

Mr. Weiquan Dong, PE  
Bureau of Industrial Site Cleanup  
Nevada Division of Environmental Protection  
2030 E. Flamingo Rd., Suite 230  
Las Vegas, Nevada 89119

**REPORT OF SOIL REMOVAL ACTION – PARCEL C  
NEVADA ENVIRONMENTAL RESPONSE TRUST SITE  
HENDERSON, NEVADA**

Dear Mr. Dong:

April 27, 2017

On behalf of the Nevada Environmental Response Trust (NERT or the Trust), Ramboll Environ US Corporation (Ramboll Environ) is providing this report of soil removal activities conducted in the northeastern portion of the NERT site, specifically, the eastern portion of Parcel C. This work was conducted in accordance with the Work Plan for Removal Action – Parcel C, Nevada Environmental Response Trust, Henderson, Nevada (Work Plan), dated June 13, 2016 and approved by the Nevada Division of Environmental Protection (NDEP) on July 26, 2016 (Ramboll Environ 2016).

Ramboll Environ  
2200 Powell Street  
Suite 700  
Emeryville, CA 94608  
USA

T +1 510 655 7400  
F +1 510 655 9517  
[www.ramboll-environ.com](http://www.ramboll-environ.com)

**PROJECT BACKGROUND**

In May 2015, the Trust noted that the eastern boundary of Parcel C (as defined by sale of property documents) differed from the boundary historically used by Tronox LLC (Tronox), and used in subsequent work by Ramboll Environ. Specifically, an approximately 5-acre trapezoidal area in the northeastern corner of the site (near Warm Springs Road), identified in the 2014-2015 Remedial Investigation (RI) field investigation as "Area 5," was previously understood to be outside the boundary of Parcel C (see Figure 1). A significant portion of Area 5 was subsequently determined to be within the Parcel C boundary. As part of the RI, 25 soil samples from 10 locations (RISB-38 to RISB-46, and RISB-49) within Area 5 were analyzed for arsenic. Previous investigations in this area also included collection of 7 soil samples from 2 locations (RSAI7, TSB-CJ-09) that were analyzed for arsenic. These soil boring locations are shown on Figure 2 and the analytical results for arsenic are provided in Table 1. While the majority of arsenic concentrations were below the site-specific soil remediation goal (SRG) of 7.2 milligrams per kilogram (mg/kg), concentrations exceeding the SRG were identified in two RI samples, at concentrations of 8.8 mg/kg (RISB-46, 10 to 10.5 feet [ft] below ground surface [bgs]) and 11 mg/kg (RISB-44, 0.5 to 1 ft bgs). The SRG was also exceeded in three samples from the prior investigation, at concentrations

of 14.8 mg/kg (RSAI7, 29.5 to 31 ft bgs), 14.3 mg/kg (RSAI7, 31.5 to 33 ft bgs) and 10.6 mg/kg (TSB-CJ-09, 10 to 11.5 ft bgs). As discussed by Ramboll Environ, the Trust, NDEP, and NDEP's consultants during a meeting on October 13, 2015, surficial soils (i.e., soils from the 0 to 10 ft depth interval, selected to be consistent with the potential exposure depth interval identified in the NDEP-approved March 2010 Health Risk Assessment Work Plan) with arsenic concentrations above the SRG were to be removed from Area 5. Based on the results of historical sampling described above, the only location within Parcel C where the arsenic concentration exceeded the SRG and was less than 10 ft bgs, thus requiring removal, was at boring RISB-44 (11 mg/kg in the sample obtained from 0.5 to 1 ft bgs). As outlined below, Ramboll Environ conducted additional lateral and vertical delineation of arsenic at this location prior to conducting excavation activities to further define the soil removal area. The remaining portions of this letter describe the additional soil delineation, followed by a summary of the excavation, off-site disposal, and site restoration activities.

### **ADDITIONAL DELINEATION AND DEVELOPMENT OF SOIL REMOVAL AREA**

Ramboll Environ used a Thiessen polygon approach (described in the Work Plan, and consistent with previous soil removal activities conducted by Ramboll Environ in other areas of the NERT site) to establish the lateral extent of the excavation area surrounding RISB-44. Although arsenic was not identified in surficial soil at concentrations exceeding the SRG in any of the historic sampling locations adjacent to RISB-44, the resulting Thiessen polygon (based on the geometry of historical sampling locations only; see Figure 2) covered a large area (approximately 24,400 square feet) surrounding RISB-44. Because the nearest sampling locations to RISB-44 were a distance of 100 ft or more away, further delineation of the lateral extent of arsenic concentrations above the SRG in the vicinity of RISB-44 was conducted in an effort to define the excavation area. In addition, the next deepest sample beneath the exceedance at 0.5 to 1 ft bgs was located at 5.0 to 5.5 ft bgs. Ramboll Environ conducted additional sampling at depths of 2.0 to 2.5 ft bgs to provide further vertical delineation, as described below.

### **Subsurface Utility Clearance**

Prior to conducting intrusive activities, Ramboll Environ notified the Underground Service Alert to request that any utilities entering the work area be marked. Ramboll Environ also retained a private utility locator (GPRS Inc.) to identify any utilities or detectable subsurface features within the proposed work area. No utilities or subsurface features were identified.

### **Grab Soil Sampling**

Ramboll Environ retained MP Environmental, Inc. (MPE) to advance 13 soil borings on September 8, 2016. At 12 of the locations (SB-1 to SB-12), soil samples were obtained from a depth of approximately 0.5 to 1 ft bgs. At these 12 locations and the former location RISB-44, a soil sample was obtained from approximately 2.0 to 2.5 ft bgs. Soil samples were collected using a hand auger after advancing to the target depths (i.e., 6 inches bgs, and 2 ft bgs, respectively). Soil samples obtained from the target depths were immediately transferred into laboratory provided containers, and placed into a cooler with ice pending submittal to TestAmerica Laboratories, Inc.

Quality Assurance/Quality Control (QA/QC) procedures included the collection of one field equipment blank sample (EB-20160908). To collect the equipment blank, deionized water was poured over the decontaminated hand auger and captured in a laboratory provided container. Laboratory results are provided in Attachment A. The Data Validation Summary Report (DVSR)

and associated Electronic Data Deliverable (EDD) for these data and those samples collected in Area 5 as part of the 2014 RI field investigation were submitted to NDEP under separate cover by the Trust on March 27, 2017 (NERT 2017).

### **Decontamination Procedures**

Sampling equipment (i.e., hand auger) was thoroughly decontaminated prior to its first use and between uses. Decontamination procedures included scrubbing the equipment with a brush or sponge in a solution of Alconox detergent (or equivalent) in potable water, followed by a first rinse in potable water and a second rinse in deionized water. Decontamination fluids were placed into one 55-gallon drum and were discharged to the GW-11 pond at the NERT site immediately following completion of the sampling activities.

### **Laboratory Results and Development of Excavation Area**

All soil samples were analyzed for arsenic by United States Environmental Protection Agency (USEPA) Method 6020. As shown in Table 2, none of the soil samples obtained from the locations SB-1 through SB-12 (at either the 0.5 to 1 ft bgs or 2.0 to 2.5 ft bgs depths) contained arsenic at concentrations exceeding the SRG. Concentrations ranged from 2.3 mg/kg to 4.9 mg/kg. The arsenic concentration (3.2 mg/kg) in the sample from the former RISB-44 location obtained from a depth of 2.0 to 2.5 feet below grade was also below the SRG. The results indicate that arsenic exceeding the SRG is localized to the area immediately surrounding location RISB-44, and limited to a depth less than approximately 2.0 ft bgs. The corresponding Thiessen polygon based on the additional sampling results that defines the excavation area is shown on Figure 3. In accordance with the Work Plan, the excavation activities were conducted within this area and extending from the ground surface to a depth of approximately 2.0 ft bgs. The excavation area measures approximately 1,600 square feet.

### **SOIL EXCAVATION ACTIVITIES**

MPE conducted excavation, loading, transportation and disposal, and site restoration activities on February 28, 2017. Excavation, loading, transportation, and disposal activities were completed in one day. Stockpiling of excavated soil was not required.

### **Backfill Import, Excavation, and Soil Loading Procedures**

Backfill material was obtained from an existing soil stockpile located west of the Mn-1 pond at the NERT site. The soil in this stockpile was native soil removed during the implementation of the Stormwater Conveyance Modification project along the western property boundary of the NERT site in 2016. As described in the Project Completion Report for that project, the results of characterization soil sampling and analysis indicated that all reported concentrations were less than the NDEP Basic Comparison Levels (BCLs) and site-specific screening levels, allowing the soil to be approved for reuse on the NERT site (Ramboll Environ 2017).

To minimize truck traffic on-site and eliminate the need for separate trips for importing backfill material after completion of excavation activities, MPE loaded the haul trucks with backfill material upon arrival at the NERT site, and then transported the material to the Parcel C excavation area where it was stockpiled for later use during restoration activities. After unloading the backfill material, excavation activities were conducted using a front end loader to scrape soil to a depth of approximately 2 ft bgs. As soil was removed from the excavation, it was directly loaded into dump trucks, and transported to Republic Services, Inc.'s Apex Regional Landfill (Apex) for disposal. A total of approximately 116 tons of soil was excavated and transported off-site for disposal. Weight tickets and soil manifests are provided in Attachment B.

### **Site Restoration Measures**

In accordance with the Work Plan, because the soil delineation sampling did not identify arsenic at concentrations exceeding the SRG, confirmation samples were not collected from the base or sidewalls of the excavation. Approximately 120 cubic yards of fill material was placed in approximate 8-inch lifts, moisture conditioned, and compacted to achieve a compaction of 92 percent (or greater) of maximum dry density and within 2 percent of optimum moisture content. Following placement of fill material, density and moisture measurements were conducted by Wright Engineers (Wright), of Las Vegas, Nevada using a nuclear density gauge, and in general accordance with ASTM test methods D-1557 and D-6938. The locations of the density tests and methods used are described in Attachment C.

### **Dust Control Measures**

Based on the size of the excavation (less than 0.25 acre), compliance with dust control measures outlined in Sections 90 – 94 of the Clark County Air Quality Regulations was not required. However, Ramboll Environ implemented the following Best Management Practices (BMPs) to prevent fugitive dust emissions from the site during soil loading, excavation, and restoration activities:

Soil Management Procedures – MPE conducted soil loading, excavating, and backfilling procedures to minimize generation of dust, including limiting travel speed on roadways to 5 miles per hour, minimizing drop heights during soil loading activities, and conducting earthwork at a reasonable pace.

Dust Suppression – A water truck was used to apply water on dirt-surfaced travel routes and excavation areas.

On-site Excavation Equipment Decontamination – Dry decontamination methods, including brushing and scraping of equipment bodies, wheels and tires were implemented. Scrapings were maintained in the work area and placed into the final haul truck for disposal along with excavated soil. Due to the short duration of the excavation activity and dry conditions, material did not accumulate on heavy equipment necessitating the use of high pressure washing methods.

### **Waste Profiling and Disposal of Excavated Soil**

Due to the limited volume of soil excavated (i.e., less than 250 cubic yards), historical soil sampling results from RISB-44 (0.5 to 1 ft bgs), and the recent arsenic result from RISB-44 (2.0 to 2.5 ft bgs) were sufficient to develop a waste profile. The historical soil analytical results (RISB-44, 0.5 to 1 ft bgs) included testing for a broad suite of constituents to evaluate potential waste classification, including volatile organic compounds (USEPA Method 8260B), semi-volatile organic compounds (USEPA Method 8260C), pesticides (USEPA Method 8081A), polychlorinated biphenyls [PCBs] (USEPA Method 8082), metals (USEPA Methods 6010B/6020 and 7471), PCB congeners (USEPA Method 1668A), dioxins/furans (USEPA Method 8290), and radioisotopes (radium and thorium by USEPA Method 903.0/904.0, and Method A-01-R). Based on the analytical results and site knowledge, the soil was classified as non-hazardous waste and was disposed at Republic Services' Apex Landfill (profile number 3825 17 2371) on February 28, 2017. The waste profile, weight tickets, and signed manifests for the soil disposal are provided in Attachment B.

**CLOSURE**

Ramboll Environ has prepared this Report of Soil Removal Action to document and summarize the characterization, excavation, and off-site disposal of arsenic-impacted soil from Parcel C at the NERT site. Please contact John Pekala at (602) 734-7710 or [jpekala@ramboll.com](mailto:jpekala@ramboll.com) if you have any comments or questions concerning this report.

Sincerely,



**John M. Pekala, PG**

Senior Manager

Nevada CEM #2347, expires 9/20/2018



**Allan J. DeLorme, PE**

Principal

**Attachments****List of Tables**

Table 1	Historical Arsenic Soil Data – Soil Removal Action Parcel C
Table 2	Additional Soil Delineation Arsenic Results – Soil Removal Action Parcel C

**List of Figures**

Figure 1	Parcel C Location Map
Figure 2	Historic Sample Locations, Parcel C
Figure 3	Parcel C Soil Removal Area

**References**

Nevada Environmental Response Trust (NERT). 2017. Parcel C Soil Removal Action DVSR; Nevada Environmental Response Trust Site, Henderson, Nevada. March 27.

Ramboll Environ US Corporation (Ramboll Environ). 2016. Work Plan for Soil Removal Action, Parcel C, Nevada Environmental Response Trust Site, Henderson, Nevada. June 13. NDEP Approved July 26, 2016.

Ramboll Environ. 2017. Project Completion Report; Storm Water Conveyance Modification and Property Line Grading Project; Nevada Environmental Response Trust Site; Henderson, Nevada. February 9. NDEP Approved February 28, 2017.

cc: BMI Compliance Coordinator, NDEP, BISC, Las Vegas

ec: Steve Clough, NERT  
Tanya O'Neill, Foley & Lardner LLP

## Parcel C Soil Removal Action

### Nevada Environmental Response Trust Site (Former Tronox LLC Site) Henderson, Nevada

#### Nevada Environmental Response Trust (NERT) Representative Certification

I certify that this document and all attachments submitted to the Division were prepared at the request of, or under the direction or supervision of NERT. Based on my own involvement and/or my inquiry of the person or persons who manage the system(s) or those directly responsible for gathering the information or preparing the document, or the immediate supervisor of such person(s), the information submitted and provided herein is, to the best of my knowledge and belief, true, accurate, and complete in all material respects.

Office of the Nevada Environmental Response Trust

Le Petomane XXVII, Inc., not individually, but solely in its representative capacity as the Nevada Environmental Response Trust Trustee

**Signature:** Jay A. Steinberg *not individually, but solely as President*, not individually, but solely in his representative capacity as President of the Nevada Environmental Response Trust Trustee

**Name:** Jay A. Steinberg, not individually, but solely in his representative capacity as President of the Nevada Environmental Response Trust Trustee

**Title:** Solely as President and not individually

**Company:** Le Petomane XXVII, Inc., not individually, but solely in its representative capacity as the Nevada Environmental Response Trust Trustee

**Date:** 5/3/17

## Parcel C Soil Removal Action

**Nevada Environmental Response Trust Site  
(Former Tronox LLC Site)  
Henderson, Nevada**

### **Responsible Certified Environmental Manager (CEM) for this project**

I hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been provided in a manner consistent with the current standards of the profession and, to the best of my knowledge, comply with all applicable federal, state and local statutes, regulations and ordinances.



