr Qualifier	LOQ	DLr Unitr	Dr	Preparedr	Analyzedr	Dil Facr
Percent Solidsr	96r	0.10P	0.10P %P			11/25/14 09:29	1P
Percent Moisturer	3.7r	0.10P	0.10P %P			11/25/14 09:29	1P

TestAmerica CantonP
## Client: Leidos, Inc. roject/Site: RVAAP Building 1200 and ATA Remedial ActP

Client Sample ID: B12CS-062M-	0033-SOr				Lab Samp	ole ID: 240-44	4673-7r	
Date Collected: 11/19/14 15:52r						Matrix	x: Solidr	
Date Received: 11/21/14 09:45r			Percent Solids: 96.5					
Method: 6020 - Metals (ICP/MS)r Analyter	Resultr Qualifier	LOQ	DLr Unitr	Dr	Preparedr	Analyzedr	Dil Facr	
Manganeser	1500r Dr	4.5P	0.55P mg/KgP	<del>\\\</del>	12/01/14 10:57P	12/02/14 15:38P	10P	
General Chemistryr								
Analyter	Resultr Qualifier	LOQ	DLr Unitr	Dr	Preparedr	Analyzedr	Dil Facr	
Percent Solidsr	96r	0.10P	0.10P %P			11/25/14 09:29	1P	
Percent Moisturer	3.5r	0.10P	0.10P %P			11/25/14 09:29	1P	

TestAmerica CantonP

## Client: Leidos, Inc. roject/Site: RVAAP Building 1200 and ATA Remedial ActP

Client Sample ID: B12CS-064M-	0035-SOr				Lab Sampl	e ID: 240-44	673-10r	
Date Collected: 11/20/14 15:20r					-	Matri	x: Solidr	
Date Received: 11/21/14 09:45r		Percent Solids: 97.0r						
Method: 6020 - Metals (ICP/MS)r Analyter	Resultr Qualifier	LOQ	DLr Unitr	Dr	Preparedr	Analyzedr	Dil Facr	
Manganeser	2300r Dr	9.0P	1.1P mg/KgP	<del>\\\</del>	12/01/14 10:57P	12/02/14 16:39	20P	
General Chemistryr								
Analyter	Resultr Qualifier	LOQ	DLr Unitr	Dr	Preparedr	Analyzedr	Dil Facr	
Percent Solidsr	97r	0.10P	0.10P %P			11/25/14 09:29	1P	
Percent Moisturer	3.0r	0.10P	0.10P %P			11/25/14 09:29	1P	

## Client: Leidos, Inc. roject/Site: RVAAP Building 1200 and ATA Remedial ActP

Client Sample ID: B12CS-063M-	0034-SOr				Lab Sampl	e ID: 240-446	673-12r
Date Collected: 11/20/14 16:18r						Matrix	x: Solidr
Date Received: 11/21/14 09:45r		Percent Solids: 96.9r					
Method: 6020 - Metals (ICP/MS)r Analyter	Resultr Qualifier	LOQ	DLr Unitr	Dr	Preparedr	Analyzedr	Dil Facr
Manganeser	1700r Dr	4.7P	0.56P mg/KgP	¢	12/01/14 10:57P	12/02/14 15:46P	10P
General Chemistryr Analyter	Resultr Qualifier	LOQ	DLr Unitr	Dr	Preparedr	Analyzedr	Dil Facr
Percent Solidsr	97r	0.10P	0.10P %P			11/25/14 09:42P	1P
Percent Moisturer	3.1r	0.10P	0.10P %P			11/25/14 09:42P	1P

## Client: Leidos, Inc. roject/Site: RVAAP Building 1200 and ATA Remedial ActP

Client Sample ID: B12CS-061M-	0032-SOr				Lab Sampl	le ID: 240-446	673-14r	
Date Collected: 11/20/14 16:23r					-	Matrix	x: Solidr	
Date Received: 11/21/14 09:45r		Percent Solids: 97.1						
Method: 6020 - Metals (ICP/MS)r Analyter	Resultr Qualifier	LOQ	DLr Unitr	Dr	Preparedr	Analyzedr	Dil Facr	
Manganeser	1800r Dr	4.6P	0.56P mg/KgP	<del>\\\</del>	12/01/14 10:57P	12/02/14 15:49	10P	
General Chemistryr								
Analyter	Resultr Qualifier	LOQ	DLr Unitr	Dr	Preparedr	Analyzedr	Dil Facr	
Percent Solidsr	97r	0.10P	0.10P %P			11/25/14 09:42P	1P	
Percent Moisturer	2.9r	0.10P	0.10P %P			11/25/14 09:42P	1P	

## Client: Leidos, Inc. roject/Site: RVAAP Building 1200 and ATA Remedial ActP

Client Sample ID: B12CS-060M-	0031-SOr				Lab Sampl	e ID: 240-446	373-15r	
Date Collected: 11/20/14 16:25r					-	Matrix	x: Solidr	
Date Received: 11/21/14 09:45r		Percent Solids: 96.8						
Method: 6020 - Metals (ICP/MS)r Analyter	Resultr Qualifier	LOQ	DLr Unitr	Dr	Preparedr	Analyzedr	Dil Facr	
Manganeser	2100r Dr	8.8P	1.1P mg/KgP	<u></u>	12/01/14 10:57P	12/02/14 16:42P	20P	
General Chemistryr								
Analyter	Resultr Qualifier	LOQ	DLr Unitr	Dr	Preparedr	Analyzedr	Dil Facr	
Percent Solidsr	97r	0.10P	0.10P %P			11/25/14 09:42P	1P	
Percent Moisturer	3.2r	0.10P	0.10P %P			11/25/14 09:42P	1P	

# **QC Sample Resultsk**

1 @el.t: neiLosdII.,

. rolectj/.ite: SRAA. VBiCil.u g200 al.L ATA SemeLiaCAct.

# Method: 6020 - Metals (ICP/MS)k

Lab Sample ID: MB 240-159012/1-A ^2k Matrix: Solidk Analysis Batch: 159324k	MBk MBk					Client Sa	Imple ID: Metho Prep Type: 1 Prep Batch	Total/NAk
Analytek	Resultk Qualifierk	LOQ	d DLk Unitk		D P	repared	Analyzed	Dil Fac
Mal.ual.ese.	0,40. U.	g,0.	0,g2. mujKi	J.	g2j0	)gjg4 g0:57.	g2j02jg4 g3:g9.	2.
Lab Sample ID: LCS 240-159012/2-A ^2k	C C				Client	t Sample	ID: Lab Control	Samplek
Matrix: Solidk							Prep Type: 1	Total/NAk
Analysis Batch: 159324k							Prep Batch	: 159012k
		Spikek	LCSk LCSk				%Rec.k	
Analytek		Addedk	Resultk Qualifierk	Unit	D	%Reck	Limitsk	
Mal.ual.ese.		g00.	88,4. D.	mujKu.		88.	90 <u>.</u> g20.	

# Method: Moisture - Percent Moisturek

Lab Sample ID: 240-44673-12 DUk Matrix: Solidk Analysis Batch: 158378k					Client Sample	ID: B12CS-063M-00 Prep Type: To		
	Samplek San	mplek	DUk DUk				PDk	.
Analytek	sultk Qua	alifierk	Resultk Qualifierk	Unitk	D	PDk	Limit	
ercel.t /. o@_s.	87.		87.	%.		0,2.	20.	
ercel.t MoistBre.	3,g.		2,8.	%.		7.	20.	

# **QC Association Summaryb**

# Client: Leidos, Inc. roject/Site: RVAAP Building 1200 and ATA Remedial ActP

TestAmerica Job ID: 240-44673-2P

# Metalstb

# ISM Prep Batch: 157912b

Lab Sample IDb	Client Sample IDb	Prep Typeb	Matrixb	Methodb	Prep Batchb
240-44673-6P	B12CS-065M-0036-SO	Total/NAP	SolidP	Increment, PrepP	
240-44673-7P	B12CS-062M-0033-SO	Total/NAP	SolidP	Increment, PrepP	
240-44673-10P	B12CS-064M-0035-SO	Total/NAP	SolidP	Increment, PrepP	
240-44673-12P	B12CS-063M-0034-SO	Total/NAP	SolidP	Increment, PrepP	
240-44673-14P	B12CS-061M-0032-SO	Total/NAP	SolidP	Increment, PrepP	
240-44673-15P	B12CS-060M-0031-SO	Total/NAP	SolidP	Increment, PrepP	

### Prep Batch: 159012b

Lab Sample IDb	Client Sample IDb	Prep Typeb	Matrixb	Methodb	Prep Batchb
240-44673-6P	B12CS-065M-0036-SO	Total/NAP	SolidP	3050BP	157912P
240-44673-7P	B12CS-062M-0033-SO	Total/NAP	SolidP	3050BP	157912P
240-44673-10P	B12CS-064M-0035-SO	Total/NAP	SolidP	3050BP	157912P
240-44673-12P	B12CS-063M-0034-SO	Total/NAP	SolidP	3050BP	157912P
240-44673-14P	B12CS-061M-0032-SO	Total/NAP	SolidP	3050BP	157912P
240-44673-15P	B12CS-060M-0031-SO	Total/NAP	SolidP	3050BP	157912P
LCS 240-159012/2-A ^2P	Lab Control SampleP	Total/NAP	SolidP	3050BP	
MB 240-159012/1-A ^2P	Method BlankP	Total/NAP	SolidP	3050BP	

### Analysis Batch: 159324b

Lab Sample IDb	Client Sample IDb	Prep Typeb	Matrixb	Methodb	Prep Batchb
240-44673-6P	B12CS-065M-0036-SO	Total/NAP	SolidP	6020P	159012P
240-44673-7P	B12CS-062M-0033-SO	Total/NAP	SolidP	6020P	159012P
240-44673-10P	B12CS-064M-0035-SO	Total/NAP	SolidP	6020P	159012P
240-44673-12P	B12CS-063M-0034-SO	Total/NAP	SolidP	6020P	159012P
240-44673-14P	B12CS-061M-0032-SO	Total/NAP	SolidP	6020P	159012P
240-44673-15P	B12CS-060M-0031-SO	Total/NAP	SolidP	6020P	159012P
LCS 240-159012/2-A ^2P	Lab Control SampleP	Total/NAP	SolidP	6020P	159012P
MB 240-159012/1-A ^2P	Method BlankP	Total/NAP	SolidP	6020P	159012P

# **General Chemistrytb**

### ISM Prep Batch: 157912b

Lab Sample IDb	Client Sample IDb	Prep Typeb	Matrixb	Methodb	Prep Batchb
240-44673-6P	B12CS-065M-0036-SO	Total/NAP	SolidP	Increment, PrepP	
240-44673-7P	B12CS-062M-0033-SO	Total/NAP	SolidP	Increment, PrepP	
240-44673-10P	B12CS-064M-0035-SO	Total/NAP	SolidP	Increment, PrepP	
240-44673-12P	B12CS-063M-0034-SO	Total/NAP	SolidP	Increment, PrepP	
240-44673-12 DUP	B12CS-063M-0034-SO	Total/NAP	SolidP	Increment, PrepP	
240-44673-14P	B12CS-061M-0032-SO	Total/NAP	SolidP	Increment, PrepP	
240-44673-15P	B12CS-060M-0031-SO	Total/NAP	SolidP	Increment, PrepP	

### Analysis Batch: 158378b

Lab Sample IDb	Client Sample IDb	Prep Typeb	Matrixb	Methodb	Prep Batchb
240-44673-6P	B12CS-065M-0036-SO	Total/NAP	SolidP	MoistureP	157912P
240-44673-7P	B12CS-062M-0033-SO	Total/NAP	SolidP	MoistureP	157912P
240-44673-10P	B12CS-064M-0035-SO	Total/NAP	SolidP	MoistureP	157912P
240-44673-12P	B12CS-063M-0034-SO	Total/NAP	SolidP	MoistureP	157912P
240-44673-12 DUP	B12CS-063M-0034-SO	Total/NAP	SolidP	MoistureP	157912P
240-44673-14P	B12CS-061M-0032-SO	Total/NAP	SolidP	MoistureP	157912P
240-44673-15P	B12CS-060M-0031-SO	Total/NAP	SolidP	MoistureP	157912P

TestAmerica CantonP

Client: Leidos, Inc.1 1 roæctj/1ite: SRAA1 VBildinu g200 and ATA Semedial Act1

ate Received:	11/21/17 09:71	<b>V</b> I3						Percer	t Solids: 95.O
Prep Type3	Batch3 Type3	Batch3 63ethod3	Run	Dilution3 Factor3	Batch3 Number3	Prepared3 or Analyzed3	Analyst3	Lab3	
TotaljNA1	I/1M 1 rep1	Increment, 1rep1				ggj2gjg4 g4:001		TAL CAN1	
TotaljNA1	rep1	3050V1			g590g21	g2j0gjg4 g0:571	D8 <b>8</b> 1	TAL CAN1	
TotaljNA1	AnalEsis1	60201		g01	g593241	g2j02jg4 g5:341	AMM21	TAL CAN1	
TotaljNA1	I/1M 1 rep1	Increment, 1rep1			g579g21	ggj2gjg4 g4:001	DSJ1	TAL CAN1	
TotaljNA1	AnalEsis1	MoistBre1		g1	g5y37y1	ggj25jg4 09:29	K/1	TAL CAN1	

### Client Sample ID: B12CS-0526300CO-S4 Date Collected: 11/19/17 1MM23 Date Received: 11/21/17 09:7M3

_	Batch3	Batch3		Dilution3	Batch3	Prepared3		
Prep Type3	Type3	63ethod3	Run	Factor3	Number3	or Analyzed3	Analyst3	Lab3
TotaljNA1	I/1M 1 rep1	Increment, 1 rep1			g579g21	ggj2gjg4 g4:001	DSJ1	TAL CAN1
TotaljNA1	rep1	3050V1			g590g21	g2j0gjg4 g0:571	D8 <b>8</b> 1	TAL CAN1
TotaljNA1	AnalEsis1	60201		g01	g593241	g2j02jg4 g5:3y1	AMM21	TAL CAN1
TotaljNA1	I/1M 1 rep1	Increment, 1rep1			g579g21	ggj2gjg4 g4:001	DSJ1	TAL CAN1
TotaljNA1	AnalEsis1	MoistBre1		g1	g5y37y1	ggj25jg4 09:29	K/1	TAL CAN1

# Client Sample ID: B12CS-0576300CM-S43 Date Collected: 11/20/17 1M203 Date Received: 11/21/17 09:7M3

	Batch3	Batch3		Dilution3	Batch3	Prepared3		
Prep Type3	Туре3	63ethod3	Run	Factor3	Number3	or Analyzed3	Analyst3	Lab3
TotaljNA1	I/1M 1 rep1	Increment, 1 rep1			g579g21	ggj2gjg4 g4:001	DSJ1	TAL CAN1
TotaljNA1	rep1	3050V1			g590g21	g2j0gjg4 g0:571	D8 <b>8</b> 1	TAL CAN1
TotaljNA1	AnalEsis1	60201		201	g593241	g2j02jg4 g6:39	AMM21	TAL CAN1
TotaljNA1	I/1M 1 rep1	Increment, 1rep1			g579g21	ggj2gjg4 g4:001	DSJ1	TAL CAN1
TotaljNA1	AnalEsis1	MoistBre1		g1	g5y37y1	ggj25jg4 09:29	K/1	TAL CAN1

# Client Sample ID: B12CS-05O6300O7-S43 Date Collected: 11/20/17 15:183 Date Received: 11/21/17 09:7M3

-	Batch3	Batch3		Dilution3	Batch3	Prepared3		
Prep Type3	Туре3	63ethod3	Run	Factor3	Number3	or Analyzed3	Analyst3	Lab3
TotaljNA1	I/1M 1 rep1	Increment, 1 rep1			g579g21	ggj2gjg4 g4:001	DSJ1	TAL CAN1
TotaljNA1	rep1	3050V1			g590g21	g2j0gjg4 g0:571	D881	TAL CAN1
TotaljNA1	AnalEsis1	60201		g01	g593241	g2j02jg4 g5:461	AMM21	TAL CAN1
TotaljNA1	I/1M 1 rep1	Increment, 1rep1			g579g21	ggj2gjg4 g4:001	DSJ1	TAL CAN1
TotaljNA1	AnalEsis1	MoistBre1		g1	g5y37y1	ggj25jg4 09:421	K/1	TAL CAN1

# 63atrix: Solid3 Percent Solids: 93.03

Lab Sample ID: 270-7753O-103

63atrix: Solid3

Percent Solids: 95.M3

Lab Sample II	D: 270-77530-123
	63atrix: Solid3

Percent Solids: 95.93

# Client: Leidos, Inc.1 1roæctj/1ite: SRAA1 VBildinu g200 and ATA Semedial Act1

#### Lab Sample ID: 270-7753O-173 Client Sample ID: B12CS-051630002-S43 Date Collected: 11/20/17 15:203 63atrix: Solid3 Date Received: 11/21/17 09:7M3 Percent Solids: 93.13 Batch3 Batch3 Dilution3 Batch3 Prepared3 Prep Type3 Туре3 63ethod3 Run Factor3 Number3 or Analyzed3 Analyst3 Lab3 TotaljNA1 I/1M 1 rep1 Increment, 1 rep1 g579g21 ggj2gjg4 g4:001 DSJ1 TAL CAN1 3050V1 TotaljNA1 g590g21 g2j0gjg4 g0:571 D881 TAL CAN1 rep1 g01 TotaljNA1 AnalEsis1 60201 g593241 g2j02jg4 g5:49 AMM21 TAL CAN1 TotaljNA1 TAL CAN1 I/1M 1 rep1 Increment, 1 rep1 g579g21 ggj2gjg4 g4:001 DSJ1 TotaljNA1 AnalEsis1 MoistBre1 g1 g5y37y1 ggj25jg4 09:421 K/1 TAL CAN1

Client Sample ID: B12CS-050630001-S43
Date Collected: 11/20/17 15:2M3
Date Received: 11/21/17 09:7M3

Lab Sample ID: 270-7753O-1M3 63atrix: Solid3 Percent Solids: 95.83

	Batch3	Batch3		Dilution3	Batch3	Prepared3		
Prep Type3	Туре3	63ethod3	Run	Factor3	Number3	or Analyzed3	Analyst3	Lab3
TotaljNA1	I/1M 1 rep1	Increment, 1 rep1			g579g21	ggj2gjg4 g4:001	DSJ1	TAL CAN1
TotaljNA1	rep1	3050V1			g590g21	g2j0gjg4 g0:571	D8 <b>8</b> 1	TAL CAN1
TotaljNA1	AnalEsis1	60201		201	g593241	g2j02jg4 g6:421	AMM21	TAL CAN1
TotaljNA1	I/1M 1 rep1	Increment, 1rep1			g579g21	ggj2gjg4 g4:001	DSJ1	TAL CAN1
TotaljNA1	AnalEsis1	MoistBre1		g1	g5y37y1	ggj25jg4 09:421	K/1	TAL CAN1

Laboratory References:3

TAL CAN = TestAmerica Canton, 4g0g /1hBffel /1treet NW, North Canton, OH 44720, T81 (330)497-93961

# **Certification Summary**

# Client: Leidos, Inc.1 1 roæctj/1ite: SRAA1 VBildinu g200 and ATA Semedial Act1

# Laboratory: TestAmerica Canton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.1

13

Authority	Program	EPA Region	Certification ID	Expiration Date
California1	NELA1	91	0gg44CA1	06-30-g4 *1
California1	/1tate 1rouram1	91	29271	04-30-g51
ConnecticBt1	/1tate 1rouram1	g1	H-05901	g2-3g-g41
Florida1	NELA1	41	E872251	06-30-g51
Georuia1	/1tate 1rouram1	41	NjA1	06-30-g51
Illinois1	NELA1	51	2000041	07-3g-g51
Kansas1	NELA1	71	E-g03361	0g-3g-g51
KentBcky (U/1T)1	/1tate 1rouram1	41	581	06-30-g51
-A-V1	DoD ELA1		23g51	07-g8-g61
Minnesota1	NELA1	51	039-999-3481	g2-3g-g41
Nevada1	/1tate 1rouram1	91	OH-000482008A1	07-3g-g51
New Jersey1	NELA1	21	OH00g1	06-30-g51
New York1	NELA1	21	g09751	03-3g-g51
Ohio RA1	/1tate 1rouram1	51	CL00241	g0-3g-g51
ennsylvania1	NELA1	31	68-003401	08-3g-g51
Texas1	NELA1	61		08-3g-g51
U/1DA1	Federal1		330-g3-003g91	gg-26-g61
Riruinia1	NELA1	31	460g751	09-g4-g51
Washinuton1	/1tate 1rouram1	g01	C97g1	0g-g2-g51
West Riruinia DE1	/1tate 1rouram1	31	2g01	g2-3g-g41
Wisconsin1	/1tate 1 rouram1	51	9995g8g901	08-3g-g51

* Certification renewal pendinu - certification considered vali1.1

TestAmerica Laboratories, Inc.

# CHAIN OF CUSTODY AND RECEIVING DOCUMENTS

TestAmer

THE LEADER IN ENVIRONMENTAL TESTING



4101 Shuffel Street, N.W. North Canton, OH 44720 tel 330.497.9396 fax 330.497.0772 www.testamericainc.com

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	ro/14	ratory Name: America sss: Shuffel St. NW, Canton, OH 44720 e: 330-497-9396 330-497-0772 330-497-0772 observations, comments observations, comments observations, comments	l sust			PROCESSING			hds.	of a think	9135 (adies)	AVHOLD VSHNPLES				
	-03	Laboratory Name: Test America Address: 4101 Shuffel St. NW, North Canton, OH 44720 Phone: 330-497-9396 Fax: 330-497-0772 Pax: 330-497-0772 SPECIAL INSTRUCTIONS, COMMENT SPECIAL INSTRUCTIONS, COMMENT	ISM Processing , Rust ISM Processing	ISM Processing	ISM Processing	HOLDAFTERISM PROCESSING		M /RUSH	MST-ISA (TOH		Shipment Method: W	ISM PROCESSING REQUIRED FOR ALL SAMPLES UNLESS NOTED OTHERWISE ABOVE XRUSH(3-DAV)TAT REQUESTED/POTDRYING) AITOIII NO.: Methods: - HOLD SAMPLESSPERTORM ISM PROCESSING THEN HOLD 1.) SW 846 3540150108 SAM PLE UNTLL LEUDOS EVALUATES & PRIMARY SAMPLES DATA	\$			
	RVAAP-RA- Date: 19	No. of Containers	Z ISM	2 ISM	MSI /	12-	-	MST 1	2:2			Airb				
	RVA Dat				_			_		- M		I LISK				
	No.:											D(POT)				
	COC No.: 2		$\left  \right $		_			_			Total	NIPLES U			5	
Q.	1 of				_		_	_		itainers:		RELLISA RECOU	13)	e cito E cito	(1-01)	
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0								_		Subtot	Notes: <del>A. Cook 4:00</del>	NUCH	DDT-LA FOUR WELL (12-13) - DDT-LA EQSIMULI (12-14-162) - DDT-LA EQSIMULI (12-14-52) - DDT-LA WESTWELL (12-14-52)	6) Dirted North Wall (5-1) 6) Dirted Last Wall (11-12) 6) Dirted West Wall (11-12) 6) Dirted West Wall (344) 6) Dirted Theory (11-12-13-13-13-13-13-13-13-13-13-13-13-13-13-	CC = seni-volatile organic compound C if +Ch-Fas+Wa() (10-1) D if CH-FLOCK (10-1-1) S = Soilsoid matrix	
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	Chain of Custody Record	l, Twinsburg, OH 4408 nfirmation Sampling ( 91 PO10026302 (Printed Name)	0-1 0-1	0-1	0-1	0-1	1-0	1-0	1-01	Received by	E	Signature Printed Name	Company Received by	Signature	Printed Name	
	in oi Inc.	insburg ation S 010026 (Printe	50M				1.00	BIZCS-OSZW-0026-00 BIZC-05ZM 0-	Kincerus MANT9-So Bizco-NERM D	Re			<u>8</u>	00	ă Ö	-
	Chain Leidos, Inc.	01, Tw	B12cs-050M-0016-SO B12cs-050M B12cs-052M-0017-SO B12cs-050M	B12cs-053M-0018-SO B12cs-053M	B12cs-054M-0019-SO B12cs-054M B12cs-055M-0020-SO B12cs-055M	Bires-OleSM	BIZSAMMORAN BIZGAMA	D 81205	N 81203	Date	hil/ad/u	Time 2000	Date	Time		
		Suite 2 A RA C 500.02	016-SO	018-SO	019-SO	036-50 M22.co	12-20	0026	2002	N 140						]
	SO	5802. 5802 56.00.95 56.00.95	050M-00	053M-00	054M-00	81205-06511-0036-50	PT-	WZSO	WSHY-	11010						
	leidos	mmons 30-405- Jed Thc Iding 12 00.0945 e)	B12cs- B12cs-	B12cs-	B12cs- B12cs-	81203	BIZCS	Bl2cs	15/2C	200		onnc/				
	U	los 366 Col 1ager: 3: 1ager: 4: 12849.0								y	Z		2			
	A	Name: Leidos Address: 8866 Commons Blvd., Suite 201, Twinsburg, OH 44087 Phone Number: 330-405-5802 Project Manager: Jed Thomas Project Name: Building 1200/ATA RA Confirmation Sampling (RVM Jobh Co. 172819.00.09456.00.9500.02.001 PO10025302 Sampler (Signature) Rich Sprinz								Relinquished by	N	Rich Vich	Company Relinquished by	e	Name	s, Inc.
	4	Nam Addi Proje Proje Sam								Reling	×	Signature	Company Relinqu	Signature	Printed Name Company	Leidos, Inc.



States.					Login # :		had here
Clie	ent leidos		_Site Name		_ ]. (	Cooler unpac	ked by:
	ler Received on1-7		Opened on 11	a service of the serv	- L	10	6
Fed	IEx: ft Grd Bxp UP	S FAS Stetson	Client Drop Off			ner	
	ceipt After-hours: Drop-c			Storage Loc			
Tes 1. 2. 3. 4. 5. 6. 7. 8. 9.	tAmerica Cooler # Packing material used: COOLANT: WC Cooler temperature upon IR GUN# A (CF +4.0 IR GUN# 4 (CF +1. IR GUN# 5 (CF +0. IR GUN# 8 (CF +0. Were custody seals on th -Were custody seals on th -Were custody seals on th	Foam Box Babble Wrap Fo Blue Ice receipt 0 °C) Observed Co 2 °C) Observed Co 2 °C) Observed Co 4 °C) Observed Co 7 °C) Observed Co the outside of the cool the outside of the cool the outside of the cool the bottle(s)? tached to the cooler(s mpany the sample(s) relinquished & signe good condition (Unbry reconciled with the C ed for the test(s) indived to perform indica	Dam Plastic Bag Dry Ice Water oler Temp oler Temp oler Temp oler Temp oler Temp er(s)? If Yes ( oler(s) signed & dat )? ? d in the appropriat oken)? COC? cated? ated analyses?	Box Off None Off None Off "C Corrected Co "C Corrected Co "C Corrected Co "C Corrected Co uantity	her her coler Temp. coler Temp. coler Temp. coler Temp. coler Temp. Wes No Ves No	°C °C °C °C °C °C	Strip Lot# <u>HC425511</u>
12. 13. Cor	Were VOAs on the COC Were air bubbles >6 mm Was a trip blank present ntacted PM	in any VOA vials? in the cooler(s)?	by	via Ve	Yes No Yes No Yes No erbal Voice	Mail Other	
14.	CHAIN OF CUSTODY	& SAMPLE DISC	REPANCIES			Samples	regressed by:
	SAMPLE CONDITION			er the recommend	led holding		ired.
San San	nple(s) nple(s)			were	received in	a broken con	tainer.
San San San	nple(s) nple(s) nple(s)				received in		tainer.
San San San	nple(s) nple(s)			were	received in		tainer.
San San San 16.	nple(s) nple(s) nple(s)	TION	were receiv	ved with bubble >	received in >6 mm in di	ameter. (Not	tainer.