4/28/17

**John M. Pekala, PG  
Senior Manager**

Date

Certified Environmental Manager  
Ramboll Environ US Corporation  
CEM Certificate Number: 2347  
CEM Expiration Date: September 20, 2018

The following individuals provided input to this document:

John M. Pekala, PG  
Allan J. DeLorme, PE  
Devon Rowe, LG  
Samantha Leick

Work Plan for Soil Removal Action – Parcel C  
Nevada Environmental Response Trust Site  
Henderson, Nevada

## **TABLES**



**TABLE 1. HISTORICAL ARSENIC SOIL DATA**  
**Soil Removal Action - Parcel C**  
**Nevada Environmental Response Trust Site; Henderson, Nevada**

Location	Sample ID	Sample Type	Sample Date	Start Depth (ft)	End Depth (ft)	Arsenic Concentration (mg/kg)
RISB-38	RISB-38-0.5-20141201	Primary	12/1/2014	0.5	1	5.9
	RISB-38-5.0-20141201	Primary	12/1/2014	5	5.5	3.9
RISB-39	RISB-39-0.5-20141121	Primary	11/21/2014	0.5	1	2.3
	RISB-39-5.0-20141121	Primary	11/21/2014	5	5.5	3.2
	RISB-39-5.0-20141121-FD	Duplicate	11/21/2014	5	5.5	3.1
RISB-40	RISB-40-0.5-20141121	Primary	11/21/2014	0.5	1	3.3
	RISB-40-5.0-20141121	Primary	11/21/2014	5	5.5	3.6
RISB-41	RISB-41-0.5-20141121	Primary	11/21/2014	0.5	1	2.3
	RISB-41-0.5-20141121-FD	Duplicate	11/21/2014	0.5	1	2.4
	RISB-41-5.0-20141121	Primary	11/21/2014	5	5.5	3.7
RISB-42	RISB-42-0.5-20141201	Primary	12/1/2014	0.5	1	2.2
	RISB-42-5.0-20141201	Primary	12/1/2014	5	5.5	3.2
RISB-43	RISB-43-0.5-20141121	Primary	11/21/2014	0.5	1	4.8
	RISB-43-5.0-20141121	Primary	11/21/2014	5	5.5	5.9
	RISB-43-5.0-20141121-FD	Duplicate	11/21/2014	5	5.5	5.2
RISB-44	RISB-44-0.5-20141121	Primary	11/21/2014	0.5	1	<b>11</b>
	RISB-44-5.0-20141121	Primary	11/21/2014	5	5.5	3.2
RISB-45	RISB-45-0.5-20141121	Primary	11/21/2014	0.5	1	3.4
	RISB-45-5.0-20141121	Primary	11/21/2014	5	5.5	3.0
RISB-46	RISB-46-0.5-20141117	Primary	11/17/2014	0.5	1	2.6
	RISB-46-5.0-20141117	Primary	11/17/2014	5	5.5	3.2
	RISB-46-10.0-20141117	Primary	11/17/2014	10	10.5	<b>8.8</b>
RISB-49	RISB-49-0.5-20141117	Primary	11/17/2014	0.5	1	3.1
	RISB-49-5.0-20141117	Primary	11/17/2014	5	5.5	3.3
	RISB-49-10.0-20141117	Primary	11/17/2014	10	10.5	4.9
RSAI7	RSAI7-0.5B	Primary	7/11/2008	0	0.5	2.3
	RSAI7-10B	Primary	7/11/2008	9.5	11	3.2
	RSAI7-20B	Primary	7/11/2008	19.5	21	5.5
	RSAI7-30B	Primary	7/11/2008	29.5	31	<b>14.8</b>
	RSAI7-32B	Primary	7/11/2008	31.5	33	<b>14.3</b>
TSB-CJ-09	TSB-CJ-09-0	Primary	6/12/2008	0	1.5	3.1
	TSB-CJ-09-10	Primary	6/12/2008	10	11.5	<b>10.6</b>

**Notes:**

Bolded results are above the site-specific soil remediation goal (SRG) of 7.2 milligrams per kilogram (mg/kg).

J = Concentration is estimated.

**TABLE 2. ADDITIONAL SOIL DELINEATION ARSENIC RESULTS**  
**Soil Removal Action - Parcel C**  
**Nevada Environmental Response Trust Site; Henderson, Nevada**

Location	Sample ID	Sample Type	Sample Date	Start Depth (ft)	End Depth (ft)	Arsenic Concentration (mg/kg)
SB-1	SB1-20160908-0.5	Primary	9/8/2016	0.5	1.0	3.2
	SB1-20160908-2.5	Primary	9/8/2016	2.0	2.5	3.0
SB-2	SB2-20160908-0.5	Primary	9/8/2016	0.5	1.0	3.1
	SB2-20160908-2.5	Primary	9/8/2016	2.0	2.5	3.1
SB-3	SB3-20160908-0.5	Primary	9/8/2016	0.5	1.0	4.7
	SB3-20160908-2.5	Primary	9/8/2016	2.0	2.5	4.5
SB-4	SB4-20160908-0.5	Primary	9/8/2016	0.5	1.0	3.0
	SB4-20160908-2.5	Primary	9/8/2016	2.0	2.5	3.1
SB-5	SB5-20160908-0.5	Primary	9/8/2016	0.5	1.0	2.3
	SB5-20160908-2.5	Primary	9/8/2016	2.0	2.5	2.9
SB-6	SB6-20160908-0.5	Primary	9/8/2016	0.5	1.0	2.7
	SB6-20160908-2.5	Primary	9/8/2016	2.0	2.5	3.4
SB-7	SB7-20160908-0.5	Primary	9/8/2016	0.5	1.0	2.5
	SB7-20160908-2.5	Primary	9/8/2016	2.0	2.5	3.5
SB-8	SB8-20160908-0.5	Primary	9/8/2016	0.5	1.0	4.9
	SB8-20160908-2.5	Primary	9/8/2016	2.0	2.5	3.4
SB-9	SB9-20160908-0.5	Primary	9/8/2016	0.5	1.0	3.2
	SB9-20160908-2.5	Primary	9/8/2016	2.0	2.5	3.4
SB-10	SB10-20160908-0.5	Primary	9/8/2016	0.5	1.0	3.6
	SB10-20160908-2.5	Primary	9/8/2016	2.0	2.5	3.1
SB-11	SB11-20160908-0.5	Primary	9/8/2016	0.5	1.0	2.9
	SB11-20160908-2.5	Primary	9/8/2016	2.0	2.5	3.1
SB-12	SB12-20160908-0.5	Primary	9/8/2016	0.5	1.0	3.3
	SB12-20160908-2.5	Primary	9/8/2016	2.0	2.5	3.6
RISB-44	RISB-44-20160908-2.5	Primary	9/8/2016	2.0	2.5	3.2

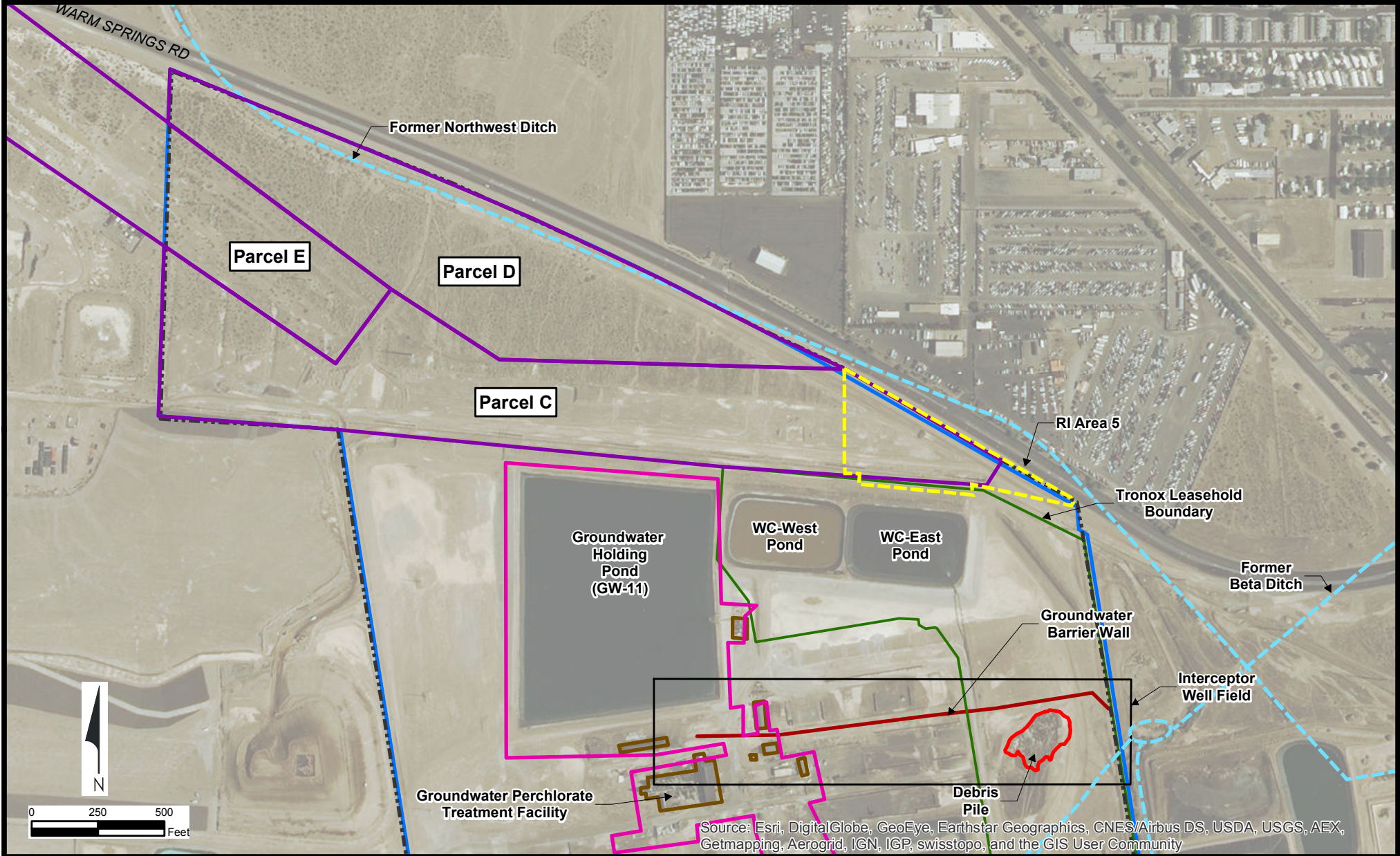
**Notes:**

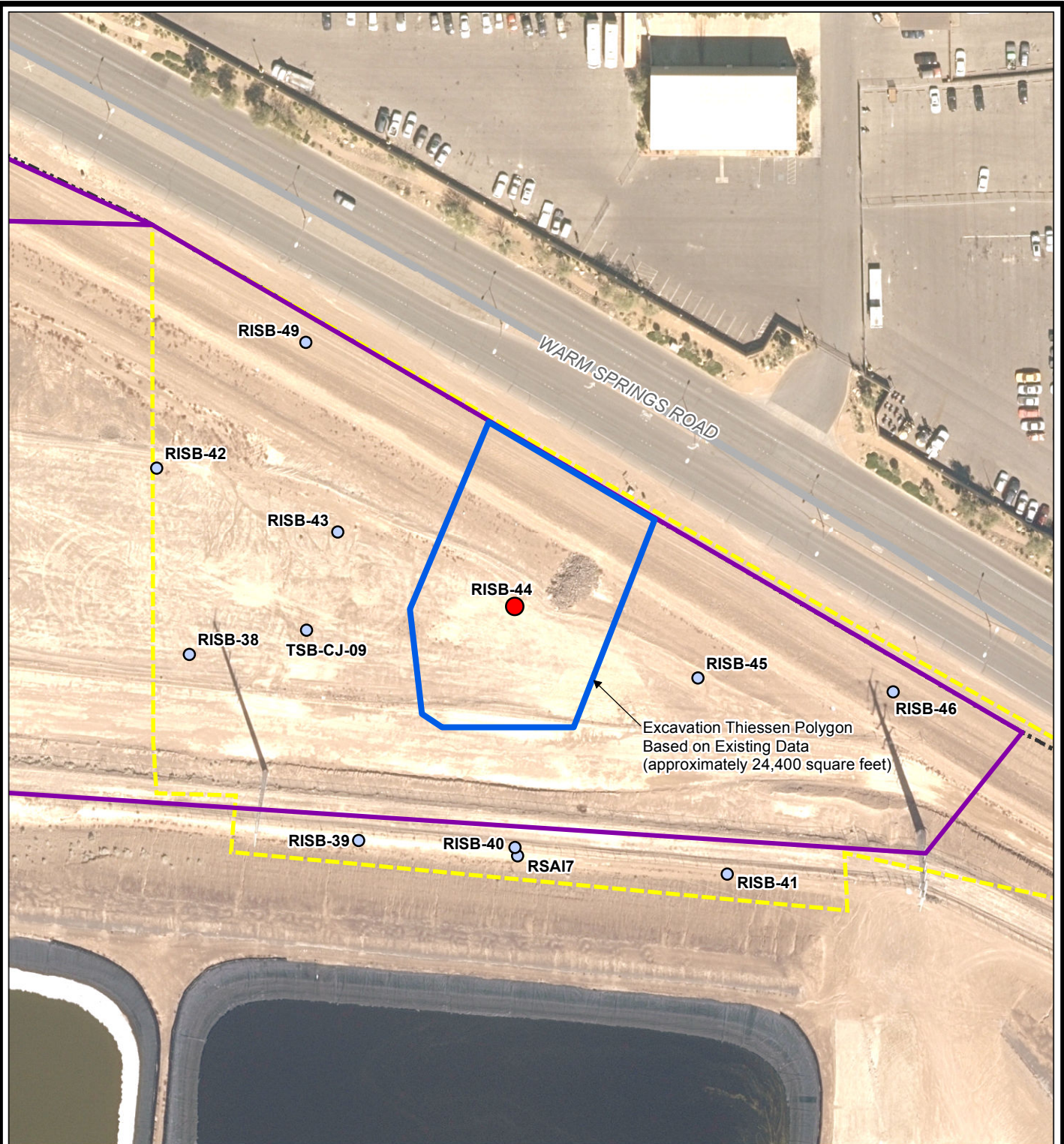
mg/kg = milligrams per kilogram

ft = feet below ground surface

Work Plan for Soil Removal Action – Parcel C  
Nevada Environmental Response Trust Site  
Henderson, Nevada

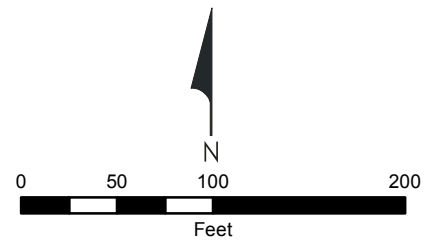
## FIGURES





**Legend**

- Soil Boring With Exceedance of Site-Specific Soil Remediation Goal (SRG) in Surficial Soil (i.e., 0 to 10 feet below ground surface)
- Soil Boring
- ▭ Parcel\_C\_Thiessen
- - - Area 5 Soil Investigation



H:\LePetomane\WERT\RI\_Evaluation\GIS\Fig 2\_Historic Sample Location.mxd

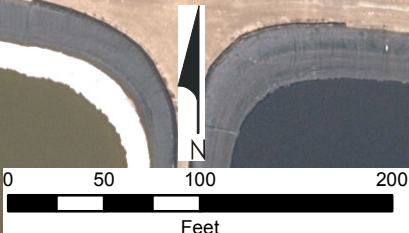
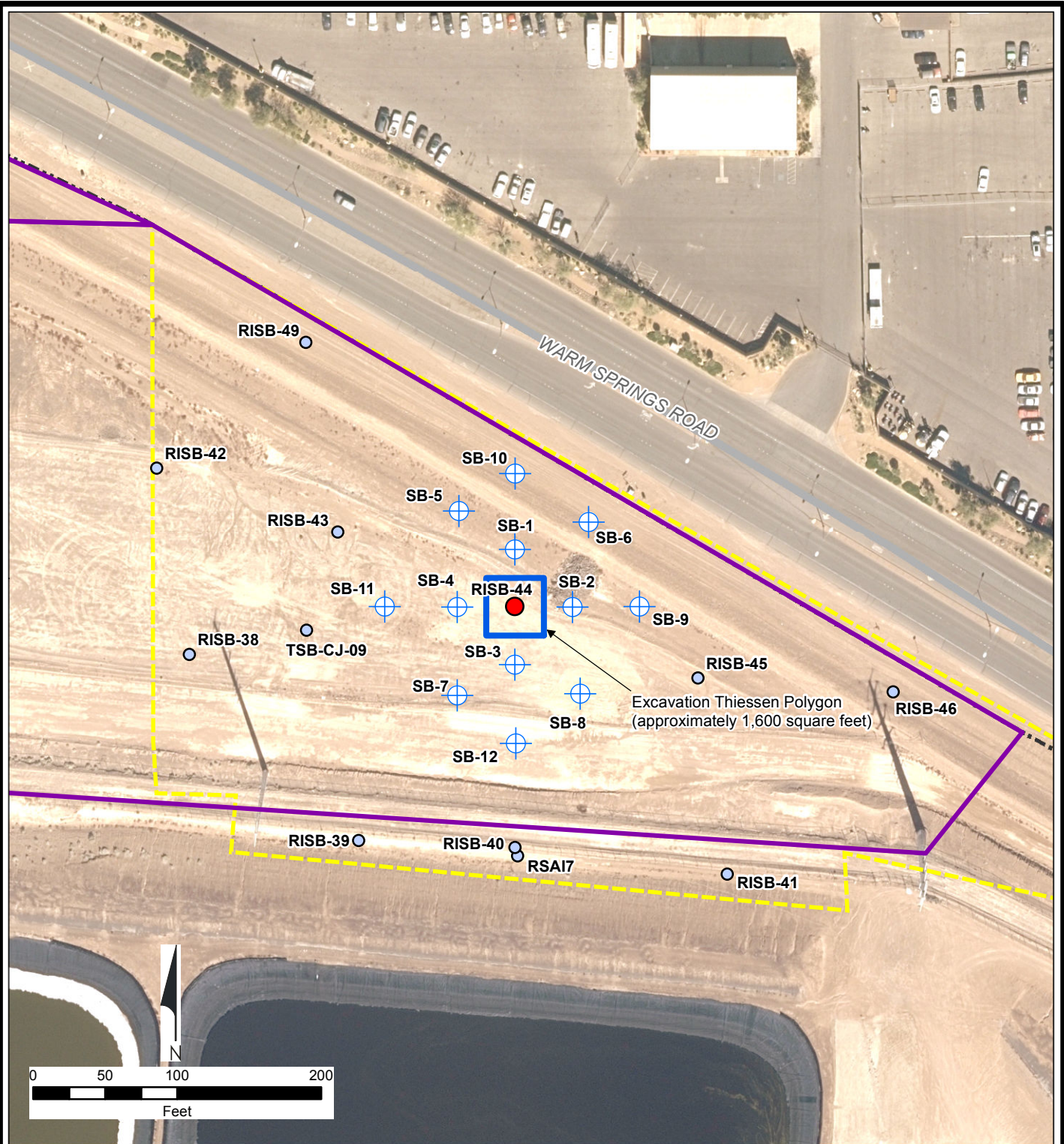
**RAMBOLL ENVIRON**

DRAFTED BY: RS      DATE: 3/17/2017

**Historic Sample Locations, Parcel C**  
 Nevada Environmental Response Trust (NERT) Site  
 Henderson, Nevada

**FIGURE**  
**2**

21-38800A



**Legend**

- Soil Boring Location (Ramboll Environ, 2016)
- Soil Boring With Exceedance of Site-Specific Soil Remediation Goal (SRG)
- Soil Boring
- Parcel Boundary
- Area 5 Soil Investigation Area

**Coordinates of soil removal area corners:**

	X	Y
Northeast	828072.86	26720986.47
Southeast	828072.86	26720946.47
Northwest	828032.86	26720946.47
Southwest	828032.86	26720986.47

Coordinate System:  
NAD 1983 StatePlane Nevada East FIPS 2701\_Feet.

H:\LePetomane\WERT\RI\_Evaluation\GIS\Fig 3\_Arsenic-Soil Removal.mxd

Work Plan for Soil Removal Action – Parcel C  
Nevada Environmental Response Trust Site  
Henderson, Nevada

**ATTACHMENT A**  
**LABORATORY RESULTS**

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Irvine

17461 Derian Ave

Suite 100

Irvine, CA 92614-5817

Tel: (949)261-1022

TestAmerica Job ID: 440-157962-1

Client Project/Site: NERT

For:

Ramboll Environ US Corporation

901 5th Ave.

Suite 2820

Seattle, Washington 98164

Attn: Devon Rowe



Authorized for release by:

9/26/2016 10:52:21 AM

Patty Mata, Senior Project Manager

(949)261-1022

[patty.mata@testamericainc.com](mailto:patty.mata@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*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.*

1

2

3

4

5

6

7

8

9

10

11

12

13





# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	2
Sample Summary . . . . .	3
Case Narrative . . . . .	4
Client Sample Results . . . . .	5
Method Summary . . . . .	13
Lab Chronicle . . . . .	14
QC Sample Results . . . . .	23
QC Association Summary . . . . .	25
Definitions/Glossary . . . . .	28
Certification Summary . . . . .	29
Chain of Custody . . . . .	30
Receipt Checklists . . . . .	33

# Sample Summary

Client: Ramboll Environ US Corporation  
Project/Site: NERT

TestAmerica Job ID: 440-157962-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-157962-1	SB11-20160908-0.5	Solid	09/08/16 09:30	09/09/16 10:10
440-157962-2	SB11-20160908-2.5	Solid	09/08/16 09:36	09/09/16 10:10
440-157962-3	SB4-20160908-0.5	Solid	09/08/16 09:45	09/09/16 10:10
440-157962-4	SB4-20160908-2.5	Solid	09/08/16 09:48	09/09/16 10:10
440-157962-5	SB7-20160908-0.5	Solid	09/08/16 09:57	09/09/16 10:10
440-157962-6	SB7-20160908-2.5	Solid	09/08/16 10:05	09/09/16 10:10
440-157962-7	RISB-44-20160908-2.5	Solid	09/08/16 10:20	09/09/16 10:10
440-157962-8	SB3-20160908-0.5	Solid	09/08/16 10:30	09/09/16 10:10
440-157962-9	SB3-20160908-2.5	Solid	09/08/16 10:40	09/09/16 10:10
440-157962-10	SB8-20160908-0.5	Solid	09/08/16 10:50	09/09/16 10:10
440-157962-11	SB8-20160908-2.5	Solid	09/08/16 11:00	09/09/16 10:10
440-157962-12	SB9-20160908-0.5	Solid	09/08/16 11:05	09/09/16 10:10
440-157962-13	SB9-20160908-2.5	Solid	09/08/16 11:15	09/09/16 10:10
440-157962-14	SB2-20160908-0.5	Solid	09/08/16 12:30	09/09/16 10:10
440-157962-15	SB2-20160908-2.5	Solid	09/08/16 12:35	09/09/16 10:10
440-157962-16	SB1-20160908-0.5	Solid	09/08/16 12:40	09/09/16 10:10
440-157962-17	SB1-20160908-2.5	Solid	09/08/16 12:48	09/09/16 10:10
440-157962-18	SB5-20160908-0.5	Solid	09/08/16 12:55	09/09/16 10:10
440-157962-19	SB5-20160908-2.5	Solid	09/08/16 13:00	09/09/16 10:10
440-157962-20	SB6-20160908-0.5	Solid	09/08/16 13:10	09/09/16 10:10
440-157962-21	SB6-20160908-2.5	Solid	09/08/16 13:15	09/09/16 10:10
440-157962-22	SB10-20160908-0.5	Solid	09/08/16 13:22	09/09/16 10:10
440-157962-23	SB10-20160908-2.5	Solid	09/08/16 13:30	09/09/16 10:10
440-157962-24	SB12-20160908-0.5	Solid	09/08/16 13:45	09/09/16 10:10
440-157962-25	SB12-20160908-2.5	Solid	09/08/16 13:50	09/09/16 10:10
440-157962-26	EB-20160908	Water	09/08/16 09:27	09/09/16 10:10

# Case Narrative

Client: Ramboll Environ US Corporation  
Project/Site: NERT

TestAmerica Job ID: 440-157962-1

---

**Job ID: 440-157962-1**

---

**Laboratory: TestAmerica Irvine**

---

## Narrative

**Job Narrative**  
**440-157962-1**

### Comments

No additional comments.

### Receipt

The samples were received on 9/9/2016 10:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.2° C.

### Metals

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

### General Chemistry

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

# Client Sample Results

Client: Ramboll Environ US Corporation  
Project/Site: NERT

TestAmerica Job ID: 440-157962-1

**Client Sample ID: SB11-20160908-0.5**

Date Collected: 09/08/16 09:30

Date Received: 09/09/16 10:10

**Lab Sample ID: 440-157962-1**

Matrix: Solid

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15.6		0.1	0.1	%			09/12/16 13:39	1

**Client Sample ID: SB11-20160908-0.5**

Date Collected: 09/08/16 09:30

Date Received: 09/09/16 10:10

**Lab Sample ID: 440-157962-1**

Matrix: Solid

Percent Solids: 84.4

**Method: 6020 - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.9		0.58	0.29	mg/Kg	☼	09/14/16 08:26	09/14/16 21:25	20

**Client Sample ID: SB11-20160908-2.5**

Date Collected: 09/08/16 09:36

Date Received: 09/09/16 10:10

**Lab Sample ID: 440-157962-2**

Matrix: Solid

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14.9		0.1	0.1	%			09/12/16 13:39	1

**Client Sample ID: SB11-20160908-2.5**

Date Collected: 09/08/16 09:36

Date Received: 09/09/16 10:10

**Lab Sample ID: 440-157962-2**

Matrix: Solid

Percent Solids: 85.1

**Method: 6020 - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.1		0.58	0.29	mg/Kg	☼	09/14/16 08:26	09/14/16 21:28	20

**Client Sample ID: SB4-20160908-0.5**

Date Collected: 09/08/16 09:45

Date Received: 09/09/16 10:10

**Lab Sample ID: 440-157962-3**

Matrix: Solid

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	17.6		0.1	0.1	%			09/12/16 13:39	1

**Client Sample ID: SB4-20160908-0.5**

Date Collected: 09/08/16 09:45

Date Received: 09/09/16 10:10

**Lab Sample ID: 440-157962-3**

Matrix: Solid

Percent Solids: 82.4

**Method: 6020 - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.0		0.59	0.30	mg/Kg	☼	09/14/16 08:26	09/14/16 21:30	20

**Client Sample ID: SB4-20160908-2.5**

Date Collected: 09/08/16 09:48

Date Received: 09/09/16 10:10

**Lab Sample ID: 440-157962-4**

Matrix: Solid

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.8		0.1	0.1	%			09/12/16 13:39	1

TestAmerica Irvine

# Client Sample Results

Client: Ramboll Environ US Corporation  
Project/Site: NERT

TestAmerica Job ID: 440-157962-1

**Client Sample ID: SB4-20160908-2.5**

Date Collected: 09/08/16 09:48

Date Received: 09/09/16 10:10

**Lab Sample ID: 440-157962-4**

Matrix: Solid

Percent Solids: 91.2

**Method: 6020 - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.1		0.54	0.27	mg/Kg	☼	09/14/16 08:26	09/14/16 21:33	20

**Client Sample ID: SB7-20160908-0.5**

Date Collected: 09/08/16 09:57

Date Received: 09/09/16 10:10

**Lab Sample ID: 440-157962-5**

Matrix: Solid

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.2		0.1	0.1	%	-		09/12/16 13:39	1

**Client Sample ID: SB7-20160908-0.5**

Date Collected: 09/08/16 09:57

Date Received: 09/09/16 10:10

**Lab Sample ID: 440-157962-5**

Matrix: Solid

Percent Solids: 87.8

**Method: 6020 - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.5		0.56	0.28	mg/Kg	☼	09/14/16 08:26	09/14/16 21:35	20

**Client Sample ID: SB7-20160908-2.5**

Date Collected: 09/08/16 10:05

Date Received: 09/09/16 10:10

**Lab Sample ID: 440-157962-6**

Matrix: Solid

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	24.0		0.1	0.1	%	-		09/12/16 13:39	1

**Client Sample ID: SB7-20160908-2.5**

Date Collected: 09/08/16 10:05

Date Received: 09/09/16 10:10

**Lab Sample ID: 440-157962-6**

Matrix: Solid

Percent Solids: 76.0

**Method: 6020 - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.5		0.65	0.33	mg/Kg	☼	09/14/16 08:26	09/14/16 21:43	20

**Client Sample ID: RISB-44-20160908-2.5**

Date Collected: 09/08/16 10:20

Date Received: 09/09/16 10:10

**Lab Sample ID: 440-157962-7**

Matrix: Solid

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.0		0.1	0.1	%	-		09/12/16 13:39	1

**Client Sample ID: RISB-44-20160908-2.5**

Date Collected: 09/08/16 10:20

Date Received: 09/09/16 10:10

**Lab Sample ID: 440-157962-7**

Matrix: Solid

Percent Solids: 93.0

**Method: 6020 - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.2		0.53	0.27	mg/Kg	☼	09/14/16 08:26	09/14/16 21:45	20

TestAmerica Irvine

# Client Sample Results

Client: Ramboll Environ US Corporation  
Project/Site: NERT

TestAmerica Job ID: 440-157962-1

**Client Sample ID: SB3-20160908-0.5**

Date Collected: 09/08/16 10:30

Date Received: 09/09/16 10:10

**Lab Sample ID: 440-157962-8**

Matrix: Solid

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	4.8		0.1	0.1	%			09/12/16 13:39	1

**Client Sample ID: SB3-20160908-0.5**

Date Collected: 09/08/16 10:30

Date Received: 09/09/16 10:10

**Lab Sample ID: 440-157962-8**

Matrix: Solid

Percent Solids: 95.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.7		0.52	0.26	mg/Kg	☼	09/14/16 08:26	09/14/16 21:47	20