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

12/3/2014

Cooler #	Cooler Receipt Form	Observed Temp °C	Login # : Corrected Temp °C	Coolant
c.hunt-	5		10.2	NONE
chunt- .L	5	9.8 10.8	11-2	Ĵ.
*****				
······································			An analysis and a star of a second star bar was a star a star of a second star bar a star	

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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: 240-44832-1

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: 12/4/2014 4:53:26 PM

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

LINKS **Review your project** results through Total Access Have a Question? Ask-The Expert Visit us at: www.testamericainc.com

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Client Sample Results	9
QC Sample Results	15
QC Association Summary	16
Lab Chronicle	18
Certification Summary	20
Chain of Custody	21

# **Definitions/Glossary**

# Client: Leidos, Inc. roject/Site: RVAAP Building 1200 and ATA Remedial ActP

TestAmerica Job ID: 240-44832-1P

# QualifiersG

## Metals

motaro	
Qualifier	Qualifier Description
DP	The reported value is from a dilution.P
JP	Estimated: The quantitation is an estimation due to discrepanctes in meeting certain analyte-specific quality control criteriP.P
4P	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not P pplicable.aP
UP	Undetected at the Limit of Detection.aP

# lossaryG

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 FacP	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	1
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	
TEFP	Toxicity Equivalent Factor (Dioxin)P	
TEQP	Toxicity Equivalent Quotient (Dioxin)P	

Client: Leidos, Inc.1 1 rorectj/1ite: SRAA1 VBildinu 3200 and ATA Semedial Act1

### Job ID: 240-44832-1vE

### Laboratory: TestAmerica CantonE

NarrativeE

# **CASE NARRATIVE**

## **Client: Leidos, Inc.E**

# Project: RVAAP Building 1200 and ATA Remedial ActE

## Report Number: 240-44832-1E

g itWtWé ehcextions noted as plaus or pootnotes, standard analftical xrotocols y'bre polloy'bd in tWé analftis optWé samxles and no 1 xroblems y'bre encoBntered or anomalies observed. In addition all laboratorf1vBalitf1control samxles y'bre y1tWih establisVéd control 1 limits, y1tWanf1ehcextions noted beloy1 qbcWsamxle y'bs analffed to acWewe tWe loy'bst xossible rexortinu limit y1tWih tWe constraints op1 tWe metWod. In some cases, dBe to interperence or analftes xresent at WuWconcentrations, samxles y'bre dilBted. zor dilBted samxles, 1 tWe rexortinu limits are admested relative to tWe dilBtion revBired.1

CalcBlations are xerpormed bepore roBndinu to avoid roBnd-opperrors in calcBlated resBlts.1

All Woldinu times yare met and xroxer xreservation noted por tWe metWods xerpormed on tWese samxles, Bnless otWery1se detailed in tWe 1 individBal sections beloy11

TestAmerica BtiliEes F/1q1 A axxrowed metWods and DUD O/1Q, y1/vere axxlicable, in all analftical y1/orM TWe samxles xresented in tWis 1 rexort y1/2 re analfted por tWe xarameterks (listed on tWe analftical metWods sBmmarf1xaue in accordance y1/tWtWe metWodks (indicated. A 1 sBmmarf1opOC data por tWese analftes is inclBded at tWe bacMoptWe rexort. 1

TestAmerica Canton attests to tWé waliditf1optWé laboratorf1data uenerated bf1TestAmerica pacilities rexorted Wérein. All analfses 1 xerpormed bf1TestAmerica pacilities y*re done Bsinu establisWéd laboratorf1/1U1 s tWát incorxorate OAjOC xrocedBres described in tWé 1 axxlicable metWóds. TestAmerica)s oxerations uroBxs Wave reviey*ed tWé data por comxliance y1tWtWé laboratorf1OAjOC xlan, and data 1 Wére been pbBnd to be comxliant y1tWlaboratorf1xrotocols Bnless otWéry1se noted beloy1 1

All solid samxle resBits are rexorted on an 'as received'1basis Bnless otVéry1se indicated bf1tVé xresence opa "1 solids walBe in tVé 1 metVód Véader.1

TWis laboratorf1rexort is conpidential and is intended por tWe sole Bse opTestAmerica and its client.1

1

All xarameters por y1/VicWTestAmerica %ortWCanton Was certipication y1ere evalBated to tWe limit opdetection k1/UD( and inclBde vBalipied 1 resBits y1/Viere axxlicable. 1 arameters not certipied Bnder O/1Q, ipanf1, y1ere evalBated to tWe detection limit kDL( and inclBde vBalipied 1 resBits y1/Viere axxlicable.1

TWe samxleks( tWet contain constitBents plauued y1tWF are Bndetected. TWe resBlt associated y1tWtWis plau is tWe limit opdetection k1UD(.1

### <u>RECEIPT</u>E

TWe samxles y'the received on 33j2Nj2034 30:3N AQ9tWe samxles arrived in uood condition, xroxerlf1xreserved and, y1/vere revBired, on 1 ice. TWe temxeratBre optWe cooler at receixt y'the 33.05C.1

### TOTAL METALS (ICPMS) WITH INCREMENTAL SAMPLE PREPARATIONE

/1amxles V32C/1-0N 12-0022-/1U k240-44672-3(, V32C/1-0N*12-0027-/1U k240-44672-2(, V32C/1-0N6Q-0024-/1U k240-44672-7(, 1 V32C/1-0N8Q-002N-/1U k240-44672-4(, V32C/1-0N; 12-002°1zD k240-44672-N( and V32C/1-0; 1; 12-0023-/1U k240-44672-; 1 y*ter analf Eet 1 por total metals kC1 Q/1( y1tWincremental samxle xrexaration in accordance y1tWITSC TecWical and SeuBlatorf1GBidance: I/1Q, zebrBarf11 2032 and q1 A /1g1-64;1QetWod; 1020 DoD. TWe samxles beuan tWe drf1nu xrocess on 33j2Nj2034, y*ter xrocessed and siewed on 1 32j03j2034, diuested on 32j03j2034 and analf Eed on 32j02j2034 and 32j04j2034. 1

Qanuanese pailed tWe recoverf1criteria WiuWpor tWe Q/1 opsamxle V32C/1-0N1Q-0022-/1UQ/1 k240-44672-3( in batcW240-3N8724. Seper to 1

# Job ID: 240-44832-1 (Continued)E

### Laboratory: TestAmerica Canton (Continued)E

tWe OC rexort por details.1

Qanuanese enceeded the S1 D limit por the dBxlicate opsamxle V32C/1-0N;1Q-0022-/1UDF k240-44672-3(. Seper to the OC rexort por 1 etails.1

/1amxles V32C/1-0NPQ-0027-/1U k240-44672-2([30X], V32C/1-0N6Q-0024-/1U k240-44672-7([30X], V32C/1-0N8Q-002N-/1U k240-44672-4(1 [30X] and V32C/1-0; tQ-0023-/1U k240-44672-; t[[30X] revBired dilBtion xrior to analfsis. TWe recortinu limits Wave been ad Pestel 1 accordinulf11

% additional analftical or vBalitf1issBes y are noted, otWer tWan tWose described above or in tWe DepinitionsjGlossarf1xaue.1

### TOTAL SOLIDS/PERCENT MOISTURE

/1amxles V32C/1-0N;12-0022-/1U k240-44672-3(, V32C/1-0N*12-0027-/1U k240-44672-2(, V32C/1-0N6Q-0024-/1U k240-44672-7(, 1 V32C/1-0N8Q-002N-/1U k240-44672-4(, V32C/1-0N;12-002°1zD k240-44672-N( and V32C/1-0;1;12-0023-/1U k240-44672-;1( y'ere analf'Eet 1 por Total /1olidsj1 ercent QoistBre in accordance y1tW1 ercent QoistBre metWod. TWe samxles y'ere leacWed on 33j2Nj2034 and analf'Eed on 1 32j03j2034. 1

% analftical or vBalitf1issBes y1ere noted, otWer tWan tWose described above or in tWe DepinitionsjGlossarf1xaue.1

# **Method Summary**

1 @el.t: neiLosdll.,

roPectj/.ite: SRAA. VBiCil.u 3200 al.L ATA SemeLiaCAct.

Method	Method Description	Protocol	Laboratory
W020.	8.eta© 11. j8./.(	/ g 64W .	TAn 1.A).
8.oistBre.	ercel.t 8.oistBre.	N. A.	TAn 1.A).

### Protocol References:

N. A E =/. NI. Urol.mel.t.C. rotectiol. Auel. v.

/.g. 64WE yTest 8.et".oLs hor NU. C. til.u /.oL g. sted. ".vsica G1.".emica (3.et".oLsydT".irL NLitiol.d). oUember 3F6WAI.L Its =9Lates,.

### Laboratory References:

TAn 1A). E TestAmerica 1.I. tol.d4303 /.".BppeO.treet ).g.d).ort". 1.I. tol.df. O 44H20dTNn NT70(4FH-F7FW.

# Sample Summary

1 @el.t: neiLosdII.,

. rolectj/.ite: SRAA. VBiCil.u 3200 al.L ATA SemeLiaCAct.

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-44672-3.	V321/0g5M-0022-/.O.	/.oQ	33j24j34 32:30.	33j2gj34 30:3g.
240-44672-2.	V321/0g9M-0027-/.O.	/. o@	33j24j34 32:2g.	33j2gj34 30:3g.
240-44672-7.	V321/0g6M-0024-/.O.	/.o@	33j24j34 32:4g.	33j2gj34 30:3g.
240-44672-4.	V321/0g8M-002g-/.O.	/.o@	33j24j34 32:gg.	33j2gj34 30:3g.
240-44672-g.	V321/0g5M-0029-FD.	/.o@	33j24j34 32:30.	33j2gj34 30:3g.
240-44672-5.	V321/055M-0023-/.O.	/.o@	33j24j34 34:20.	33j2gj34 30:3g.

TestAmerica 1.al.tol.

TestAmerica Job ID: 240-44672-3.

# **Detection Summary7**

1 @el.t: neiLosdII.,

. rolectj/.ite: SRAA. VBiCil.u 3200 al.L ATA SemeLiaCAct.

TestAmerica Job ID: 240-44672-3

Client Sample ID: B12	CS-05M67-0022-SO7			Lab Sample ID	: 240-44732-1
Analyte7	Result7 Qualifier7	LOQ7	DL7 Unit7	Dil Fac7 D7 67ethod7	Prep Type7
g. l.ual.ese.	3K0. D J	0,1/17	0,33. muj9u	2 🔅 K020.	Tota ⁽⁵ A.
Client Sample ID: B12	CS-058670023-SO7			Lab Sample ID	: 240-44732-2
Analyte7	Result7 Qualifier7	LOQ7	DL7 Unit7	Dil Fac7 D7 67ethod7	Prep Type7
g. l.ual.ese.	6M0. D	4,N.	0,N4. muj9.u.	30 🌣 K020.	Tota ⁰⁵ A.
Client Sample ID: B12	CS-057670024-SO7			Lab Sample ID	: 240-44732-3
Analyte7	Result7 Qualifier7	LOQ7	DL7 Unit7	Dil Fac7 D7 67ethod7	Prep Type7
g. l.ual.ese.	820. D	4,8.	0,N8. muj9u.	30 🌣 K020.	Tota05A.
Client Sample ID: B12	CS-059670025-SO7			Lab Sample ID	: 240-44732-4
Analyte7	Result7 Qualifier7	LOQ7	DL7 Unit7	Dil Fac7 D7 67ethod7	Prep Type7
g. l.ual.ese.	800. D	7,M.	0,4K muj9u.	30 🌣 K020.	Tota05A.
Client Sample ID: B12	CS-05M67-0028-FD7			Lab Sample ID	: 240-44732-5
Analyte7	Result7 Qualifier7	LOQ7	DL7 Unit7	Dil Fac7 D7 67ethod7	Prep Type7
g. l.ual.ese.	320. D	0,MD	0,33. muj9u	2 🌣 K020.	Tota05A.
Client Sample ID: B12	CS-0M/670021-SO7			Lab Sample ID	): 240-44732-N
Analyte7	Result7 Qualifier7	LOQ7	DL7 Unit7	Dil Fac7 D7 67ethod7	Prep Type7
g. l.ual.ese.	N30. D	7,6.	0,4N. muj9.u.	30 ☆ K020.	Tota

1 @el.t: neiLosdII.,

. rolectj/.ite: SRAA. VBiCil.u 3200 al.L ATA SemeLiaCAct.

TestAmerica Job ID: 240-44672-3.

Client Sample ID: 1/32CS-0B5M	-0022-SOr				Lab Sample ID: 240-440					
Date Collected: 33/24/34 32:30r							Matri	ix: Solidr		
Date Received: 33/2B/34 30:3Br							9ercent Soli	ds: PP.7r		
Method: 5020 - Metals (IC9 <b>/</b> MS)r										
Analyter	Resultr Qualifier	LOQ	DLr	Unit	Dr	9 reparedr	Analyzed	Dil Fac		
Manganeser	350r D Jr	0,g7.	0,33.	muj9u.	÷	32j03j34 30:5K.	32j02j34 37:25.	2.		
General Chemistryr										
Analyter	Resultr Qualifier	LOQ	DLr	Unit	Dr	9 reparedr	Analyzed	Dil Fac		
9ercent Solidsr	PPr	0,30.	0,30.	%			32j03j34 06:46.	3.		
9ercent Moisturer	0.58r	0,30.	0,30.	%			32j03j34 06:46.	3.		

TestAmerica 1.al.tol.

1 @el.t: neiLosdII.,

. rolectj/.ite: SRAA. VBiCil.u 3200 al.L ATA SemeLiaCAct.

TestAmerica Job ID: 240-44672-3.

Client Sample ID: 1/32CS-0B8	M-0027-SOr				Lab Sample ID: 240-44					
Date Collected: 33/24/34 32:2Br						-	Matri	ix: Solidr		
Date Received: 33/2B/34 30:3Br							9ercent Soli	ds: P6.8r		
Method: 5020 - Metals (IC9r/MS)r										
Analyter	Resultr Qualifier	LOQ	DLr	Unit	Dr	9 reparedr	Analyzed	Dil Fac		
Manganeser	6P0r Dr	4,5.	0,54.	muj9u.	<u></u>	32j03j34 30:5K.	32j04j34 33:2g.	30.		
General Chemistryr										
Analyter	Resultr Qualifier	LOQ	DLr	Unit	Dr	9 reparedr	Analyzed	Dil Fac		
9ercent Solidsr	PPr	0,30.	0,30.	%			32j03j34 06:46.	3.		
9ercent Moisturer	3.7r	0,30.	0,30.	%			32j03j34 06:46.	3.		

TestAmerica 1.al.tol.

1 @el.t: neiLosdII.,

. rolectj/.ite: SRAA. VBiCil.u 3200 al.L ATA SemeLiaCAct.

Client Sample ID: 1ß2CS-0B6M-	0024-SOr				Lab Sample ID: 240-44672-					
Date Collected: 33/24/34 32:4Br							Matri	x: Solid		
Date Received: 33/2B/34 30:3Br							9ercent Solie	ds: P8.6r		
Method: 5020 - Metals (IC9#MS)r Analyter	Resultr Qualifier	LOQ	DLr	Unitr	D	9 reparedr	Analyzed	Dil Fac		
Manganeser	820r Dr	4,K.	0,5K.	muj9.u.	<del>\\\\</del>	32j03j34 30:5K.	32j04j34 33:77.	30.		
General Chemistryr										
Analyter	Resultr Qualifier	LOQ	DLr	Unitr	D	9 reparedr	Analyzed	Dil Fac		
9ercent Solidsr	P6r	0,30.	0,30.	%			32j03j34 06:46.	3.		
9ercent Moisturer	2.2r	0,30.	0,30.	%			32j03j34 06:46.	3		

TestAmerica 1.al.tol.

1 @el.t: neiLosdII.,

. rolectj/.ite: SRAA. VBiCil.u 3200 al.L ATA SemeLiaCAct.

TestAmerica Job ID: 240-44672-3.

Client Sample ID: 1ß2CS-0BPM-	002B-SOr				Lab Sample ID: 240-44672-4					
Date Collected: 33/24/34 32:BBr							Matri	ix: Solidr		
Date Received: 33/2B/34 30:3Br							9ercent Solid	ds: P6.Pr		
Method: 5020 - Metals (IC9r/MS)r Analyter	Resultr Qualifier	LOQ	DLr	r Unit	Dr	9 reparedr	Analyzed	Dil Fac		
Manganeser	800r Dr	7,g.	0,48.	muj9u.	<u></u>	32j03j34 30:5K.	32j04j34 33:7K.	30.		
General Chemistryr										
Analyter	Resultr Qualifier	LOQ	DLr	r Unit	Dr	9 reparedr	Analyzed	Dil Fac		
9ercent Solidsr	PPr	0,30.	0,30.	%			32j03j34 06:46.	3.		
9ercent Moisturer	3.3r	0,30.	0,30.	%			32j03j34 06:46.	3.		

TestAmerica 1.al.tol.

1 @el.t: neiLosdII.,

. rolectj/.ite: SRAA. VBiCil.u 3200 al.L ATA SemeLiaCAct.

Client Sample ID: 1ß2CS-0B5M	-0028-FDr				Lab Sample ID: 240-446						
Date Collected: 33/24/34 32:30r							Matri	ix: Solidr			
Date Received: 33/2B/34 30:3Br							9ercent Soli	ds: PP.4r			
Method: 5020 - Metals (IC9 <b>/</b> MS)r Analyter	Resultr Qualifier	LOQ	DI -	Unit	Dr	Qroporodr	Analyzed	Dil Fac			
Manganeser	320r Dr	0,g0.		muj9u.		9 reparedr 32j03j34 30:5K.	32j02j34 34:02.	2.			
General Chemistryr											
Analyter	Resultr Qualifier	LOQ	DLr	Unit	Dr	9 reparedr	Analyzed	Dil Fac			
9ercent Solidsr	PPr	0,30.	0,30.	%			32j03j34 06:46.	3.			
9ercent Moisturer	0.52r	0,30.	0,30.	%			32j03j34 06:46.	3.			

TestAmerica 1.al.tol.

1 @el.t: neiLosdII.,

. rolectj/.ite: SRAA. VBiCil.u 3200 al.L ATA SemeLiaCAct.

TestAmerica Job ID: 240-44672-3.

Client Sample ID: 1B2CS-055M-	-0023-SOr				Lab Sample ID: 240-44672-5					
Date Collected: 33/24/34 34:20r							Matri	ix: Solidr		
Date Received: 33/2B/34 30:3Br							9ercent Soli	ds: P6.Pr		
Method: 5020 - Metals (IC9r/MS)r										
Analyter	Resultr Qualifier	LOQ	DLr	Unit	Dr	9 reparedr	Analyzed	Dil Fac		
Manganeser	B30r Dr	7,6.	0,45.	muj9u.	<u>Å</u>	32j03j34 30:5K.	32j04j34 33:43.	30.		
General Chemistryr										
Analyter	Resultr Qualifier	LOQ	DLr	Unit	Dr	9 reparedr	Analyzed	Dil Fac		
9ercent Solidsr	PPr	0,30.	0,30.	%			32j03j34 06:46.	3.		
9ercent Moisturer	3.3r	0,30.	0,30.	%			32j03j34 06:46.	3.		

TestAmerica 1.al.tol.

# **QC Sample Resultsk**

1 @el.t: neiLosdII.,

. rolectj/.ite: SRAA. VBiCil.u 3200 al.L ATA SemeLiaCAct.

# Method: 6020 - Metals (ICP/MS)k

Lab Sample ID: MB 240-159012/1-A Matrix: Solidk Analysis Batch: 159324k	∆ ^2k							Client Sa	ample ID: Metho Prep Type: T Prep Batch:	otal/NAk
	MBk MBk									
Analytek	Resultk Qualifierk		LOQk		DLk Unitk		D F	repared	Analyzed	Dil Fac
g. l.ual.ese.	0,40. M.		3,0.	0	,32. mujUu	Ι.		3j34 30:K5	32j02j34 37:36.	2.
Lab Sample ID: LCS 240-159012/2-	A ^2k						Clien	t Sample	ID: Lab Control	
Matrix: Solidk									Prep Type: T	
Analysis Batch: 159324k									Prep Batch:	159012k
		Spikek		LCSk I	_CSk				%Rec.k	
Analytek		Addedk		Resultk 0	Qualifierk	Unit	D	%Reck	Limitsk	
g. l.ual.ese.		300.		99,4. E	Э.	mujUu.		99.	60320.	
Lab Sample ID: 240-44832-1 MSk							Client S	Sample ID	: B12CS-056M-0	
Matrix: Solidk									Prep Type: T	
Analysis Batch: 159324k									Prep Batch:	159012k
	Samplek Samplek	Spikek		MSk I					%Rec.k	
Analytek	sultk Qualifierk	Addedk			Qualifierk	Unitk		%Reck	Limitsk	
g. l.ual.ese.	380. D J.	9,72.		392. E	D 4.	mujUu.	¢	726.	30399.	
									D.000 0000	
Lab Sample ID: 240-44832-1 DUk							Client S	sample ID	: B12CS-056M-0	
Matrix: Solidk									Prep Type: T	
Analysis Batch: 159324k									Prep Batch:	
	Samplek Samplek			DUk						PDk
Analytek	sultk Qualifierk				Qualifierk	Unitk	Dk		PD	
g. l.ual.ese.	380. D J.			288. [	O J.	mujUu.			49	). 20.

# Method: Moisture - Percent Moisturek

Lab Sample ID: 240-44832-4 D Matrix: Solidk Analysis Batch: 158959k	Uk			Client Sample	D: B12CS-059M-002 Prep Type: Tot	
-	Samplek Samplek	DUk DUk				PDk
Analytek	sultk Qualifierk	Resultk Qualifierk	Unitk	Dk	PDk	Limit
ercel.t /. o@_s.	99.	99.	%.			20.
ercel.t g.oistBre.	3,3.	3,3.	%.		3.	20.

TestAmerica 1.al.tol.

# **QC** Association SummaryD

1 @el.t: neiLosdII.,

. rolectj/.ite: SRAA. VBicil.u 3200 al.L ATA SemeLiaCAct.

TestAmerica Job ID: 240-44672-3.

# **MetalsD**

## ISM Prep Batch: 158822D

Lab Sample ID	Client Sample ID	Prep TypeD	MatrixD	MethodD	Prep BatchD
240-44672-3.	V321/0p5M-0022-/.O	TotaØNA.	/ o@	II.cremel.td. reg.	
240-44672-3 DU.	V321/0p5M-0022-/.O	TotaØNA.	/ o@	II.cremel.td. reg.	
240-44672-3 M/.	V321/0p5M-0022-/.O	TotaØNA.	/ o@	II.cremel.td. reg.	
240-44672-2.	V321/0p8M-0027-/.O	TotaØNA.	/ o@	II.cremel.td. reg.	
240-44672-7.	V321/0p6M-0024-/.O	TotaØNA.	/ o@	II.cremel.td. reg.	
240-44672-4.	V321/0p9M-002p-/.O	TotaØNA.	/ o@	II.cremel.td. reg.	
240-44672-р.	V321/0p5M-0028-FD.	TotaØNA.	/ o@	II.cremel.td. reg.	
240-44672-5.	V321/055M-0023-/.O	TotaØNA.	/ o@	II.cremel.td. reg.	

### Prep Batch: 159012D

Lab Sample ID	Client Sample ID	Prep TypeD	MatrixD	MethodD	Prep BatchD
240-44672-3.	V321/0p5M-0022-/.O	TotaONA.	/ o@.	70p0V.	3p6622.
240-44672-3 DU.	V321/0p5M-0022-/.O	TotaONA.	/ o@L.	70p0V.	3p6622.
240-44672-3 M/.	V321/0p5M-0022-/.O	TotaONA.	/ o@L.	70p0V.	3p6622.
240-44672-2.	V321/0p8M-0027-/.O	Tota@NA.	/ o@L.	70p0V.	3p6622.
240-44672-7.	V321/0p6M-0024-/.O	TotaONA.	/ o@L.	70p0V.	3p6622.
240-44672-4.	V321/0p9M-002p-/.O	TotaONA.	/ o@L.	70p0V.	3p6622.
240-44672-р.	V321/0p5M-0028-FD.	TotaØNA.	/ o@L.	70p0V.	3p6622.
240-44672-5.	V321/055M-0023-/.O	TotaONA.	/ o@L.	70p0V.	3p6622.
n1/. 240-3p9032j2-A ^2.	nab 1.ol.troQ. mgQe.	Tota@NA.	/ o@L.	70p0V.	
MV 240-3p9032j3-A ^2.	MethoL V@I.k.	TotaQNA.	/ o@.	70p0V.	

### Analysis Batch: 159324D

Lab Sample ID	Client Sample ID	Prep TypeD	MatrixD	MethodD	Prep BatchD
240-44672-3.	V321/0p5M-0022-/.O	Tota@NA.	/ o@	5020.	3p9032.
240-44672-3 DU.	V321/0p5M-0022-/.O	TotaØNA.	/ o@L.	5020.	3p9032.
240-44672-3 M/.	V321/0p5M-0022-/.O	Tota@NA.	/ o@L.	5020.	3p9032.
240-44672-р.	V321/0p5M-0028-FD.	TotaØNA.	/ o@L.	5020.	3p9032.
n1/. 240-3p9032j2-A ^2.	nab 1.ol.troQ. mgQe.	TotaØNA.	/ o@L.	5020.	3p9032.
MV 240-3p9032j3-A ^2.	MethoL V@I.k.	Tota QNA.	/ o@L.	5020.	3p9032.

### Analysis Batch: 159561D

Lab Sample ID	Client Sample ID	Prep TypeD	MatrixD	MethodD	Prep BatchD
240-44672-2.	V321/0p8M-0027-/.O	TotaQNA.	/ o@L.	5020.	3p9032.
240-44672-7.	V321/0p6M-0024-/.O	TotaØNA.	/ o@L.	5020.	3p9032.
240-44672-4.	V321/0p9M-002p-/.O	TotaQNA.	/ o@L.	5020.	3p9032.
240-44672-5.	V321/055M-0023-/.O	TotaØNA.	/ o@L.	5020.	3p9032.

# **General ChemistryD**

### ISM Prep Batch: 158822D

Lab Sample ID	Client Sample ID	Prep TypeD	MatrixD	MethodD	Prep BatchD
240-44672-3.	V321/0p5M-0022-/.O	Tota	/ o@	II.cremel.td. reg.	
240-44672-2.	V321/0p8M-0027-/.O	Tota@NA.	/ o@	II.cremel.td. reg.	
240-44672-7.	V321/0p6M-0024-/.O	Tota@NA.	/ o@	II.cremel.td. reg.	
240-44672-4.	V321/0p9M-002p-/.O	TotaØNA.	/ o@L.	II.cremel.td. reg.	
240-44672-4 DU.	V321/0p9M-002p-/.O	TotaONA.	/ o@	II.cremel.td. reg.	
240-44672-р.	V321/0p5M-0028-FD.	TotaONA.	/ o@L.	II.cremel.td. reg.	
240-44672-5.	V321/055M-0023-/.O	TotaØNA.	/ o@L.	II.cremel.td. reg.	

# **QC** Association SummaryD

1 @el.t: neiLosdII.,

. rolectj/.ite: SRAA. VBiCil.u 3200 al.L ATA SemeLiaCAct.

# TestAmerica Job ID: 240-44672-3.

# General Chemistry (Continued)tD

# Analysis Batch: 158959D

Lab Sample ID	Client Sample ID	Prep TypeD	MatrixD	MethodD	Prep BatchD
240-44672-3.	V321/0p5M-0022-/.O	TotaØNA.	/ o@	MoistBre.	3p6622.
240-44672-2.	V321/0p8M-0027-/.O	TotaØNA.	/ o@	MoistBre.	3p6622.
240-44672-7.	V321/0p6M-0024-/.O	TotaØNA.	/ o@	MoistBre.	3p6622.
240-44672-4.	V321/0p9M-002p-/.O	TotaØNA.	/ o@	MoistBre.	3p6622.
240-44672-4 DU.	V321/0p9M-002p-/.O	TotaØNA.	/ o@	MoistBre.	3p6622.
240-44672-р.	V321/0p5M-0028-FD.	TotaØNA.	/ o@	MoistBre.	3p6622.
240-44672-5.	V321/055M-0023-/.O	TotaØNA.	/ o@	MoistBre.	3p6622.

Client: Leidos, Inc.1 1roæctj/1ite: SRAA1 VBildinu 3200 and ATA Semedial Act1

Lab Sample ID: 240-44732-3

Lab Sample ID: 240-44732-43

63atrix: Solid3 9ercent SolidP: s7.83

63atrix: Solid3

63atrix: Solid3

9ercent SolidP: s7.s3

9ercent SolidP: s8.73

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ate Received:	11/25/14 10:15	53							9ercent SolidP: ss.3
-	Batch3	Batch3		Dilution3	Batch3	9 repared3			
93ep Type3	Type3	63ethod3	Run	Factor3	Number3	or Analyzed3	AnalyPt3	Lab3	
Totalj9A1	I/1g11 reM1	Increment, 1 reM1			3p66221	33j2pj34 35:701	DSJ1	TAL CA9	_
Totalj9A1	reM1	70p0V1			3pN0321	32j03j34 30:p51	D8 <b>8</b> 1	TAL CA9	
Totalj9A1	AnalEsis1	y0201		21	3pN7241	32j02j34 37:2p1	Ag1g121	TAL CA9	
Totalj9A1	l/1g11 reM1	Increment, 1reM1			3p66221	33j2pj34 35:701	DSJ1	TAL CA9	
Totalj9A1	AnalEsis1	g1bistBre1		31	3p6NpN1	32j03j34 06:461	K/1	TAL CA9	

Client Sample ID: B12CS-058630023-SO3
Date Collected: 11/24/14 12:253
Date Received: 11/25/14 10:153

	Batch3	Batch3		Dilution3	Batch3	9 repared3		
93ер Туре3	Туре3	63ethod3	Run	Factor3	Number3	or Analyzed3	AnalyPt3	Lab
Totalj9A1	I/1g11 reM1	Increment, 1 reM1			3p66221	33j2pj34 35:701	DSJ1	TAL CA9
Totalj9A1	reM1	70p0V			3pN0321	32j03j34 30:p51	D8 <b>8</b> 1	TAL CA9
Totalj9A1	AnalEsis1	y0201		301	3pNpy31	32j04j34 33:2N1	Ag1g121	TAL CA9
Totalj9A1	l/1g11 reM1	Increment, 1reM1			3p66221	33j2pj34 35:701	DSJ1	TAL CA9
Totalj9A1	AnalEsis1	g1oistBre1		31	3p6NpN1	32j03j34 06:461	K/1	TAL CA9

# Client Sample ID: B12CS-057630024-SO3 Date Collected: 11/24/14 12:453 Date Received: 11/25/14 10:153

	Batch3	Batch3		Dilution3	Batch3	9 repared3		
93ep Type3	Type3	63ethod3	Run	Factor3	Number3	or Analyzed3	AnalyPt3	Lab
Totalj9A1	I/1g11 reM1	Increment, 1reM1			3p66221	33j2pj34 35:701	DSJ1	TAL CA9
Totalj9A1	reM1	70p0V			3pN0321	32j03j34 30:p51	D8 <b>8</b> 1	TAL CA9
Totalj9A1	AnalEsis1	y0201		301	3pNpy31	32j04j34 33:771	Ag1g121	TAL CA9
Totalj9A1	l/1g11 reM1	Increment, 1 reM1			3p66221	33j2pj34 35:701	DSJ1	TAL CA9
Totalj9A1	AnalEsis1	g1oistBre1		31	3p6NpN1	32j03j34 06:461	K/1	TAL CA9

# Client Sample ID: B12CS-05s630025-SO3 Date Collected: 11/24/14 12:553 Date Received: 11/25/14 10:153

#### Batch3 Batch3 Dilution3 Batch3 9 repared3 63ethod3 93ep Type3 Type3 Run Factor3 Number3 or Analyzed3 AnalyPt3 Lab Totalj9A1 I/1g11 reM1 Increment, 1 reM1 3p66221 33j2pj34 35:701 DSJ1 TAL CA9 Totalj9A1 reM1 70p0V 3pN0321 32j03j34 30:p51 D881 TAL CA9 Totalj9A1 3pNpy31 32j04j34 33:751 Ag1g121 AnalEsis1 y0201 301 TAL CA9 Totalj9A1 3p66221 33j2pj34 35:701 DSJ1 TAL CA9 I/1g11 reM1 Increment, 1 reM1 3p6NpN1 32j03j34 06:461 K/1 Totalj9A1 AnalEsis1 g1oistBre1 TAL CA9 31

# Client: Leidos, Inc.1 1 roæctj/1ite: SRAA1 VBildinu 3200 and ATA Semedial Act1

Client Sampl	e ID: B12CS	-05M630028-FD	3				L	.ab Samp	ole ID: 240-44732-53
Date Collected:	11/24/14 12:10	)3							63atrix: Solid3
Date Received:	11/25/14 10:15	53							9ercent SolidP: ss.43
-	Batch3	Batch3		Dilution3	Batch3	9 repared3			
93ep Type3	Туре3	63ethod3	Run	Factor3	Number3	or Analyzed3	AnalyPt3	Lab3	
Totalj9A1	I/1g11 reM1	Increment, 1 reM1			3p66221	33j2pj34 35:701	DSJ1	TAL CA9	
Totalj9A1	reM1	70p0V1			3pN0321	32j03j34 30:p51	D8 <b>8</b> 1	TAL CA9	
Totalj9A1	AnalEsis1	y0201		21	3pN7241	32j02j34 34:021	Ag1g121	TAL CA9	
Totalj9A1	l/1g11 reM1	Increment, 1reM1			3p66221	33j2pj34 35:701	DSJ1	TAL CA9	
Totalj9A1	AnalEsis1	q1oistBre1		31	3p6NpN1	32j03j34 06:461	K/1	TAL CA9	

Client Sample ID: B12CS-0M630021-SO3
Date Collected: 11/24/14 14:203
Date Received: 11/25/14 10:153

Lab Sample ID: 240-44732-M3 63atrix: Solid3 9 ercent SolidP: s7.s3

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	Batch3	Batch3		Dilution3	Batch3	9 reparedi3		
93ep Type3	Туре3	63ethod3	Run	Factor3	Number3	or Analyzed3	AnalyPt3	Labi3
Totalj9A1	I/1g11 reM1	Increment, 1 reM1			3p66221	33j2pj34 35:701	DSJ1	TAL CA9
Totalj9A1	reM1	70p0V1			3pN0321	32j03j34 30:p51	D8 <b>8</b> 1	TAL CA9
Totalj9A1	AnalEsis1	y0201		301	3pNpy31	32j04j34 33:431	Ag1g121	TAL CA9
Totalj9A1	l/1g11 reM1	Increment, 1reM1			3p66221	33j2pj34 35:701	DSJ1	TAL CA9
Totalj9A1	AnalEsis1	g1oistBre1		31	3p6NpN1	32j03j34 06:461	K/1	TAL CA9

### Laboratory ReferenceP:3

TAL CA9 = TestAmerica Canton, 4303 /1hBffel /1treet 9 W, 9 orth Canton, OH 44520, T81 (770)4N5-N7Ny1

# **Certification Summary**

# Client: Leidos, Inc.1 1 roॡctj/1ite: SRAA1 VBildinu 3200 and ATA Semedial Act1

### TestAmerica Job ID: 240-44672-3

### Laboratory: TestAmerica Canton

All certigications field bh tfis laboratorh are listed. ybt all certigications are aNNicable to tfis reNort.1