**Client Sample ID: SB3-20160908-2.5**

Date Collected: 09/08/16 10:40

Date Received: 09/09/16 10:10

**Lab Sample ID: 440-157962-9**

Matrix: Solid

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	19.6		0.1	0.1	%			09/12/16 13:39	1

**Client Sample ID: SB3-20160908-2.5**

Date Collected: 09/08/16 10:40

Date Received: 09/09/16 10:10

**Lab Sample ID: 440-157962-9**

Matrix: Solid

Percent Solids: 80.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.5		0.62	0.31	mg/Kg	☼	09/14/16 08:26	09/14/16 21:52	20

**Client Sample ID: SB8-20160908-0.5**

Date Collected: 09/08/16 10:50

Date Received: 09/09/16 10:10

**Lab Sample ID: 440-157962-10**

Matrix: Solid

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	5.6		0.1	0.1	%			09/12/16 13:39	1

**Client Sample ID: SB8-20160908-0.5**

Date Collected: 09/08/16 10:50

Date Received: 09/09/16 10:10

**Lab Sample ID: 440-157962-10**

Matrix: Solid

Percent Solids: 94.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.9		0.52	0.26	mg/Kg	☼	09/14/16 08:26	09/14/16 21:54	20

**Client Sample ID: SB8-20160908-2.5**

Date Collected: 09/08/16 11:00

Date Received: 09/09/16 10:10

**Lab Sample ID: 440-157962-11**

Matrix: Solid

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.3		0.1	0.1	%			09/12/16 13:39	1

TestAmerica Irvine

# Client Sample Results

Client: Ramboll Environ US Corporation  
Project/Site: NERT

TestAmerica Job ID: 440-157962-1

**Client Sample ID: SB8-20160908-2.5**

Date Collected: 09/08/16 11:00

Date Received: 09/09/16 10:10

**Lab Sample ID: 440-157962-11**

Matrix: Solid

Percent Solids: 91.7

**Method: 6020 - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.4		0.54	0.27	mg/Kg	☼	09/14/16 08:26	09/14/16 21:57	20

**Client Sample ID: SB9-20160908-0.5**

Date Collected: 09/08/16 11:05

Date Received: 09/09/16 10:10

**Lab Sample ID: 440-157962-12**

Matrix: Solid

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	20.2		0.1	0.1	%			09/12/16 13:39	1

**Client Sample ID: SB9-20160908-0.5**

Date Collected: 09/08/16 11:05

Date Received: 09/09/16 10:10

**Lab Sample ID: 440-157962-12**

Matrix: Solid

Percent Solids: 79.8

**Method: 6020 - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.2		0.62	0.31	mg/Kg	☼	09/14/16 08:26	09/14/16 21:59	20

**Client Sample ID: SB9-20160908-2.5**

Date Collected: 09/08/16 11:15

Date Received: 09/09/16 10:10

**Lab Sample ID: 440-157962-13**

Matrix: Solid

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.4		0.1	0.1	%			09/12/16 13:39	1

**Client Sample ID: SB9-20160908-2.5**

Date Collected: 09/08/16 11:15

Date Received: 09/09/16 10:10

**Lab Sample ID: 440-157962-13**

Matrix: Solid

Percent Solids: 93.6

**Method: 6020 - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.4		0.53	0.26	mg/Kg	☼	09/14/16 08:27	09/14/16 23:28	20

**Client Sample ID: SB2-20160908-0.5**

Date Collected: 09/08/16 12:30

Date Received: 09/09/16 10:10

**Lab Sample ID: 440-157962-14**

Matrix: Solid

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15.8		0.1	0.1	%			09/12/16 13:39	1

**Client Sample ID: SB2-20160908-0.5**

Date Collected: 09/08/16 12:30

Date Received: 09/09/16 10:10

**Lab Sample ID: 440-157962-14**

Matrix: Solid

Percent Solids: 84.2

**Method: 6020 - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.1		0.58	0.29	mg/Kg	☼	09/14/16 08:27	09/14/16 23:39	20

TestAmerica Irvine

# Client Sample Results

Client: Ramboll Environ US Corporation  
Project/Site: NERT

TestAmerica Job ID: 440-157962-1

**Client Sample ID: SB2-20160908-2.5**

**Lab Sample ID: 440-157962-15**

Date Collected: 09/08/16 12:35

Matrix: Solid

Date Received: 09/09/16 10:10

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	19.4		0.1	0.1	%			09/12/16 13:39	1

**Client Sample ID: SB2-20160908-2.5**

**Lab Sample ID: 440-157962-15**

Date Collected: 09/08/16 12:35

Matrix: Solid

Date Received: 09/09/16 10:10

Percent Solids: 80.6

**Method: 6020 - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.1		0.61	0.31	mg/Kg	☼	09/14/16 08:27	09/14/16 23:49	20

**Client Sample ID: SB1-20160908-0.5**

**Lab Sample ID: 440-157962-16**

Date Collected: 09/08/16 12:40

Matrix: Solid

Date Received: 09/09/16 10:10

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.7		0.1	0.1	%			09/12/16 13:39	1

**Client Sample ID: SB1-20160908-0.5**

**Lab Sample ID: 440-157962-16**

Date Collected: 09/08/16 12:40

Matrix: Solid

Date Received: 09/09/16 10:10

Percent Solids: 89.3

**Method: 6020 - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.2		0.56	0.28	mg/Kg	☼	09/14/16 08:27	09/14/16 23:52	20

**Client Sample ID: SB1-20160908-2.5**

**Lab Sample ID: 440-157962-17**

Date Collected: 09/08/16 12:48

Matrix: Solid

Date Received: 09/09/16 10:10

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15.0		0.1	0.1	%			09/12/16 13:39	1

**Client Sample ID: SB1-20160908-2.5**

**Lab Sample ID: 440-157962-17**

Date Collected: 09/08/16 12:48

Matrix: Solid

Date Received: 09/09/16 10:10

Percent Solids: 85.0

**Method: 6020 - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.0		0.59	0.29	mg/Kg	☼	09/14/16 08:27	09/14/16 23:54	20

**Client Sample ID: SB5-20160908-0.5**

**Lab Sample ID: 440-157962-18**

Date Collected: 09/08/16 12:55

Matrix: Solid

Date Received: 09/09/16 10:10

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.4		0.1	0.1	%			09/12/16 13:39	1

TestAmerica Irvine



# Client Sample Results

Client: Ramboll Environ US Corporation  
Project/Site: NERT

TestAmerica Job ID: 440-157962-1

**Client Sample ID: SB5-20160908-0.5**

**Lab Sample ID: 440-157962-18**

Date Collected: 09/08/16 12:55

Matrix: Solid

Date Received: 09/09/16 10:10

Percent Solids: 91.6

**Method: 6020 - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.3		0.54	0.27	mg/Kg	☼	09/14/16 08:27	09/14/16 23:57	20

**Client Sample ID: SB5-20160908-2.5**

**Lab Sample ID: 440-157962-19**

Date Collected: 09/08/16 13:00

Matrix: Solid

Date Received: 09/09/16 10:10

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.3		0.1	0.1	%			09/12/16 13:39	1

**Client Sample ID: SB5-20160908-2.5**

**Lab Sample ID: 440-157962-19**

Date Collected: 09/08/16 13:00

Matrix: Solid

Date Received: 09/09/16 10:10

Percent Solids: 92.7

**Method: 6020 - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.9		0.53	0.27	mg/Kg	☼	09/14/16 08:27	09/14/16 23:59	20

**Client Sample ID: SB6-20160908-0.5**

**Lab Sample ID: 440-157962-20**

Date Collected: 09/08/16 13:10

Matrix: Solid

Date Received: 09/09/16 10:10

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	19.3		0.1	0.1	%			09/12/16 13:39	1

**Client Sample ID: SB6-20160908-0.5**

**Lab Sample ID: 440-157962-20**

Date Collected: 09/08/16 13:10

Matrix: Solid

Date Received: 09/09/16 10:10

Percent Solids: 80.7

**Method: 6020 - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.7		0.61	0.31	mg/Kg	☼	09/14/16 08:27	09/15/16 00:02	20

**Client Sample ID: SB6-20160908-2.5**

**Lab Sample ID: 440-157962-21**

Date Collected: 09/08/16 13:15

Matrix: Solid

Date Received: 09/09/16 10:10

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	22.7		0.1	0.1	%			09/12/16 14:42	1

**Client Sample ID: SB6-20160908-2.5**

**Lab Sample ID: 440-157962-21**

Date Collected: 09/08/16 13:15

Matrix: Solid

Date Received: 09/09/16 10:10

Percent Solids: 77.3

**Method: 6020 - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.4		0.64	0.32	mg/Kg	☼	09/14/16 08:27	09/15/16 00:04	20

TestAmerica Irvine

# Client Sample Results

Client: Ramboll Environ US Corporation  
Project/Site: NERT

TestAmerica Job ID: 440-157962-1

**Client Sample ID: SB10-20160908-0.5**

**Lab Sample ID: 440-157962-22**

Date Collected: 09/08/16 13:22

Matrix: Solid

Date Received: 09/09/16 10:10

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.3		0.1	0.1	%			09/12/16 14:42	1

**Client Sample ID: SB10-20160908-0.5**

**Lab Sample ID: 440-157962-22**

Date Collected: 09/08/16 13:22

Matrix: Solid

Date Received: 09/09/16 10:10

Percent Solids: 92.7

**Method: 6020 - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.6		0.54	0.27	mg/Kg	☼	09/14/16 08:27	09/15/16 00:06	20

**Client Sample ID: SB10-20160908-2.5**

**Lab Sample ID: 440-157962-23**

Date Collected: 09/08/16 13:30

Matrix: Solid

Date Received: 09/09/16 10:10

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.1		0.1	0.1	%			09/12/16 14:42	1

**Client Sample ID: SB10-20160908-2.5**

**Lab Sample ID: 440-157962-23**

Date Collected: 09/08/16 13:30

Matrix: Solid

Date Received: 09/09/16 10:10

Percent Solids: 90.9

**Method: 6020 - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.1		0.54	0.27	mg/Kg	☼	09/14/16 08:27	09/15/16 00:09	20

**Client Sample ID: SB12-20160908-0.5**

**Lab Sample ID: 440-157962-24**

Date Collected: 09/08/16 13:45

Matrix: Solid

Date Received: 09/09/16 10:10

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	5.6		0.1	0.1	%			09/12/16 14:42	1

**Client Sample ID: SB12-20160908-0.5**

**Lab Sample ID: 440-157962-24**

Date Collected: 09/08/16 13:45

Matrix: Solid

Date Received: 09/09/16 10:10

Percent Solids: 94.4

**Method: 6020 - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.3		0.52	0.26	mg/Kg	☼	09/14/16 08:27	09/15/16 00:16	20

**Client Sample ID: SB12-20160908-2.5**

**Lab Sample ID: 440-157962-25**

Date Collected: 09/08/16 13:50

Matrix: Solid

Date Received: 09/09/16 10:10

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	5.4		0.1	0.1	%			09/12/16 14:42	1

TestAmerica Irvine

# Client Sample Results

Client: Ramboll Environ US Corporation  
Project/Site: NERT

TestAmerica Job ID: 440-157962-1

**Client Sample ID: SB12-20160908-2.5**

**Date Collected: 09/08/16 13:50**

**Date Received: 09/09/16 10:10**

**Lab Sample ID: 440-157962-25**

**Matrix: Solid**

**Percent Solids: 94.6**

**Method: 6020 - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.6		0.53	0.26	mg/Kg	☼	09/14/16 08:29	09/15/16 00:19	20

**Client Sample ID: EB-20160908**

**Date Collected: 09/08/16 09:27**

**Date Received: 09/09/16 10:10**

**Lab Sample ID: 440-157962-26**

**Matrix: Water**

**Method: 200.8 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.0	0.50	ug/L		09/21/16 08:00	09/22/16 19:24	1

# Method Summary

Client: Ramboll Environ US Corporation  
Project/Site: NERT

TestAmerica Job ID: 440-157962-1

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

**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 IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022



# Lab Chronicle

Client: Ramboll Environ US Corporation  
Project/Site: NERT

TestAmerica Job ID: 440-157962-1

**Client Sample ID: SB11-20160908-0.5**

Date Collected: 09/08/16 09:30

Date Received: 09/09/16 10:10

**Lab Sample ID: 440-157962-1**

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			354998	09/12/16 13:39	MMH	TAL IRV

**Client Sample ID: SB11-20160908-0.5**

Date Collected: 09/08/16 09:30

Date Received: 09/09/16 10:10

**Lab Sample ID: 440-157962-1**

Matrix: Solid

Percent Solids: 84.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.03 g	50 mL	355456	09/14/16 08:26	DT	TAL IRV
Total/NA	Analysis	6020		20			355715	09/14/16 21:25	MQP	TAL IRV

**Client Sample ID: SB11-20160908-2.5**

Date Collected: 09/08/16 09:36

Date Received: 09/09/16 10:10

**Lab Sample ID: 440-157962-2**

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			354998	09/12/16 13:39	MMH	TAL IRV

**Client Sample ID: SB11-20160908-2.5**

Date Collected: 09/08/16 09:36

Date Received: 09/09/16 10:10

**Lab Sample ID: 440-157962-2**

Matrix: Solid

Percent Solids: 85.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	355456	09/14/16 08:26	DT	TAL IRV
Total/NA	Analysis	6020		20			355715	09/14/16 21:28	MQP	TAL IRV

**Client Sample ID: SB4-20160908-0.5**

Date Collected: 09/08/16 09:45

Date Received: 09/09/16 10:10

**Lab Sample ID: 440-157962-3**

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			354998	09/12/16 13:39	MMH	TAL IRV

**Client Sample ID: SB4-20160908-0.5**

Date Collected: 09/08/16 09:45

Date Received: 09/09/16 10:10

**Lab Sample ID: 440-157962-3**

Matrix: Solid

Percent Solids: 82.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.04 g	50 mL	355456	09/14/16 08:26	DT	TAL IRV
Total/NA	Analysis	6020		20			355715	09/14/16 21:30	MQP	TAL IRV

TestAmerica Irvine

# Lab Chronicle

Client: Ramboll Environ US Corporation  
Project/Site: NERT

TestAmerica Job ID: 440-157962-1

**Client Sample ID: SB4-20160908-2.5**

**Lab Sample ID: 440-157962-4**

Date Collected: 09/08/16 09:48

Matrix: Solid

Date Received: 09/09/16 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			354998	09/12/16 13:39	MMH	TAL IRV

**Client Sample ID: SB4-20160908-2.5**

**Lab Sample ID: 440-157962-4**

Date Collected: 09/08/16 09:48

Matrix: Solid

Date Received: 09/09/16 10:10

Percent Solids: 91.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.03 g	50 mL	355456	09/14/16 08:26	DT	TAL IRV
Total/NA	Analysis	6020		20			355715	09/14/16 21:33	MQP	TAL IRV

**Client Sample ID: SB7-20160908-0.5**

**Lab Sample ID: 440-157962-5**

Date Collected: 09/08/16 09:57

Matrix: Solid

Date Received: 09/09/16 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			354998	09/12/16 13:39	MMH	TAL IRV

**Client Sample ID: SB7-20160908-0.5**

**Lab Sample ID: 440-157962-5**

Date Collected: 09/08/16 09:57

Matrix: Solid

Date Received: 09/09/16 10:10

Percent Solids: 87.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.03 g	50 mL	355456	09/14/16 08:26	DT	TAL IRV
Total/NA	Analysis	6020		20			355715	09/14/16 21:35	MQP	TAL IRV

**Client Sample ID: SB7-20160908-2.5**

**Lab Sample ID: 440-157962-6**

Date Collected: 09/08/16 10:05

Matrix: Solid

Date Received: 09/09/16 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			354998	09/12/16 13:39	MMH	TAL IRV

**Client Sample ID: SB7-20160908-2.5**

**Lab Sample ID: 440-157962-6**

Date Collected: 09/08/16 10:05

Matrix: Solid

Date Received: 09/09/16 10:10

Percent Solids: 76.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	355456	09/14/16 08:26	DT	TAL IRV
Total/NA	Analysis	6020		20			355715	09/14/16 21:43	MQP	TAL IRV

TestAmerica Irvine

# Lab Chronicle

Client: Ramboll Environ US Corporation  
Project/Site: NERT

TestAmerica Job ID: 440-157962-1

**Client Sample ID: RISB-44-20160908-2.5**

**Lab Sample ID: 440-157962-7**

Date Collected: 09/08/16 10:20

Matrix: Solid

Date Received: 09/09/16 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			354998	09/12/16 13:39	MMH	TAL IRV

**Client Sample ID: RISB-44-20160908-2.5**

**Lab Sample ID: 440-157962-7**

Date Collected: 09/08/16 10:20

Matrix: Solid

Date Received: 09/09/16 10:10

Percent Solids: 93.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	355456	09/14/16 08:26	DT	TAL IRV
Total/NA	Analysis	6020		20			355715	09/14/16 21:45	MQP	TAL IRV

**Client Sample ID: SB3-20160908-0.5**

**Lab Sample ID: 440-157962-8**

Date Collected: 09/08/16 10:30

Matrix: Solid

Date Received: 09/09/16 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			354998	09/12/16 13:39	MMH	TAL IRV

**Client Sample ID: SB3-20160908-0.5**

**Lab Sample ID: 440-157962-8**

Date Collected: 09/08/16 10:30

Matrix: Solid

Date Received: 09/09/16 10:10

Percent Solids: 95.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	355456	09/14/16 08:26	DT	TAL IRV
Total/NA	Analysis	6020		20			355715	09/14/16 21:47	MQP	TAL IRV

**Client Sample ID: SB3-20160908-2.5**

**Lab Sample ID: 440-157962-9**

Date Collected: 09/08/16 10:40

Matrix: Solid

Date Received: 09/09/16 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			354998	09/12/16 13:39	MMH	TAL IRV

**Client Sample ID: SB3-20160908-2.5**

**Lab Sample ID: 440-157962-9**

Date Collected: 09/08/16 10:40

Matrix: Solid

Date Received: 09/09/16 10:10

Percent Solids: 80.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	355456	09/14/16 08:26	DT	TAL IRV
Total/NA	Analysis	6020		20			355715	09/14/16 21:52	MQP	TAL IRV

TestAmerica Irvine

# Lab Chronicle

Client: Ramboll Environ US Corporation  
Project/Site: NERT

TestAmerica Job ID: 440-157962-1

**Client Sample ID: SB8-20160908-0.5**

**Lab Sample ID: 440-157962-10**

Date Collected: 09/08/16 10:50

Matrix: Solid

Date Received: 09/09/16 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			354998	09/12/16 13:39	MMH	TAL IRV

**Client Sample ID: SB8-20160908-0.5**

**Lab Sample ID: 440-157962-10**

Date Collected: 09/08/16 10:50

Matrix: Solid

Date Received: 09/09/16 10:10

Percent Solids: 94.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.03 g	50 mL	355456	09/14/16 08:26	DT	TAL IRV
Total/NA	Analysis	6020		20			355715	09/14/16 21:54	MQP	TAL IRV

**Client Sample ID: SB8-20160908-2.5**

**Lab Sample ID: 440-157962-11**

Date Collected: 09/08/16 11:00

Matrix: Solid

Date Received: 09/09/16 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			354998	09/12/16 13:39	MMH	TAL IRV

**Client Sample ID: SB8-20160908-2.5**

**Lab Sample ID: 440-157962-11**

Date Collected: 09/08/16 11:00

Matrix: Solid

Date Received: 09/09/16 10:10

Percent Solids: 91.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	355456	09/14/16 08:26	DT	TAL IRV
Total/NA	Analysis	6020		20			355715	09/14/16 21:57	MQP	TAL IRV

**Client Sample ID: SB9-20160908-0.5**

**Lab Sample ID: 440-157962-12**

Date Collected: 09/08/16 11:05

Matrix: Solid

Date Received: 09/09/16 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			354998	09/12/16 13:39	MMH	TAL IRV

**Client Sample ID: SB9-20160908-0.5**

**Lab Sample ID: 440-157962-12**

Date Collected: 09/08/16 11:05

Matrix: Solid

Date Received: 09/09/16 10:10

Percent Solids: 79.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	355456	09/14/16 08:26	DT	TAL IRV
Total/NA	Analysis	6020		20			355715	09/14/16 21:59	MQP	TAL IRV

TestAmerica Irvine



# Lab Chronicle

Client: Ramboll Environ US Corporation  
Project/Site: NERT

TestAmerica Job ID: 440-157962-1

**Client Sample ID: SB9-20160908-2.5**

**Lab Sample ID: 440-157962-13**

Date Collected: 09/08/16 11:15

Matrix: Solid

Date Received: 09/09/16 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			354998	09/12/16 13:39	MMH	TAL IRV

**Client Sample ID: SB9-20160908-2.5**

**Lab Sample ID: 440-157962-13**

Date Collected: 09/08/16 11:15

Matrix: Solid

Date Received: 09/09/16 10:10

Percent Solids: 93.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.03 g	50 mL	355458	09/14/16 08:27	DT	TAL IRV
Total/NA	Analysis	6020		20			355761	09/14/16 23:28	RC	TAL IRV

**Client Sample ID: SB2-20160908-0.5**

**Lab Sample ID: 440-157962-14**

Date Collected: 09/08/16 12:30

Matrix: Solid

Date Received: 09/09/16 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			354998	09/12/16 13:39	MMH	TAL IRV

**Client Sample ID: SB2-20160908-0.5**

**Lab Sample ID: 440-157962-14**

Date Collected: 09/08/16 12:30

Matrix: Solid

Date Received: 09/09/16 10:10

Percent Solids: 84.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.03 g	50 mL	355458	09/14/16 08:27	DT	TAL IRV
Total/NA	Analysis	6020		20			355761	09/14/16 23:39	RC	TAL IRV

**Client Sample ID: SB2-20160908-2.5**

**Lab Sample ID: 440-157962-15**

Date Collected: 09/08/16 12:35

Matrix: Solid

Date Received: 09/09/16 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			354998	09/12/16 13:39	MMH	TAL IRV

**Client Sample ID: SB2-20160908-2.5**

**Lab Sample ID: 440-157962-15**

Date Collected: 09/08/16 12:35

Matrix: Solid

Date Received: 09/09/16 10:10

Percent Solids: 80.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	355458	09/14/16 08:27	DT	TAL IRV
Total/NA	Analysis	6020		20			355761	09/14/16 23:49	RC	TAL IRV

TestAmerica Irvine

# Lab Chronicle

Client: Ramboll Environ US Corporation  
Project/Site: NERT

TestAmerica Job ID: 440-157962-1

**Client Sample ID: SB1-20160908-0.5**

**Lab Sample ID: 440-157962-16**

Date Collected: 09/08/16 12:40

Matrix: Solid

Date Received: 09/09/16 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			354998	09/12/16 13:39	MMH	TAL IRV

**Client Sample ID: SB1-20160908-0.5**

**Lab Sample ID: 440-157962-16**

Date Collected: 09/08/16 12:40

Matrix: Solid

Date Received: 09/09/16 10:10

Percent Solids: 89.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	355458	09/14/16 08:27	DT	TAL IRV
Total/NA	Analysis	6020		20			355761	09/14/16 23:52	RC	TAL IRV

**Client Sample ID: SB1-20160908-2.5**

**Lab Sample ID: 440-157962-17**

Date Collected: 09/08/16 12:48

Matrix: Solid

Date Received: 09/09/16 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			354998	09/12/16 13:39	MMH	TAL IRV

**Client Sample ID: SB1-20160908-2.5**

**Lab Sample ID: 440-157962-17**

Date Collected: 09/08/16 12:48

Matrix: Solid

Date Received: 09/09/16 10:10

Percent Solids: 85.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	355458	09/14/16 08:27	DT	TAL IRV
Total/NA	Analysis	6020		20			355761	09/14/16 23:54	RC	TAL IRV

**Client Sample ID: SB5-20160908-0.5**

**Lab Sample ID: 440-157962-18**

Date Collected: 09/08/16 12:55

Matrix: Solid

Date Received: 09/09/16 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			354998	09/12/16 13:39	MMH	TAL IRV

**Client Sample ID: SB5-20160908-0.5**

**Lab Sample ID: 440-157962-18**

Date Collected: 09/08/16 12:55

Matrix: Solid

Date Received: 09/09/16 10:10

Percent Solids: 91.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	355458	09/14/16 08:27	DT	TAL IRV
Total/NA	Analysis	6020		20			355761	09/14/16 23:57	RC	TAL IRV

TestAmerica Irvine

# Lab Chronicle

Client: Ramboll Environ US Corporation  
Project/Site: NERT

TestAmerica Job ID: 440-157962-1

**Client Sample ID: SB5-20160908-2.5**

**Lab Sample ID: 440-157962-19**

Date Collected: 09/08/16 13:00

Matrix: Solid

Date Received: 09/09/16 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			354998	09/12/16 13:39	MMH	TAL IRV

**Client Sample ID: SB5-20160908-2.5**

**Lab Sample ID: 440-157962-19**

Date Collected: 09/08/16 13:00

Matrix: Solid

Date Received: 09/09/16 10:10

Percent Solids: 92.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.03 g	50 mL	355458	09/14/16 08:27	DT	TAL IRV
Total/NA	Analysis	6020		20			355761	09/14/16 23:59	RC	TAL IRV

**Client Sample ID: SB6-20160908-0.5**

**Lab Sample ID: 440-157962-20**

Date Collected: 09/08/16 13:10

Matrix: Solid

Date Received: 09/09/16 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			354998	09/12/16 13:39	MMH	TAL IRV

**Client Sample ID: SB6-20160908-0.5**

**Lab Sample ID: 440-157962-20**

Date Collected: 09/08/16 13:10

Matrix: Solid

Date Received: 09/09/16 10:10

Percent Solids: 80.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	355458	09/14/16 08:27	DT	TAL IRV
Total/NA	Analysis	6020		20			355761	09/15/16 00:02	RC	TAL IRV

**Client Sample ID: SB6-20160908-2.5**

**Lab Sample ID: 440-157962-21**

Date Collected: 09/08/16 13:15

Matrix: Solid

Date Received: 09/09/16 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			355015	09/12/16 14:42	MMH	TAL IRV

**Client Sample ID: SB6-20160908-2.5**

**Lab Sample ID: 440-157962-21**

Date Collected: 09/08/16 13:15

Matrix: Solid

Date Received: 09/09/16 10:10

Percent Solids: 77.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.03 g	50 mL	355458	09/14/16 08:27	DT	TAL IRV
Total/NA	Analysis	6020		20			355761	09/15/16 00:04	RC	TAL IRV

TestAmerica Irvine

# Lab Chronicle

Client: Ramboll Environ US Corporation  
Project/Site: NERT

TestAmerica Job ID: 440-157962-1

**Client Sample ID: SB10-20160908-0.5**

**Lab Sample ID: 440-157962-22**

Date Collected: 09/08/16 13:22

Matrix: Solid

Date Received: 09/09/16 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			355015	09/12/16 14:42	MMH	TAL IRV

**Client Sample ID: SB10-20160908-0.5**

**Lab Sample ID: 440-157962-22**

Date Collected: 09/08/16 13:22

Matrix: Solid

Date Received: 09/09/16 10:10

Percent Solids: 92.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	355458	09/14/16 08:27	DT	TAL IRV
Total/NA	Analysis	6020		20			355761	09/15/16 00:06	RC	TAL IRV

**Client Sample ID: SB10-20160908-2.5**

**Lab Sample ID: 440-157962-23**

Date Collected: 09/08/16 13:30

Matrix: Solid

Date Received: 09/09/16 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			355015	09/12/16 14:42	MMH	TAL IRV

**Client Sample ID: SB10-20160908-2.5**

**Lab Sample ID: 440-157962-23**

Date Collected: 09/08/16 13:30

Matrix: Solid

Date Received: 09/09/16 10:10

Percent Solids: 90.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	355458	09/14/16 08:27	DT	TAL IRV
Total/NA	Analysis	6020		20			355761	09/15/16 00:09	RC	TAL IRV

**Client Sample ID: SB12-20160908-0.5**

**Lab Sample ID: 440-157962-24**

Date Collected: 09/08/16 13:45

Matrix: Solid

Date Received: 09/09/16 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			355015	09/12/16 14:42	MMH	TAL IRV

**Client Sample ID: SB12-20160908-0.5**

**Lab Sample ID: 440-157962-24**

Date Collected: 09/08/16 13:45

Matrix: Solid

Date Received: 09/09/16 10:10

Percent Solids: 94.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.04 g	50 mL	355458	09/14/16 08:27	DT	TAL IRV
Total/NA	Analysis	6020		20			355761	09/15/16 00:16	RC	TAL IRV

TestAmerica Irvine

# Lab Chronicle

Client: Ramboll Environ US Corporation  
Project/Site: NERT

TestAmerica Job ID: 440-157962-1

**Client Sample ID: SB12-20160908-2.5**

**Lab Sample ID: 440-157962-25**

Date Collected: 09/08/16 13:50

Matrix: Solid

Date Received: 09/09/16 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			355015	09/12/16 14:42	MMH	TAL IRV

**Client Sample ID: SB12-20160908-2.5**

**Lab Sample ID: 440-157962-25**

Date Collected: 09/08/16 13:50

Matrix: Solid

Date Received: 09/09/16 10:10

Percent Solids: 94.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	355458	09/14/16 08:29	DT	TAL IRV
Total/NA	Analysis	6020		20			355761	09/15/16 00:19	RC	TAL IRV

**Client Sample ID: EB-20160908**

**Lab Sample ID: 440-157962-26**

Date Collected: 09/08/16 09:27

Matrix: Water

Date Received: 09/09/16 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.2			25 mL	25 mL	357007	09/21/16 08:00	Q1N	TAL IRV
Total Recoverable	Analysis	200.8		1			357548	09/22/16 19:24	RC	TAL IRV