Authority Program		EPA Region	Certification ID	Expiration Date	
Caligornia1	y 9 1A 1	p1	03344CA1	0E-70-34 *1	
Caligrnia1	/1tate 1rouram1	p1	2p251	04-70-3H1	
ConnecticBt1	/1tate 1rouram1	31	F10Hp01	32-73-341	
8lorida1	y191A1	41	96522H1	0E-70-3H1	
Georuia1	/1tate 1 rouram1	41	y jA1	0E-70-3H1	
Illinois1	y191A1	H1	2000041	05-73-3H1	
Kansas1	y191A1	51	943077E1	03-73-3H1	
KentBckh (U/1T)1	/1tate 1rouram1	41	H61	0E-70-3H1	
-A-V1	DoD 91 A1		273H1	05-36-3E1	
Minnesota1	y191A1	H1	07p-ppp-7461	32-73-341	
y1evada1	/1tate 1 rouram1	р1	OF-000462006A1	05-73-3H1	
yfew Jerseh1	y191A1	21	OF 0031	0E-70-3H1	
y1ew York1	y191A1	21	30p5H1	07-73-3H1	
Of1o RA1	/1tate 1rouram1	H1	CL00241	30-73-3H1	
ennshlvania1	y191A1	71	E6-007401	06-73-3H1	
Texas1	y191A1	E1		06-73-3H1	
U/1DA1	8ederal1		770-37-0073p1	33-2E-3E1	
Riruinia1	y191A1	71	4E035H1	0p-34-3H1	
Wasf1nuton1	/1tate 1 rouram1	301	Cp531	03-32-3H1	
West Riruinia D91	/1tate 1 rouram1	71	2301	32-73-341	
Wisconsin1	/1tate 1 rouram1	H1	pppH363p01	06-73-3H1	

* Certigication renewal Nendinu - certigication considered valid.1



THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

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# CHAIN OF CUSTODY AND RECEIVING DOCUMENTS



240-44832 Chain of Custody

4101 Chuffal Chroat NIW North Canton OH 44720 tel 330 497 9396 fax 330 497 0772 www.testamericainc.com
RVAAP-RA- <del>0//</del> Date: @.///24///4	Image: State of the state o	
(0.6 Page 1 of 1	Requested Patameters A Contained Patameters A Containers A Containers	13
Chain of Custody Record	201, Twinsburg, OH 44087 Confirmation Sampling 2.001 PO10025302 Printed Name) Printed Name)	
<b>Meidos</b>	Narrie: Leidos Address: 8866 Commons Blvd, Suite 201, Twinsburg, 0H 44087 Phone Number: 330-405-5802 Project Manager: Jed Thomas Project Manager: Jed Thomas Brites: 056M 0022-S0 Brites: 056M 0-1 Brites: 057M 0-1 Brites: 056M 0-2 Brites: 056M 0-2 Brites: 056M 0-2 Brites: 056M 0-1 Brites: 056M 0-2 Brites: 056M 0-2 Brit	Teidos, Inc. 2014

Client Leiders Site Name	Cooler unpacked by:
Cooler Received on 11/25/11 Opened on 10(2x/	119 Zhablerty
FedEx: f ¹ Grd Exp (UPS) FAS Stetson Client Drop Off TestAr	merica Courier Other
	prage Location
Receipt After-hours:         Drop-off Date/Time         Sto           TestAmerica Cooler #         Foam Box         Client Cooler         Box	
Packing material used: Bubble Wrap Foam Plastic Bag Non	
COOLANT: Wet Ice Blue Ice Dry Ice Water Non	(73)
1. Cooler temperature upon receipt	
IR GUN# A (CF +4.0 °C) Observed Cooler Temp. °C Corr	rected Cooler Temp°C
IR GUN# 4 (CF +1.2 °C) Observed Cooler Temp °C Cor	
IR GUN# 5(CF_+0.4 °C) Observed Cooler Temp. 106°C Cor	rected Cooler Temp. <u>/// 0</u> °C Cooler Form
IR GUN# 8 (CF +0.7 °C) Observed Cooler Temp°C Cor	rrected Cooler Temp°C
2. Were custody seals on the outside of the cooler(s)? If Yes Quantity	YES No
-Were custody seals on the outside of the cooler(s) signed & dated?	No NA
-Were custody seals on the bottle(s)?	Yes END
3. Shippers' packing slip attached to the cooler(s)?	No
4. Did custody papers accompany the sample(s)?	Ces No
5. Were the eustody papers relinquished & signed in the appropriate place?	Cos No
	G
6. Did all bottles arrive in good condition (Unbroken)?	Ves No
7. Could all bottle labels be reconciled with the COC?	No
8. Were correct bottle(s) used for the test(s) indicated?	No No
9. Sufficient quantity received to perform indicated analyses?	(Yes) No
10. Were sample(s) at the correct pH upon receipt?	Yes No NA pH Strip Lot# HC425511
11. Were VOAs on the COC?	Yes 🔊
12. Were air bubbles >6 mm in any VOA vials?	Yes No NA
13. Was a trip blank present in the cooler(s)?	Yes No
Contacted PM Date by Concerning	via verbal voice Mail Other
Concerning	1
14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES	Samples processed by:
	(h)
-	Q.1
the second s	
15. SAMPLE CONDITION	
Sample(s) were received after the received	commended holding time had expired.
Sample(s)	were received in a broken container.
Sample(s) were received with	bubble >6 mm in diameter. (Notify PM)
	subort - v min in diamotor, (roury 1 m)
16. SAMPLE PRESERVATION	
Sample(s) Time preserved:Preservative(s) added/Lot number(s):	were further preserved in the laboratory.

____

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

13

# Loeb, Mark

From:	Sprinzl, Rich [RICHARD.E.SPRINZL@leidos.com]
Sent:	Wednesday, November 26, 2014 1:09 PM
То:	Loeb, Mark; Bette Premo (bette.premo@white-water-associates.com)
Cc:	Vance, Jenny L.; Thomas, Jed H.; Simpson, Marie A.; Ryan, Pat F.
Subject:	Leidos- RVAAP B1200/ATA RA- COC Correction
Importance:	High
Attachments	: RVAAP-RA-04 Rev 11262014.pdf

Mark,

Please advise lab staff that I had to make a correction to COC # RVAAP-RA-04 (attached). B12cs-022M-0021-SO needs to be revised to B12cs-066M-0021-SO

Also, please forward Sample confirmation for this COC when available.

Thanks in advance and have a Happy Thanksgiving!

# Rich Sprinzl, P.E. | Leidos

Environmental Engineer | Environmental Restoration Division phone: 330.405-5808 mobile: 330.348.1378 richard.e.sprinzl@leidos.com | leidos.com/engineering

A le	leidos	Chain Leidos, Inc.	of Cus	Chain of Custody Record	Record			COC No.:	: RVAAP-RA- 024	
								Page 1 of 1		XH R
						μ		Requested Parameters		
Address: 8866 Commons Blvd Phone Number: 330-405-5802	Name: Leidos Address: 8866 Commons Blvd., Suite 201, Twinsburg, OH 44087 Phone Number: 330-405-5802	: 201, Twinsbı	urg, OH 4	4087					Test America Address:	
Project Manager: Jed Thomas Project Name: Building 1200/A	Project Manager: Jed Thomas Project Name: Building 1200/ATA RA Confirmation Sampling	Confirmation	Sampling			(	()		_	1720
Sampler (Signature)	Sampler (Signature)			ne)		§A) 2A ISI	(A) nM Isi		of Fax: 330-497-0772	g
Laboratory Nd	C Field Semple 4	Location ID	Depth	Date	Time Matrix	_	0T w		2 OBSERVATIONS, COMMENTS SPECIAL INSTRUCTIONS	AMENTS
	B12cs-056M-0022-SO	B	1-0-1	MhZIII	10	-	×		/ ISM Processing Right	E
	B12cs-057M-0023-SO	O B12cs-057M	0-1			S	×		/ ISM Processing	
	B12cs-058M-0024-SO	O B12cs-058M	0-1			S	×		/ ISM Processing	JXC.
	B12cs-059M-0025-SO	O B12cs-059M	0-1		-	S	×		/ ISM Processing	X
	B12cs-05/610026FD	D BIZcs-OSTAN	1 0-1	>	-	S	×		/ ISM Processing	
	RIZCS-DAM-M21-	Tartin ZI-SO RITE-DAM	1-0 4	5	1420		X		7 KM QNOCON	R
	contractan	3								
		1200	The ar							
		)	11.2 11							
	0									
Relinquished by	//	Date	Received by	×			Date	Subtotal Number of Containers:	7	
X	>	pilpolil	11/4	Y			11/2/11	//V/Notes: Total	Shipment Method: CPS	6
Signature	14	1 1/2/	Signature	-			1.1.	A LODALL 20	S NOTED OTHERWISE ABOVE	
KichSi	Drinz	Time	/	6			Time	TRUSH 3DAY TAT REQUESTIMMENTING 49F 22 INVITSIL	DUESTER WILL 49F 22 10	1/2/00
Printed Name [	/ /	1739	Printed Name	7-	=		0	1) SW 846 354016010B D BIZOD DOPANAREA - North Wall	(1 cooler)	2
Company		1	Company		1			2BIZED Open Area -West Wall		
Relinquished by		Date	Received by	Ň			Date	BIZED OPENATEE - East Wall BIZED OPENATEE - South Wall		
Signature			Signature					OBIZOD OpenArew Floor		
		Time				1	Timo			
Printed Name			Printed Name					VOC = voranie organic compound SVOC = semi-volatile organic compound		
Compary			Company			T		S = Soil/solid matrix		

Page 25 of 25

Leidos, Inc.



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: 240-45339-1

Client Project/Site: RVAAP Building 1200/ATA RA Confirmation

# For:

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

Attn: Jed Thomas

Authorized for release by: 12/16/2014 4:04:28 PM Mark Loeb, Project Manager II (330)966-9387 mark.loeb@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 Project/Site: RVAAP Building 1200/ATA RA Confirmation.

TestAmerica Job ID: 240-45339-1.

# QualifiersG

# Metals

Wetais	
Qualifier	Qualifier Description
D.	The reported value is from a dilution.
J.	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteri.
4.	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not . pplicable.a
U.	Undetected at the Limit of Detection.a

# lossaryG

Abbreviation	These commonly used abbreviations may or may not be present in this report.	
¤.	Listed under the "D" column to designate that the result is reported on a dry weight basis.	
%R.	Percent Recovery.	
CFL.	Contains Free Liquid.	
CNF.	Contains no Free Liquid.	
DER.	Duplicate error ratio (normalized absolute difference).	
Dil Fac.	Dilution Factor.	
DL, RA, RE, IN.	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample.	
DLC.	Decision level concentration.	
MDA.	Minimum detectable activity.	
EDL.	Estimated Detection Limit.	13
MDC.	Minimum detectable concentration.	
MDL.	Method Detection Limit.	
ML.	Minimum Level (Dioxin).	
NC.	Not Calculated.	
ND.	Not detected at the reporting limit (or MDL or EDL if shown).	
PQL.	Practical Quantitation Limit.	
QC.	Quality Control.	
RER.	Relative error ratio.	
RL.	Reporting Limit or Requested Limit (Radiochemistry).	
RPD.	Relative Percent Difference, a measure of the relative difference between two points.	
TEF.	Toxicity Equivalent Factor (Dioxin).	
TEQ.	Toxicity Equivalent Quotient (Dioxin).	

#### Job ID: 240-45339-1vS

#### Laboratory: TestAmerica CantonS

NarrativeS

# **CASE NARRATIVES**

**Client: Leidos, Inc.S** 

# Project: RVAAP Building 1200/ATA RA ConfirmationS

#### Report Number: 240-45339-1S

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples an1 no 1 problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control 1 limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of 1 the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, 1 the reporting limits are adjusted relative to the dilution required.1

Calculations are performed before rounding to avoid round-off errors in calculated results.1

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed1n the 1 individual sections below.1

TestAmerica utilizes USEPA approved methods and DOD QSM, where applicable, in all analytical work. The samples presented in this 1 report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. A 1 summary of QC data for these analyses is included at the back of the report. 1

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses 1 performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the 1 applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and tdata 1 have been found to be compliant with laboratory protocols unless otherwise noted below. 1

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the 1 method header.1

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.1

All parameters for which TestAmerica North Canton has certification were evaluated to the limit of detection (LOD) and include qualified 1 results where applicable. Parameters not certified under QSM, if any, were evaluated to the detection limit (DL) and include qualified 1 results where applicable.1

The sample(s) that contain constituents flagged with U are undetected. The result associated with this flag is the limit of detection (LOD).1

#### <u>RECEIPT</u>S

The samples were received on 12/10/2014; the samples arrived in good condition, properly preserved. The temperature of the coolers at 1 receipt was 5.7 C.1

#### TOTAL METALS (ICPMS) WITH INCREMENTAL SAMPLE PREPARATIONS

Samples B12CS-068M-0038-SO (240-45339-2), B12CS-070M-0040-SO (240-45339-4) and B12CS-073M-0043-SO (240-45339-8) were 1 analyzed for total metals (ICPMS) with incremental sample preparation in accordance with ITRC Technical and Regulatory Guidance: ISM, 1 February 2012 and EPA SW-846 Method 6020 DoD. The samples began the drying process on 12/10/2014. Sample matrices were not 1 ready for ISM processin (grinding) until 12/15/2014, they were 1igested on 12/15/2014 and analyzed on 12/16/2014. 1

Manganese failed the recovery criteria low for the MS of sample B12CS-068M-0038-SOMS (240-45339-2) in batch 240-161313.1

### Client: Leidos, Inc.1 Project/Site: RVAAP Building 1200/ATA RA Confirmation1

13

# Job ID: 240-45339-1 (Continued)vS

### Laboratory: TestAmerica Canton (Continued)S

Samples B12CS-068M-0038-SO (240-45339-2)[10X], B12CS-070M-0040-SO (240-45339-4)[10X] and B12CS-073M-0043-SO 1 (240-45339-8)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.1

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.1

#### TOTAL SOLIDS/PERCENT MOISTURES

Samples B12CS-068M-0038-SO (240-45339-2), B12CS-070M-0040-SO (240-45339-4) and B12CS-073M-0043-SO (240-45339-8) were 1 analyzed for Total Solids/Percent Moisture in accordance with Percent Moisture method. The samples were leached on 12/10/2014 and 1 analyzed on 12/15/2014. 1

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.1

# **Method Summary**

# Client: Leidos, Inc Project/Site: RVAAP Building 1200/ATA RA Confirmation.

Method	Method Description	Protocol	Laboratory
6020.	Metals (ICP/MS).	SW846	TAL CAN.
Moisture.	Percent Moisture.	EPA.	TAL CAN.

#### Protocol References:

EPA = US Environmental Protection Agency.

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

#### Laboratory References:

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

# Sample Summary

Client: Leidos, Inc Project/Site: RVAAP Building 1200/ATA RA Confirmation. TestAmerica Job ID: 240-45339-1.

Lab Sample ID	Client Sample ID	Matrix	Collected Received	d
240-45339-2.	B12CS-068M-0038-SO.	Solid.	12/10/14 11:30. 12/10/14 14	4:00.
240-45339-4.	B12CS-070M-0040-SO.	Solid.	12/10/14 11:50. 12/10/14 14	4:00.
240-45339-8.	B12CS-073M-0043-SO.	Solid.	12/10/14 12:25. 12/10/14 14	4:00.

TestAmerica Canton.

# **Detection Summary4**

Client: Leidos, Inc Project/Site: RVAAP Building 1200/ATA RA Confirmation. TestAmerica Job ID: 240-45339-1.

Client Sample ID: B12	CS-068M-0038-SO4			Lab Sample ID	Prep Type4 Total/NA
Analyte4	Result4 Qualifier4	LOQ4	DL4 Unit4	Dil Fac4 D4 Method4	Prep Type4
Manganese.	4200. D J	5.1.	0.61. mg/Kg.	10. 🔅 6020.	Total/NA
Client Sample ID: B12	CS-070M-0040-SO4			Lab Sample ID	): 240-45339-4
Analyte4	Result4 Qualifier4	LOQ4	DL4 Unit4	Dil Fac4 D4 Method4	Prep Type4
Manganese.	1000. D	4.7.	0.56 mg/Kg.	10. 🔅 6020.	Total/NA
Client Sample ID: B12	CS-073M-0043-SO4			Lab Sample ID	): 240-45339-84
Analyte4	Result4 Qualifier4	LOQ4	DL4 Unit4	Dil Fac4 D4 Method4	Prep Type4
Manganese.	1700. D	4.8.	0.58. mg/Kg.	10. 🔅 6020.	Total/NA

TestAmerica Canton.

## Client: Leidos, Inc Project/Site: RVAAP Building 1200/ATA RA Confirmation.

TestAmerica Job ID: 240-45339-1.

Client Sample ID: 1rB2CS-05MD-	007MSr					Lab Sample ID: 240-46773-2r					
Date Cdlle/rtec: B29B09B4 BB:70r						-	Or txi	io: Sdlicr			
Date Re/reivec: B2980984 B4:00r							Pex/rent Sdlid	cs: 35.5r			
Oethdc: 5020 - Oetals (ICP90S)r Analyter	Resultr Qualifiexr	Lr Q	DLr	r Unitr	Dr	Pxepaxecr	Analyzecr	Dil Fa/r			
Or nganeser	4200r D Jr	5.1.	0.61.	mg/Kg.	<u></u>	12/15/14 12:26.	12/16/14 11:19.	10.			
Genexrl Chemistxyr											
Analyter	Resultr Qualifiexr	Lr Q	DLr	r Unitr	Dr	Pxepaxecr	Analyzecr	Dil Fa/r			
Pex/rent Sdlicsr	38r	0.10.	0.10.	%			12/15/14 12:47.	1.			
Pex/rent Odistuxer	7.4r	0.10.	0.10.	%			12/15/14 12:47.	1.			

TestAmerica Canton.

## Client: Leidos, Inc Project/Site: RVAAP Building 1200/ATA RA Confirmation.

TestAmerica Job ID: 240-45339-1.

Client Sample ID: 11B2CS-080O-	0040-Sr					Lab Sam	ple ID: 240-40	6773-4r
Date Colle/rtec: B29B09B4 BB:60r							Or txi	o: Sdlicr
Date Re/reivec: B2980984 B4:00r							Pex/rent Sdlig	cs: 38.6r
Oethdc: 5020 - Oetals (ICP90S)r Analyter	Resultr Qualifiexr	Lr Q	DLr	Unitr	Dr	Pxepaxecr	Analyzecr	Dil Fa/r
Or nganeser	B000r Dr	4.7.	0.56.	mg/Kg.	<u></u>	12/15/14 12:26.	12/16/14 11:38.	10.
Genexrl Chemistxyr								
Analyter	Resultr Qualifiexr	Lr Q	DLr	Unitr	Dr	Pxepaxecr	Analyzecr	Dil Fa/r
Pex/rent Sdlicsr	3Mr	0.10.	0.10.	%			12/15/14 12:47.	1.
Pex/rent Odistuxer	2.6r	0.10.	0.10.	%			12/15/14 12:47.	1.

TestAmerica Canton.

## Client: Leidos, Inc Project/Site: RVAAP Building 1200/ATA RA Confirmation.

TestAmerica Job ID: 240-45339-1.

Client Sample ID: 11B2CS-087O-	0047-Sr					Lab Sam	ple ID: 240-40	6773-Mi
Date Cdlle/rtec: B29B09B4 B2:26r							Or txi	o: Sdlicr
Date Re/reivec: B2980984 B4:00r							Pex/rent Sdlig	cs: 38.7r
Oethdc: 5020 - Oetals (ICP90S)r Analyter	Resultr Qualifiexr	Lr Q	DLr	Unitr	Dr	Pxepaxecr	Analyzecr	Dil Fa/r
Or nganeser	B800r Dr	4.8.	0.58.	mg/Kg.	<u></u>	12/15/14 12:26.	12/16/14 11:42.	10.
Genexrl Chemistxyr								
Analyter	Resultr Qualifiexr	Lr Q	DLr	Unitr	Dr	Pxepaxecr	Analyzecr	Dil Fa/r
Pex/rent Sdlicsr	38r	0.10.	0.10.	%			12/15/14 12:47.	1.
Pex/rent Odistuxer	2.8r	0.10.	0.10.	%			12/15/14 12:47.	1.

# QC Sample Resultsk

# Client: Leidos, Inc Project/Site: RVAAP Building 1200/ATA RA Confirmation.

# Method: 6020 - Metals (ICP/MS)Rk

Lab Sample ID: MB 240-161045/1-A Matrix: Solidk	^2k					Client Sa	mple ID: Method Prep Type: To	
Analysis Batch: 161313k							Prep Batch:	
Analysis Batch. 101313K	MBk MBk						Frep Batch.	1010456
Analytek	Resultk Qualifierk	L	.OQk DLk Unitk		Dk Pi	reparedk	Analyzed	Dil Fac
Manganese.	0.40. U.		1.0. 0.12. mg/Kg	].	12/1	5/14 12:26.	12/16/14 11:12.	2.
Lab Sample ID: LCS 240-161045/2-/	A ^2k				Client	Sample I	D: Lab Control S	Samplek
Matrix: Solidk							Prep Type: To	-
Analysis Batch: 161313k							Prep Batch:	
· ····,···		Spikek	LCSk LCSk				%Rec.k	
Analytek		Addedk	Resultk Qualifierk	Unitk	Dk	%Rec	Limitsk	
Manganese.		100.	79.9. D.	mg/Kg.		80.	80120.	
Lab Sample ID: 240-45339-2 MSk					Client S	ample ID:	: B12CS-068M-0	)38-SOk
Matrix: Solidk							Prep Type: To	
Analysis Batch: 161313k							Prep Batch:	
	Samplek Samplek	Spikek	MSk MSk				%Rec.k	
Analytek	sultk Qualifierk	Addedk	Resultk Qualifierk	Unitk	Dk	%Rec	Limitsk	
Manganese.	4200. D J.	10.2.	3800. D 4.	mg/Kg.	<u>Å</u>	-3930.	10199.	
Lab Sample ID: 240-45339-2 DUk					Client S	ample ID:	: B12CS-068M-0	)38-SOk
Matrix: Solidk							Prep Type: To	otal/NAk
Analysis Batch: 161313k							Prep Batch:	
	Samplek Samplek		DUk DUk					PDk
Analytek	sultk Qualifierk		Resultk Qualifierk	Unitk	Dk		PDk	Limitk
Manganese.	4200. D J.		3950. D.	mg/Kg.	\		6.	20.

# **QC Association SummaryD**

## Client: Leidos, Inc Project/Site: RVAAP Building 1200/ATA RA Confirmation.

TestAmerica Job ID: 240-45339-1.

# MetalstD

# ISM Prep Batch: 161021D

Lab Sample ID	Client Sample ID	Prep TypeD	MatrixD	MethodD	Prep BatchD
240-45339-2.	B12CS-068M-0038-SO.	Total/NA.	Solid.	Increment, Prep.	
240-45339-2 DU.	B12CS-068M-0038-SO.	Total/NA.	Solid.	Increment, Prep.	
240-45339-2 MS.	B12CS-068M-0038-SO.	Total/NA.	Solid.	Increment, Prep.	
240-45339-4.	B12CS-070M-0040-SO.	Total/NA.	Solid.	Increment, Prep.	
240-45339-8	B12CS-073M-0043-SO.	Total/NA.	Solid.	Increment, Prep.	

### Prep Batch: 161045D

Lab Sample ID	Client Sample ID	Prep TypeD	MatrixD	MethodD	Prep BatchD
240-45339-2.	B12CS-068M-0038-SO.	Total/NA.	Solid.	3050B.	161021.
240-45339-2 DU.	B12CS-068M-0038-SO.	Total/NA.	Solid.	3050B.	161021.
240-45339-2 MS.	B12CS-068M-0038-SO.	Total/NA.	Solid.	3050B.	161021.
240-45339-4.	B12CS-070M-0040-SO.	Total/NA.	Solid.	3050B.	161021.
240-45339-8	B12CS-073M-0043-SO.	Total/NA.	Solid.	3050B.	161021.
LCS 240-161045/2-A ^2.	Lab Control Sample.	Total/NA.	Solid.	3050B.	
MB 240-161045/1-A ^2.	Method Blank.	Total/NA.	Solid.	3050B.	

### Analysis Batch: 161313D

Lab Sample ID	Client Sample ID	Prep TypeD	MatrixD	MethodD	Prep BatchD
240-45339-2.	B12CS-068M-0038-SO.	Total/NA.	Solid.	6020.	161045.
240-45339-2 DU.	B12CS-068M-0038-SO.	Total/NA.	Solid.	6020.	161045.
240-45339-2 MS.	B12CS-068M-0038-SO.	Total/NA.	Solid.	6020.	161045.
240-45339-4.	B12CS-070M-0040-SO.	Total/NA.	Solid.	6020.	161045.
240-45339-8	B12CS-073M-0043-SO.	Total/NA.	Solid.	6020.	161045.
LCS 240-161045/2-A ^2.	Lab Control Sample.	Total/NA.	Solid.	6020.	161045.
MB 240-161045/1-A ^2.	Method Blank.	Total/NA.	Solid.	6020.	161045.

# **General ChemistryD**

# Analysis Batch: 160973D

Lab Sample ID	Client Sample ID	Prep TypeD	MatrixD	MethodD	Prep BatchD
240-45339-2.	B12CS-068M-0038-SO.	Total/NA.	Solid.	Moisture.	161021.
240-45339-4.	B12CS-070M-0040-SO.	Total/NA.	Solid.	Moisture.	161021.
240-45339-8	B12CS-073M-0043-SO.	Total/NA.	Solid.	Moisture.	161021.

### ISM Prep Batch: 161021D

Lab Sample ID	Client Sample ID	Prep TypeD	MatrixD	MethodD	Prep BatchD
240-45339-2.	B12CS-068M-0038-SO.	Total/NA.	Solid.	Increment, Prep.	
240-45339-4.	B12CS-070M-0040-SO.	Total/NA.	Solid.	Increment, Prep.	
240-45339-8	B12CS-073M-0043-SO.	Total/NA.	Solid.	Increment, Prep.	

Client: Leidos, Inc.1 Project/Site: RVAAP Building 1200/ATA RA ConNitmation1

Lab Sample ID: 270-7300x-73

Lab Sample ID: 270-7300x-M3

63atrid: Soli/3

63atrid: Soli/3

Percent Soli/3s: x8.O3

Percent Soli/3s: x8.3

Client Sampl		-05M6300CM-S4	3				I	Lab Samp	le ID: 270-7300x-23 63atrid: Soli/3
Date Receive/3									Percent Soli/3s: x5.53
_	Batch3	Batch3		Dilution3	Batch3	Prepare/3			
Prep Type3	Туре3	63etho/3	Run	Factor3	Number3	or Analyze/3	Analyst3	Lab3	
Total/NA1	ISp1Pre51	Increment, Pre5			191021	12/10/14 16:001	DRJ	TAL CAN1	-
Total/NA1	Pre51	7060B			91046	2/16/14 12:29	D8 <b>8</b> 1	TAL CAN1	
Total/NA1	AnalEsis1	9020		0	191717	2/19/14 1 :131	Ap1p121	TAL CAN1	
Total/NA1	ISp1Pre51	Increment, Pre51			91021	12/10/14 16:001	DRJ1	TAL CAN1	
Total/NA1	AnalEsis1	p1bisture1			903y7	2/16/14 12:4y1	KS1	TAL CAN1	

### Client Sample ID: B12CS-080630070-S43 Date Collecte/3 12910917 11:303 Date Receive/3 12910917 17:003

	Batch3	Batch3		Dilution3	Batch3	Prepare/3		
Prep Type3	Type3	63etho/3	Run	Factor3	Number3	or Analyze/3	Analyst3	Lab3
Total/NA1	ISp1Pre51	Increment, Pre51			191021	2/10/14 16:001	DRJ	TAL CAN1
Total/NA1	Pre51	7060B			91046	2/16/14 12:29	D8 <b>8</b> 1	TAL CAN1
Total/NA1	AnalEsis1	9020		0	191717	2/19/14 1 :7=1	Ap1p121	TAL CAN1
Total/NA1	ISp1Pre51	Increment, Pre51			91021	12/10/14 16:001	DRJ1	TAL CAN1
Total/NA1	AnalEsis1	p1oisture1			903y7	2/16/14 12:4y1	KS1	TAL CAN1

# Client Sample ID: B12CS-080630070-S43 Date Collecte/3 12910917 12:23 Date Receive/3 12910917 17:003

	Batch3	Batch3		Dilution3	Batch3	Prepare/3		
Prep Type3	Type3	63etho/3	Run	Factor3	Number3	or Analyze/3	Analyst3	Lab3
Total/NA1	ISp1Pre51	Increment, Pre51			191021	2/10/14 16:001	DRJ	TAL CAN1
Total/NA1	Pre51	7060B			91046	2/16/14 12:29	D881	TAL CAN1
Total/NA1	AnalEsis1	9020		0	191717	2/19/14 1 :421	Ap1p121	TAL CAN1
Total/NA1	ISp1Pre51	Increment, Pre51			91021	12/10/14 16:001	DRJ1	TAL CAN1
Total/NA1	AnalEsis1	p1bisture1			903y7	2/16/14 12:4y1	KS1	TAL CAN1

#### Laboratory References:3

TAL CAN h TestAmerica Canton, 4101 Sf1uWel Street NW, Nortf1Canton, OH 44y20, T81 (770)43y-3739

# **Certification Summary**

# Client: Leidos, Inc.1 Project/Site: RVAAP Building 1200/ATA RA Confirmation1

### TestAmerica Job ID: 240-46773-1

### Laboratory: TestAmerica Canton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.1

Authority	Program	EPA Region	Certification ID	Expiration Date
California1	N91AP1	31	01 44CA1	0E-70-14 *1
California1	State Program1	31	23251	04-70-161
Connecticut1	State Program1		PH-0630	12-71-141
Florida1	N91 AP1	41	9852261	0E-70-161
Georgia1	State Program1	41	N/A1	0E-70-161
Illinois1	N91 AP1	61	2000041	05-71-161
Kansas1	N91 AP1	51	911077E1	01-71-161
Kentucky (UST)1	State Program1	41	681	0E-70-161
-A-B1	DoD 91 AP1		27161	05-18-1E1
Minnesota1	N91 AP1	61	073-333-748	12-71-141
Nevada1	State Program1	31	OH-000482008A1	05-71-161
New Jersey1	N91 AP1	21	OH001	0E-70-161
New York1	N91 AP1	2	103561	07-71-161
Ohio VAP1	State Program1	61	CL0024	10-71-161
Pennsylvania1	N91 AP1	71	E8-007401	08-71-161
Texas1	N91 AP1	E1		08-71-161
USDA1	Federal1		P770-17-00713	11-2E-1E1
Virginia1	N91 AP1	71	4E01561	03-14-161
Washington1	State Program	101	C351	01-12-161
West Virginia D9P1	State Program1	71	210	12-71-141
Wisconsin1	State Program1	61	3336181301	08-71-161