**Laboratory References:**

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

# QC Sample Results

Client: Ramboll Environ US Corporation  
Project/Site: NERT

TestAmerica Job ID: 440-157962-1

## Method: 200.8 - Metals (ICP/MS)

**Lab Sample ID: MB 440-357007/1-A**  
**Matrix: Water**  
**Analysis Batch: 357548**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 357007**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.0	0.50	ug/L		09/21/16 08:00	09/22/16 17:06	1

**Lab Sample ID: LCS 440-357007/2-A**  
**Matrix: Water**  
**Analysis Batch: 357548**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 357007**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	80.0	78.5		ug/L		98	85 - 115

**Lab Sample ID: 440-159026-A-11-B MS**  
**Matrix: Water**  
**Analysis Batch: 357548**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total Recoverable**  
**Prep Batch: 357007**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Arsenic	4.3		80.0	83.4		ug/L		99	70 - 130

**Lab Sample ID: 440-159026-A-11-C MSD**  
**Matrix: Water**  
**Analysis Batch: 357548**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total Recoverable**  
**Prep Batch: 357007**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Arsenic	4.3		80.0	84.6		ug/L		100	70 - 130	1	20

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

**Lab Sample ID: MB 440-355456/1-A ^20**  
**Matrix: Solid**  
**Analysis Batch: 355654**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 355456**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.49	0.25	mg/Kg		09/14/16 08:26	09/14/16 16:50	20

**Lab Sample ID: LCS 440-355456/2-A ^20**  
**Matrix: Solid**  
**Analysis Batch: 355654**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 355456**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	49.8	44.0		mg/Kg		88	80 - 120

**Lab Sample ID: 440-158267-A-1-E MS ^20**  
**Matrix: Solid**  
**Analysis Batch: 355654**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 355456**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Arsenic	1.5		49.0	42.8		mg/Kg		84	80 - 120

TestAmerica Irvine

# QC Sample Results

Client: Ramboll Environ US Corporation  
Project/Site: NERT

TestAmerica Job ID: 440-157962-1

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

**Lab Sample ID: 440-158267-A-1-F MSD ^20**

**Matrix: Solid**  
**Analysis Batch: 355654**

**Client Sample ID: Matrix Spike Duplicate**

**Prep Type: Total/NA**  
**Prep Batch: 355456**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Arsenic	1.5		49.5	44.0		mg/Kg		86	80 - 120	3	20

**Lab Sample ID: MB 440-355458/1-A ^20**

**Matrix: Solid**  
**Analysis Batch: 355761**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**  
**Prep Batch: 355458**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.49	0.25	mg/Kg		09/14/16 08:27	09/14/16 23:22	20

**Lab Sample ID: LCS 440-355458/2-A ^20**

**Matrix: Solid**  
**Analysis Batch: 355761**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**  
**Prep Batch: 355458**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	49.5	44.8		mg/Kg		90	80 - 120

**Lab Sample ID: 440-157962-13 MS**

**Matrix: Solid**  
**Analysis Batch: 355761**

**Client Sample ID: SB9-20160908-2.5**

**Prep Type: Total/NA**  
**Prep Batch: 355458**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Arsenic	3.4		53.4	48.9		mg/Kg	☼	85	80 - 120

**Lab Sample ID: 440-157962-13 MSD**

**Matrix: Solid**  
**Analysis Batch: 355761**

**Client Sample ID: SB9-20160908-2.5**

**Prep Type: Total/NA**  
**Prep Batch: 355458**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Arsenic	3.4		52.9	49.1		mg/Kg	☼	86	80 - 120	0	20

## Method: Moisture - Percent Moisture

**Lab Sample ID: 440-157962-1 DU**

**Matrix: Solid**  
**Analysis Batch: 354998**

**Client Sample ID: SB11-20160908-0.5**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Percent Moisture	15.6		15.2		%		3	20

**Lab Sample ID: 440-157962-22 DU**

**Matrix: Solid**  
**Analysis Batch: 355015**

**Client Sample ID: SB10-20160908-0.5**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Percent Moisture	7.3		7.0		%		4	20

TestAmerica Irvine

# QC Association Summary

Client: Ramboll Environ US Corporation  
Project/Site: NERT

TestAmerica Job ID: 440-157962-1

## Metals

### Prep Batch: 355456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-157962-1	SB11-20160908-0.5	Total/NA	Solid	3050B	
440-157962-2	SB11-20160908-2.5	Total/NA	Solid	3050B	
440-157962-3	SB4-20160908-0.5	Total/NA	Solid	3050B	
440-157962-4	SB4-20160908-2.5	Total/NA	Solid	3050B	
440-157962-5	SB7-20160908-0.5	Total/NA	Solid	3050B	
440-157962-6	SB7-20160908-2.5	Total/NA	Solid	3050B	
440-157962-7	RISB-44-20160908-2.5	Total/NA	Solid	3050B	
440-157962-8	SB3-20160908-0.5	Total/NA	Solid	3050B	
440-157962-9	SB3-20160908-2.5	Total/NA	Solid	3050B	
440-157962-10	SB8-20160908-0.5	Total/NA	Solid	3050B	
440-157962-11	SB8-20160908-2.5	Total/NA	Solid	3050B	
440-157962-12	SB9-20160908-0.5	Total/NA	Solid	3050B	
MB 440-355456/1-A ^20	Method Blank	Total/NA	Solid	3050B	
LCS 440-355456/2-A ^20	Lab Control Sample	Total/NA	Solid	3050B	
440-158267-A-1-E MS ^20	Matrix Spike	Total/NA	Solid	3050B	
440-158267-A-1-F MSD ^20	Matrix Spike Duplicate	Total/NA	Solid	3050B	

### Prep Batch: 355458

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-157962-13	SB9-20160908-2.5	Total/NA	Solid	3050B	
440-157962-14	SB2-20160908-0.5	Total/NA	Solid	3050B	
440-157962-15	SB2-20160908-2.5	Total/NA	Solid	3050B	
440-157962-16	SB1-20160908-0.5	Total/NA	Solid	3050B	
440-157962-17	SB1-20160908-2.5	Total/NA	Solid	3050B	
440-157962-18	SB5-20160908-0.5	Total/NA	Solid	3050B	
440-157962-19	SB5-20160908-2.5	Total/NA	Solid	3050B	
440-157962-20	SB6-20160908-0.5	Total/NA	Solid	3050B	
440-157962-21	SB6-20160908-2.5	Total/NA	Solid	3050B	
440-157962-22	SB10-20160908-0.5	Total/NA	Solid	3050B	
440-157962-23	SB10-20160908-2.5	Total/NA	Solid	3050B	
440-157962-24	SB12-20160908-0.5	Total/NA	Solid	3050B	
440-157962-25	SB12-20160908-2.5	Total/NA	Solid	3050B	
MB 440-355458/1-A ^20	Method Blank	Total/NA	Solid	3050B	
LCS 440-355458/2-A ^20	Lab Control Sample	Total/NA	Solid	3050B	
440-157962-13 MS	SB9-20160908-2.5	Total/NA	Solid	3050B	
440-157962-13 MSD	SB9-20160908-2.5	Total/NA	Solid	3050B	

### Analysis Batch: 355654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 440-355456/1-A ^20	Method Blank	Total/NA	Solid	6020	355456
LCS 440-355456/2-A ^20	Lab Control Sample	Total/NA	Solid	6020	355456
440-158267-A-1-E MS ^20	Matrix Spike	Total/NA	Solid	6020	355456
440-158267-A-1-F MSD ^20	Matrix Spike Duplicate	Total/NA	Solid	6020	355456

### Analysis Batch: 355715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-157962-1	SB11-20160908-0.5	Total/NA	Solid	6020	355456
440-157962-2	SB11-20160908-2.5	Total/NA	Solid	6020	355456
440-157962-3	SB4-20160908-0.5	Total/NA	Solid	6020	355456
440-157962-4	SB4-20160908-2.5	Total/NA	Solid	6020	355456
440-157962-5	SB7-20160908-0.5	Total/NA	Solid	6020	355456

TestAmerica Irvine



# QC Association Summary

Client: Ramboll Environ US Corporation  
Project/Site: NERT

TestAmerica Job ID: 440-157962-1

## Metals (Continued)

### Analysis Batch: 355715 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-157962-6	SB7-20160908-2.5	Total/NA	Solid	6020	355456
440-157962-7	RISB-44-20160908-2.5	Total/NA	Solid	6020	355456
440-157962-8	SB3-20160908-0.5	Total/NA	Solid	6020	355456
440-157962-9	SB3-20160908-2.5	Total/NA	Solid	6020	355456
440-157962-10	SB8-20160908-0.5	Total/NA	Solid	6020	355456
440-157962-11	SB8-20160908-2.5	Total/NA	Solid	6020	355456
440-157962-12	SB9-20160908-0.5	Total/NA	Solid	6020	355456

### Analysis Batch: 355761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-157962-13	SB9-20160908-2.5	Total/NA	Solid	6020	355458
440-157962-14	SB2-20160908-0.5	Total/NA	Solid	6020	355458
440-157962-15	SB2-20160908-2.5	Total/NA	Solid	6020	355458
440-157962-16	SB1-20160908-0.5	Total/NA	Solid	6020	355458
440-157962-17	SB1-20160908-2.5	Total/NA	Solid	6020	355458
440-157962-18	SB5-20160908-0.5	Total/NA	Solid	6020	355458
440-157962-19	SB5-20160908-2.5	Total/NA	Solid	6020	355458
440-157962-20	SB6-20160908-0.5	Total/NA	Solid	6020	355458
440-157962-21	SB6-20160908-2.5	Total/NA	Solid	6020	355458
440-157962-22	SB10-20160908-0.5	Total/NA	Solid	6020	355458
440-157962-23	SB10-20160908-2.5	Total/NA	Solid	6020	355458
440-157962-24	SB12-20160908-0.5	Total/NA	Solid	6020	355458
440-157962-25	SB12-20160908-2.5	Total/NA	Solid	6020	355458
MB 440-355458/1-A ^20	Method Blank	Total/NA	Solid	6020	355458
LCS 440-355458/2-A ^20	Lab Control Sample	Total/NA	Solid	6020	355458
440-157962-13 MS	SB9-20160908-2.5	Total/NA	Solid	6020	355458
440-157962-13 MSD	SB9-20160908-2.5	Total/NA	Solid	6020	355458

### Prep Batch: 357007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-157962-26	EB-20160908	Total Recoverable	Water	200.2	
MB 440-357007/1-A	Method Blank	Total Recoverable	Water	200.2	
LCS 440-357007/2-A	Lab Control Sample	Total Recoverable	Water	200.2	
440-159026-A-11-B MS	Matrix Spike	Total Recoverable	Water	200.2	
440-159026-A-11-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	200.2	

### Analysis Batch: 357548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-157962-26	EB-20160908	Total Recoverable	Water	200.8	357007
MB 440-357007/1-A	Method Blank	Total Recoverable	Water	200.8	357007
LCS 440-357007/2-A	Lab Control Sample	Total Recoverable	Water	200.8	357007
440-159026-A-11-B MS	Matrix Spike	Total Recoverable	Water	200.8	357007
440-159026-A-11-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	200.8	357007

## General Chemistry

### Analysis Batch: 354998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-157962-1	SB11-20160908-0.5	Total/NA	Solid	Moisture	
440-157962-2	SB11-20160908-2.5	Total/NA	Solid	Moisture	

TestAmerica Irvine

# QC Association Summary

Client: Ramboll Environ US Corporation  
Project/Site: NERT

TestAmerica Job ID: 440-157962-1

## General Chemistry (Continued)

### Analysis Batch: 354998 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-157962-3	SB4-20160908-0.5	Total/NA	Solid	Moisture	
440-157962-4	SB4-20160908-2.5	Total/NA	Solid	Moisture	
440-157962-5	SB7-20160908-0.5	Total/NA	Solid	Moisture	
440-157962-6	SB7-20160908-2.5	Total/NA	Solid	Moisture	
440-157962-7	RISB-44-20160908-2.5	Total/NA	Solid	Moisture	
440-157962-8	SB3-20160908-0.5	Total/NA	Solid	Moisture	
440-157962-9	SB3-20160908-2.5	Total/NA	Solid	Moisture	
440-157962-10	SB8-20160908-0.5	Total/NA	Solid	Moisture	
440-157962-11	SB8-20160908-2.5	Total/NA	Solid	Moisture	
440-157962-12	SB9-20160908-0.5	Total/NA	Solid	Moisture	
440-157962-13	SB9-20160908-2.5	Total/NA	Solid	Moisture	
440-157962-14	SB2-20160908-0.5	Total/NA	Solid	Moisture	
440-157962-15	SB2-20160908-2.5	Total/NA	Solid	Moisture	
440-157962-16	SB1-20160908-0.5	Total/NA	Solid	Moisture	
440-157962-17	SB1-20160908-2.5	Total/NA	Solid	Moisture	
440-157962-18	SB5-20160908-0.5	Total/NA	Solid	Moisture	
440-157962-19	SB5-20160908-2.5	Total/NA	Solid	Moisture	
440-157962-20	SB6-20160908-0.5	Total/NA	Solid	Moisture	
440-157962-1 DU	SB11-20160908-0.5	Total/NA	Solid	Moisture	

### Analysis Batch: 355015

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-157962-21	SB6-20160908-2.5	Total/NA	Solid	Moisture	
440-157962-22	SB10-20160908-0.5	Total/NA	Solid	Moisture	
440-157962-23	SB10-20160908-2.5	Total/NA	Solid	Moisture	
440-157962-24	SB12-20160908-0.5	Total/NA	Solid	Moisture	
440-157962-25	SB12-20160908-2.5	Total/NA	Solid	Moisture	
440-157962-22 DU	SB10-20160908-0.5	Total/NA	Solid	Moisture	

# Definitions/Glossary

Client: Ramboll Environ US Corporation  
Project/Site: NERT

TestAmerica Job ID: 440-157962-1

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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
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)

# Certification Summary

Client: Ramboll Environ US Corporation  
Project/Site: NERT

TestAmerica Job ID: 440-157962-1

## Laboratory: TestAmerica Irvine

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Nevada	State Program	9	CA015312016-2	07-31-17 *

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture

\* Certification renewal pending - certification considered valid.



Regulatory Program:  DW  NPDES  RCRA  Other:

Project Manager: **Devon Love** Site Contact: **S. Zwick** Date: **9/17/16**  
 Tel/Fax: **360-601-8315** Lab Contact: **FeleX** Carrier: **FeleX** COC No. **1** of **3** COCs

Company Name: **Pembell Environ**  
 Address: **901 5th Ave, Suite 2820**  
 City/State/Zip: **Seattle, WA 98104**  
 Phone: **206-336-1050**  
 Fax:  
 Project Name: **VERT**  
 Site: **Henderson, NV**  
 PO #: **213880 A**

Sample Identification	Sample Date	Sample Time	Sample Type (C-Comp, G-Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	Sample Specific Notes:	
								Analysis Turnaround Time	Other:
SB11-20160908-0.5	9-8-16	0930	C	S	1				
SB11-20160908-2.5		0936							
SB4-20160908-0.5		0945							
SB4-20160908-2.5		0948							
SB7-20160908-0.5		0957							
SB7-20160908-2.5		1005							
SB8-20160908-0.5		1020							
SB8-20160908-2.5		1030							
SB8-20160908-0.5		1040							
SB8-20160908-2.5		1050							
SB9-20160908-0.5		1100							
SB9-20160908-2.5		1105							



Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other  
 Possible Hazard Identification: Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  
 Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months

Special Instructions/QC Requirements & Comments:

Cooler Temp. (°C): Obs'd: \_\_\_\_\_ Corr'd: \_\_\_\_\_ Therm ID No.: \_\_\_\_\_  
 Relinquished by: **Sami Zwick** Date/Time: **9-8-16**  
 Relinquished by: **Pembell Environ** Date/Time: **1900**  
 Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_

#7771-8727-0500  
 2.8/2.2 3574



# ENVIRON

6001 Shellmound Street, Suite 700  
 Emeryville, California 94608  
 (510) 655-7400  
 (510) 655-9517 (fax)

# CHAIN-OF-CUSTODY

02766

PAGE 2 of 3

PROJECT NAME / FACILITY ID: NERT FIELD PERSON: Sam Leick  
 PROJECT NUMBER: 2138800 A DATE: 9/8/2016 PROJECT MANAGER: Devon Rowe  
 PROJECT LOCATION: Henderson, NV LABORATORY: Test America

IS THIS A UST PROJECT OR IS EDF REQUIRED? Y N IF YES, GLOBAL ID #: \_\_\_\_\_ WO#: \_\_\_\_\_

SAMPLER:	SIGNATURE:	YEAR	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH	MATRIX (S) SOIL (G) GAS (W) WATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED	COMMENTS	TURNAROUND TIME (CIRCLE ONE) 24 HOURS 48 HOURS 72 HOURS 5 DAYS NORMAL	IF SEALED, SEAL INTEGRITY	INTACT: Y N	INTACT: Y N
S89-20160908-2.5			9-8-16 11:15			S	1	U	NA	X					
S82-20160908-0.5			12:30												
S82-20160908-2.5			12:35												
S81-20160908-0.5			12:40												
S81-20160908-2.5			12:48												
S85-20160908-0.5			12:55												
S85-20160908-2.5			13:00												
S86-20160908-0.5			13:10												
S86-20160908-2.5			13:15												
S810-20160908-0.5			13:22												
TOTAL			X	X	X	X	X	X	X	X					
RELINQUISHED BY:	RELINQUISHED BY:	RELINQUISHED BY:	RELINQUISHED BY:	RELINQUISHED BY:	RELINQUISHED BY:	RELINQUISHED BY:	RELINQUISHED BY:	RELINQUISHED BY:	RELINQUISHED BY:	RELINQUISHED BY:	RELINQUISHED BY:	RELINQUISHED BY:	RELINQUISHED BY:	RELINQUISHED BY:	RELINQUISHED BY:
TIME/DATE:	TIME/DATE:	TIME/DATE:	TIME/DATE:	TIME/DATE:	TIME/DATE:	TIME/DATE:	TIME/DATE:	TIME/DATE:	TIME/DATE:	TIME/DATE:	TIME/DATE:	TIME/DATE:	TIME/DATE:	TIME/DATE:	TIME/DATE:
9-8-16 / 16:00	9-8-16 / 16:00	9-8-16 / 16:00	9-8-16 / 16:00	9-8-16 / 16:00	9-8-16 / 16:00	9-8-16 / 16:00	9-8-16 / 16:00	9-8-16 / 16:00	9-8-16 / 16:00	9-8-16 / 16:00	9-8-16 / 16:00	9-8-16 / 16:00	9-8-16 / 16:00	9-8-16 / 16:00	9-8-16 / 16:00



PROJECT NAME / FACILITY ID: NEPT-Parcel C FIELD PERSON: Sam Leick  
 PROJECT NUMBER: 2138800A DATE: 9/8/16 PROJECT MANAGER: Devon Lowe  
 PROJECT LOCATION: Henderson, NV LABORATORY: \_\_\_\_\_

IS THIS A UST PROJECT OR IS EDF REQUIRED? Y N IF YES, GLOBAL ID #: \_\_\_\_\_ WO#: \_\_\_\_\_

SAMPLER:	SIGNATURE:	YEAR	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH	MATRIX (S) SOIL (G) GAS (W) WATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED	COMMENTS
			9/8/16	1330	2.5	S	1	U	N/A	Asstent 6010/6020 200-7/200.8	
				1345	0.5						
				1350	2.5						
				0927	X	W					
<b>TOTAL</b>			X	X	X	X	X	X	X	X	

RELINQUISHED BY: Sam Leick TIME/DATE: 9-8-16 / 16:00  
 RECEIVED BY: \_\_\_\_\_ (COMPANY): \_\_\_\_\_  
 RELINQUISHED BY: \_\_\_\_\_ TIME/DATE: \_\_\_\_\_  
 RECEIVED BY: \_\_\_\_\_ (COMPANY): \_\_\_\_\_  
 RELINQUISHED BY: \_\_\_\_\_ TIME/DATE: \_\_\_\_\_  
 RECEIVED BY: \_\_\_\_\_ (COMPANY): \_\_\_\_\_

TURNAROUND TIME (CIRCLE ONE) 72 HOURS 24 HOURS 48 HOURS 5 DAYS  
 SAMPLE INTEGRITY: NORMAL IF SEALED, SEAL INTEGRITY: \_\_\_\_\_  
 INTACT: Y N Temp: \_\_\_\_\_ INTACT: Y N



## Login Sample Receipt Checklist

Client: Ramboll Environ US Corporation

Job Number: 440-157962-1

**Login Number: 157962**

**List Number: 1**

**Creator: Garcia, Veronica G**

**List Source: TestAmerica Irvine**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





Work Plan for Soil Removal Action – Parcel C  
Nevada Environmental Response Trust Site  
Henderson, Nevada

**ATTACHMENT B**  
**WASTE DISPOSAL DOCUMENTATION**



Requested Disposal Facility: 3825 Apex Regional LF NV

Waste Profile #

Saveable fill-in form Restricted printing until all required (yellow) fields are completed

I. Generator Information

Sales Rep #:

Generator Name: Nevada Environmental Response Trust, Le Petomane XXVII, Inc.

Generator Site Address: 510 4th Street

City: Henderson County: Clark State: Nevada Zip: 89015

State ID/Reg No: State Approval/Waste Code: (if applicable) NAICS # :

Generator Mailing Address (if different): [checked] 35 East Wacker Drive, Suite 1550

City: Chicago County: Cook State: Illinois Zip: 60601

Generator Contact Name: Steve Clough Email: steve.clough@nert-trust.com

Phone Number: (702) 960-4309 Ext: Fax Number:

II. Billing Information

Bill To: Ramboll Environ US Corporation Contact Name: Devon Rowe

Billing Address: 2200 Powell Street, 7th Floor Email: drowe@ramboll.com

City: Emeryville State: CA Zip: 94608 Phone: (360) 597-7066

III. Waste Stream Information

Name of Waste: Nonhazardous Solid Waste

Process Generating Waste:

Excavated arsenic-containing soil, See attached analytical data

Type of Waste: [ ] INDUSTRIAL PROCESS WASTE [checked] POLLUTION CONTROL WASTE

Physical State: [checked] SOLID [ ] SEMI-SOLID [ ] POWDER [ ] LIQUID

Method of Shipment: [checked] BULK [ ] DRUM [ ] BAGGED [ ] OTHER:

Estimated Annual Volume: 110 Tons

Frequency: [checked] ONE TIME [ ] ONGOING

Disposal Consideration: [checked] LANDFILL [ ] SOLIDIFICATION [ ] BIOREMEDIATION

IV. Representative Sample Certification

[ ] NO SAMPLE TAKEN

Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent rules?

[checked] YES or [ ] NO

Type of Sample: [ ] COMPOSITE SAMPLE [checked] GRAB SAMPLE

Sample Date: 09/8/2016, 11/21/2014

Sample ID Numbers: RISB-44-20160908-2.5, RISB-44-0.5-20141121

Waste Profile #

**V. Physical Characteristics of Waste**

Characteristic Components		% by Weight (range)			
1. Excavated soil		100			
2.					
3.					
4.					
5.					
Color	Odor (describe)	Does Waste Contain Free Liquids?	% Solids	pH:	Flash Point
Brown	No	<input type="checkbox"/> YES or <input checked="" type="checkbox"/> NO	100	NA	NA °F

**Attach Laboratory Analytical Report (and/or Material Safety Data Sheet) Including Chain of Custody and Required Parameters Provided for this Profile**

Does this waste or generating process contain regulated concentrations of the following Pesticides and/or Herbicides: Chlordane, Endrin, Heptachlor (and its epoxides), Lindane, Methoxychlor, Toxaphene, 2,4-D, or 2,4,5-TP Silvex as defined in 40 CFR 261.33?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does this waste contain reactive sulfides (greater than 500 ppm) or reactive cyanide (greater than 250 ppm)[reference 40 CFR 261.23(a)(5)]?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does this waste contain regulated concentrations of Polychlorinated Biphenyls (PCBs) as defined in 40 CFR Part 761?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does this waste contain concentrations of listed hazardous wastes defined in 40 CFR 261.31, 261.32, 261.33, including RCRA F-Listed Solvents?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does this waste exhibit a Hazardous Characteristic as defined by Federal and/or State regulations?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does this waste contain regulated concentrations of 2,3,7,8-Tetrachlorodibenzodioxin (2,3,7,8-TCDD), or any other dioxin as defined in 40 CFR 261.31?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Is this a regulated Radioactive Waste as defined by Federal and/or State regulations?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Is this a regulated Medical or Infectious Waste as defined by Federal and/or State regulations?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Is this waste a reactive or heat generating waste?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does the waste contain sulfur or sulfur by-products?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Is this waste generated at a Federal Superfund Clean Up Site?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Is this waste from a TSD facility, TSD like facility or consolidator?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No

**VI. Certification**

I hereby certify that to the best of my knowledge and belief, the information contained herein is a true, complete and accurate description of the waste material being offered for disposal and all known or suspected hazards have been disclosed. All Analytical Results/Material Safety Data Sheets submitted are truthful and complete and are representative of the waste.

I further certify that by utilizing this profile, neither myself nor any other employee of the company will deliver for disposal or attempt to deliver for disposal any waste which is classified as toxic waste, hazardous waste or infectious waste, or any other waste material this facility is prohibited from accepting by law. I shall immediately give written notice of any change or condition pertaining to the waste not provided herein. Our company hereby agrees to fully indemnify this disposal facility against any damages resulting from this certification being inaccurate or untrue.

I further certify that the company has not altered the form or content of this profile sheet as provided by Republic Services Inc.

<u>STEPHEN CLOUGH, REMEDIATION DR.</u>	<u>NERK</u>
Authorized Representative Name And Title (Type or Print)	Company Name
<u>Steph Clough</u>	<u>1/31/17</u>
Authorized Representative Signature	Date



# NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

116

006907

If waste is asbestos waste, complete Sections I, II, III and IV  
If waste is NOT asbestos waste, complete Sections I, II and III

## I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number		b. Manifest Document Number		c. Page 1 of	
d. Generator's Name and Location: Nevada Environmental Services, L.P. dba 510 44th St XXVII Inc.			e. Generator's Mailing Address: 35 E Wacker Drive, Suite 1550 Chicago, IL 60601		
f. Phone: 702-960-4309			g. Phone:		
If owner of the generating facility differs from the generator, provide:					
h. Owner's Name:			i. Owner's Phone No.:		
j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No. Type		n. Total Quantity
3825 17 2371	9-26-18	nonhazardous nonregulated soil	1	DT	10
					4
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.					
p. Generator Authorized Agent Name (Print) Stephen Clough		q. Signature <i>Stephen Clough</i>		r. Date 2/28/17	

## II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: MP Environmental Services / Subhauler: DWF Trucking 3045 S. 51st Ave Phoenix, AZ 85043 Las Vegas, NV		
b. Phone: 602-278-6233		
c. Driver Name (Print) Mark Jones	d. Signature <i>M. Jones</i>	e. Date 2-28-2017

## III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

a. Disposal Facility and Site Address: Apex Regional Landfill 13550 N Hwy 93 Las Vegas		c. US EPA Number	d. Discrepancy Indication Space:
b. Please notify facility of shipments 24 hrs. in advance			
I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.			
e. Name of Authorized Agent (Print) Stephen Jones		f. Signature <i>Stephen Jones</i>	g. Date 2-28-17

## IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:		c. Responsible Agency Name and Address:	
b. Phone:		d. Phone:	
e. Special Handling Instructions and Additional Information:			
f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both % Friable % Non-Friable			
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.			
g. Operator's Name and Title (Print)		i. Date	
h. Signature		i. Date	
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both			



# NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

006903

If waste is asbestos waste, complete Sections I, II, III and IV  
 If waste is NOT asbestos waste, complete Sections I, II and III

38

## I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number		b. Manifest Document Number		c. Page 1 of	
d. Generator's Name and Location: Nevada Environmental Response Trust, LePetomane 510 4th St. XXVII, Inc.			e. Generator's Mailing Address: 35 E. Walker Drive Suite 1550 Chicago, IL 60601		
f. Phone: 702-960-4309			g. Phone:		
If owner of the generating facility differs from the generator, provide:					
h. Owner's Name:			i. Owner's Phone No.:		
j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No. Type		n. Total Quantity
3825 17 2371	9-26-18	nonhazardous nonregulated soil	1	DT	10
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.					
p. Generator Authorized Agent Name (Print) Stephen Clough		q. Signature <i>Stephen Clough</i>		r. Date 2/28/17	

## II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: MP Environmental Services 3045 S 51st Ave Phoenix, AZ 85043			b. Phone: 602-278-6233		
c. Driver Name (Print) MARC MC MAHAN			d. Signature <i>Marc Mc Mahan</i>		e. Date 2-28-17
a. Transporter's Name and Address: Abhauler; Cano Trading Las Vegas, NV					

## III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

a. Disposal Facility and Site Address: Apex Regional Landfill 13550 N Hwy 93 Las Vegas		b. Please notify facility of shipments 24 hrs. in advance	c. US EPA Number	d. Discrepancy Indication Space:	
I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.					
e. Name of Authorized Agent (Print) <i>Kevin D.</i>		f. Signature <i>Kevin D.</i>		g. Date 2-28-17	

## IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:		c. Responsible Agency Name and Address:			
b. Phone:		d. Phone:			
e. Special Handling Instructions and Additional Information:					
f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both % Friable % Non-Friable					
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.					
g. Operator's Name and Title (Print)		h. Signature		i. Date	
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both					



# NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

006975

If waste is asbestos waste, complete Sections I, II, III and IV  
 If waste is NOT asbestos waste, complete Sections I, II and III

10

## I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number		b. Manifest Document Number		c. Page 1 of		
d. Generator's Name and Location: Nevada Environmental Response Trust, LePetanaw, XXVII Inc. 510 4th St.			e. Generator's Mailing Address: 35 E Wacker Drive, Suite 1550 Chicago IL 60601			
f. Phone: 702-960-4309			g. Phone:			
If owner of the generating facility differs from the generator, provide:						
h. Owner's Name:			i. Owner's Phone No.:			
j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	Type	n. Total Quantity	o. Unit Wt/Vol
3825 17 2371	9-20-18	nonhazardous nonregulated soil	1	DT	10	4
					1955	7
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.						
p. Generator Authorized Agent Name (Print) Stephen Clagh		q. Signature <i>Stephen Clagh</i>		r. Date 2/28/17		