* Certification renewal pending - certification considered vali1.1



THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

13

# CHAIN OF CUSTODY AND RECEIVING DOCUMENTS



4101 Shuffel Street, N.W. North Canton, OH 44720 Page 16 of 18 tel 330.497.9396 fax 330.497.0772 www.testamericainc.com

COC No.: RVAAP-RA-05	l VI ( UAIG.		o of Contain	2 OBSERVATIONS, COMMENTS SPECIAL INSTRUCTIONS	1 Hold and in and in and in and in and in a		1 Hold Dending angles is		1 Hold Junding analysis	1 1 1400 Ending analysis	10		1 Had rendring analysis		Subtotal Number of Containers: Q	12-10-24 Notes: Total Shipment Method:	AND PROCESSING REQUIRED FOR ALL SAMPLES, EVEN HOLD PENDING ANALYSIS SAMPLES. UNLESS NOTED OTHERWISE ABOVE		Methods: 11. SNV 846 3540/6010B ·		PLOCE SSAILS AMPLUS WITH	(ISM			S = Soil/solid matrix
	-		(†) aA listo (†) nM listo	oT o		X	*	×	×	×	×	×	×		Date	1-21		7 Time	Par 1	12/	Date		Time	Ê	
Record	_		0	Time	1120 S	1130 1	1140	115Ø	1200	0021	1215	1225	1235		Z	lum.	t	Inrhe.	then	0					
Chain of Custody Record		irg, OH 44087 Sampling	(Printed Name)	-	0-1 12110/14	0-1 1									Received by S	Staklar	Signature	Vakat	Printed Name TA - CM	Company	Received by	Signature		rinted name	Company
Chain C Leidos, Inc.		01, Twinsbu onfirmation	Prin	Location ID	1.2.4	12000	BIRSDOM	BILCS - ON OB	Biles-0910	BUS-DIN	ma-song a	Biles-offen	and any		Date	12/10/14		Time	dahl	_	Date	_	Time		_
leidos		9 11 7 7 7	Sample (Signature) (Printed N	Labbatory No. Freid Sample #	B12cc - BOM-0037-50	BUS-DOM-DOSS-SU	BICS-ORM-DOR SD BIRS-ORM	BACS-WIGM-OCHASS BILLS - MOM	BIRCS-@91M-ap41-S& BRGS-091M	B12cs-071m-0045-50 Ble-071m	8142-092m-0042-0 BRes-000m	Bile-0Bm-004-50 Bre-0Bn	BI2SS-004m-0094-50 BI2SS-004m		Relinduished by	1 Burn	(a) and a constant of the cons	HATA AAAS		Company	Relinquished by	Signature		Franted Name	Company

12/ 0/20

TestAmerica Canton Sample Receipt Form/Narrativ Canton Facility		Login # :
Client Jeioles Site Na		- Cooler unpacked by:
Cooler Received on 12-/10/14 Opened	on 10/10/14	Hather Fower
FedEx: f ^t Grd Exp UPS FAS Stetson Client D Receipt After-hours: Drop-off Date/Time	rop Of TestAmerica Co Storage Loc	
TestAmerica Cooler # Foam Box Chien		her
Packing material used: Bubble Wrap Foam P		her
COOLANT: Wet Ice Blue Ice Dry Ice		NEW CONTRACTOR
1. Cooler temperature upon receipt	$\smile$	
IR GUN# A (CF +4.0 ℃) Observed Cooler Tem		
IR GUN# 4 (CF +1.2 °C) Observed Cooler Tem		
IR GUN# 5 (CF +0.4 °C) Observed Cooler Tem IR GUN# 8 (CF +0.7 °C) Observed Cooler Tem	p. C Corrected Co	coler Temp. °C Cooler Form
2. Were custody seals on the outside of the cooler(s)?		
-Were custody seals on the outside of the cooler(s) sig		(Tes) No NA
-Were custody seals on the bottle(s)?		Yes to
3. Shippers' packing slip attached to the cooler(s)?		No No
4. Did custody papers accompany the sample(s)?	and the state of t	(C) No
5. Were the custody papers relinquished & signed in the a	ppropriate place?	Opes No
6. Did all bottles arrive in good condition (Unbroken)?		(Ves No
<ol> <li>Could all bottle labels be reconciled with the COC?</li> </ol>		ALCO NO
8. Were correct bottle(s) used for the test(s) indicated?		No No
9. Sufficient quantity received to perform indicated analy	ses?	Ves No
10. Were sample(s) at the correct pH upon receipt?		Yes No (NA) pH Strip Lot# <u>HC425511</u>
11. Were VOAs on the COC?		Yes NO
<ul><li>12. Were air bubbles &gt;6 mm in any VOA vials?</li><li>13. Was a trip blank present in the cooler(s)?</li></ul>		Yes No (MA) Yes (No)
		100
Contacted PM Date	y via Ve	erbal Voice Mail Other
Concerning		
14. CHAIN OF CUSTODY & SAMPLE DISCREPANC	IES	Samples processed by:
		HV.
n - 191 - 191 - 191 - 191 - 191 - 191 - 191 - 191 - 191 - 191 - 191 - 191 - 191 - 191 - 191 - 191 - 191 - 191 -		V· /
15. SAMPLE CONDITION	1 1 0 1	11.12
Sample(s) were rec		ed holding time had expired. received in a broken container.
Sample(s) w	Contraction of the second seco	
	ere received with bubble >	o min in diameter. (Notity PM)
16. SAMPLE PRESERVATION		
Sample(s) Time preserved: Preservative(s) added/Lot r	umhar(a);	were further preserved in the laboratory.
rime preserved:Preservative(s) added/Lot r	under(s):	

Ref: SOP NC-SC-0005, Sample Receiving L:\QAQC\QA Department\QA TARDIS\Document Control\Work Instructions\W1_QA use only\W1-NC-099M-110614 Cooler Receipt Form.doc djl

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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: 240-45339-2

Client Project/Site: RVAAP Building 1200/ATA RA Confirmation

# For:

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

Attn: Jed Thomas

Authorized for release by: 12/18/2014 2:20:51 PM Mark Loeb, Project Manager II (330)966-9387 mark.loeb@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**

### 1 @el.t: neiLosdII.,

. rolectj/.ite: SRAA. VBiCil.u g200jATA SA 1.ol.firmatiol.

# QualifiersG

### Metals

metals	
Qualifier	Qualifier Description
D.	The reporteL vace is from a Lictiol.,.
J.	EstimateL: The qBal.titatiol. is al. estimatiol. LBe to Liscrepal. ies il. meetil.u certail. al. @te-specific qB. @y col.troCcriteria,.
4.	M/.dM/.D: The al. Oyte presel.t il. the oriuil. Csamp@ is ureater thal. 4 times the matrix spike col. el.tratiol.; thereforedcol.troO0mits are l.ot . ppOcab@,a.
U.	UI.LetecteL at the nimit of Detectiol.,a.

# lossaryG

Abbreviation	These commonly used abbreviations may or may not be present in this report.	
¤.	nisteL BI.Ler the "D" co@ml. to Lesiul.ate that the resBC is reporteL ol Lry weiuht basis.	
%S.	ercel.t Secovery.	
1.Fn.	1.ol.tail.s Free niqBiL.	
1.NF.	1.ol.tail.s I.o Free niqBiL.	
DES.	DBp@cate error ratio (I.orma@zeL abso@te Lifferel. e).	
Di0Fac.	Di <b>B</b> tiol. Factor.	
DndSAdSEdIN.	II. Licates a Di@tiol.dSe-al. QysisdSe-extractiol.dor aLLitiol. CII. itiaOmeta@jal.iolI. Qysis of the samp@.	
Dn1.	Decisiol. @veCcol.cel.tratiol.	
MDA.	Mil.imBm Letectab@ activity.	
EDn.	EstimateL Detectiol. nimit.	1
MD1.	Mil.imBm Letectab@ col. el.tratiol.	
MDn.	MethoL Detectiol. nimit.	
Mn.	Mil.imBm neveQDioxil.).	
N1.	Not 1.a@B0teL.	
ND.	Not LetecteL at the reportil.u @nit (or MDn or EDn if showl.).	
Qn.	racticaQQBal.titatiol. nimit.	
Q1.	QB.Qty 1.ol.troC.	
SES.	Se@tive error ratio.	
Sn.	Seportil.u nimit or SeqBesteL nimit (S. Liochemistry).	
S. D.	Se@tive . ercel.t Differel. eda measBre of the re@tive Lifferel. e betweel. two poil.ts.	
TEF.	Toxicity EqBiva@I.t Factor (Dioxil.).	
TEQ.	Toxicity EqBiva@I.t QBotieI.t (Dioxil.).	

#### Job ID: 240-45339-2vS

#### 1aboratorL: yestTA@rima CactocS

NarrativeS

# **CTnS NTEETyIRS**

## CVect: 1e8SosdicmS

# . roPent: ERTT.SjSBSYScu g200/TyT ET CocfirAStiocS

#### Eeport NBASer: 240-45339-2S

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 Bamples, 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 Paboratory 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 IP 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

#### <u>ESCSI.Sy</u>S

The samples were received on 12/10/2014 2:00 PM; the samples arrived in good condition, properly preserved and, where requiredPon P ice. The temperature of the cooler at receipt was 5.7° C.P

#### yOyT1 MSyT1n (IC.SMn) WIyH INCESMSNyT1 nTM.SIS .SES.STETYIONS

Samples B12CS-072M-0042-SO (240-45339-7) and B12CS-074M-0044-SO (240-45339-9) were analyzed for total metals (ICPMS) with P incremental sample preparation in accordance with ITRC Technical and Regulatory Guidance: ISM, February 2012 and EPA SW-846 P Method 6020 DoD. The samples began the drying process on 12/10/2014. Sample matrices were not ready for ISM processing (grind Rg) P until 12/15/2014. Per client request, the samples were prepareP on 12/17/2014 and analyzed on 12/18/2014. P

Manganese failed the recovery criteria high for the MS of sample B12CS-072M-0042-SOMS (240-45339-7) in batch 240-161689. Refer to P the QC report for details.P

Samples B12CS-072M-0042-SO (240-45339-7)[10X] and B12CS-074M-0044-SO (240-45339-9)[10X] required dilution prior to analysis. P The reporting limits have been adjusted accordingly.P

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

## Client: Leidos, Inc.P Project/Site: RVAAP Building 1200/ATA RA ConfirmationP

# Job ID: 240-45339-2 (CocticBelSvS

### 1aboratorL: yestTA@rima Cactoc (CocticBel9vS

# yOyT1 nO1IDn/.S ECSNy MOInyUES

Samples B12CS-072M-0042-SO (240-45339-7) and B12CS-074M-0044-SO (240-45339-9) were analyzed for Total Solids/Percent P Moisture in accordance with Percent Moisture method. The samples were leached on 12/10/2014 and analyzed on 12/17/2014. P

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

TestAmerica CantonP

12/18/2014

# **Method Summary**

1 @el.t: neiLosdll.,

. rolectj/.ite: SRAA. VBiCil.u g200jATA SA 1.ol.firmatiol.

Method	Method Description	Protocol	Laboratory
6020.	Meta© (I1. jM/.).	/ W846	TAn 1.AN.
MoistBre.	ercel.t MoistBre.	E. A.	TAn 1.AN.

#### Protocol References:

E. A = U/. El.virol.mel.t.C. rotectiol. Auel. y.

/.W846 = "Test MethoLs For Eva@.til.u /.o@. Wasted. hysica fl hemica OMethoLs" dThirL ELitiol.dNovember g986 AI.L Its UpLates,.

#### Laboratory References:

TAn 1AN = TestAmerica 1.al.tol.d4g0g /.hBffeO.treet NWdNorth 1.al.tol.dOH 44720dTEn (330)497-9396

# Sample Summary

Client: Leidos, Inc. Project/Site: RVAAP Building 1200/ATA RA ConfirmationP

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-45339-7P	B12CS-072M-0042-SO	SolidP	12/10/14 12:15P	12/10/14 14:00P
240-45339-9P	B12CS-074M-0044-SO	SolidP	12/10/14 12:35P	12/10/14 14:00P

# **Detection Summary3**

Client: Leidos, Inc. roject/Site: RVAAP Building 1200/ATA RA ConfirmationP TestAmerica Job ID: 240-45339-2P

Client Sample ID: B12CS-072M-0042-SO3				Lab Sample ID: 240-453 9-		
 Analyte3	Result3 Qualifier3	LOQ3	DL3 Unit3	Dil Fac3 D3 Method3	Prep Type3	
ManganeseP	1300P D JP	4.9P	0.58 mg/KgP	10P 7 6020P	Total/NA	
Client Sample ID: B120	CS-074M-0044-SO3			Lab Sample ID	: 240-453 9-9	
Analyte3	Result3 Qualifier3	LOQ3	DL3 Unit3	Dil Fac3 D3 Method3	Prep Type3	
ManganeseP	1100P DP	4.9P	0.59P mg/KgP	10P 🔅 6020P	Total/NA	

This Detection Summary does not include radiochemical test results.P

TestAmerica CantonP

## Client: Leidos, Inc. roject/Site: RVAAP Building 1200/ATA RA ConfirmationP

TestAmerica Job ID: 240-45339-2P

Client Sample ID: B52CS-012M-	0042-SOr				Lab Sam	ole ID: 240-46	5773-1r
Date Collected: 52/50/54 52:56r					-	Matrix	x: Solidr
Date Recei.red: 52/50/54 54:00r						9ercent Solid	ls: 31 <b>F2</b> r
Metvod: h020 - Metals (IC9r/MS)r Analyter	Resultr Qualifier	LOQ	DLr Unitr	Dr	9 reparedr	Analyzedr	Dil Facr
Manganeser	5700r D Jr	4.9P	0.58P mg/KgP	<del></del>	12/17/14 10:23P	12/18/14 11:41P	10P
General Cvemistryr							
Analyter	Resultr Qualifier	LOQ	DLr Unitr	Dr	9 reparedr	Analyzedr	Dil Facr
9ercent Solidsr	31r	0.10P	0.10P %P			12/17/14 08:53P	1P
9ercent Moisturer	2Por	0.10P	0.10P %P			12/17/14 08:53P	1P

TestAmerica CantonP

## Client: Leidos, Inc. roject/Site: RVAAP Building 1200/ATA RA ConfirmationP

TestAmerica Job ID: 240-45339-2P

Client Sample ID: B52CS-014M-	Client Sample ID: B52CS-014M-0044-SOr				Lab Sam	mple ID: 240-46773-3	
Date Collected: 52/50/54 52:76r					-	Matrix	x: Solidr
Date Recei.red: 52/50/54 54:00r						9ercent Solid	ls: 31 <b>P</b> hr
Metvod: h020 - Metals (IC9#MS)r Analyter	Resultr Qualifier	LOQ	DLr Unitr	Dr	9 reparedr	Analyzedr	Dil Facr
Manganeser	5500r Dr	4.9P	0.59P mg/KgP	<u></u>	12/17/14 10:23P	12/18/14 12:00P	10P
General Cvemistryr							
Analyter	Resultr Qualifier	LOQ	DLr Unitr	Dr	9 reparedr	Analyzedr	Dil Facr
9ercent Solidsr	38r	0.10P	0.10P %P			12/17/14 08:53P	1P
9ercent Moisturer	2 <b>P</b> r	0.10P	0.10P %P			12/17/14 08:53P	1P

TestAmerica CantonP

# QC Sample Resultsk

# Client: Leidos, Inc. roject/Site: RVAAP Building 1200/ATA RA ConfirmationP

# Method: 6020 - Metals (ICP/MS)Rk

Lab Sample ID: MB 240-161431/1-A Matrix: Solidk	^2k					Client Sa	mple ID: Method Prep Type: To	
Analysis Batch: 161689k							Prep Batch:	
· ····, · · · · · · · · · · · · · · · ·	MBk MBk							
Analytek	Resultk Qualifierk	LC	Qk DLk Unitk		Dk Pi	reparedk	Analyzed	Dil Fac
ManganeseP	0.40P UP	1	.0P 0.12P mg/Kg	gР	12/1	7/14 10:23P	12/18/14 11:34P	2P
Lab Sample ID: LCS 240-161431/2-4	∧ ^2k				Client	Sample I	D: Lab Control S	Samplek
Matrix: Solidk							Prep Type: To	otal/NAk
Analysis Batch: 161689k							Prep Batch:	161431k
		Spikek	LCSk LCSk				%Rec.k	
Analytek		Addedk	Resultk Qualifierk	Unitk	Dk	%Rec	Limitsk	
ManganeseP		100P	99.2P DP	mg/KgP		99P	80₽ 120P	
						and a ID.	D4000 070M 0	
Lab Sample ID: 240-45339-7 MSk Matrix: Solidk					chent 5	ample ID:	B12CS-072M-0	
							Prep Type: To	
Analysis Batch: 161689k	Samplek Samplek	Spikek	MSk MSk				Prep Batch: %Rec.k	161431K
Amelutek	sultk Qualifierk	Addedk	Resultk Qualifierk	Unitk	Dk		Limitsk	
Analytek	1300P D JP	9.70P	1540P D 4P		<u></u>			
ManganeseP	1300PD JP	9.70P	1540P D 4P	mg/KgP	44	2622P	10 ₋ 199P	
Lab Sample ID: 240-45339-7 DUk				(	Client S	ample ID:	B12CS-072M-00	)42-SOk
Matrix: Solidk						1.1	Prep Type: To	
Analysis Batch: 161689k							Prep Batch:	161431k
	Samplek Samplek		DUk DUk					PDk
Analytek	sultk Qualifierk		Resultk Qualifierk	Unitk	Dk		PD	Limitk
ManganeseP	1300P D JP		1480P DP	mg/KgP	<u> </u>		141	20P

# Method: Moisture - Percent Moisturek

Lab Sample ID: 240-45339-7 D Matrix: Solidk Analysis Batch: 161406	Uk			Client Sample I	D: B12CS-07 Prep Ty		
2	Samplek Samplek	DUk DUk					PD
Analytek	sultk Qualifierk	Resultk Qualifierk	Unitk	Dk		PDk	Limit
Percent SolidsP	97P	97P	%P			0P	20P
ercent MoistureP	2.8P	2.8P	%P			1P	20P

TestAmerica CantonP

# **QC Association SummaryD**

## Client: Leidos, Inc. roject/Site: RVAAP Building 1200/ATA RA ConfirmationP

# **MetalstD**

## ISM Prep Batch: 161021D

Lab Sample ID	Client Sample ID	Prep TypeD	MatrixD	MethodD Prep Bate	:hD
240-45339-7P	B12CS-072M-0042-SOP	Total/NAP	SolidP	Increment, PrepP	-
240-45339-7 DUP	B12CS-072M-0042-SOP	Total/NAP	SolidP	Increment, PrepP	
240-45339-7 MSP	B12CS-072M-0042-SOP	Total/NAP	SolidP	Increment, PrepP	
240-45339-9P	B12CS-074M-0044-SOP	Total/NAP	SolidP	Increment, PrepP	

### Prep Batch: 161431D

Lab Sample ID	Client Sample ID	Prep TypeD	MatrixD	MethodD	Prep BatchD
240-45339-7P	B12CS-072M-0042-SOP	Total/NAP	SolidP	3050BP	161021P
240-45339-7 DUP	B12CS-072M-0042-SOP	Total/NAP	SolidP	3050BP	161021P
240-45339-7 MSP	B12CS-072M-0042-SOP	Total/NAP	SolidP	3050BP	161021P
240-45339-9P	B12CS-074M-0044-SOP	Total/NAP	SolidP	3050BP	161021P
LCS 240-161431/2-A ^2P	Lab Control SampleP	Total/NAP	SolidP	3050BP	
MB 240-161431/1-A ^2P	Method BlankP	Total/NAP	SolidP	3050BP	

### Analysis Batch: 161689D

Lab Sample ID	Client Sample ID	Prep TypeD	MatrixD	MethodD	Prep BatchD
240-45339-7P	B12CS-072M-0042-SOP	Total/NAP	SolidP	6020P	161431P
240-45339-7 DUP	B12CS-072M-0042-SOP	Total/NAP	SolidP	6020P	161431P
240-45339-7 MSP	B12CS-072M-0042-SOP	Total/NAP	SolidP	6020P	161431P
240-45339-9P	B12CS-074M-0044-SOP	Total/NAP	SolidP	6020P	161431P
LCS 240-161431/2-A ^2P	Lab Control SampleP	Total/NAP	SolidP	6020P	161431P
MB 240-161431/1-A ^2P	Method BlankP	Total/NAP	SolidP	6020P	161431P

# **General ChemistrytD**

### ISM Prep Batch: 161021D

Lab Sample ID	Client Sample ID	Prep TypeD	MatrixD	MethodD	Prep BatchD
240-45339-7P	B12CS-072M-0042-SOP	Total/NAP	SolidP	Increment, PrepP	
240-45339-7 DUP	B12CS-072M-0042-SOP	Total/NAP	SolidP	Increment, PrepP	
240-45339-9P	B12CS-074M-0044-SOP	Total/NAP	SolidP	Increment, PrepP	
Analysis Batch: 1614	Client Sample ID	Prep TypeD	MatrixD	MethodD	Prep Batch
240-45339-7P	B12CS-072M-0042-SOP	Total/NAP	SolidP	MoistureP	161021F
					1010211

		- F - 2 F			
240-45339-7P	B12CS-072M-0042-SOP	Total/NAP	SolidP	MoistureP	161021P
240-45339-7 DUP	B12CS-072M-0042-SOP	Total/NAP	SolidP	MoistureP	161021P
240-45339-9P	B12CS-074M-0044-SOP	Total/NAP	SolidP	MoistureP	161021P

# Client: Leidos, Inc.1 rorectj/1ite: SRAA1 VBildinu g200jATA SA ConNimation1

Client Samp	le ID: B12CS	6-072M-0042-SC	09					Lab Sample ID: 240-453	39-79
Date Collected	: 12/10/14 12:1	59						Matrix: S	Solid9
Date Received	12/10/14 14:00	09						Percent Solids:	97.29
-	Batch9	Batch9		Dilution9	Batch9	Prepared9			
Prep Type9	Туре9	Method9	Run9	Factor9	Number9	or Analyzed9	Analyst9	) Lab9	
TotaljNA1	I/1p11 re51	Increment, 1re51			g9g02g1	g2jg0jg4 g6:001	DSJ1	TAL CAN1	
TotaljNA1	re51	7060V1			g9g47g1	g2jg8jg4 g0:271	DEE1	TAL CAN1	
TotaljNA1	Analysis1	90201		g01	g9g9K31	g2jgKjg4 gg:4g1	Ap1p121	TAL CAN1	
TotaljNA1	l/1p11 re51	Increment, 1re51			g9g02g1	g2jg0jg4 g6:001	DSJ1	TAL CAN1	
TotaljNA1	Analysis1	p1oistBre1		g1	g9g409	g2jg8jg4 0K:671	=/1	TAL CAN1	
Client Samp	le ID: B12CS	6-074M-0044-SC	<b>D</b> 9					Lab Sample ID: 240-453	39-9
Date Collected	: 12/10/14 12:3	59						Matrix: S	Solid9
Date Received:	12/10/14 14:00	09						Percent Solids:	97.69

	Batch9	Batch9		Dilution9	Batch9	Prepared9		
Prep Type9	Туре9	Method9	Run9	Factor9	Number9	or Analyzed9	Analyst9	Lab9
TotaljNA1	l/1p11 re51	Increment, 1re51		·	g9g02g1	g2jg0jg4 g6:001	DSJ1	TAL CAN1
TotaljNA1	re51	7060V1			g9g47g1	g2jg8jg4 g0:271	DEE1	TAL CAN1
TotaljNA1	Analysis1	90201		g01	g9g9K31	g2jgKjg4 g2:001	Ap1p121	TAL CAN1
TotaljNA1	l/1p11 re51	Increment, 1re51			g9g02g1	g2jg0jg4 g6:001	DSJ1	TAL CAN1
TotaljNA1	Analysis1	p1oistBre1		g1	g9g409	g2jg8jg4 0K:671	=/1	TAL CAN1

#### Laboratory References:9

TAL CAN h TestAmerica Canton, 4g0g /1f18Well /1treet NW, Nortf1Canton, OH 44820, TEL (770)438-3739

TestAmerica Canton1

# **Certification Summary**

# Client: Leidos, Inc.1 1 roæctj/1ite: SRAA1 VBildinu g200jATA SA Confirmation1

### TestAmerica Job ID: 240-46773-2

### Laboratory: TestAmerica Canton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.1

Authority	Program	EPA Region	Certification ID	Expiration Date
California1	N91A1	31	0gg44CA1	0E-70-g4 *1
California1	/1tate 1rouram1	31	23251	04-70-g61
ConnecticBt1	/1tate 1 rouram1	g1	H-06301	g2-7g-g41
Florida1	N91A1	41	9852261	0E-70-g61
Georuia1	/1tate 1 rouram1	41	NjA1	0E-70-g61
Illinois1	N91A1	61	2000041	05-7g-g61
Kansas1	N91A1	51	91g077E1	0g-7g-g61
KentBcky (U/1T)1	/1tate 1 rouram1	41	681	0E-70-g61
-A-V1	DoD 91 A1		27g61	05-g8-gE1
Minnesota1	N91A1	61	073-333-7481	g2-7g-g41
Nevada1	/1tate 1rouram1	31	OH-000482008A1	05-7g-g61
New Jersey1	N91A1	21	OH00g1	0E-70-g61
New York1	N91A1	21	g03561	07-7g-g61
Ohio RA1	/1tate 1 rouram1	61	CL00241	g0-7g-g61
ennsylvania1	N91A1	71	E8-007401	08-7g-g61
Texas1	N91A1	E1		08-7g-g61
U/1DA1	Federal1		770-g7-007g31	gg-2E-gE1
Riruinia1	N91A1	71	4E0g561	03-g4-g61
Washinuton1	/1tate 1 rouram1	g01	C35g1	0g-g2-g61
West Riruinia D91	/1tate 1rouram1	71	2g01	g2-7g-g41
Wisconsin1	/1tate 1 rouram1	61	3336g8g301	08-7g-g61

* Certification renewal pendinu - certification considered vali1.1


THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

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# CHAIN OF CUSTODY AND RECEIVING DOCUMENTS



4101 Shuffel Street, N.W. North Canton, OH 44720 Page 15 of 17 tel 330.497.9396 fax 330.497.0772 www.testamericainc.com

COC No.: RVAAP-RA-05 { Date: /2/10/14	Laboratory Name: Test America Address: Address: 4101 Shuffel St. NW, North Canton, OH 44720 Phone: 330-497-9396 Fax: 330-497-0772	Held	1 Hold pending analysis	1 Hold Indine analysis	1 hold pending analyss	Sizy analysis	Total Shipment Method: Tes, EVEN HOLD PENDING OCT CTUEEDAILES A DOUG Admill NO -		tum s	
CC Page 1 of	Requested Parameters	s					Date Subtotal Number of Containers: Total 12-10-74 Motes: Total Number of Containers: Total	Time Multiplo Swirtlay Swirtlay UNLES NULED UTTER	Date RODESSAIISAMPUS WINT	S = Soil/Solid matrix
Chain of Custody Record	Smi	Depth Date Time Matrix 0-1 12_ito[id 112_0 S		1200		A 1535	Received by Q. W. M. M. Banaluse	VarAn Iwn TA-Cutton company	Received by Signature	Printed Name Comparty
leidos ^{Chain} o Leidos, Inc.	s 56 Commons Blvd., Suite 201, Twi ber: 330-405-5802 ager: Jed Thomas e: Building 1200/ATA RA Confirma e: Building 1200/ATA RA Confirma 2819.00.09466.00.9500.02.001 PO inature)	100 No. Field Sample # Location ID 2012co - BUM- 803750 BUCs-CLAM		BIZCS-091M-0041-50 BICS-091M BIZCS-001M-0045-50 BUS-091M	8145-04211-0042-00 BILS-000m BILS-00Bm-0048-50 BILS-00Bm	Bilis-Outm-wogy-so Bilis-anth	Relinquished by Date R Dours 12/10/14	LEIDOS 1400	Relinquished by Date R	

aye υ υı 14 12/ 0/20

Client Jeioles Site Name Cooler	unpacked by:
Cooler Received on 12-/10/14 Opened on 12/10/14 The	there Fower
FedEx: ft Grd Exp UPS FAS Stetson Client Drop Of TestAmerica Courier Other	
Receipt After-hours: Drop-off Date/Time Storage Location	
TestAmerica Cooler # Foam Box Client Cooler Box Other	
Packing material used: Bubble Wrap Foam Plastic Bag None Other COOLANT: Wet Ice Blue Ice Dry Ice Water None	
1. Cooler temperature upon receipt         IR GUN# A       (CF +4.0 °C)       Observed Cooler Temp.       °C Corrected Cooler Temp.         IR GUN# 4       (CF +1.2 °C)       Observed Cooler Temp.       °C Corrected Cooler Temp.         IR GUN# 5       (CF +0.4 °C)       Observed Cooler Temp.       °C Corrected Cooler Temp.         IR GUN# 5       (CF +0.4 °C)       Observed Cooler Temp.       °C Corrected Cooler Temp.         IR GUN# 8       (CF +0.7 °C)       Observed Cooler Temp.       °C Corrected Cooler Temp.	°C □ See Multiple °C Cooler Form
2. Were custody seals on the outside of the cooler(s)? If Yes Quantity (Yes) No -Were custody seals on the outside of the cooler(s) signed & dated? (Yes) No NA	
-Were custody seals on the bottle(s)? Yes	
3. Shippers' packing slip attached to the cooler(s)?	
4. Did custody papers accompany the sample(s)?	
5. Were the custody papers relinquished & signed in the appropriate place?	
<ul> <li>6. Did all bottles arrive in good condition (Unbroken)?</li> <li>7. Could all bottle labels be reconciled with the COC?</li> <li>8. Were correct bottle(s) used for the test(s) indicated?</li> <li>9. Sufficient quantity received to perform indicated analyses?</li> <li>10. Were sample(s) at the correct pH upon receipt?</li> <li>11. Were VOAs on the COC?</li> <li>12. Were air bubbles &gt;6 mm in any VOA vials?</li> <li>13. Was a trip blank present in the cooler(s)?</li> </ul>	) pH Strip Lot# <u>HC425511</u>
Contacted PM Date by via Verbal Voice Mail Concerning	Other
	ples processed by:
	64 Y).
	<u> </u>
15. SAMPLE CONDITION Sample(s) were received after the recommended holding time h	ad evnired
Sample(s) were received after the recommended holding time has	
Sample(s) were received after the recommended holding time has sample(s) were received in a brok	en container.
Sample(s)	en container.
Sample(s)	en container.

Ref: SOP NC-SC-0005, Sample Receiving L:\QAQC\QA Department\QA TARDIS\Document Control\Work Instructions\W1_QA use only\W1-NC-099M-110614 Cooler Receipt Form.doc djl

1

1



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: 240-45879-1

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: 12/31/2014 3:42:22 PM

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

LINKS **Review your project** results through Total Access Have a Question? Ask-The Expert Visit us at: www.testamericainc.com

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### **Definitions/Glossary**

Client: Leidos, Inc., Project/Site: RVAAP Building 1200 and ATA Remedial Act, TestAmerica Job ID: 240-45879-1,

### QualifiersG

### Metals

metals	
Qualifier	Qualifier Description
D,	The reported value is from a dilution.a,
J,	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteri, a,
4,	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not a, pplicable.a,
U,	Undetected at the Limit of Detection.a,

### lossaryG

Abbreviation	These commonly used abbreviations may or may not be present in this report.	
¤,	Listed under the "D" column to designate that the result is reported on a dry weight basis,	
%R,	Percent Recovery,	
CFL,	Contains Free Liquid,	
CNF,	Contains no Free Liquid,	
DER,	Duplicate error ratio (normalized absolute difference),	
Dil Fac,	Dilution Factor,	
DL, RA, RE, IN,	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample,	
DLC,	Decision level concentration,	
MDA,	Minimum detectable activity,	40
EDL,	Estimated Detection Limit,	13
MDC,	Minimum detectable concentration,	
MDL,	Method Detection Limit,	
ML,	Minimum Level (Dioxin),	
NC,	Not Calculated,	
ND,	Not detected at the reporting limit (or MDL or EDL if shown),	
PQL,	Practical Quantitation Limit,	
QC,	Quality Control,	
RER,	Relative error ratio,	
RL,	Reporting Limit or Requested Limit (Radiochemistry),	
RPD,	Relative Percent Difference, a measure of the relative difference between two points,	
TEF,	Toxicity Equivalent Factor (Dioxin),	
TEQ,	Toxicity Equivalent Quotient (Dioxin),	

### Job ID: 240-45879-1vn

#### Laboratory: TestAmerica Canton

Narrativen

### **CASE NARRATIVEn**

**Client: Leidos, Inc.n** 

### Project: RVAAP Building 1200 and ATA Remedial Actn

### Report Number: 240-45879-1n

h1itx txe epcef1ions noted as yaV& or yootnotes, standard analytical f1otocols v1ere yollov1ed in txe analysis oytxe samf1es and no 1 f1oblems v1ere encogntered or anomalies obserged. In addition all laboratorwEgalitwcontrol samf1es v1ere v1txin establisxed control 1 limits, v1tx anwepcef1ions noted belov1 z1ex samf1e v1as analwFed to acxieqe txe lov1est f1ossible ref1ortinWimit v1txin txe constraints oy1 txe metxod. In some cases, dge to interverence or analytes f1resent at xiVX concentrations, samf1es v1ere dilgted. Uor dilgted samf1es, 1 txe ref1ortinWimits are ad/gsted relative to txe dilgtion reEgired.1

Calcglations are f1eryormed beyore rogndinWto aqoid rognd-oyyerrors in calcglated resglts.1

All xoldinWimes være met and frofær freserqation noted yor txe metxods frevormed on txese samfres, gnless otxerv1se detailed in txe 1 indigidgal sections belov11

TestAmerica gtiliFes ORzj1A aff1oqed metxods and DQD MRk1, v kere aff1icable, in all analwtical v br(1 Txe samf1es f1esented in txis 1 refbrt v bre analwFed yor txe f1arameter)s'1listed on txe analwtical metxods sgmmarwf1aWe in accordance v1tx txe metxod)s'1indicated. A 1 sgmmarwoyMC data yor txese analwses is inclgded at txe bac(10ytxe refbrt. 1

TestAmerica Canton attests to txe qaliditwoytxe laboratorwdata Wenerated bwTestAmerica yacilities ref'orted xerein. All analwses 1 fleryormed bwTestAmerica yacilities v*tre done gsinWestablisxed laboratorwRQj1s txat incorf*brate MA\$MC f*tocedgres described in txe 1 aff1icable metxods. TestAmerica's of*brations Wogf*s xage regiev*ed txe data yor comf1iance v1tx txe laboratorwMA\$MC f*1an, and data 1 xage been yognd to be comf1iant v1tx laboratorwf*totocols gnless otxerv1se noted belov1 1

All solid samf1e resglts are ref1orted on an % as received % basis gnless otxerv1se indicated bwtxe f1esence oya N1solids qalge in txe 1 metxod xeader.1

Txis laboratorwref brt is convidential and is intended yor txe sole gse oy TestAmerica and its client.1

All f'arameters yor v'kicx TestAmerica 9 brtx Canton xas certification v'ere eqalgated to txe limit oydetection )LQD'1and inclgde Egalified 1 resglts v'kere aff1icable. j1arameters not certified gnder MRk1, iyanw, v'ere eqalgated to txe detection limit )DL'1and inclgde Egalified 1 resglts v'kere aff1icable.1

Txe samf1e)s'1txat contain constitgents ylaWled v1tx O are gndetected. Txe resglt associated v1tx txis ylaWis txe limit oydletection )LQD'11

#### <u>RECEIPT</u>n

Txe samf1es vtere receiqed on P232230P4 4:46 j1k15txe samf1es arrived in Wood condition, f1of1erlwf1eserqed and, v1kere reEgired, on 1 ice. Txe temf1eratgre oytxe cooler at receif1 v1as ;16° C.1

#### TOTAL METALS (ICPMS) WITH INCREMENTAL SAMPLE PREPARATIONn

Ramf1es uP2CR-036k1004;1RQ )240-46731-P' and uP2CR-036k10043-UD )240-46731-2'1v the analwFed yor total metals )ICj1k1R'1v1tx 1 incremental samf1e f1ef1aration in accordance v1tx ITVC Tecxnical and VeVglatorw81gidance: IRk1, Uebrgarw20P2 and z11A Rh1-74;11 k1etxod ;020 DoD. Txe samf1es beVan txe drwinWf1ocess on P2324320P4, v1ere f1ef1ared on P2330320P4 and analwFed on P233P320P4. 1

k1anWanese yailed txe recogerwcriteria xiWx yor txe k1R oysamf1e u1P2CR-036k1-004;1RQk1R )240-46731-P' in batcx 240-P;1217;1 Veyer to 1 txe MC reffort yor details.1

### Client: Leidos, Inc.1 j ro/ect\$Rite: VBAAj1 u gildinWP200 and ATA Vemedial Act1

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### Job ID: 240-45879-1 (Continued)vn

### Laboratory: TestAmerica Canton (Continued)n

Ramf1es uP2CR-036k1004;1RQ )240-46731-P'[20X] and uP2CR-036k10043-UD )240-46731-2'[20X] reEgired dilgtion f1ior to analwsis. 1 Txe ref1ortinWimits xage been ad/gsted accordinWw1

#### TOTAL SOLIDS/PERCENT MOISTUREn

Ramf1es uP2CR-036k1-004;1RQ )240-46731-P and uP2CR-036k1-0043-UD )240-46731-2'1v the analwFed yor Total Rolids\$1ercent 1 k1oistgre in accordance v1tx j1ercent k1oistgre metxod. Txe samf1es v the leacxed on P2524520P4 and analwFed on P2520520P4. 1

9to analytical or Egalitwissges v/ere noted, otxer txan txose described above or in txe Devinitions 3 lossarwf1aWe.1

### **Method Summary**

I nieLt: dei,.os. ILcP. j ro/e t\$Rite: VBAAj. ugin.iLf. C200 aL,. ATA Veme,.ianAct.

Method	Method Description	Protocol	Laboratory
8020.	6 etans W. j. 36 R(.	RW348.	TAd I. A).
6 oistgre.	j. erceLt 6 oistgre.	Nj. A.	TAd I. A).

#### Protocol References:

Nj. A E = R NLUroLmeLtanj. rotectioL Af.eLcv.

RW348 E yTest 6 et".o., s hor NU. rgatiLf. Roni, Waste. j. ".vsicar& ".emican6 et".o., sy. T".ir,. N, itioL. ). oUember C138 AL,. Its = F,. tesP.

#### Laboratory References:

TAd I. A). E TestAmerica I. aLtoL. 400C R".gpenRtreet ).W. ).ort". I. aLtoL. OH 44920. TNd NT70(419-1718.

Client: Leidos, Inc., Project/Site: RVAAP Building 1200 and ATA Remedial Act,

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-45879-1,	B12CS-075M-0046-SO	Solid,	12/22/14 11:55,	12/22/14 16:45,
240-45879-2,	B12CS-075M-0047-FD,	Solid,	12/22/14 11:55,	12/22/14 16:45,

TestAmerica Canton,

### **Detection Summaryb**

Client: Leidos, Inc., Project/Site: RVAAP Building 1200 and ATA Remedial Act, TestAmerica Job ID: 240-45879-1,

Client Sample ID: B12	CS-075M-0046-SOb		Lab Sample ID: 240-458			
Analyteb	Resultb Qualifierb	LOQb	DLb Unitb	Dil Facb Db Methodb	Prep Typeb	
Manganese,	1700, D J	9.5,	1.1, mg/Kg,	20, 🔅 6020,	Total/NA	
Client Sample ID: B12	CS-075M-0047-FDb			Lab Sample ID	: 240-45879-21	
– Analyteb	Resultb Qualifierb	LOQb	DLb Unitb	Dil Facb Db Methodb	Prep Typeb	
Manganese,	1600, D	9.5,	1.1, mg/Kg,	20, 🔅 6020,	Total/NA	

This Detection Summary does not include radiochemical test results.,

TestAmerica Canton,

# Client Sample ResultsO

I nieLt: dei,.os. ILcP. j ro/e t\$Rite: VBAAj. ugin.iL9 C200 aL,. ATA Veme,.ianAct. TestAmerica Job ID: 240-46731-C.

Client Sample ID: B12CS-075M-	0046-SO			Lab Sam	ple ID: 240-4	5879-1 <b>O</b>	
Date Collected: 12/22/14 11:550				Matrix: SolidO			
Date Received: 12/22/14 16:450				Percent Solids: 97.90			
Method: 6020 - Metals (ICP/MS)O AnalyteO	ResultOQualifierO	LOQ	DLOUnitO	DO PreparedO	AnalyzedO	Dil FacO	
ManganeseO	1700OD JO	1176	CPC m9\$59.	© C2\$K0\$C4 C2:46.	C2\$KC\$C4 01:4%	20.	
General ChemistryO							
AnalyteO	ResultOQualifierO	LOQ	DLOUnitO	DO PreparedO	AnalyzedO	Dil FacO	
Percent SolidsO	980	0 F20.	0 FEO. 8.		C2\$K0\$C4 OK:C7.	C.	
Percent MoistureO	2.10	0 F20.	0FCO. 8.		C2\$K0\$C4 CK:C7.	C.	

TestAmerica I. LtoL.

# Client Sample ResultsO

I nieLt: dei,.os. ILcP. j ro/e t\$Rite: VBAAj. ugin.iL9 C200 aL,. ATA Veme,.ianAct. TestAmerica Job ID: 240-46731-C.

Client Sample ID: B12CS-075M-0047-FDO Lab Sample ID: 240-45879-				5879-20			
Date Collected: 12/22/14 11:550				Matrix: SolidO			
Date Received: 12/22/14 16:450		Percent Solids: 97.90					
Method: 6020 - Metals (ICP/MS)O AnalyteO	<b>ResultO</b> QualifierO	LOQ	DLOUnitO	DO PreparedO	AnalyzedO	Dil FacO	
ManganeseO	1600ODO	1176	CFC m9559.	© C2\$K0\$C4 C2:46.	C2\$KC\$\$4 00:06.	20.	
General ChemistryO							
AnalyteO	ResultOQualifierO	LOQ	DLOUnitO	DO PreparedO	AnalyzedO	Dil FacO	
Percent SolidsO	98O	0 F20.	0 FEO. 8.		C2\$K0\$C4 CK:C7.	C.	
Percent MoistureO	2.10	0 F20.	0F20. 8.		C2\$K0\$C4 CK:C7.	C.	

TestAmerica I. LtoL.

# QC Sample Resultsk

Client: Leidos, Inc., Project/Site: RVAAP Building 1200 and ATA Remedial Act,

### Method: 6020 - Metals (ICP/MS)Rk

Lab Sample ID: MB 240-162870/1-A Matrix: Solidk	^2k					Client Sa	mple ID: Method Prep Type: To	
Analysis Batch: 162986k							Prep Batch:	
· ·····, · · · · · · · · · · · · · · ·	MBk MBk							
Analytek	Resultk Qualifierk	L	.OQk DLk Uni	itk	Dk Pi	reparedk	Analyzed	Dil Fac
Manganese,	0.40, U,		1.0, 0.12, mg/	/Kg,	12/3	0/14 12:45,	12/31/14 09:38,	2,
	A ^2k				Client	Sample	D: Lab Control	Samplek
Matrix: Solidk							Prep Type: T	otal/NAk
Analysis Batch: 162986k							Prep Batch:	162870k
-		Spikek	LCSk LCSk				%Rec.k	
Analytek		Addedk	Resultk Qualifier	k Unitk	Dk	%Reck	Limitsk	
Manganese,		100,	96.9, D,	mg/Kg,		97,	80,-,120,	
Lab Sample ID: 240-45879-1 MSk					Client S	ample ID	: B12CS-075M-0	046-SOk
Matrix: Solidk							Prep Type: T	
Analysis Batch: 162986k							Prep Batch:	162870k
-	Samplek Samplek	Spikek	MSk MSk				%Rec.k	
Analytek	sultk Qualifierk	Addedk	Resultk Qualifier	k Unitk	Dk	%Reck	Limitsk	
Manganese,	1700, D J,	9.46,	1780, D 4,	mg/Kg,	<del></del>	1236,	10,-,199,	
Lab Sample ID: 240-45879-1 DUk					Client S	ample ID	: B12CS-075M-0	046-SOk
Matrix: Solidk						-	Prep Type: T	otal/NAk
Analysis Batch: 162986k							Prep Batch:	162870k
-	Samplek Samplek		DUk DUk				Ē	PDk
Analytek	sultk Qualifierk		Resultk Qualifier	k Unitk	Dk		PDI	k Limitk
Manganese,	1700, D J,		1540, D,	mg/Kg,	<u></u>		8	, 20,

# **QC Association SummaryD**

I nieLt: dei,.os. ILcP.

j ro/e t\$Rite: VBAAj. ugiņ.iLp C200 aL,. ATA Veme,.ianAct.

### **MetalstD**

### ISM Prep Batch: 162812D

Lab Sample ID	Client Sample ID	Prep TypeD	MatrixD	MethodD Prep Batch
240-46731-C.	u.C2I. R-036M-004O-RN.	Totar&JA.	Roni,.	ILcremeLt. j. re5.
240-46731-CD8.	u.C2I. R-036M-004O-RN.	Totar&JA.	Roni,.	ILcremeLt. j. re5.
240-46731-CMR.	u.C2I. R-036M-004O-RN.	Totar&JA.	Roni,.	ILcremeLt. j. re5.
240-46731-2.	u.C2I. R-036M-0043-9D.	Totar&JA.	Roni,.	ILcremeLt. j. re5.

### Prep Batch: 162870D

Lab Sample ID	Client Sample ID	Prep TypeD	MatrixD	MethodD	Prep BatchD
240-46731-C.	u.C2I. R-036M-004O-RN.	Totar&JA.	Roni,.	F060u.	002702.
240-46731-CD8.	u.C2I. R-036M-004O-RN.	Totar&JA.	Roni,.	F060u.	002702.
240-46731-CMR.	u.C2I. R-036M-004O-RN.	Totar&JA.	Roni,.	F060u.	002702.
240-46731-2.	u.C2I. R-036M-0043-9D.	Totar&JA.	Roni,.	F060u.	002702.
dl. R 240-002730\$2-A ^2.	dab I. oLtronRam5ne.	Totar&JA.	Roni,.	F060u.	
Mu.240-002730\$C-A ^2.	Metho,. unLk.	Totar&JA.	Roni,.	F060u.	

### Analysis Batch: 162986D

Lab Sample ID	Client Sample ID	Prep TypeD	MatrixD	MethodD	Prep BatchD
240-46731-C.	u.C2I. R-036M-004O-RN.	Totar&JA.	Roni,.	0020.	002730.
240-46731-CD8.	u.C2I. R-036M-004ORN.	TotarSJA.	Roni,.	C020.	002730.
240-46731-CMR.	u.C2I. R-036M-004ORN.	TotarSJA.	Roni,.	C020.	002730.
240-46731-2.	u.C2I. R-036M-0043-9D.	Totar&JA.	Roni,.	C020.	002730.
dl. R 240-002730\$2-A ^2.	dab I. oLtronRam5re.	TotarSJA.	Roni,.	C020.	002730.
Mu. 240-002730\$C-A ^2.	Metho,. unLk.	TotarSUA.	Roni,.	C020.	CC2730.

### **General ChemistrytD**

### ISM Prep Batch: 162812D

Lab Sample ID	Client Sample ID	Prep TypeD	MatrixD	MethodD	Prep BatchD
240-46731-C.	u.C2I. R-036M-004O-RN.	Totar&JA.	Roni,.	ILcremeLt. j. re5a.	
240-46731-2.	u.C2I. R-036M-0043-9D.	Totar&JA.	Roni,.	ILcremeLt. j. re5a.	
Analysis Batch: 162	877D				
Analysis Batch: 162	877D				
Lab Sample ID	Client Sample ID	Prep TypeD	MatrixD	MethodD	Prep BatchD
Г		Prep TypeD Totar&JA.	MatrixD Roni,.	MethodD Moistgre.	Prep BatchD

### Client: Leidos, Inc.9 Project/Site: RVAAP Building 1200 and ATA Remedial Act9

Matrix: Solid8

ate Received:	12/22/14 16:4	58							Percent Solids: 97.9
Prep Type8	Batch8 Type8	Batch8 Method8	Run	Dilution8 Factor8	Batch8 Number8	Prepared8 or Analyzed8	Analyst8	Lab8	
Total/NA9	ISM Prep9	Increment, Prep9			1628129	12/24/14 13:159	DRJ9	TAL CAN9	_
Total/NA9	Prep9	3050B9			1628709	12/30/14 12:459	DEE9	TAL CAN9	
Total/NA9	Analysis9	60209		209	1629869	12/31/14 09:469	AMM29	TAL CAN9	
Fotal/NA9	ISM Prep9	Increment, Prep9			1628129	12/24/14 13:159	DRJ9	TAL CAN9	
Total/NA9	Analysis9	Moisture9		19	1628779	12/30/14 13:189	NJE9	TAL CAN9	

#### ent Sample 5-07 511-004 Date Collected: 12/22/14 11:558 Date R

Analysis9 Moisture9

Date Received:	12/22/14 16:4	58							Percent Solids: 97.98
<b>[</b>	Batch8	Batch8		Dilution8	Batch8	Prepared8			
Prep Type8	Туре8	Method8	Run	Factor8	Number8	or Analyzed8	Analyst8	Lab8	
Total/NA9	ISM Prep9	Increment, Prep9			1628129	12/24/14 13:159	DRJ9	TAL CAN9	_
Total/NA9	Prep9	3050B9			1628709	12/30/14 12:459	DEE9	TAL CAN9	
Total/NA9	Analysis9	60209		209	1629869	12/31/14 10:059	AMM29	TAL CAN9	
Total/NA9	ISM Prep9	Increment, Prep9			1628129	12/24/14 13:159	DRJ9	TAL CAN9	

19

1628779 12/30/14 13:189 NJE9

TAL CAN9

#### Laboratory References:8

Total/NA9

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-93969

TestAmerica Canton9

# **Certification Summary**

### Client: Leidos, Inc.1 j ro/ect\$Rite: VBAAj1ugildinf1P200 and ATA Vemedial Act1

### TestAmerica Job ID: 240-46731-P1

### Laboratory: TestAmerica Canton

All certifications yeld bNtyis laboratorNare listed. pbt all certifications are a99licable to tyis re9ort.1

Authority	Program	EPA Region	Certification ID	Expiration Date
Calihornia1	p E 1Aj 1		0PP44CA1	0*150-P4 H1
Calihornia1	Rtate j1rof1ram1		21231	04-50-P61
Connecticgt1	Rtate j1rof1ram1	P1	j1F406101	P2-5P-P61
8lorida1	p£1Aj1	41	E732261	0*150-P61
Georf1a1	Rtate j1rof1ram1	41	p18A1	0*150-P61
Illinois1	p E1Aj1	61	2000041	03-5P-P61
Kansas1	p£1Aj1	31	E-P055*1	0P-5P-P61
KentgckN(URT)1	Rtate j1rof1ram1	41	671	0*150-P61
-A-u1	DoD ELAj1		L25P61	03-P7-P*1
Minnesota1	p ELAj1	61	051-11 -5471	P2-5P-P41
p <b>t</b> evada1	Rtate j1rof1ram1		OF-000472007A1	03-5P-P61
p <b>t</b> ew JerseN	p ELAj1	21	OF00P1	0*150-P61
ptew York1	p£1Aj1	21	P01361	05-5P-P61
Oyio BAj1	Rtate j1rof1ram1	61	CL00241	P0-5P-P61
j1ennsNvania1	p E1Aj1	51	* <b>17</b> -005401	07-5P-P61
Texas1	p ELAj1	*1		07-5P-P61
URDA1	8ederal1		j1550-P5-005P1	PP-2*1P*1
Birf1nia1	p E1Aj1	51	4* <b>0</b> P361	01-P4-P61
Wasyinf1ton1	Rtate j1rof1ram1	P01	C13P1	0P-P2-P61
West Birf1nia DEj1	Rtate j1rof1ram1	51	2P01	P2-5P-P41
Wisconsin1	Rtate j1rof1am1	6	1116P7P101	07-5P-P61



TestAmerica Laboratories, Inc.

# CHAIN OF CUSTODY AND RECEIVING DOCUMENTS



240-45879 Chain of Custody

o: RVAAP-RA-06 Date: 12/22/14	Laboratory Name:       Test America       Address:       Address <th></th>	
5.8 Page / of /	Biological Advisor     Endocrated Parameters     Laboration       0     1     1     Test Am       1     1     1     1       1     1     1     1       1     1     1     1       1     1     1     1       1     1     1     1       1     1     1     1       1     1     1     1       1     1     1     1       1     1     1     1       1     1     1     1       1     1     1     1       1     1     1     1       1     1     1     1       1     1     1     1       1     1     1     1       1     1     1     1       1     1     1     1       1     1     1     1       1     1     1     1       1     1     1     1       1     1     1     1       1     1     1     1       1     1     1     1       1     1     1     1       1     1     1     <	
Chain of Custody Record	087 Date Time Matrix Date Time Matrix Date Time Matrix Date Matrix Zizziry 1235 50 Zizziry 123	- to a the latence
Fleidos	Name: Leidos         Adress: 8866 Commons Blvd, Suite 201, Twinsburg, OH 44087         Project Namese: 330-405-5802         Project Namese: 1804 Commons Blvd, Suite 201, Twinsburg, OH 44087         Project Namese: 1804 Commons Blvd, Suite 201, Twinsburg, OH 44087         Person       Project Namese         Bubber: 0.1728 H3 00.0456.000-001 P0.00025002         Sampler (Signature)       Project Namese         Project Namese       Blvds: OTFWORD PRODOCOL 001 00025002         Sampler (Signature)       Project Namese         Project Namese       Blvds: OTFWORD PRODOCOL 001 00025002         Sampler (Signature)       Project Namese         Project Name       Blvds: OTFWORD PRODOCOL 001 00025002         Sampler (Signature)       Project Namese         Project Name       Blvds: OTFWORD PRODOCOL 001 00025002         Sampler (Signature)       Project Namese         Project Name       Blvds: OTFWORD PRODOCOL 001 00025002         Project Name       Blvds: OTFWORD Project Name         Project Name       Project Name         Pro	14

	1 Sample Receipt Form/Narrative	Login # : 45879
Canton Facility		Cooler/unpacked by:
Client Leide		
Cooler Received on	UPS FAS Stetson Client Drop Oto Test	America Courier Other
Receipt After-hours: I		Storage Location
TestAmerica Cooler #		
Packing material u		one Other
COOLANT:	Wet Ice Blue Ice Dry Ice Water	one
1. Cooler temperature	e upon receipt	
	CF +4.0 °C) Observed Cooler Temp°C Co	
	CF +1.2 °C) Observed Cooler Temp°C Ce	
IR GUN# 5 (C	CF +0.4 °C) Observed Cooler Temp°C Co	Corrected Cooler Temp°C Cooler Form
	CF +0.7°C) Observed Cooler Temp. 5.8 °C C	
1000	s on the outside of the cooler(s)? If Yes Quantit	
-Were custody sea	als on the outside of the cooler(s) signed & dated?	Yes No CA
	slip attached to the cooler(s)?	12/13/1
	s accompany the sample(s)?	No No
	papers relinquished & signed in the appropriate place	
6. Did all bottles arriv	ve in good condition (Unbroken)?	Ver No
	pels be reconciled with the COC?	No No
8. Were correct bottle	e(s) used for the test(s) indicated?	No No
9. Sufficient quantity	/ received to perform indicated analyses?	No No
10. Were sample(s) at	the correct pH upon receipt?	Yes No (NA) pH Strip Lot# HC425511
11. Were VOAs on the		Yes to
	6 mm in any VOA vials?	Yes No NA
13. Was a trip blank pr	resent in the cooler(s)?	Yes
Contacted PM	Date by	via Verbal Voice Mail Other
Concerning		
14. CHAIN OF CUST	FODY & SAMPLE DISCREPANCIES	Samples processed by:
		And www.
1999, 1999, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 19		
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		a fall a state of the second and the second s
15. SAMPLE CONDI	TION	
		recommended holding time had expired.
Sample(s)	word received after the r	were received in a broken container.
		th bubble >6 mm in diameter. (Notify PM)
16. SAMPLE PRESE		
		were further preserved in the laboratory.
Time preserved:	Preservative(s) added/Lot number(s):	nete tatalet preset ved in the facefully?
		· · · · · · · · · · · · · · · · · · ·

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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# APPENDIX D MANIFEST LOG, WASTE PROFILE, AND WASTE MANIFESTS

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Load #	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	11/21/2014	B1200	11/19-11/20/2014	JMW	PVX8067	Envirite	K145150EOH	046108	13.01	Y	Y
2	11/21/2014	B1200	11/19-11/20/2014	JMW	PVX8075	Envirite	K145150EOH	046109	13.92	Y	Y
3	11/21/2014	B1200	11/19-11/20/2014	JMW	PVX8074	Envirite	K145150EOH	046110	14.46	Y	Y
4	11/21/2014	B1200	11/19-11/20/2014	JMW	PVX8081	Envirite	K145150EOH	046111	13.45	Y	Y
5	11/21/2014	B1200	11/19-11/20/2014	JMW	PVX8067	Envirite	K145150EOH	046112	16.33	Y	Y
6	11/21/2014	B1200	11/19-11/20/2014	JMW	PVX8075	Envirite	K145150EOH	046113	16.92	Y	Y
7	11/21/2014	B1200	11/19-11/20/2014	JMW	PVX8074	Envirite	K145150EOH	046114	18.02	Y	Y
8	11/21/2014	B1200	11/19-11/20/2014	JMW	PVX8081	Envirite	K145150EOH	046115	16.86	Y	Y
9	11/24/2014	B1200	11/19-11/20/2014	JMW	PVX8074	Envirite	K145150EOH	046116	19.26	Y	Y
10	11/24/2014	B1200	11/19-11/20, 11/24/2014	JMW	PVX8081	Envirite	K145150EOH	046117	18.64	Y	Y
11	11/24/2014	B1200	11/24/2014	JMW	PVX8075	Envirite	K145150EOH	046118	25.18	Y	Y
12	11/24/2014	B1200	11/24/2014	JMW	PVX8067	Envirite	K145150EOH	046119	22.06	Y	Y
13	11/24/2014	B1200	11/24/2014	JMW	PVX8074	Envirite	K145150EOH	046120	21.48	Y	Y
14	11/24/2014	B1200	11/24/2014	JMW	PVX8081	Envirite	K145150EOH	046121	18.84	Y	Y
15	12/10/2014	B1200	12/8-12/9/14	JMW	PVX8074	Envirite	K145150EOH	046125	17.85	Y	Y
16	12/10/2014	B1200	12/8-12/9/14	JMW	PVX8079	Envirite	K145150EOH	046126	18.57	Y	Y
17	12/10/2014	B1200	12/8-12/9/14	JMW	PVX8067	Envirite	K145150EOH	046127	18.50	Y	Y
18	12/10/2014	B1200	12/8-12/9/14	JMW	PVX8088	Envirite	K145150EOH	046128	19.73	Y	Y
19	12/10/2014	B1200	12/8-12/9/14	JMW	PVX8074	Envirite	K145150EOH	046129	19.52	Y	Y
20	12/10/2014	B1200	12/8-12/9/14	JMW	PVX8079	Envirite	K145150EOH	046130	14.99	Y	Y
21	12/23/2014	B1200	12/22/2014	JMW	PVX8067	Envirite	K145150EOH	046131	18.67	Y	Y
								ΤΟΤΑΙ	376 76	TONS	

TOTAL 376.26 TONS

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VTON FALLS, OH 44444 RA Phone: (B14) 336-8136 er 1 Company Name V Trucking er 2 Company Name d Facility Name and Site Address ENVIRITE OF OHIO, INC CENTRAL AVENUE, S.E. TON, OH 44707 ne: (330) 817-430D ste Shipping Name and Description	VENNA		4266 U.S. EPA ID J.V U.S. EPA ID	W 600	000 000
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ina: (330) 817-4300 ste Shipping Name and Description	10. Conta		Or	10 800 5	100 992
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al Shipmients Import to U.S. Export from U.S.	Port of ent	a second second second second	1.1.1		Ming and
ignature (for exports only): er Acknowledgment of Receipt of Materials	Data leavi	ng U.S.:			
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Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in it	tem 17a	C. LORD PROPERTY			and approximately a
Name Signature		.0	1	1	Month Day Ye
Eric Durley E	uc	101	mille	2-1	TRANSPORTER

7916 Ch. Maynesbu	) Landfill 1921 St SE 179, ON, 44688 1) 865-3265			09	Griginal Ticlet# G	
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5	WASTE MANIFEST	OH5 210	020 736	1	3. Emergency Respor (800) 851		n. Waste	Tracking No	04610
1	Generator's Name and Mail	ROUTE 534 SW	RAVENNA ARM	AY AMMU	Generator's Site Addre	ess (if different	than mailing ad	dress)	
1	1438 STATE F	ROUTE 534 SW			8451 STA		JTE 5		
1.0		LS OH 44444		1	RAVENN				
	ienerator's Phoner Transporter 1 Company Nar	(614) 336-	-6136				U.S. EPA II	0 Number	
-	JMW Trucking						1		000 000
17	Transporter 2 Company Nar			22			U.S. EPA II		
10	Designated Facility Name a	ENVI	RITE OF OHIO, I	INC			U.S. EPA II		
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1		44707 30) 617-4300							
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2050 CENTRAL AVE SE EARDON, ON, 94782       Account #: 8809933     Carriers JMA Dest.s       Parment Type: Creait Account     Dest.s       Check #: Manual Tokt#: P0:     Containers Driver: Haul Tic#: Annifests     Volume       Manifests     46145     Contract: Haul Tic#: Haul Tic#: Haul Tic#: Benerator     Volume       Frafile     4955720H (NDM REBULATED S01L) Benerator     Destator       First     Scale     Destator       Time     Scale     Destator       To 11/24/2014 11:149:42     Scale2     Drivers       Drivers     Tobound Gress     70540 1b 36520 1b       Comments     Destator     Tore       Product     LDX     Dty     Rate       Product     LDX     Dty     Rate       Spwaste Solid Dth-Ton-Speci     100     1 Load	7916 ( Maynes	Shapel St sburg, OH,	9E 44689			
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3. Designated Facility Name a	^{nd Site Address} ENVIRI [®] NLAVENUE SIE	TE OF OHIO, IN	AC .			U.S. EPA ID		568 992	,
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	L AVENUE, S E	RITE OF OHIO, II	NC			U S. EPA ID		568 992
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3721530  $\left( \mathbf{U}\right)$ NASTE MANAGEM Original American Landfill TicFet# 622872 7916 Chapel St BE Waynesburg, OH, 44688 Ph: (330) 866 3265 Tickel Date 11/24/2014 EO A US ECOLOGY COMPANY Customer: 2050 CENTRAL AVE SE CRNTON, OH, 44707 0009093 Carriers JMU Account #1 Dest. : Payment Type: Credit Account Volume Check Ma Vehicle#r 14 Container: Manual Tokti: Drivers p0; Haul Tic#: Contract: 46152 Manifest: Profile 4955720H (NON REGULATED SUIL) 119 ENVIRITECORP ENVIRITE OF OHIO INC Generator Scale Operator Time Scale 3 binepg In 11/24/2014 12:37:16 bruegg Seiles Dut 11/24/2014 13:00:46 81040 lb inhound. Grass 36920 16 Tare Consente: Viji 44120 Ib Net Tons 22,05 Ne Part Chen Address of Amount Origin 1.56 LOX Di y Rate Product OH-STARK 22.06 Tons 1.000 Sewaste Safid Oth-Tons-Speci-OH-STARK. i Leed 100 EVE-L-Standard Environmental Total Fees Total Ticket Driver's Signature 457 æ

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NEWTON FAL Generator's Phone:	LS_OH 44444 (614) 336-61	36	ļ	RAVENN				
6. Transporter 1 Company Nan			L			U.S. EPA ID	) Number	
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acility's Phone. (33	30) 617-4300							
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Importer 1 Company Name         JMW Trucking         pransporter 2 Company Name         Designated Facility Name and Site Address       ENVIRITE OF OHIO, INC.         2050 CENTRAL AVENUE, S.E.         CANTON, OH 44707         ain/s Phone       (330) 617-4300         9. Waste Shipping Name and Description       10. Co         1. NON-REGULATED MATERIAL       1         2.       1         3.       1         4.       1         2.       1         3.       1         4.       1         3.       1         4.       1         2.       1         3.       1         4.       1         3.       1         4.       1         5.       1         2.       1         3.       1         4.       1         3.       1         4.       1         5.       1         6.       K145150EOH / Non Regulated Soil         Signature	Type	U.S. EPA U.S. EPA U.S. EPA C 11. Total Quantity E.S. <del>T</del> Z.¢	ID Number ID Number DHD 980	0 568 992
Transporter 2 Company Name Designated Facility Name and Site Address ENVIRITE OF OHIO, INC. 2050 CENTRAL AVENUE, S.E. CANTON, OH 44707 (330) 617-4300 9 Waste Shipping Name and Description 1. NON-REGULATED MATERIAL 2. 3. 4. 5. Special Handling Instructions and Additional Information . K145150EOH / Non Regulated Soil GENERATOR'S CERTIFICATION: Locitly the materials described above on this manifest are not subject to federal regulations f interational Signature Signature Cathy of the U.S. Signature Signature Signature Signature Cathy of the U.S. Signature Signature Cathy of the U.S. Signature	Type	U.S. EPA O 11. Total Quantity E.S.H Z.¢	ID Number DHD 980 12. Unit Wt./Vol.	
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Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a ed/Typed Name Signature		7		Month Day Ye
Eric Dunlevy Eur		/	1	12/10/1

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WASTE MANIFEST	OH5 210 02	0 736	1	3. Emergency Respor (800) 851	-8061	4. Waste	-	046	127
5. Generator's Name and Mailing	Address FORMER R	AVENNA ARM	- 1	Renerator's Site Addre	ess (if differen	t than mailing ad	dress)	- 10	de ha I
1438 STATE RC	UTE 534 SW			8451 STA					
NEWTON FALL			1	RAVENN					
Generator's Phone: 6. Transporter 1 Company Name	(614) 336-61	136	l			U.S. EPA I	D Number		
JMW Trucking	# 14 - 4	13					NW 000	000 000	
7. Transporter 2 Company Name		·•		**************************************		U.S. EPA I			
	61 L ( )								
8. Designated Facility Name and	ENVIRI	TE OF OHIO, I	INC.			U.S. EPA I	D Number HD 980 5	69 000	
2050 CENTRAL CANTON, OH 44						0	10 000 0	00 302	
Facility's Phone: (330	0) 617-4300								
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5. Generator's Name and Mail 1438 STATE F NEWTON FAL	ing Address FORMER I ROUTE 534 SW LS, OH 44444	RAVENNA ARI	MY AMMU	Nénerator's Site Addre 8451 STA RAVENN	TE ROL	than mailing add	dress)	
Generator's Phone:	(614) 336-0	6136	l					
6. Transporter 1 Company Nar JMW Trucking						U.S. EPA II JN		000 000
7. Transporter 2 Company Nar	ne					U.S. EPA II	) Number	
CANTON, OH	L AVENUE, S.E. 44707	RITE OF OHIO,	INC.			U.S. EPA II Ol		568 992
Facility's Phone: (3	30) 617-4300							
9. Waste Shipping Name	e and Description			10. Con	· · · · · · · · · · · · · · · · · · ·	11. Total	12. Unit Wt./Vol.	
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	• • • American Lendfill 7916 Chapel St St Vaynesburg, OM, 446A8 Fh: 43301 866 3265	Customer: EQ A US ECOLOGY COMPANY 20050 CENTRAL AUE SC GANTON, OU, 44707 HECHURI 19000992 Payment Types Credit Account to Est.: Davaent Types Credit Account to Est.: Manual Tekth: Manual Tekth: Addit Account to Contacter Manifest: Adde Manifest:	In 12/10/2014 16:01:07 Scale Operator Dut 12/10/2014 16:19:29 Scale2 Terri Comments:	e Solid Oth- Standard Env

D-43

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number OH5 210 020 7	36	1	3. Emergency Respon (800) 851	-8061			^{nber} 046	131	
5. Generator's Name and Mailin 1438 STATE R	ng Address FORMER RAV		MMU			than mailing add	ress)	<u>,                                     </u>		
NEWTON FAL	LS. OH 44444 (614) 336-6136	:		8451 STA RAVENN						
6. Transporter 1 Company Nam	10					U.S. EPA ID				
JMW Trucking 7. Transporter 2 Company Nam						U.S. EPA ID		000 000	)	
r. transponer z company nam	IC .						Maniber			
8. Designated Facility Name an	d Site Address ENVIRITE	OF OHIO, INC.				U.S. EPA ID				
CANTON, OH	L AVENUE, S.E. 44707					Oł	-ID 980	568 992		
acility's Phone: (3:	30) 617-4300			10.0		, <u> </u>	1			
9. Waste Shipping Name	and Description			10. Con No.	Type	11. Total Quantity	12. Unit Wt./Vol.			
1. NON-REGULA	ATED MATERIAL			1	DT	EST. 20	T			
2.	. /									
3.										
4.							++			
						1				
3. Special Handling Instruction 1. K145150EOH / No TRUCK #14				5						
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1 - 1 m 41661/8 T Owerican Landfill Drightal 7916 Chapel St GE Ticket# GC0100 Vaynesburg, OH, 14688 Ph: (330) 866 3265 EQ () US ECOLOGY COMPANY Customer: Ticket Date 12/23/2014 2050 CENTRAL AUE OF CANTON, OH, 44707 Account #: 00000033 Carrier: JMH Payment Type: Credit Account Dest.: . Check #: Vehicle#: 14 Volume Manuel Tekt#: Containert P0: Diiver: Houl Tick: Manifeste 46162 Contract: Prefile 4955720H (NON REGULATED SOIL) Generator 119-ENVIRITECORP ENVIRITE OF OHIO INC 1 ine Scale Operator Ist 18/03/2014.11:26:32 Scale 3 bruegg Out 12/23/2014 11:46:19 Scale2 bruegg Inbound Gross 73480 15 Conmenter Tare 36140 16 Het 37340 1b . 1 Tons 18.67 Froduct 1.0% []} · Rate Fee Amount Origin ----Spwarte Solid Oth Tons-Speci 100 10.67 Top: UH-STARY EVF-1 Standard Environmental 100 1 Lood DH-STARE

Driver's Signature

3WM

Total Fees Total Ticket

# APPENDIX E STORMWATER CONSTRUCTION SITE INSPECTION REPORTS

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## **Stormwater Construction Site Inspection Report**

General Information					
Project Name	Building 1200 + AT	A RA			
NPDES Tracking No.	1	Location	ATA AUC		
Date of Inspection	11/17/14	Start/End Time	1510		
Inspector's Name(s)	RichSprinzl	····			
Inspector's Title(s)	Env. Engineer/Cons	truction Manager			
<b>Inspector's Contact Information</b>	330-348-1378				
Describe present phase of construction	Site Prep & Excal	ation			
Type of Inspection:	During storm even	Post-storm	event		
	Weather In	formation	\		
Has there been a storm event since If yes, provide:	the last inspection?	es UNO N/A	)		
	torm Duration (hrs):	Approximate	e Amount of Precipitation (in):		
Weather at time of this inspection Clear Cloudy Cloudy Rain Other:	Sleet Grog Sr Temperature:	Nowing 🛛 High Wi	nds		
Have any discharges occurred sinc If yes, describe:					
Are there any discharges at the tin If yes, describe:	ne of inspection?  \Yes	AK10			

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 Required?	Corrective Action Needed and Notes
1	SITFEnce around Excavation	AYes DNo	Yes DNo	Installed today (11/17/14), 2 sides
2		□Yes □No	□Yes □No	,
3		QYes QNo	□Yes □No	
4		QYes QNo	□Yes □No	
5		□Yes □No	□Yes □No	
6		QYes QNo	□Yes □No	
7		□Yes □No	□Yes □No	
8		□Yes □No	□Yes □No	
9		QYes QNo	□Yes □No	
10		QYes QNo	QYes QNo	

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?	DYes DNo	Ves INO	N/4
2	Are natural resource areas (e.g., streams, wetlands, mature trees, etc.) protected with barriers or similar BMPs?	AYes □No	UYes WNo	
3	Are perimeter controls and sediment barriers adequately installed (keyed into substrate) and maintained?	XIYes □No	TYes XNo	
4	Are discharge points and receiving waters free of any sediment deposits?	AYes □No	Yes Wo	
5	Are storm drain inlets properly protected?	Hes ONO	Ves-ONO NA	N/A
6	Is the construction exit preventing sediment from being tracked into the street?	XYes ONo	Yes XNo	
7	Is trash/litter from work areas collected and placed in covered dumpsters?	AYes □No	UYes XNo	
8	Are washout facilities (e.g., paint, stucco, concrete) available, clearly marked, and maintained?	DYes DNo NA	DYes DNO	N/A
9	Are vehicle and equipment fueling, cleaning, and maintenance areas free of spills, leaks, or any other deleterious material?	AYes □No	DYes WNo	
10	Are materials that are potential stormwater contaminants stored inside or under cover?	IVes INo	OYes ONo	N/A
11	Are non-stormwater	QYes QNo	QYes QNo	TN/A

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	UYes QNo	Polloff box covered
Are wastes properly stored with no risk of discharge?	MYes □No	UYes Q(No	Roll off Box Covered.
(Other)	□Yes □No	QYes QNo	
v c r z d d	vith vegetations and/or contained by silt fence or other appropriate and equired controls? Are wastes properly tored with no risk of lischarge?	vith vegetations and/or contained by silt fence or other appropriate and equired controls? Are wastes properly tored with no risk of lischarge?	vith vegetations and/or contained by silt fence or other appropriate and equired controls? Are wastes properly tored with no risk of lischarge?

#### Non-Compliance

Describe any incidents of non-compliance not described above: NA 11/17/14 Date 11/16/14 Prepared By ne Date

**Reviewed By** 

General Information								
Project Name	BI200/ATARA							
NPDES Tracking No.	2	Location	ATA ADC					
Date of Inspection	11/18/14	Start/End Time	1620-1625					
Inspector's Name(s)	RichSprinzl							
Inspector's Title(s)	Environmental Er	ngiheer/Im						
Inspector's Contact Information	330-348-13	18						
Describe present phase of construction	Environmental En 330-348-13 ATA Excavat	ión						
Type of Inspection:           Regular         Pre-storm event	During storm event	D Post-storm e	vent					
ľ	Weather Info	provident and and and a state of the second s						
Has there been a storm event since the last inspection?       □Yes         If yes, provide:       Storm Start Date & Time:       Storm Duration (hrs):         Approximate Amount of Precipitation (in):								
Weather at time of this inspection?         Clear       Accloudy         Rain       Sleet         Fog       Snowing         High Winds         Other:       Temperature: Ap ^e								
Have any discharges occurred since the last inspection?  Yes No If yes, describe:								
Are there any discharges at the tin If yes, describe:	ne of inspection? 🗆 Yes 🛛 🗵	Are there any discharges at the time of inspection?  Yes 2No If yes, describe:						

### **Stormwater Construction Site Inspection Report**

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 Required?	Corrective Action Needed and Notes
1	Sitt Fence-W+SWall	Urges INo	□Yes In No	Installed 11/15/14
2	Straw Pale , n Dotch	BYes DNo	Yes Mo	Installed rill9/14
3		□Yes □No	Yes No	1
4		<b>UYes UNo</b>	Yes No	
5		QYes QNo	□Yes □No	
6		QYes QNo	QYes QNo	
7		QYes QNo	QYes QNo	
8		<b>UYes UNo</b>	QYes QNo	
9		□Yes □No	□Yes □No	
10		<b>UYes UNo</b>	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.

 $\bigcirc$ 

	BMP/activity	Implemented?	Maintenance Required?	Corrective Action Needed and Notes
1	Are all slopes and disturbed areas not actively being worked properly stabilized?	QYes QNo	Yes No	N/A
2	Are natural resource areas (e.g., streams, wetlands, mature trees, etc.) protected with barriers or similar BMPs?	AYes □No	UYes No	
ł	Are perimeter controls and sediment barriers adequately installed (keyed into substrate) and maintained?	XYes □No	□Yes □No	
ļ	Are discharge points and receiving waters free of any sediment deposits?	Yes ONo	DYes DNo	
;	Are storm drain inlets properly protected?	QYes QNo	QYes QNo	NA
)	Is the construction exit preventing sediment from being tracked into the street?	Yes INo	TYes ANO	
1	Is trash/litter from work areas collected and placed in covered dumpsters?	¥Yes □No	□Yes □No	
3	Are washout facilities (e.g., paint, stucco, concrete) available, clearly marked, and maintained?		□Yes □No	NA
}	Are vehicle and equipment fueling, cleaning, and maintenance areas free of spills, leaks, or any other deleterious material?	¥Yes □No	QYes QNo	
0	Are materials that are potential stormwater contaminants stored inside or under cover?	QYes DNo	□Yes □No	Rolloff Boxes Gvered/Ined
1	Are non-stormwater	QYes QNo	QYes QNo	TNR
	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 DNo	□Yes □No	
14	(Other)	□Yes □No	□Yes □No	

# Non-Compliance Describe any incidents of non-compliance not described above: NA NA I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I

**Reviewed By** 

Date

General Information						
Project Name	RVAAP BROOL	ATA RA	,			
NPDES Tracking No.	3	Location	BIZOD/ATTA AOCS			
Date of Inspection	$  / G/ Y$ Start/End Time $D \otimes  B / B \otimes Q$					
Inspector's Name(s)	Inspector's Name(s) RichSprinzl					
Inspector's Title(s)	Env Engineer/F	-pn				
Inspector's Contact Information	-338-348-1	378				
Describe present phase of construction	ATA-post exava	him				
	BIZOD- excavation					
Type of Inspection:Pre-storm event	During storm event	D Post-storm e	vent			
	Weather Info	rmation				
Has there been a storm event since	the last inspection? DYes	No Reve				
If yes, provide: Storm Start Date & Time: S						
Storm Start Date & Time: S	torm Duration (hrs):	Approximate	Amount of Precipitation (in):			
Weather at time of this inspection?	) /		· · · · · · · · · · · · · · · · · · ·			
		wing 🛛 High Win	ds			
□ Other: Temperature: 15-20°						
Have any discharges occurred since the last inspection? DYes Division						
Are there any discharges at the time of inspection? TYes 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.

Constant of the	Corrective Action			
	BMP	BMP Installed?	BMP Maintenance Required?	Corrective Action Needed and Notes
1	ATA Silt France	XYes INo	UYes & No	11/17/14
2	ATA STRAW Bale Bern	XIYes DNo	UYes DNo	11/18/14
3	BIZOD, SAH+FEILCE	DiYes DNo	UYes &No	Installed 11/19/14-South end of Ditch
4	BIZON Hay Balo Bern	∭Yes □No	Yes Mo	Installed 11/19/14-North end of Dtch
5	BIZOD HayBalo Benn	ZYes DNo	Yes MNo	Installed Illighty around stockpile
6		QYes QNo	QYes QNo	
7		QYes No	QYes QNo	
8		QYes QNo	QYes QNo	
9		QYes QNo	QYes QNo	
10		Yes No	QYes QNo	

# **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	M/A-
2	Are natural resource areas (e.g., streams, wetlands, mature trees, etc.) protected with barriers or similar BMPs?	AYes INo	DYes ANo	
3	Are perimeter controls and sediment barriers adequately installed (keyed into substrate) and maintained?	DY es □No	Yes XNo	
4	Are discharge points and receiving waters free of any sediment deposits?	Qves □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?	XYes □No	DYes QNo	
7	Is trash/litter from work areas collected and placed in covered dumpsters?	Yes DNo	TYes No	
8	Are washout facilities (e.g., paint, stucco, concrete) available, clearly marked, and maintained?	□Yes □No	QYes QNo	M/A
9	Are vehicle and equipment fueling, cleaning, and maintenance areas free of spills, leaks, or any other deleterious material?	XYes □No	TYes XNo	N/A
10	Are materials that are potential stormwater contaminants stored inside or under cover?	ØYes □No	TYes ONO	Rolloffs covered/lined Stockpiles/open excavation covered
11	Are non-stormwater	QYes No	QYes QNo	MA

100 million 100		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	,	Stackpiles covered, Hay Bale Bern. Rolloffs Covered/lined
	13	Are wastes properly stored with no risk of discharge?	ØYes □No	Yes No	Roll offs covercel/incd Stockpiles covercel
	14	(Other)	□Yes □No	□Yes □No	

Non-Compliance

Describe any incidents of non-compliance not described above:

Prepared By

**Reviewed By** 

Date

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Date

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General Information						
Project Name	RVAAP BIZDO	ATA RA				
NPDES Tracking No.	14	Location	BIZOD/ATA ADCS			
Date of Inspection	11/20/14	Start/End Time	1215/1315			
Inspector's Name(s)						
Inspector's Title(s)	EnvEngineer					
Inspector's Contact Information	330 348-1378					
Describe present phase of construction	Excurition					
Type of Inspection:           Image: Construction of the second s	During storm event	D Post-storm e	event			
	Weather Inf	ormation				
If yes, provide:						
Weather at time of this inspection?         □ Clear       □ Clear         □ Clear       □ Cloudy         □ Rain       □ Sleet         □ Fog       □ Snowing         □ Other:       □ Temperature:						
Have any discharges occurred since the last inspection?						
Are there any discharges at the tin If yes, describe:	فر of inspection? 🛛 Yes	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.

	BMP	BMP Installed?	BMP Maintenance Required?	Corrective Action Needed and Notes
1	ATA SIT Fonce	Aryes DNo	Yes Mo	
2	ATA STAW Bale Specke	NZIYes DNo	Yes ANo	
3	BIZOD Silterce	XIYes DNo	□Yes QXNo	South of Ditch, extension added today
4	BIZOD Hay Bale CheckDum	Yes No	□Yes ⊠No	Nend of Ditch'
5	Brow Hay Bale Born	AYes No	Yes SNo	Bitostockpile
6	P 1. 1. 1 C1	QYes QNo	QYes QNo	
7		Yes No	□Yes □No	
8		Yes No	QYes No	
9		Yes No	QYes No	
10		QYes QNo	□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?	AYes ONO	QYes QNo	NA
2	Are natural resource areas (e.g., streams, wetlands, mature trees, etc.) protected with barriers or similar BMPs?	⊠Ýes □No	UYes SNo	
3	Are perimeter controls and sediment barriers adequately installed (keyed into substrate) and maintained?	Yes □No	Yes ANo	
4	Are discharge points and receiving waters free of any sediment deposits?	PAXes □No	UYes QNo	
5	Are storm drain inlets properly protected?	QYes QNo	QYes QNo	N/A
6	Is the construction exit preventing sediment from being tracked into the street?	Yes No	UYes ANo	
7	Is trash/litter from work areas collected and placed in covered dumpsters?	ØYes ⊡No	TYes No	
8	Are washout facilities (e.g., paint, stucco, concrete) available, clearly marked, and maintained?	DYes DNo	-DYes DNo	P/A-
9	Are vehicle and equipment fueling, cleaning, and maintenance areas free of spills, leaks, or any other deleterious material?	QYes DNo	OYes ONo	
10	Are materials that are potential stormwater contaminants stored inside or under cover?	ØYes □No	UYes UNo	Rolloffs e Bla36 -covered/lined -Stockpile, covered MA
11	Are non-stormwater	QYes QNo_	TYes DNo	$I \mathcal{M} \mathcal{M}$

	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?	Źł¥es ⊡No	□Yes XNo	Strow bule berm
13	Are wastes properly stored with no risk of discharge?	ØYes □No	□Yes QNo	· · · · · · · · · · · · · · · · · · ·
14	(Other)	□Yes □No	□Yes □No	

# Non-Compliance

Describe any incidents of non-compliance not described above: NA 1/1201 'Ψ Date Prepared By 21/14 1 4 cat

**Reviewed By** 

Date

Stormwater	Construction	Site ]	Inspection	Report

General Information					
Project Name	RVAAP BIZODI	ATARA			
NPDES Tracking No.	5	Location	BIZOD/ATA AUGS		
Date of Inspection	11/21/14	Start/End Time	1513/1045		
Inspector's Name(s)	RichSprinzl				
Inspector's Title(s)	EnvEng				
Inspector's Contact Information	330-348-1378				
Describe present phase of construction	Exacution/Loui	laut			
Type of Inspection: ¬CRegular □ Pre-storm event	During storm event	D Post-storm	event		
$\sim$	Weather Inf	ormation			
Has there been a storm event since	the last inspection?	es 🗆 No			
If yes, provide:					
	torm Duration (hrs): WOLLETNIGHT	Approximate	Amount of Precipitation (in):		
Weather at time of this inspection?	, • )				
□ Clear □ Cloudy □ Rain □ Sleet □ Fog □ Snowing □ High Winds □ Other:					
Have any discharges occurred since the last inspection? DYes ZNo If yes, describe:					
Are there any discharges at the tim If yes, describe:	e of inspection? 🛛 Yes 🇯	No			

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 Required?	Corrective Action Needed and Notes
1	ATA SILFFONCE	GaYes □No	UYes ANo	Extension added today
2	ATA Stron hale Checkdam	PYes INo	Yes No	0
3	B/200 Silt Pence	Yes No	□Yes <b>{</b> No	South end of Ditch
4	BIZODIDTOW CHECK Dam	DYes ONo	□Yes ⊠(No	North end of Ditch
5	BI200 Straw Bern	⊠Yes □No	Yes ANO	BIZOD Stockpile
6		□Yes □No	□Yes □No	
7		QYes QNo	□Yes □No	
8		□Yes □No	□Yes □No	
9		QYes QNo	QYes QNo	
10		QYes QNo	<b>UYes UNo</b>	

## **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
		×	Required?	
L	Are all slopes and disturbed areas not actively being worked properly stabilized?	ØYes □No	□Yes ,21No	
2	Are natural resource areas (e.g., streams, wetlands, mature trees, etc.) protected with barriers or similar BMPs?	Yes DNo	□Yes_DiNo	
3	Are perimeter controls and sediment barriers adequately installed (keyed into substrate) and maintained?	VIYes DNo	□Yes ∕ ûNo	
1	Are discharge points and receiving waters free of any sediment deposits?	Bayes □No	UYes DANo	
5	Are storm drain inlets properly protected?	QYes QNo	QYes QNo	-N/A-
6	Is the construction exit preventing sediment from being tracked into the street?	Dyces DNo	UYes UNo	
7	Is trash/litter from work – areas collected and placed in covered dumpsters?	-OYes □No	UYes>UNo	
8	Are washout facilities (e.g., paint, stucco, concrete) available, clearly marked, and maintained?	QYes QNo	UYes UNo	XI/M
9	Are vehicle and equipment fueling, cleaning, and maintenance areas free of spills, leaks, or any other deleterious material?		DYes DNo	
10	Are materials that are potential stormwater contaminants stored inside or under cover?	XYes □No	UYes DNo	Excavations/Rolloffs/Stockpiles Covered
11	Are non-stormwater	UYes-ONo	QYes QNo	1 1 1 k-

	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?	7	UYes QNO	
13	Are wastes properly stored with no risk of discharge?	Der Ves DNo	□Yes ⊠No	
14	(Other)	□Yes □No	□Yes □No	

# Non-Compliance

Describe any incidents of non-compliance not described above:

NA

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Prepared By

Date/

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**Reviewed By** 

Date

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Stormwater	Construction	Site Ins	pection	Report
Stol myratel	Constitution	Dite 1113	pection	report

General Information						
Project Name	BIZDO/ATAM	F				
NPDES Tracking No.	6	Location	BIZED/ATTA ADCS			
Date of Inspection	1724/14	Start/End Time	1200/7745			
Inspector's Name(s) RichSprinz (						
Inspector's Title(s)	EnvEng					
Inspector's Contact Information	350-348-1348					
Describe present phase of construction	Excavation/L	oad out				
Type of Inspection:     □ Regular   □ Pre-storm event	During storm event	D Post-storm e	event			
	Weather, Info					
Has there been a storm event since	the last inspection? AYe	s 🗆 No				
If yes, provide: Storm Start Date & Time; S $11/2.2 \sim 0.09^{\prime\prime}$ $11/2.3^{\prime\prime}$	torm Duration (hrs):	Approximate	Amount of Precipitation (in)			
Weather at time of this inspection?         Clear       Cloudy         Rain       Sleet         Fog       High Winds         Other:       Temperature:						
Have any discharges occurred since the last inspection? Eyes ONO If yes, describe: Some Water on top of plashe phi ditch over flowed Southend and through silf-schee						
Are there any discharges at the tin If yes, describe:	ie of inspection? DYes Ø	No				

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	on Log.		
	BMP	BMP Installed?	BMP Maintenance Required?	Corrective Action Needed and Notes
1	ATASILFFence.	≻⊡¥es □No	UYes ONO	
2	ATA Strawbalecherk	den Zyes DNo	Yes XNo	
3	B1200511+Gence	Kes □No	Yes No	South end of the
4	BIT NO SMW Checkel	Jun Dryes DNo	Yes INo	Nendof Ditch,
5	BRODSTRIN BEIM	SYes DNo	□Yes ⊠No	Replaced w/sittfence we to unfrozen condition
6	BILOD Straw CheckDu	m Yes ONo	□Yes ☑No	Added 11/24/14/North of OpenArea)
7		Yes No	QYes QNo	
8		QYes QNo	□Yes □No	
9		QYes No	QYes No	
10		Yes No	QYes QNo	
	1	1.	A	

R5 11/24/14

**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	Corrective Action Needed and Notes
	<b>-</b>	OYes ONo	Required?	
/	Are all slopes and disturbed areas not actively being worked	UTES UNO		
2	properly stabilized? Are natural resource	Yes INO	Yes No	
2	Are natural resource areas (e.g., streams, wetlands, mature trees, etc.) protected with barriers or similar BMPs?	ares and	Li res Ento	
3	Are perimeter controls and sediment barriers adequately installed (keyed into substrate) and maintained?	<u>Nyes</u> □No	UYes X No	
4	Are discharge points and receiving waters free of any sediment deposits?	ÄlYes 🗆 No	□Yes StNo	
5	Are storm drain inlets properly protected?	Yes No	QYes QNo	W/A-
6	Is the construction exit preventing sediment from being tracked into the street?	Owes ONO	UYes UNo	
7	Is trash/litter from work areas collected and placed in covered dumpsters?	DYes DNo	UYes DNo	
8	Are washout facilities (e.g., paint, stucco, concrete) available, clearly marked, and maintained?	QYes DNo	QYes QNo	NA
9	Are vehicle and equipment fueling, cleaning, and maintenance areas free of spills, leaks, or any other deleterious material?	Ø¥es_□No	TYes (SN)	Ø\$
10	Are materials that are potential stormwater contaminants stored inside or under cover?	Dives Divo	TYes Sho	Rolloffs covered. Excavations covered.
	i i	QYes QNo	QYes QNo	

. : .

<ul> <li>all all all all all all all all all all</li></ul>		Required?	
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?	Ves No	□Yes □No	NA
Are wastes properly stored with no risk of	∑21Yes □No	UYes X No	Rolloffs Covered/lined
(Other)	QYes QNo	QYes QNo	
	<ul> <li>water, dewatering) properly controlled?</li> <li>Are spoil piles stabilized with vegetations and/or contained by silt fence or other appropriate and required controls?</li> <li>Are wastes properly stored with no risk of discharge?</li> </ul>	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?	water, dewatering)       properly controlled?         Are spoil piles stabilized       UYes UNo         with vegetations and/or contained by silt fence or other appropriate and required controls?       UYes UNo         Are wastes properly stored with no risk of discharge?       UYes UNo

# Non-Compliance

Describe any incidents of non-compliance not described above: NA 24/14 17 Date **Prepared By** 11/25/14 Date **Reviewed By** 

General Information						
Project Name	BI200/ATARA	_				
NPDES Tracking No.	7	Location	B1200/ATTA 1250-1345			
Date of Inspection	11/25/14	Start/End Time	1250-1345			
Inspector's Name(s)	RichSprinzl					
Inspector's Title(s)	Enverg					
Inspector's Contact Information	330-348-1378					
Describe present phase of construction	Post-Excavation					
Type of Inspection:     Regular   Pre-storm event	During storm event	D Post-storm e	event			
	Weather In					
Has there been a storm event since	the last inspection?	es 🛛 No				
If yes, provide:		<b>.</b>	Amount of Provinitation (in):			
11/24/14 - trai		Approximate	Amount of Precipitation (in):			
Weather at time of this inspection						
Action Action (1997)	Sleet D Fog D Sn	owing 🛛 High Wir	nds			
Other:	Temperature	В				
Have any discharges occurred since the last inspection? UYes ANO If yes, describe:						
Are there any discharges at the time of inspection? Types 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.

	BMP	BMP Installed?	BMP Maintenance Required?	Corrective Action Needed and Notes
1	A-A-Siltfance .	AYes No	QYes QNo	
2	ATA Straw Fale checkdym	₩¥es □No	□Yes □No	
3	BIZODSHAME	□Yes □No	QYes QNo	S. end OF Ditch
4	81200 Strawcheckdam	□Yes □No	□Yes □No	N end of Atch
5	B1200 straw berng sill find	UYes UNo	<b>U</b> Yes <b>D</b> No	(formerly strawbern)
6	BIZODSTRAW Cherk dam	□Yes □No	□Yes □No	Not open Aren
7		QYes QNo	□Yes □No	
8		□Yes □No	QYes QNo	
9		QYes QNo	□Yes □No	
10		□Yes □No	□Yes □No	

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# **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	UYes UN6	
2	Are natural resource areas (e.g., streams, wetlands, mature trees, etc.) protected with barriers or similar BMPs?	Yes INo	UYes ONo	
3	Are perimeter controls and sediment barriers adequately installed (keyed into substrate) and maintained?	Xyes DNo	□Yes QMNo	
4	Are discharge points and receiving waters free of any sediment deposits?	ØYes □No	UYes ANo	
5	Are storm drain inlets properly protected?		QYes QNo	- NA
6	Is the construction exit preventing sediment from being tracked into the street?	DY Kes DNo	TYes TSKNo	
7	Is trash/litter from work areas collected and placed in covered dumpsters?	XYes DNo	□Yes QNo	
8	Are washout facilities (e.g., paint, stucco, concrete) available, clearly marked, and maintained?	UYes UNo	Yes ONo	W/A
9	Are vehicle and equipment fueling, cleaning, and maintenance areas free of spills, leaks, or any other deleterious material?	QYes QNo	QYes QNo	NA
10	Are materials that are potential stormwater contaminants stored inside or under cover?	DYes DNo	□Yes QKNo	Excavations covered Rolloffs coverce
11	Are non-stormwater	Yes No	QYes QNo	LAR

	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?	UYes DNo	UYes ONo	NA
13	Are wastes properly stored with no risk of discharge?	Ge¥es □No	□Yes QNo	Rolloffs @ Blo36 Covered
14	(Other)	□Yes □No	DYes DNo	

# Non-Compliance

Describe any incidents of non-compliance not described above: N/A 5/14 Date Prepared By 1 26/14

**Reviewed By** 

Date

General Information							
Project Name	BI200/ATA RA						
NPDES Tracking No.	8	Location	BIZOO /ATA				
Date of Inspection	12/01/14	Start/End Time	Ø815-0845				
Inspector's Name(s)	Env Engineer 339-4ps: 58/22						
Inspector's Title(s)	Env Enviner						
Inspector's Contact Information	339-465.58/2						
Describe present phase of construction	Post Exeauation						
Type of Inspection:	During storm event	Post-storm e	vent				
	Weather Info	ormation					
If yes, provide:	Storm Start Date & Time: Storm Duration (hrs): Approximate Amount of Precipitation (in):						
Weather at time of this inspection?         Clear       Clear         Clear       Cloudy         Rain       Sleet         Fog       Snowing         High Winds         Temperature:       Sloef							
Have any discharges occurred since the last inspection?  Yes MNo If yes, describe:							
Are there any discharges at the time of inspection?  Yes SiNo 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.

1048956655	Corrective Action	BMP	BMP	Corrective Action Needed and Notes
	BMP	Installed?	Maintenance Required?	Corrective Action Preeded and Protes
1	ATA Silt fonce	ØYes □No	□Yes ØNo	
2	ATA Straw pale chickede	⊠Yes □No	UYes ANo	
3	BI200 silt fina	XIYes DNo	UYes WNo	South of ditch,
4	BI200 straw chick dam	⊠Yes □No	□Yes 🖾No	N and of ditch
5	B1200 sitt Ence	VYes INO	UYes No	Opin prin
6	BIZOD Strow chick dam	QaYes □No	□Yes 🖾No	North of Opin Arm
7		<b>U</b> Yes <b>U</b> No	□Yes □No	<b>4</b>
8		<b>U</b> Yes <b>D</b> No	<b>U</b> Yes <b>U</b> No	
9		□Yes □No	QYes QNo	
10		<b>UYes UNo</b>	□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	Corrective Action Needed and Notes
1	Are all slopes and disturbed areas not actively being worked properly stabilized?	XayYes □No	Required?	
2	Are natural resource areas (e.g., streams, wetlands, mature trees, etc.) protected with barriers or similar BMPs?	XayYes ⊡No	□Yes UNo	
3	Are perimeter controls and sediment barriers adequately installed (keyed into substrate) and maintained?	XYes □No	TYes No	
4	Are discharge points and receiving waters free of any sediment deposits?	¥Yes □No	□Yes No	
5	Are storm drain inlets properly protected?	QYes QNo	QYes QNo	NA
6	Is the construction exit preventing sediment from being tracked into the street?	AYes ONo	TYes No	
7	Is trash/litter from work areas collected and placed in covered dumpsters?	¶Yes □No	TYes No	
8	Are washout facilities (e.g., paint, stucco, concrete) available, clearly marked, and maintained?	QYes QNo	QYes QNo	NA
9	Are vehicle and equipment fueling, cleaning, and maintenance areas free of spills, leaks, or any other deleterious material?	QYes QNo	UYes DNo	NA
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?	AYes INo	□Yes MNo	Roll off boxes covered
14	(Other)	TYes No	□Yes □No	
				NA

# Non-Compliance

Describe any incidents of non-compliance not described above:

NA

et yon_

12/1/14

Prepared By

Reviewed By

Date

12/12/14 Date

General Information						
Project Name	BIZADIATA RA		1			
NPDES Tracking No.	9	Location	BIZENS ATA AUCS			
Date of Inspection	12/8/14	Start/End Time	092\$ - \$95\$			
Inspector's Name(s) Citey Paced						
Inspector's Title(s)	ENVIRONMENTAL	ENGINEEL.				
<b>Inspector's Contact Information</b>	330-405-58	U				
Describe present phase of construction	EXCAVATION -	PHASE I				
Type of Inspection: WRegular Pre-storm event	During storm ever Weather	ent Dost-storm e	vent			
Has there been a storm event since the last inspection? □Yes         If yes, provide:       Yes         Storm Start Date & Time:       Storm Duration (hrs):						
Weather at time of this inspection? Clear Cloudy Rain Sleet Fog Snowing High Winds Other: 35°F						
Have any discharges occurred since the last inspection? (AYes AND ONE) and discharges occurred since the last inspection? (AYes AND ONE) and discharges at the last inspection? (BYes AND ONE) and discharges at the time of inspection? (BYES AND ONE) area pumped through strawbules/sill find Are there any discharges at the time of inspection? (BYES AND						
Are there any discharges at the tin If yes, describe:	ne of inspection? UYes	MNO ,				

## 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	percent in the second se	Corrective Action Needed and Notes	
	BMP	BMP Installed?	BMP Maintenance Required?	Corrective Action Needed and Notes
1	ATA Silt Fence	AYes DNo	□Yes □No	
2	ATA Strawi bale chuck	🖄 Yes 🗆 No	□Yes □No	
3	BIZDE GILFFENCE	🛛 Yes 🗆 No	□Yes □No	South of ditch
4	BIZED strawbule check	Yes No	□Yes □No	North end . F Ditch
5	BIZER Silt France	Yes No	□Yes □No	Open area
6	Bizty chow check im	YaYes DNo	□Yes □No	North of open area
7		□Yes □No	□Yes □No	0 +
8		QYes QNo	QYes QNo	
9		□Yes □No	QYes QNo	
10		QYes QNo	Tes 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	Corrective Action Needed and Notes
		M. D.	Required?	
1	Are all slopes and disturbed areas not actively being worked properly stabilized?	¥Yes □No	Yes DNo	
2	Are natural resource areas (e.g., streams, wetlands, mature trees, etc.) protected with barriers or similar BMPs?	∰Yes □No	TYes ANO	
3	Are perimeter controls and sediment barriers adequately installed (keyed into substrate) and maintained?	Yes DNo	UYes ANo	
4	Are discharge points and receiving waters free of any sediment deposits?	DYes DNo	□Yes JNo	
5	Are storm drain inlets properly protected?	ロYes ロNo い/A	□Yes □No N/A	NA
6	Is the construction exit preventing sediment from being tracked into the street?	DYes DNo	Yes No	
7	Is trash/litter from work areas collected and placed in covered dumpsters?	XYes □No	Cares ANo	
8	Are washout facilities (e.g., paint, stucco, concrete) available, clearly marked, and maintained?	□Yes □No N/A	UYes UNo	NLA
9	Are vehicle and equipment fueling, cleaning, and maintenance areas free of spills, leaks, or any other deleterious material?	⊡Yes □No א /א	□Yes □No J/A	NA
10	Are materials that are potential stormwater contaminants stored inside or under cover?	ØYes □No	□Yes ØNo	
11	Are non-stormwater	QYes QNo	QYes QNo	NIA

	BMP/activity	Implemented?	Maintenance Required?	Corrective Action Needed and Notes
	discharges (e.g., wash water, dewatering) properly controlled?	нA	NIA	NA
12	Are spoil piles stabilized with vegetations and/or contained by silt fence or other appropriate and required controls?	∰aYes □No	□Yes ØNo	stockpile covered w/plantic and second. Surrounded by straw bules.
13	Are wastes properly stored with no risk of discharge?	ØYYes □No	□Yes XNo	stickpile on plastic with ift excavation counted with plastic and second.
14	(Other)	QYes QNo	□Yes □No	L
		NA	~/A	NA

Non-Compliance
Describe any incidents of non-compliance not described above:

N/A

C. Para

12/8/14 Date

Prepared By

Reviewed By

Date 12/12/14

General Information							
Project Name	BIZDØ/ATA RA						
NPDES Tracking No.	Iø	Location	BIZKO/ATTA AOCS				
Date of Inspection	12/9/14	Start/End Time	\$ 83\$ +0 \$9\$\$\$				
Inspector's Name(s)     Coley Paces       Inspector's Title(s)     Env. Engineer       Inspector's Contact Information     37.0-553-6015-3							
Inspector's Title(s)	Env. Engineer						
Inspector's Contact Information	1370-553-615	3					
Describe present phase of							
construction	EXCANATION-	PHASE JI					
Type of Inspection:	During storm ev	ent 🛛 Post-storm ex	/ent				
Г.	gelaam aan magte tuur stele faar aan aan a	Information					
Has there been a storm event since	the last inspection? □	IYes ANo					
If yes, provide: Storm Start Date & Time: Storm Start Date & Time: Start Start Date & Start Star	torm Duration (hrs):	Annrovimate	Amount of Precipitation (in):				
Storm Start Date & Time. 3	torm Duration (ms).	Approximate 7	inoun of recipitation (in).				
Weather at time of this inspection?							
Clear Cloudy Cloudy Rain	Sleet Grog G	Snowing D High Wine	ds				
□ Other: I hain water on top of plastic at B1266 a ^{40°} F ditchlow. Have any discharges occurred since the last inspection? ¥Yes □No							
Have any discharges occurred since the last inspection? WYes DNo							
If yes, describe:							
- 7	·· ·· · · · · ·	<b>ГЭ</b> Х 1					
Are there any discharges at the tim	e of inspection? Wayes	<b>LI</b> 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	1 205.		
	BMP	BMP Installed?	BMP Maintenance Required?	Corrective Action Needed and Notes
1	ATTA S.H. Ferce	[□] Yes □No	🛛 Yes 🖬 No	
2	ATH strubule chich	th Yes □No	QYes QNo	
3	Bizo Silffence	DYes □No	QYes QNo	South of diffh
4	Bizdd strawhale	QYes QNo	QYes QNo	North end of diffh
5	Bizer sittence	QYes QNo	QYes QNo	Deen dren
6	BIZED Structure	Yes No	<b>U</b> Yes <b>U</b> No	No-n y open men.
7		QYes QNo	QYes QNo	
8		QYes QNo	QYes QNo	
9		QYes QNo	□Yes □No	
10		QYes QNo	QYes QNo	

## **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?	ØrYes □No	□Yes QNo	
2	Are natural resource areas (e.g., streams, wetlands, mature trees, etc.) protected with barriers or similar BMPs?	Yes No	□Yes Qhio	
3	Are perimeter controls and sediment barriers adequately installed (keyed into substrate) and maintained?	949Yes □No	□Yes ZINo	
4	Are discharge points and receiving waters free of any sediment deposits?	Ayres □No	TYes StNo	
5	Are storm drain inlets properly protected?	UYes ONO N/A	□Yes □No N/A	N/A
6	Is the construction exit preventing sediment from being tracked into the street?	ØrYes □No	UYes QNO	
7	Is trash/litter from work areas collected and placed in covered dumpsters?	byyes □No	□Yes ¤No	
8	Are washout facilities (e.g., paint, stucco, concrete) available, clearly marked, and maintained?	DYes DNO	□Yes □No N/A	~ la
9	Are vehicle and equipment fueling, cleaning, and maintenance areas free of spills, leaks, or any other deleterious	□Yes □No N/A	□Yes □No N/A	NA
10	material? Are materials that are potential stormwater contaminants stored inside or under cover?	Ayyes DNo	TYes UNO	
11	Are non-stormwater	Yes No	Yes No	NIA·

		BMP/activity	Implemented?	Maintenance Required?	Corrective Action Needed and Notes
C.S.		discharges (e.g., wash water, dewatering) properly controlled?	۸IA	NA	NA
	12	Are spoil piles stabilized with vegetations and/or contained by silt fence or other appropriate and required controls?	AYes INo	□Yes ⊠No	stock file covered w/plastic and secured Surrounded my straw balles.
	13	Are wastes properly stored with no risk of discharge?	ØYes □No	□Yes ØNo	Stockfile on plastic which I to excavation w/plastic + seemed
	14	(Other)	□Yes □No N(A	שYes םNo א א	~/A

# Non-Compliance

Describe any incidents of non-compliance not described above: N/A Phi Ā 12/9/14 Prepared By Date 12/12/14

**Reviewed By** 

Date

General Information								
Project Name	BIZOO/ATA RA							
NPDES Tracking No.	11	Location	BIZØØ/ATA AUG					
Date of Inspection	12/10/14	Start/End Time	07-1100-1245					
Inspector's Name(s) Concy Pacen								
Inspector's Title(s)	ENVIRONMENT	AL ENGINEEL						
<b>Inspector's Contact Information</b>	330-353-615	3						
Describe present phase of construction								
(Fype of Inspection: DRegular DPre-storm event	During storm event	D Post-storm e	vent					
70	Weather Inf	ormation						
If yes, provide:								
Weather at time of this inspection?         Clear       Cloudy         Rain       Sleet         Fog       Snowing         High Winds         Other:       Temperature: 32 of								
Have any discharges occurred sinc If yes, describe: <u>RAIN WATE</u> Are there any discharges at the tim If yes, describe:	e the last inspection?	Ves INO AB LC AT BI NO	240 OFEN AREA.					

## 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	we want the second s	nxen	Committee Antion Needed and Nator
	BMP	BMP Installed?	BMP Maintenance Required?	Corrective Action Needed and Notes
1	ATH SILL FRACE	TYes No	Yes No	
2	ATA StrawBall Check	QYes No	Yes No	
3	B1200 Silt Fence	Yes No	□Yes 印No	South of Ditch
4	BIZONO Straw Bale	QYes QNo	□Yes □No	North end of Ditch
5	BIZYSKÓ SILF FENCE	Yes No	Yes No	Open Arca
6	BIZOD Strawbulk	QYes QNo	□Yes ^① No	North of Open Area
7	the second s	Yes No	□Yes □No	
8		QYes No	QYes QNo	
9		QYes QNo	Yes No	
10	1 ·····	Yes No	QYes QNo	

**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?	ØYes □No	□Yes ØNo	
2	Are natural resource areas (e.g., streams, wetlands, mature trees, etc.) protected with barriers or similar BMPs?	Yes DNo	Yes No	
3	Are perimeter controls and sediment barriers adequately installed (keyed into substrate) and maintained?	QYes DNo	TYes ANo	
4	Are discharge points and receiving waters free of any sediment deposits?	¥ØYes □No	TYes ANo	
5	Are storm drain inlets properly protected?	DYes DNo N/A	DYes DNo NA	NA
6	Is the construction exit preventing sediment from being tracked into the street?	ØYes □No	Yes ANo	
7	Is trash/litter from work areas collected and placed in covered dumpsters?	NYes □No	□Yes INo	
8	Are washout facilities (e.g., paint, stucco, concrete) available, clearly marked, and maintained?	No NA	DYes DNo N/A	N /A
9	Are vehicle and equipment fueling, cleaning, and maintenance areas free of spills, leaks, or any other deleterious material?	NA	$\square$ Yes $\square$ No $\bowtie   A$	μA
10	Are materials that are potential stormwater contaminants stored inside or under cover?	QYes □No	ElYes ANO	
11	Are non-stormwater	UYes ONo	QYes QNo	NIA

400. 1997 - State 1997 - State		BMP/activity	Implemented?	Maintenance Required?	Corrective Action Needed and Notes
		discharges (e.g., wash water, dewatering) properly controlled?	NTA	NIA	R/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	l l
		stored with no risk of discharge?	N/A	N /A	N/A. All worstes of Site
	14	(Other)	QYes QNo	QYes QNo	
			N/A	NA	

Non-Compliance
Describe any incidents of non-compliance not described above: NA 12/10/14 Date Prepared By . 12/12/14 Ъ

**Reviewed By** 

Date

	Genera	l Information					
Project Name	BIZØG /	ATA CA					
NPDES Tracking No.	12	Location	BIZOO/ATA ADCS				
Date of Inspection	12/11/14	Start/End Time	0966-0930				
Inspector's Name(s) COREY PACEL Inspector's Title(s) ENGINEER							
Inspector's Title(s)	FM	J FNGINEER					
Inspector's Contact Information	330	-353-6153					
Describe present phase of construction	Describe present phase of						
Type of Inspection:	During storm a		vent				
Har there have a store quart days		r Information					
Has there been a storm event since If yes, provide: Storm Start Date & Time: St	orm Duration (hrs):		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 any discharges occurred since the last inspection? Are there any discharges at the time of inspection? Dres DNo							
Are there any discharges at the tim If yes, describe:	e of inspection? □Ye	s Into	ner an Sen i S				

## 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
   The second second

	BMP	BMP Installed?	BMP Maintenance Required?	Corrective Action Needed and Notes
1	ATA SILL FEACE	Yes No	Yes No	
2	ATA Straw Jules	Yes No	🛛 Yes 🖾 No	
3	DIZED Silffence	ŪYes □No	□Yes □No	South of Ditch
4	BIZOB Strawbule	[□] Yes □No	□Yes 印No	North Kind of Ditch
5	BIZERS Silt Fince	Yes No	QYes QNo	Out Aren
6	BIZER Strubuli	DYes ONo	QYes QNo	North MORIA area
7		□Yes □No	<b>U</b> Yes <b>U</b> No	
8		□Yes □No	<b>U</b> Yes <b>U</b> No	
9		□Yes □No	QYes QNo	
10		QYes QNo	<b>UYes UNo</b>	

**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?	ØYes ⊒No	TYes ANo	
2	Are natural resource areas (e.g., streams, wetlands, mature trees, etc.) protected with barriers or similar BMPs?	Yes DNo	DYes ZNo	
3	Are perimeter controls and sediment barriers adequately installed (keyed into substrate) and maintained?	GYes □No	□Yes DXo	
4	Are discharge points and receiving waters free of any sediment deposits?	ØYes □No	UYes ZINO	
5	Are storm drain inlets properly protected?	DYes DNo D/A	DYes □No N/A	XILA
6	Is the construction exit preventing sediment from being tracked into the street?	Ø¥es □No	UYes (2No	
7	Is trash/litter from work areas collected and placed in covered dumpsters?	QYes DNo	UYes XNo	
8	Are washout facilities (e.g., paint, stucco, concrete) available, clearly marked, and maintained?	DYes DNo	DYes DNo N∕A	
9	Are vehicle and equipment fueling, cleaning, and	□Yes □No	□Yes □No	
	maintenance areas free of spills, leaks, or any other deleterious material?	NA	NIA	NA
10	Are materials that are potential stormwater contaminants stored inside or under cover?	□Yes □No N (R	ש¥es ₪No א ת	NA Weste Juste
11	Are non-stormwater	Yes No	UYes ONo	NIA

0000000		BMP/activity	Implemented?	Maintenance Required?	Corrective Action Needed and Notes
		discharges (e.g., wash water, dewatering) properly controlled?	NA	NA	N/A
┢	12	Are spoil piles stabilized	QYes QNo	QYes QNo	
		with vegetations and/or contained by silt fence or other appropriate and required controls?	r) /4	NA	No stockpiles wastes off-site
	13	Are wastes properly	Yes No	QYes QNo	
		stored with no risk of discharge?	N/A	NA	N/A, Wasks of site
	14	(Other)	Yes No	QYes QNo	<u>O</u> u
*******			N/A	NA	Whotes Herte

# Non-Compliance

Describe any incidents of non-compliance not described above: NM 1Z Date Prepared By 12/12/14

Reviewed By

Date

		Information				
Project Name	BIZDON/ATARA					
NPDES Tracking No.	13	Location	BIZAD/ATA AOLS			
Date of Inspection	12/12/14	Start/End Time	1950 -1200			
Inspector's Name(s)	RichSprinzl					
Inspector's Title(s)	Env Engineer					
<b>Inspector's Contact Information</b>	Env Engineer 330-348-1378	2				
Describe present phase of SITE RESTORATION						
Type of Inspection:	During storm ev	ent D Post-storm e	vent			
Haa them have a starm arout size			arada da da su			
Has there been a storm event since If yes, provide:	e the fast hispection? •	Tes do				
	torm Duration (hrs):	Approximate	Amount of Precipitation (in):			
Weather at time of this inspection	>					
Clear Cloudy Rain	🗆 Sleet 🛛 Fog 🖓	Snowing 🛛 High Wir	ıds			
Temperature: 31°						
Have any discharges occurred sine If yes, describe:	-					
Are there any discharges at the tim If yes, describe: Some water in t	ie of inspection? Aves	avation - removed	-through still-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 Installed?	BMP Maintenance	Corrective Action Needed and Notes
1000	Ara S Il Canta	Serves DNo	Required?	
$\frac{1}{2}$	ATA-S, It Fonce ATA-Straw Chock Dam	UYes DNo	UYes UNo	
3	BIZOD Ditch Silt Force	QYes QNo	Tes DNo	
4	BI200 Ditch Straw Dam	QYes QNo	QYes QNo	
5	BIZOD OPEnArea Silffence	QYes DNo	QYes No	
6	BIZOD OcenAreastaw	[□] Yes □No	DYes DNo	
7		□Yes □No	QYes QNo	
8		□Yes □No	QYes QNo	
9		□Yes □No	□Yes □No	
10		□Yes □No	□Yes □No	

RSp- & 12/12/14

## **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	UYes 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?	X∃Xes □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?	DYes DNo N/A	□Yes □No N/A	N/A
6	Is the construction exit preventing sediment from being tracked into the street?	XYes DNo	□Yes ¤No	
7	Is trash/litter from work areas collected and placed in covered dumpsters?	ŹWes □No	TYes TNo	
8	Are washout facilities (e.g., paint, stucco, concrete) available, clearly marked, and maintained?	UYes DNo	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	TYes Mo	·
	Are non-stormwater	QYes QNo	DYes DNo	I NIK

	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	MA-wastes offsite
13	Are wastes properly stored with no risk of discharge?	Ves DNo	$\Box Yes \Box No$	
14	(Other)	QYes QNo	□Yes □No	

Non-Compliance
Describe any incidents of non-compliance not described above:

N/A

(

Prepared By

12 / Date 14 12

|2 | 13 Date

**Reviewed By** 

General Information									
Project Name	Project Name BIZOS/ATTA RA								
NPDES Tracking No.	14	Location	BILDO/ATTA AUCS						
Date of Inspection	12/10/14 Start/End Time 0938-1030								
Inspector's Name(s)	Inspector's Name(s) Rich Sprinz (								
Inspector's Title(s)	Env Engineer								
Inspector's Contact Information	Env Engineer 330-348-1378								
Describe present phase of construction	Describe present phase of best areas and best of the base of the b								
Type of Inspection: Regular Pre-storm event	During storm event	D Post-storm e	-						
Has there been a storm event since									
If yes, provide: Storm Start Date & Time: S $12/(6/(4 \sim 0), 20)$									
Weather at time of this inspection?       Very light/Enace         Clear       Cloudy       Rain       Sleet       Fog       Snowing       High Winds         Other:       Other:       Clear       Sleet       Fog       Snowing       High Winds									
Have any discharges occurred since the last inspection? If yes, describe: Are there any discharges at the time of inspection? 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 Corrective Action Log.

	COTTECTIVE ACTION	. 206.		······································
	BMP	BMP Installed?	BMP Maintenance Required?	Corrective Action Needed and Notes
1	ATA Silt Fince	⊠(Yes □No	□Yes ⊠No	
2	ATA Straw (hecklup	Nat Yes INo	Yes No	
3	BIZOD SittFonce	ØYes □No	Yes ZNo	
4	BIJOD Straw Oreck Dum	Yes No	□Yes ØNo	
5	BIZOD SI H FENCE	AYes ONo	XSYes □No	Need to Extend during Remob
6	B1200 Straw Check Dym	Deves DNo	DYes 24No	0
7		□Yes □No	<b>U</b> Yes <b>U</b> No	
8		□Yes □No	□Yes □No	
9		□Yes □No	□Yes □No	
10		QYes QNo	<b>UYes No</b>	

R5mf 12/18/14

**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?	ØYes DNo	UYes ONo	
2	Are natural resource areas (e.g., streams, wetlands, mature trees, etc.) protected with barriers or similar BMPs?	QYes □No	□Yes QNo	
3	Are perimeter controls and sediment barriers adequately installed (keyed into substrate) and maintained?	ØYes □No	□Yes ØNo	
4	Are discharge points and receiving waters free of any sediment deposits?	ØYes □No	□Yes XNo	
5	Are storm drain inlets properly protected?	DYes DNo M/A	□Yes □No N/A	N/A
6	Is the construction exit preventing sediment from being tracked into the street?	QYes DNo	□Yes ∑No	
7	Is trash/litter from work areas collected and placed in covered dumpsters?	XYes DNo	DYes QNo	
8	Are washout facilities (e.g., paint, stucco, concrete) available, clearly marked, and maintained?	Ves No	Ves ONO	N/A
9	Are vehicle and equipment fueling, cleaning, and maintenance areas free of spills, leaks, or any other deleterious material?	Yes DNo	□Yes □No N/A	
10	Are materials that are potential stormwater contaminants stored inside or under cover?	SYes ONo	UYes No	
	Are non-stormwater	QYes QNo	QYes QNo	NÍA
	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?	UYes ONo		N/A-all hastes offsite
13	Are wastes properly stored with no risk of discharge?	□Yes □No M/A	□Yes □No N/A	N/A
14	(Other)	□Yes □No	OYes ONo	

### Non-Compliance

Describe any incidents of non-compliance not described above:

NA

Prepared By

12/18/1 Date

119/14 12/

4

Reviewed By

Date

		General Infor	mation	
Project Name	B1200/	TA-RA-		
NPDES Tracking No.	15 "		Location	BIZQO/ATA ADCS
Date of Inspection	12/22/1	U I	Start/End Time	0750 /0830, 1525
Inspector's Name(s)		Minz - Leic	l. c	$\frac{1}{1} \frac{1}{1} \frac{1}$
	*			
Inspector's Title(s)	Environn	nental Ergin 8-1378	reer	
<b>Inspector's Contact Informatic</b>	on 330-349	8-1378	£	
Describe present phase of	ATR-A	ST-RESTORA	risw	······
construction				
There a filmer antional	131200-1	APOITTONIAL EX	CAMITION	
<b>Fype of Inspection:</b> Regular  Pre-storm ev	ent 🖸 Duri	ng storm event	D Post-storm e	event
		Weather Infor		
Has there been a storm event s	inco the last inst	and the second second second second		an a
If yes, provide:	ance the last map	section. witcs,		
Storm Start Date & Time:	Storm Duratio	n (hrs):	Approximate	Amount of Precipitation (in):
Weather at time of this inspect		)		- <b>1</b> -
Clear Cloudy Clair Other:		】Fog □ Snow `emperature:クイ		105
	1	emperature.20	)	
Are there any discharges at the If yes, describe: SuB Pumpi	e time of inspecti NG WATER OF	ion? QYes ON FALASTIC	o ATBIZOD DIT	CH, THROVAH SILT FENCE ST
~125096	<u> </u>			17/27/14
below (add as mai inspections. This	ny BMPs as neces list will ensure th ve actions initiate	ssary). Carry a co at you are inspec	py of the numbered ting all required B	PPP on your site map and list them d site map with you during your MPs at your site. on that completed the work in the
BMP	BMP	BMP	Corrective Act	ion Needed and Notes
	Installed?	Maintenance		
1 0.00 010		Required?		
1 ATTA Silt Fence 2 ATTA Struw (hpc/cDun	⊠Yes □No ⊠Yes □No	□Yes ☑No □Yes ☑No		
3 BIZED SHEERCE - Ditch	QYes DNo		S. E Ortan det	Pashund 12/22/1408
4 Bizon Straw Dim-Ditch	Yes No	UYes QNo	PIP. PHOIME	maria i dimiti a list
5 BRODSHFFERCE -OwnAre	Yes No			
6 BIZOU Straw Ann-OpenAron	QYes QNo	Yes No		
7	QYes QNo	<b>UYes No</b>		
8	QYes QNo	QYes QNo		
9	QYes QNo	QYes DNo		
10	Yes No	□Yes □No	1	

### C+ ~ . 48. C:40 T 42 n ,

 Image: Constraint of the second secon

BILLO III PALL - 9144 Ares INO BILLO Straw D.m. - D. t.h. Ayes INO BILLO SH FEACE - OpenAre Ayes INO BILLO SHAW DIN-OPENARE AYES INO BILLO STAW DIN-OPENARE AYES INO IYES INO QYes QNo 
 Yes

 Yes

 Yes

 Yes

 Yes

 Yes

 Yes

 Yes

 Yes

RSpr 12/22/14

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### **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 DNo	UYes QNo	· · · · · · · · · · · · · · · · · · ·
2	Are natural resource areas (e.g., streams, wetlands, mature trees, etc.) protected with barriers or similar BMPs?	Yes ONo	Yes SNo	
3	Are perimeter controls and sediment barriers adequately installed (keyed into substrate) and maintained?	ØYes □No	Tyes Sho	
4	Are discharge points and receiving waters free of any sediment deposits?	YYes ONo	QYes XINo	
5	Are storm drain inlets properly protected?	Ves No	Ves ENo	NA
6	Is the construction exit preventing sediment from being tracked into the street?	Dyes DNo	Yes No	
7.	Is trash/litter from work areas collected and placed in covered dumpsters?	Yes INO	UYes No	
8	Are washout facilities (e.g., paint, stucco, concrete) available, clearly marked, and maintained?	Yes No	DYes DNo	N/A
9	Are vehicle and equipment fueling, cleaning, and maintenance areas free of spills, leaks, or any other deleterious material?	AYes DNo	Yes No	
10	Are materials that are potential stormwater contaminants stored inside or under cover?	Yes DNo	TYes No	
		11 -	1 1/	

BMP/activity	Implemented?	Maintenance Required?	Corrective Action Needed and Notes
discharges (e.g., wash water, dewatering) properly controlled?	A		Fumpe NDewatered through STHACOCE/Strawbale check day
Are spoil piles stabilized with vegetations and/or contained by silt fence or other appropriate and required controls?	XYes DNo	Ves Sto	
Are wastes properly stored with no risk of discharge?	XYes INo	Yes ZiNo	·
(Other)	QYes QNo	□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?     Required?       Are spoil piles stabilized with vegetations and/or contained by silt fence or other appropriate and required controls?     Yes □No     Yes □Mo       Are wastes properly stored with no risk of discharge?     Yes □No     Yes ∑ANO

Non-Compliance
Describe any incidents of non-compliance not described above:

N/A

Prepared By

()

12/22/14

Reviewed By

< Ċ

Date Date

	General Info	rmation					
Project Name	BIZOO/ATA RA						
NPDES Tracking No.	16'	Location	BIZOO/ATTA ADGS				
Date of Inspection	12/23/14	Start/End Time	105				
Inspector's Name(s) RichSpinzl							
Inspector's Title(s)	Env Engineer /F	F					
Inspector's Contact Information	330-348-1378	\$					
Describe present phase of construction	POST EXCONATION	RESTORATION					
Type of Inspection:         Regular       Pre-storm event	During storm event	Post-storm e	vent				
	Weather Info	ormation					
Has there been a storm event since	the last inspection? QYes	s 🗆 No					
Storm Start Date & Time: S 12/23/14 ~ P. D3'' (ove	If yes, provide: Storm Start Date & Time: Storm Duration (hrs): Approximate Amount of Precipitation (in): $12/23/14 \sim P.03$ (overnight)						
Weather at time of this inspection?	? ~						
Clear Cloudy Rain Sleet Fog Snowing High Winds Other: ON AFFONNICLE Temperature: 45°							
Have any discharges occurred sinc If yes, describe:	te the last inspection?	es ØNo					
Are there any discharges at the tin If yes, describe:	ne of inspection? Tyes	No					

### **Stormwater Construction Site Inspection Report**

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.

	CONTENING MENON	205.		
	BMP	BMP Installed?	BMP Maintenance Required?	Corrective Action Needed and Notes
1	ATA SILL FRACE	IIIYes □No	Yes No	
2	ATA Straw Dum	PYes DNo	Yes No	
3	B200 pitch-Sithence	ØYes □No	Yes No	
4	BIZOD DALA Straw	X Yes INo	Yes No	
5	BILD D CHENAMON SI HEAVE	VYes DNo	Yes No	
6		'y Yes □No	□Yes □No	
7	• • •	□Yes □No	Yes No	
8		□Yes □No	QYes ONo	
9		□Yes □No	<b>UYes UNo</b>	
10		□Yes □No	Yes No	

12/23/14

**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	Corrective Action Needed and Notes
<u>8889</u> 	Are all slopes and disturbed areas not actively being worked properly stabilized?	Yes INo	Required?	
2	Are natural resource areas (e.g., streams, wetlands, mature trees, etc.) protected with barriers or similar BMPs?	Yes DNo	UYes DNo	
3	Are perimeter controls and sediment barriers adequately installed (keyed into substrate) and maintained?	Yes DNo	□Yes '□No	
4	Are discharge points and receiving waters free of any sediment deposits?	PYes □No	□Yes ØNo	
5	Are storm drain inlets properly protected?	DYes DNo	□Yes □No √/A	
6	Is the construction exit preventing sediment from being tracked into the street?	QYes DNo	UYes DNo	
7	Is trash/litter from work areas collected and placed in covered dumpsters?	Yes INo	□Yes ŽNo	
8	Are washout facilities (e.g., paint, stucco, concrete) available, clearly marked, and maintained?	DYes DNO	$ \begin{array}{c} \Box Yes \ \Box No \\ \hline \\ \mathcal{N} / \beta \\ \end{array} $	· · · · · · · · · · · · · · · · · · ·
9	Are vehicle and equipment fueling, cleaning, and maintenance areas free of spills, leaks, or any other deleterious material?	Yes No	□Yes ØNo	
10	Are materials that are potential stormwater contaminants stored inside or under cover?	Yes INO	□Yes □No N/A	1 .
		DYes DNOND	DYes DNdNA	

	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?	DYes DNo N/A	Nes No	Waste S/P removed today
 13	Are wastes properly stored with no risk of discharge?	UYes ONO	□Yes □No  V//↓	J
14	(Other)	□Yes ÛNo	□Yes' □No	

### **Non-Compliance**

Describe any incidents of non-compliance not described above: NJA 14 4  $\frac{|2/2|}{|2|/2|}$ **Prepared By** Ð

**Reviewed By** 

E-50

	Iwater Constructi		
	General I	nformation	
Project Name	BIZDO/ATARI	1	
NPDES Tracking No.	17	Location	BIZOB/ATA ADCS
Date of Inspection	12/30/14	Start/End Time	1220/ATA/ 1145/BIZOD
Inspector's Name(s)	RichSprinzl		× 1
Inspector's Title(s)	EnvEngineer/	30	
Inspector's Contact Information	330-348-1378		
Describe present phase of	ATA-POST-RESTO	vation	
construction	BIZDQ-POST-EXE	AVATION	
Type of Inspection:In RegularIn Pre-storm event	During storm eve	nt Post-storm	event
	Weather I	nformation	
Has there been a storm event since	e the last inspection?	Yes 🛛 No	
If yes, provide:			
Storm Start Date & Time: S 12/24/14~P.16" ram 1427	torm Duration (hrs):  14 ~0.03"rain, 17/2	Approximate ۲۶/۱۹۰۵،28 ⁿ	Amount of Precipitation (in):
Weather at time of this inspection	?	1	
		Snowing 🖸 High Wi	nds
Other:	Temperature:	30°	
Have any discharges occurred sing	e the last inspection? K	Yes DNo	*
If yes, describe: Some BIZOD Du Dassingthmenh SIT fonce	tch water may h	ave over Plones	l top of plastic provto
Are there any discharges at the tin	ne of inspection? DYes	<b>W</b> No	
If yes, describe:		`	

### **Stormwater Construction Site Inspection Report**

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	LUg.		
	BMP	BMP Installed?	BMP Maintenance Required?	Corrective Action Needed and Notes
1	ATA SILFFENCE	⊠Yes □No	🗆 Yes 🖾 No	
2	ATH STRUS Check Dum	Yes DNo	UYes QNo	
3	B1200 Atch Siltience	Į Yes □No	□Yes ØNo	
4	B1200 Ditch Struw Dam	PYes INo	□Yes ŴNo	
5	BIZOD Dantie Silfence		🛛 Yes 🖉 No	
6	A1200 Alen Area Strawillim	ZYes DNo	QYes QNo	
7	l ·	□Yes □No	Yes No	
8		□Yes □No	QYes QNo	
9		QYes QNo	QYes QNo	
10		□Yes □No	QYes QNo	

RS 1230/14

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**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	A	Xex INO	Required?	, telefone for a fel an electric d'anne a sur a sur de la serve de la serve I
1	Are all slopes and disturbed areas not actively being worked properly stabilized?	UNCES UNO		
2	Are natural resource	Yes DNo	QYes QNo	
<b>4</b>	areas (e.g., streams, 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 DNo	□Yes □No	
4	Are discharge points and receiving waters free of any sediment deposits?	Yes INo	QYes QNo	
5	Are storm drain inlets	QYes QNo	QYes QNo	
	properly protected?	WA	N/A	
6	Is the construction exit	□Yes □No	<b>UYes UNo</b>	
	preventing sediment from being tracked into the street?	N/A-	N/A	
7	Is trash/litter from work	QYes ONo	□Yes □No	
	areas collected and placed in covered dumpsters?	NJA	N/A	
8	Are washout facilities (e.g., paint, stucco, concrete) available, clearly marked, and maintained?	Ves No	$\frac{\Box Yes \ \Box No}{\mathcal{N} / \mathcal{A}}$	
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?	X Yes □No A	□Yes QNo	Ditch covered w/poly
11	Are non-stormwater	Yes No	□Yes □No	N/K
- <b>-</b>		নাম	N/A	

	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	DYes DNo	All mastes offsite
13	Are wastes properly stored with no risk of discharge?	UYes DNo NA	DYes DNo N/A	All wastes offsite.
14	(Other)	DYes DNo	□Yes □No	

Non-Compliance
Describe any incidents of non-compliance not described above: N/A 4 Date Prepared By , il 12 31 Date **Reviewed By** 

E-53

Stormwater	Construction	Site Ins	pection	Report

	General Inf	ormation			
Project Name	BIZOO/ATA RA				
NPDES Tracking No.	18	Location	BIZOO/ATA AOG		
Date of Inspection	1/5/15	Start/End Time	1505-1625		
Inspector's Name(s)	RichSprinzl				
Inspector's Title(s)	ENV ENGINEER				
<b>Inspector's Contact Information</b>	330-348-1378				
Describe present phase of construction	POST-RESTORATIO	N (ATA) GNATION REST	URATION (BIZOD)		
Type of Inspection:     During storm event     Post-storm event					
	Weather Inf				
Has there been a storm event since If yes, provide: Storm Start Date & Time: $1/3/15 \sim 0.90^{11} + 4/14_{\sim}$	Storm Duration (hrs):	Approximate	Amount of Precipitation (in):		
Weather at time of this inspection? Clear Cloudy Rain Sleet Fog Showing High Winds Other: Temperature: 150					
Have any discharges occurred since the last inspection? DYes 25No If yes, describe:					
	ne of inspection? 🖓 Yes 🛛				

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	<u>LUE.</u>		· · · · · · · · · · · · · · · · · · ·
	BMP	BMP Installed?	BMP Maintenance Required?	Corrective Action Needed and Notes
1	ATA SILTFENCE	Y Yes DNo	🛛 Yes 🖾 No	
2	ATA STRAWCHECKDAM	Yes INo	□Yes 印No	
3	BIZED ANTHON SITFENCE	XYes DNo	<b>UYes W</b> No	South of Ditch
4	BIZOVO Strawbrk	BarYes □No	<b>U</b> Yes <b>U</b> No	North Endof Ditch
5	BIZOU FALLANT SHE FORCE	Yes DNo	🛛 Yes 🗖 No	OpenArren
6	131200 Straw Bales	AYes ONo	Yes No	North of Open Area
7		QYes QNo	<b>U</b> Yes <b>U</b> No	
8		QYes QNo	QYes QNo	
9		QYes QNo	QYes QNo	
10		QYes QNo	<b>U</b> Yes <b>U</b> No	

RSp- 1/5/15

**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?	⊠Yes ⊡No	TYes DNo	
2	Are natural resource areas (e.g., streams, wetlands, mature trees, etc.) protected with barriers or similar BMPs?	¥Yes □No	□Yes XNo	
3	Are perimeter controls and sediment barriers adequately installed (keyed into substrate) and maintained?	X es INo	□Yes QNo	
4	Are discharge points and receiving waters free of any sediment deposits?	XYes □No	TYes PNo	
5	Are storm drain inlets properly protected?	N/P	DYes DNo	N/A
6	Is the construction exit preventing sediment from being tracked into the street?	⊠¥¥es ⊡No	□Yes ANo	
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 N/K	OYes ONO N/A	
9	Are vehicle and equipment fueling, cleaning, and maintenance areas free of spills, leaks, or any other deleterious material?	□Yes □No MA	NjA	
10	Are materials that are potential stormwater contaminants stored inside or under cover?	UYes UNO	□Yes □No N/A	N/A - waste offsite.
		Yes No NA	QYes QNo	N/A

	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?	N/A	N/A-	No stockpiles on site.
13	Are wastes properly stored with no risk of discharge?	$\square$ Yes $\square$ No N/A	□Yes □No N/A	N/A. Waste offsite
14	(Other)	□Yes □No	□Yes □No	

Non-Compliance Describe any incidents of non-compliance not described above: N/A 1/5/15 Date Prepared By 1 L IS Date **Reviewed By** 

	General Inf	ormation					
Project Name	BIZOGATA 1.	24-					
NPDES Tracking No.	19	Location	BRUG/ATA AD(5				
Date of Inspection	1715 Start/End Time 8915/1050						
Inspector's Name(s)							
Inspector's Title(s)	EnvEngineer/	PE					
Inspector's Contact Information	330-348-1379	Š					
Describe present phase of	ATTA-POST-RES	TOP ATTON					
construction	BIZOB-RESTOR	ATTON					
Type of Inspection:	During storm event	D Post-storm e	vent				
Yan in the second s	Weather Inf	ormation					
Has there been a storm event since	the last inspection? QYa	s 🖾No					
If yes, provide: Storm Start Date & Time: S SNOW OVERNIGHT	If yes, provide: Storm Start Date & Time: Storm Duration (hrs): Approximate Amount of Precipitation (in): $N \partial W = RN   GHT u   -2$						
Weather at time of this inspection?							
□ Clear □ Cloudy □ Rain □ Sleet □ Fog □ Snowing □ High Winds □ Other:							
Have any discharges occurred since the last inspection? DYes ANO If yes, describe:							
Are there any discharges at the tim If yes, describe:	e of inspection? Tyes	No					

# **Stormwater Construction Site Inspection Report**

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	LUE.	-	
	BMP	BMP Installed?	BMP Maintenance Required?	Corrective Action Needed and Notes
1	ATA Silt Fence	ÒXYes □No	Yes No	· · · · · · · · · · · · · · · · · · ·
2	ATH STRUM Dem	Yes DNo	Yes QNo	
3	BIZOD Ditch Siltleng	¥∠Yes □No	Yes WNo	
4	61200 Dich StrawDam	Yes No	Yes No	
5	Bilos OpenAren SiltFence	Yes No	Yes DNo	
6	BILDO O'DERANDA Strundan		□Yes 🖾 No	
7	1	<b>U</b> Yes <b>U</b> No	□Yes □No	
8		□Yes □No	□Yes □No	
9		□Yes □No	Yes No	
10		Yes No	<b>UYes No</b>	

RSmf 1/115

**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 INo	TYes ANO	
2	Are natural resource areas (e.g., streams, wetlands, mature trees, etc.) protected with barriers or similar BMPs?	X es □No	□Yes DNo	······
3	Are perimeter controls and sediment barriers adequately installed (keyed into substrate) and maintained?	PYes DNo	□Yes DNo	
4	Are discharge points and receiving waters free of any sediment deposits?	Yes □No	□Yes ⊅No	
5	Are storm drain inlets properly protected?	UYes INO	DYes DNo	NA
6	Is the construction exit preventing sediment from being tracked into the street?	AYes DNo	UYes UNo	
7	Is trash/litter from work areas collected and placed in covered dumpsters?	Yes DNo	□Yes QNo	
8	Are washout facilities (e.g., paint, stucco, concrete) available, clearly marked, and maintained?	Ves DNo	Yes DNo	
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 No NA	DYes DNo N/A	
11	Are non-stormwater	□Yes □No	Yes No	NDRE

	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 N/A	DYes DNo	All waste offsite
13	Are wastes properly stored with no risk of discharge?	Ves No	$\frac{\Box}{M} Yes \Box No$	$\sim$
14	(Other)	DYes DNo	□Yes □No	

### Non-Compliance

Describe any incidents of non-compliance not described	
N/A	
	1 ,1
Prepared By	$\frac{1}{Date} \frac{3}{5}$
Joth	1/1/15
Reviewed By	Date

Зy

E-59

## **Stormwater Construction Site Inspection Report**

	General Info	rmation				
Project Name	BI200/ATA R	4				
NPDES Tracking No.	20	Location	BIZDO/ATTA ADCS			
Date of Inspection	119/15	Start/End Time	1945/1938			
Inspector's Name(s)	RichSprinzl		-1			
Inspector's Title(s)	EnvEngheer					
Inspector's Contact Information	330-348	1378				
Describe present phase of	ATA -Post-Pesti	ration				
construction	BIZOD-RESTORA	TTON				
Type of Inspection:	During storm event	D Post-storm e	vent			
( S	Weather Info	rmation				
Has there been a storm event since	the last inspection? We	s 🖬 No				
If yes, provide: Storm Start Date & Time: S	town Duration (here)	Annravimata	Amount of Precipitation (in):			
~ Z'SNOW OVERNI	torm Duration (hrs):	Approximate	Amount of Freeiphation (m).			
Weather at time of this inspection?	<u> </u>		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			
2	Sleet D Fog		ıds			
C Other:	Temperature: / 7	7				
Have any discharges occurred since the last inspection?  Yes ANO 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	LOg.		
	BMP	BMP Installed?	BMP Maintenance Required?	Corrective Action Needed and Notes
1	ATASILT FENCE	🖾Yes 🗆No	Yes No	
2	ATA STRAN DAM	QYes DNo	□Yes ⊠No	
3	BIZED DITCH SITTENCE	,QYes □No	□Yes 2[No	
4	BILDO HACKSTAW Bur	⊠Yes □No	UYes 🖾 No	REMOVED AFTER BACKFILLING DITCH TODAY
5	BIZED DSPN/Trea S. It Fence	QYes DNo	DYes No	
6	KINDO MANARCA Strant	n Yes 🗆 No	□Yes ₂ QNo	
7		QYes QNo	□Yes □No	
8		<b>U</b> Yes <b>D</b> No	<b>UYes UNo</b>	
9		□Yes □No	QYes QNo	
10		□Yes □No	QYes QNo	

RS 1/9/15

E-60

**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
	Are all slopes and disturbed areas not actively being worked properly stabilized?	Dixes DNo	Yes No	HAULROND REGRADED + STRAWED
2	Are natural resource areas (e.g., streams, wetlands, mature trees, etc.) protected with barriers or similar BMPs?	Yes No	□Yes ONo	
	Are perimeter controls and sediment barriers adequately installed (keyed into substrate) and maintained?	Yes No	UYes ONo	
	Are discharge points and receiving waters free of any sediment deposits?	DYes □No	TYes No	
	Are storm drain inlets properly protected?	DYes DNo	□Yes □No N A	
	Is the construction exit preventing sediment from being tracked into the street?	QYes ONo	UYes No	
	Is trash/litter from work areas collected and placed in covered dumpsters?	Yes INo	□Yes QNo	
	Are washout facilities (e.g., paint, stucco, concrete) available, clearly marked, and maintained?	UYes DNO	DYes DNo	
	Are vehicle and equipment fueling, cleaning, and maintenance areas free of spills, leaks, or any other deleterious material?	∕9¥es-□No ;	□Yes □No	······································
0	Are materials that are potential stormwater contaminants stored inside or under cover?	DYes DNo	□Yes □No N/A	
1	Are non-stormwater	QYes QNo _k /].	DYes DNo//a	NTH

	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?	PYes No	PYes DNo	Alluastes offsite.
13	Are wastes properly stored with no risk of discharge?	□Yes □No NA	$\square$ Yes $\square$ No W/A	
14	(Other)	□Yes [′] □No	□Yes □No	

Non-Compliance
Describe any incidents of non-compliance not described above: NA 9 Prepared By Date . Date

**Reviewed By** 

# APPENDIX F RELEASE OF RAIN WATER FROM SECONDARY CONTAINMENT FORMS

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**RELEASE OF RAIN WATER FROM SECONDARY CONTAINMENT** 0800 1. Date: Building/Reference Number and Site Location: Building 1200 AOL 2. Area Excavertion What is the water level height (in inches) inside the containment area?  $4-6^{ii}$ 3. 4. 5. If hydrocarbons (POL) present, what action was taken to remove the hydrocarbons prior to 6. releasing the water (or was the water removed for off-site treatment and disposal)? What was the approximate volume of water released from the containment (gallons or cubic 7. feet)? 500-750 gallons (estimated) Following the release of the water, was the valve locked in the closed position and functioning (or 8. drain plug screwed in)? ..... YesTNO NA Note any deficiencies and action taken to have them corrected, including 9. notification to Camp Ravenna Range Control (614-336-6041) and Environmental (6568) if POL was released to the environment. -; Water discharged through strawballes to dirch/woodsline, water was top of plastic sheeting 10. Person(s) who completed this form: Rich Sprinz Leidos 330 405,348-1378 Phone:

1.	Date: $12/8/14$
2.	HEA Building/Reference Number and Site Location: BUILDING 1260 AUC OFENERCAUATION
۷.	AND BUILDING 1240 DITCH LINE.
3.	What is the water level height (in inches) inside the containment area? $2^{-3^{"}}/4^{"-6^{"}}$
4.	Is a hydrocarbon (POL) sheen noted on the surface of the water?
5.	Is a hydrocarbon (POL) odor noted for the water?
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)?
	~ 250-300 gallons BIZAD open fren
	~ 250-300 gallons BIZAD open dren ~ 250 gullons Ditch line
8.	Following the release of the water, was the valve locked in the closed position and functioning (or drain plug screwed in)?
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 DISCHARGE) THROUGH STRAW BALES AND JILT FENCE
	PRIOR TO WOODS. WATER WAS ON TOP OF PLASTIC SHEETING.
10.	Person(s) who completed this form: COREY PACER, LEIDOS
	Phone: 33-353-6153

1/

**RELEASE OF RAIN WATER FROM SECONDARY CONTAINMENT** 16/5/14 1. Date:_ CAR ofen AREA 2. Building/Reference Number and Site Location: BIZER Acc PITCH LINE 4-6" 3. What is the water level height (in inches) inside the containment area?_____ 4. 5. 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)? 7. What was the approximate volume of water released from the containment (gallons or cubic feet)? through storm water controls (silt ferre 8. Following the release of the water, was the valve locked in the closed position and functioning (or drain plug screwed in)? ..... Yes/No/NA) Note any deficiencies and action taken to have them corrected, including 9. notification to Camp Ravenna Range Control (614-336-6041) and Environmental (6568) if POL was released to the environment. DISCHARGED AND STLAW WATER SIET FENCE WaDDS. BALES P WATER WAS ON TOP OF PLASTIC SHEETING. 10. Person(s) who completed this form: COREY PACEL LEIDOS 830-353-6153 Phone:

1.	Date: <u>12/11/84</u>
2.	Building/Reference Number and Site Location: <u>ATA AC AND BIZOU AUC CPEN AREA</u>
hellendlenheurer war hellehi	
3.	What is the water level height (in inches) inside the containment area? $24^{\prime}/46^{\prime}$
4.	Is a hydrocarbon (POL) sheen noted on the surface of the water?
5.	Is a hydrocarbon (POL) odor noted for the water?
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)?
	ATA~300 gilles
	Brief OPEN AREA = 500 yellons
8.	Following the release of the water, was the valve locked in the closed position and functioning (or drain plug screwed in)?
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 TFROUGH SILT FOUCE AND/OR STRAW BALES PRICE TO
	WOODS, WATER WAS ON TOP OF PLASTIC
10.	Person(s) who completed this form:
	Phone: 330-353-6153

	intralu)
	1. Date: $\frac{12}{22}$
	2. Building/Reference Number and Site Location: BIZED ADC DITCH LIBE
	3. What is the water level height (in inches) inside the containment area? <u>~12'+</u>
	4. Is a hydrocarbon (POL) sheen noted on the surface of the water?
	5. Is a hydrocarbon (POL) odor noted for the water?
	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>
)	7. What was the approximate volume of water released from the containment (gallons or cubic feet)?
	Ditch~1000 gallons
	NEARBY RUTS-250 Gallons
	8. Following the release of the water, was the valve locked in the closed position and functioning (or drain plug screwed in)?
	<ol> <li>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.</li> </ol>
	NA. WATER DISCHARGED THROUGH SILT FENCE DOWNGRADIENT OF
	DITCHLINE, WATER IN DITCH ON TOP OF PLASTIC
	10. Person(s) who completed this form: RCH SPRINZL LEIDOS FM
	Phone: 330-348-1378

# APPENDIX G MEMORANDUM FOR RECORD

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January 21, 2015

Ohio Environmental Protection Agency DERR-NEDO Attn: Mr. Andrew Kocher, Project Manager 2110 East Aurora Road Twinsburg, OH 44087-1924

### MEMORANDUM FOR RECORD

Subject: Ravenna Army Ammunition Plant (RVAAP) Restoration Program, Portage/Trumbull Counties, RVAAP-13 Building 1200 Remedial Action

Dear Mr. Kocher:

The selected remedy for soil at the Building 1200 area of concern (AOC) is to address manganese contamination at incremental sample (ISM) locations B12ss-016M, B12ss-017M, and B12ss-022M to attain Unrestricted (Residential) Land Use. The cleanup goal (CUG) established for this soil removal is based on the surface soil (0-1 ft bgs) background concentration of 1,450 mg/kg. The remedial action is to excavate contaminated soil above the CUG and dispose of the soil in an offsite licensed facility.

The Army initiated soil removal activities on 19 November 2014 at the AOC. As per the Remedial Design, after soil removal activities were completed in a specific area, the Army collected confirmation samples to compare the manganese concentration of the excavation footprint (including the excavation floor and sidewalls) against the CUG to assess whether additional actions were required.

Soil removals conducted at ISM locations B12ss-016M and B12ss-017M were completed after the first round of excavation, as all confirmation samples were below the CUG of 1,450 mg/kg. Three rounds of soil excavation and confirmation sampling from the ditch line associated with ISM location B12ss-022M have been completed. An estimated 204 tons of soil have been removed from ISM location B12ss-022M and adjacent areas, which is an increase of approximately 24% from the 165 tons estimated in the Remedial Design. (*Tonnages provided in this memorandum are estimated, as the final weight tickets from the landfill are pending.*)

Figure 1 depicts the sample results from the excavation footprint after the third round of soil removal at B12ss-022M. Of the 9 confirmation samples collected from the current excavation footprint, seven samples had manganese concentrations below the CUG. Manganese concentrations in the other two samples were slightly above the CUG, each with a concentration of 1,700 mg/kg. The following provides further details of the samples that exceeded the CUG:

 Confirmation sample B12cs-073M was representative of the excavation wall from point 24 to point 26. To refine the areas that potentially required additional excavation, samples B12cs-072M (point 25 to point 26) and B12cs-074M (point 24 to point 25) were collected as subsamples of that same area. These subsamples had manganese concentrations below the CUG; therefore, that excavation wall is considered to have attained the CUG and no further soil removal is required. Subject: Ravenna Army Ammunition Plant (RVAAP) Restoration Program, Portage/Trumbull Counties, RVAAP-13 Building 1200 Remedial Action

2) Confirmation sample B12cs-075M was collected within the previous sample location B12ss-038M. Sample location B12ss-038M was sampled in February 2010 as part of the remedial investigation (RI) conducted at the Building 1200 AOC. Sample location B12ss-038M had a manganese concentration of 919 mg/kg, and the preceding CERCLA documents determined that this area was not a risk to future receptors and did not require remediation. The manganese concentration in sample B12cs-075M (1,700 mg/kg) was below both the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL) for residential exposure to soil (1,800 mg/kg) and the RVAAP facility-wide subsurface soil (1-13 ft bgs) background concentration (3,030 mg/kg).

The Army and Ohio EPA held discussions on 7 January 2015 regarding the status of the remedial action and the data described above. In consideration that residual manganese concentrations in sample B12cs-075M from the southernmost excavation wall are below the EPA residential RSL for soil and the RVAAP facility-wide subsurface soil background value, and that all other areas of the excavation are confirmed to be below the CUG, the Army requested Ohio EPA concurrence that additional soil removal was not required at the Building 1200 AOC to attain remedial action objectives and Unrestricted (Residential) Land Use in the 7 January 2015 call. The Ohio EPA agreed with this recommendation in the 7 January 2015 call and all parties decided that the decision would be documented in a memorandum sent to the Ohio EPA. Upon Ohio EPA receipt of the memorandum, the Army will complete site restoration activities and submit a Remedial Action Report presenting the findings and conclusions presented in this memorandum.

Your time to review this correspondence is appreciated. Please contact the undersigned at (703) 607-7955 or <u>mark.s.leeper.civ@mail.mil</u> if there are issues or concerns with this submission.

Sincerely,

Mayou

Mark Leeper RVAAP Restoration Program Manager Army National Guard Directorate

cc: Rod Beals, Ohio EPA, DERR-NEDO Justin Burke, Ohio EPA, CO Kevin Sedlak, ARNG, Camp Ravenna Katie Tait, OHARNG, Camp Ravenna Greg Moore, USACE Louisville Nathaniel Peters, USACE Louisville Kevin Jago, Leidos Jed Thomas, Leidos Gail Harris, Vista Sciences

Subject: Ravenna Army Ammunition Plant (RVAAP) Restoration Program, Portage/Trumbull Counties, RVAAP-13 Building 1200 Remedial Action



FIGURE 1. LOCATION B12SS-022M REMOVAL EXTENT

# APPENDIX H PROPERTY MANAGEMENT PLAN INSERTION

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Appendix A-13: Building 1200 – (RVAAP-13) – No Further Action (NFA) STATUS for Soil, Sediment, and Surface Water

### A.13.1 Background

The Building 1200 Area of Concern (AOC) was designated as the Ammunition Sectioning Area. From 1941 to 1971, three buildings served as a quality assurance (QA) inspection station that encompassed disassembly of production line munitions items, including explosive melt-pour operations. The primary operations building was Building 1200, which was a 30 by 20 ft combined reinforced concrete and transite panel frame structure. The steam melt-out process generated explosives-contaminated wastewater (pink water), which discharged from the building via a pipe, through a crushed slag gravel bed, and into a ditch connected to a 0.5-acre, unlined settling pond (located approximately 415 ft northeast of Building 1200). The depth of the settling pond is less than 3 ft. Overflow from the settling pond discharged directly to the ground surface southeast of the pond; there is no documented evidence of a discharge drainage ditch exiting the settling pond and flowing to a surface water body.

Building demolition activities took place between November 2004 and August 2005, and no buildings or structures remain at the AOC. The remaining surface features include the access road, drainage ditch from the former operations area to the former settling pond, and the former settling pond and associated discharge area.

### A.13.2 Publications

The following publications can be located on <www.RVAAP.org> or in established RVAAP information repositories:

- 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-13 Building 1200, March 2014.
- Final Proposed Plan for Soil, Sediment and Surface Water at RVAAP-13 Building 1200, April 2013.
- Final Remedial Investigation/Feasibility Study Report for Soil, Sediment, and Surface Water at RVAAP-13 Building 1200, March 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, September 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 at RVAAP, October 2004.
- Phase I Remedial Investigation Report for High Priority Areas of Concern at the Ravenna Army Ammunition Plant, Ravenna, Ohio, February 1998.
- Final Public Meeting Briefing Phase I Remedial Investigation of High Priority Areas of Concern at the Ravenna Army Ammunition Plant, September 1997.
- Draft Investigation-Derived Waste Characterization and Disposal Plan for the Phase I Remedial Investigation of High Priority Areas of Concern at the Ravenna Army Ammunition Plant, December 1996.
- Final Phase I Remedial Investigation Site Safety and Health Plan Addendum for High Priority Areas of Concern for the Ravenna Army Ammunition Plant, July 1996.
- Final Phase I Remedial Investigation Sampling and Analysis Plan Addendum for High Areas of Concern for the Ravenna Army Ammunition Plant, July 1996.
- Final Quality Control Plan for the Phase I Remedial Investigation for High Areas of Concern at RVAAP, June 1996.

## A.13.3 Site Location and Description

The Building 1200 AOC is a former operational facility designated as RVAAP-13. The AOC is approximately 7.7 acres and is situated in the eastern portion of Camp Ravenna. Building demolition activities took place between November 2004 and August 2005, and no buildings or structures remain at the AOC. The remaining surface features include the access road, drainage ditch from the former operations area to the former settling pond, and the former settling pond and associated discharge area.

The topography at the Building 1200 AOC gently slopes radially from a high point just southwest of the former operations buildings. Ground elevations at the AOC range from 990 to 1004 ft above mean sea level (amsl). Intermittent surface water flows in the drainage ditch from the former operations area east to the former settling pond during precipitation events and periods of snow melt. The ditch tends to hold water for extended periods of time due to the low permeability of soil. Surface water discharge from the former settling pond occurs via an outlet channel to the southeast. Discharge flow is diffuse and enters into a heavily wooded area to the south of the pond. The nearest defined surface water conveyance (large ditch line or tributary flowing southwest to Sand Creek) that receives surface water flow lies approximately 1,000 ft to the southeast of the settling pond discharge area.

The Building 1200 AOC is on a local bedrock high. The AOC is underlain by a thin unconsolidated interval generally less than 3 ft thick. The underlying bedrock formation observed at the AOC is the Pennsylvanian age Pottsville Formation, Sharon Sandstone Member. The sandstone unit of the Sharon member (informally referred to as the Sharon Conglomerate) is a highly porous, loosely

cemented, permeable, cross-bedded, frequently fractured and weathered orthoquartzite sandstone, which is locally conglomeritic. The Sharon Conglomerate exhibits locally occurring thin shale lenses in the upper portion of the unit. Upper members of the Pottsville Formation are not present at the AOC.

## A.13.4 Land Use and Activities

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

## A.13.5 Remedy Objectives

The *Record of Decision for Soil, Sediment, and Surface Water at RVAAP-13 Building 1200* (USACE 2014) documented that no further action (NFA) was required for sediment and surface water at the AOC. Manganese in soil was identified as a chemical of concern (COC) requiring remediation to attain Unrestricted (Residential) Land Use. Remedial activities were conducted in December 2014 and January 2015 and were summarized in the *Remedial Action Report for Soil, Sediment, and Surface Water at RVAAP-13 Building 1200* (USACE 2015). A total of 376 tons of contaminated soil was excavated from two contaminated areas within the AOC and transported and disposed at a local landfill. Confirmation sampling results and concurrence from the Ohio Environmental Protection Agency (EPA) concluded that the AOC met the criteria for Unrestricted (Residential) Land Use after implementation of the remedial action.

### A.13.6 Land Use Controls

Land use controls (LUCs) are not required for soil, sediment, and surface water at the Building 1200 AOC. The remedial action achieved the remedial action objective (RAO) for manganese in soil to attain Unrestricted (Residential) Land Use, and NFA was required for sediment and surface water. Other media (i.e., groundwater) will be addressed as part of future actions.

### A.13.7 Monitoring and Reporting

Five-year reviews are not required for soil, sediment, and surface water at the Building 1200 AOC, which is compliant with Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Section 121(c).

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Figure A.13-1. Features of the Building 1200 AOC