## II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: MP Environmental Services / Subhauer: Western Star 2045 S. 51st Ave Phoenix AZ 85043 Las Vegas NV		
b. Phone: 602-278-6233		
c. Driver Name (Print) DRAGAN P.	d. Signature <i>[Signature]</i>	e. Date 02-28-2017

## III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

a. Disposal Facility and Site Address: Apex Regional Landfill 13550 N Hwy 93 Las Vegas	c. US EPA Number	d. Discrepancy Indication Space:
b. Please notify facility of shipments 24 hrs. in advance		
I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.		
e. Name of Authorized Agent (Print) Estevan D.	f. Signature <i>[Signature]</i>	g. Date 2-28-17

## IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:	c. Responsible Agency Name and Address:
b. Phone:	d. Phone:
e. Special Handling Instructions and Additional Information:	
f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both % Friable % Non-Friable	
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.	
g. Operator's Name and Title (Print)	i. Date
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both	



# NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

006977

If waste is asbestos waste, complete Sections I, II, III and IV  
If waste is NOT asbestos waste, complete Sections I, II and III

### I. GENERATOR (Generator completes Ia-f)

a. Generator's US EPA ID Number		b. Manifest Document Number		c. Page 1 of	
d. Generator's Name and Location: Nevada Environmental Response Trust, LE Petroleum XVII, Inc. 510 4th Street I. Phone: 702-790-4809			e. Generator's Mailing Address: 35 East Wacker Drive, Suite 1550 Chicago, IL 60601 g. Phone:		
If owner of the generating facility differs from the generator, provide:					
h. Owner's Name:			i. Owner's Phone No.:		
j. Waste Profile # 3825 17 2371		k. Exp. Date 9-26-2018	l. Waste Shipping Name and Description Non hazardous non regulated soil		m. Containers No. Type 1 DT
				n. Total Quantity 10	o. Unit Y
				18.48T	
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.					
p. Generator Authorized Agent Name (Print) Steve Clough, Remediation Director			q. Signature <i>Steve Clough</i>		r. Date 2/28/17

### II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: MP Environmental - 3045 S 51st St / Subhauled: Cano Trucking Phoenix, AZ 85043 Las Vegas, NV		
b. Phone: 602-278-1023		
c. Driver Name (Print) MARC MC MILAN	d. Signature <i>M</i>	e. Date

### III. DESTINATION (Generator complete IIIa-c and Destination Site completes III-d-g)

a. Disposal Facility and Site Address: A rex Regional Landfill 13500 N Highway 93, Las Vegas		c. US EPA Number	d. Discrepancy Indication Space:
b. Please notify facility of shipments 24 hrs. in advance			
I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.			
e. Name of Authorized Agent (Print) Sue Collins		f. Signature <i>Sue Collins</i>	g. Date 2-28-17

### IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:		c. Responsible Agency Name and Address:	
b. Phone:		d. Phone:	
e. Special Handling Instructions and Additional Information:			
<input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both   % Friable   % Non-Friable			
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.			
g. Operator's Name and Title (Print)		h. Signature	i. Date
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both			



# NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

006906

If waste is asbestos waste, complete Sections I, II, III and IV  
If waste is **NOT** asbestos waste, complete Sections I, II and III

## I. GENERATOR (Generator completes I a-r)

a. Generator's US EPA ID Number		b. Manifest Document Number		c. Page 1 of		
d. Generator's Name and Location: Nevada Environmental Response Trust 510 4th St. I. Phone: 702-910-4309			e. Generator's Mailing Address: 35 E Wacker Drive, Suite 1550 Chicago, IL 60601 g. Phone:			
If owner of the generating facility differs from the generator, provide:						
h. Owner's Name:			i. Owner's Phone No.:			
j. Waste Profile #		k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No. Type	n. Total Quantity	o. Unit W/Vol
3825 17 2371		9-20-2018	non hazardous unregulated soil	1 DT	10	Y
					21.24T	
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.						
p. Generator Authorized Agent Name (Print) STEPHEN CLOUGH			q. Signature <i>Stephen Clough</i>	r. Date 2/28/17		

## II. TRANSPORTER (Generator completes II a-b and Transporter completes II c-e)

a. Transporter's Name and Address: MP Environmental Services 3801 Phoenix Ave Phoenix AZ 85043			Subcontractor: DWF Trading Las Vegas NV		
b. Phone: 602 278 6273					
c. Driver Name (Print) martha Jones		d. Signature <i>M. Jones</i>	e. Date		

## III. DESTINATION (Generator complete III a-c and Destination Site completes III d-g)

a. Disposal Facility and Site Address: Aper Regional Landfill 13550 N Hwy 93 Las Vegas		c. US EPA Number	d. Discrepancy Indication Space:
b. Please notify facility of shipments 24 hrs. in advance			
I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.			
e. Name of Authorized Agent (Print) Sue Collins		f. Signature <i>Sue Collins</i>	g. Date 2-28-17

## IV. ASBESTOS (Generator completes IV a-f and Operator complete IV g-i)

a. Operator's Name and Address:		c. Responsible Agency Name and Address:	
b. Phone:		d. Phone:	
e. Special Handling Instructions and Additional Information:			
<input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both   % Friable   % Non-Friable			
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.			
g. Operator's Name and Title (Print)		h. Signature	i. Date
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both			





# NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

006978

If waste is asbestos waste, complete Sections I, II, III and IV  
If waste is NOT asbestos waste, complete Sections I, II and III

968749

## I. GENERATOR (Generator completes Ia-f)

a. Generator's US EPA ID Number		b. Manifest Document Number		c. Page 1 of		
d. Generator's Name and Location: Nevada Environmental Response Trst, Lepetomans 5010 Linn Street XKVII, Inc. Phone: 702-960-4309			e. Generator's Mailing Address: 35 E. Wacker Drive, Suite 1550 Chicago, IL 60601 g. Phone:			
f. Owner of the generating facility differs from the generator, provide:						
h. Owner's Name:			i. Owner's Phone No.:			
j. Waste Profile #		k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	n. Total Quantity	o. Unit Wt/Vol
3825 17 2371		9-26-2018	non hazardous non regulated soil	1	10	Y
					19.03T	
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.						
p. Generator Authorized Agent Name (Print)		q. Signature		r. Date		
Steve Clough, remediation director		[Signature]		2/20/17		

## II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: ME Environmental 2045 S. 51st Ave. Phoenix, AZ 85018 Phone: 602-278-6229			Subheader: Western Star Trucking Las Vegas, NV		
c. Driver Name (Print)		d. Signature		e. Date	
DRAGAN P.		[Signature]		02-28-2017	

## III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

a. Disposal Facility and Site Address: Apex Regional Landfill 13550 N Hwy 93, Las Vegas		c. US EPA Number	d. Discrepancy Indication Space:
b. Please notify facility of shipments 24 hrs. in advance			
I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.			
e. Name of Authorized Agent (Print)		f. Signature	
Sue Collins		[Signature]	
		g. Date	
		2-28-17	

## IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:		c. Responsible Agency Name and Address:	
b. Phone:		d. Phone:	
e. Special Handling Instructions and Additional Information:			
f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both % Friable % Non-Friable			
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.			
g. Operator's Name and Title (Print)		h. Signature	
		[Signature]	
		i. Date	
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both			

Environmental Tech 702-644-4210  
Las Vegas, NV 89165

REPRINT

81

61088

Jamie W.

333359 - MP ENVIRONMENTAL SERVICES  
3400 MANOR ST  
BAKERSFIELD, CA 93308

2/28/17 11:46 am

2/28/17 12:20 pm

99909P

3825 17 2371 38

Contract:3825 17 2371

Scale In GROSS WEIGHT	62,520	NET TONS	18.48
Manual Out TARE WEIGHT	25,560	NET WEIGHT	36,960

INBOUND  
INVOICE

0.00	YD	Tracking QTY
18.48	tn	SW CONTAMINATED SOIL

Environmental Tech 702-644-4210  
Las Vegas, NV 89165

REPRINT

81

61089

Jamie W.

333359 - MP ENVIRONMENTAL SERVICES  
3400 MANOR ST  
BAKERSFIELD, CA 93308

2/28/17 11:51 am  
97331P

2/28/17 12:20 pm

Contract:3825 17 2371

3825 17 2371 116

Scale In GROSS WEIGHT	67,500	NET TONS	21.24
Manual Out TARE WEIGHT	25,020	NET WEIGHT	42,480

INBOUND  
INVOICE

0.00	YD	Tracking QTY
21.24	tn	SW CONTAMINATED SOIL

Environmental Tech 702-644-4210  
Las Vegas, NV 89165

REPRINT

81

61092

Jamie W.

333359 - MP ENVIRONMENTAL SERVICES  
3400 MANOR ST  
BAKERSFIELD, CA 93308

2/28/17 11:54 am 2/28/17 12:24 pm

96874P

3825 17 2371 10

Contract:3825 17 2371

Scale In	GROSS WEIGHT	69,800	NET TONS	19.03
Manual Out	TARE WEIGHT	31,740	NET WEIGHT	38,060

INBOUND  
INVOICE

0.00	YD	Tracking	QTY
19.03	tn	SW CONTAMINATED SOIL	

CHANGE:

Environmental Tech 702-644-4210  
Las Vegas, NV 89165

REPRINT

81

61097

IN - Estevan D. OUT - Michelle B.

333359 - MP ENVIRONMENTAL SERVICES  
3400 MANOR ST  
BAKERSFIELD, CA 93308

2/28/17 3:15 pm 2/28/17 3:38 pm

97331P

Contract:3825 17 2371

116

006907

Scale In GROSS WEIGHT	63,460	NET TONS	19.25
Scale Out TARE WEIGHT	24,960	NET WEIGHT	38,500

INBOUND  
INVOICE

0.00	YD	Tracking QTY
19.25	tn	SW CONTAMINATED SOIL

CHANGE:

Environmental Tech 702-644-4210  
Las Vegas, NV 89165

REPRINT

81

61098

IN - Estevan D. OUT - Michelle B.

333359 - MP ENVIRONMENTAL SERVICES  
3400 MANOR ST  
BAKERSFIELD, CA 93308

2/28/17 3:14 pm 2/28/17 3:39 pm

99909P

Contract:3825 17 2371

38

006903

Scale In GROSS WEIGHT	62,400	NET TONS	18.52
Scale Out TARE WEIGHT	25,360	NET WEIGHT	37,040

INBOUND  
INVOICE

0.00	YD	Tracking QTY
18.52	tn	SW CONTAMINATED SOIL

CHANGE:  
CHECK :

Environmental Tech 702-644-4210  
Las Vegas, NV 89165

REPRINT

81

61099

Estevan D.

333359 - MP ENVIRONMENTAL SERVICES  
3400 MANOR ST  
BAKERSFIELD, CA 93308

2/28/17 3:17 pm 2/28/17 3:40 pm

96874P

Contract:3825 17 2371

10

006975

Scale In GROSS WEIGHT	70,760	NET TONS	19.55
Scale Out TARE WEIGHT	31,660	NET WEIGHT	39,100

INBOUND  
INVOICE

0.00	YD	Tracking QTY
19.55	tn	SW CONTAMINATED SOIL

CHANGE:  
CHECK :

Work Plan for Soil Removal Action – Parcel C  
Nevada Environmental Response Trust Site  
Henderson, Nevada

**ATTACHMENT C**  
**GEOTECHNICAL REPORT**





## ALL THE ENGINEERING YOU NEED EVERYWHERE YOU NEED IT

When you choose Team Wright, you get the convenience of one source for experienced licensed professionals in multiple engineering disciplines – and we're licensed in every state.

We're proud to have been one of only six engineering firms in the entire country to be ranked both as one of the nation's best engineering firms to work for and as one of the nation's fastest growing engineering firms.

Wright Engineers was the first **QAA Special Inspection** firm in Clark County to be accredited by A2LA in accordance with the recognized International Standard ISO/IEC 17020.

To learn more, visit [wrightengineers.com](http://wrightengineers.com)

Geotechnical Engineering  
Structural Engineering  
Quality Inspections  
QAA - Special Inspections  
Materials Testing  
Concrete Inspections  
Masonry Inspections  
Wood Inspections  
Structural Steel Inspections

## TESTING SUMMARY REPORT

**NERT BMI**

**510 4<sup>th</sup> Street  
Henderson, Nevada**

**March 29, 2017**

**Project No. 170657**

**Prepared exclusively for:**

**Ramboll Environ  
2200 Powell Street, Suite 700  
Emeryville, CA 94608**

**perfection is our goal  
(excellence will be tolerated)**

TABLE OF CONTENTS

<b>Content</b>	<b>Page</b>
<b>Earthwork Inspections Provided</b>	1
<b>Laboratory Testing</b>	2
<b>Compliance Statement</b>	2
<b>Limitations</b>	2
<b>Site Plan (Provided by Client)</b>	Figure 3
<b>Density Testing</b>	Appendix A
<b>Laboratory Test Data</b>	Appendix B

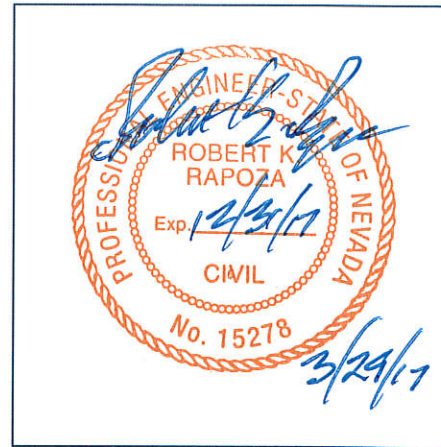
**TESTING SUMMARY REPORT**

Project No.: 170657

Date: March 29, 2017

Client: Ramboll Environ  
 2200 Powell Street, Suite 700  
 Emeryville, CA 94608  
 Attention: **Devon Rowe**

Project: NERT BMI  
 Henderson, Nevada



ENGINEER'S SEAL

Dear Devon:

Thank you for your trust in Wright Engineers. It's our pleasure to provide you with geotechnical engineering services for this project. As requested, Wright Engineers (Wright) has completed our Testing Summary Report for this project in general accordance with our proposal. This report will present our findings, and our conclusions.

**EARTHWORK INSPECTIONS PROVIDED**

Field moisture and density testing was provided by Wright Engineers utilizing ASTM D6938 (see Appendix A) for in-place structural fill. Locations and elevations were estimated in the field utilizing staking provided by the client or contractor and stepping methods from known features. Based on our observations and test results, the results are considered representative of the earthwork operations.

Item	Requirement
Compaction	92% of Laboratory Maximum (ASTM D-1557)
Moisture content	Within 2% of the optimum moisture content (ASTM D-1557)
Field density testing	Performed at approximately one foot intervals (ASTM D-6938)
Basis for determining Proctors	Visual classification of soil in the field was utilized and compared to laboratory test data
Materials used as fill	On-site soils

- geotechnical engineering
- structural engineering
- quality inspections
- QAA - special inspections
- material testing
- concrete inspections
- masonry inspections
- wood inspections
- structural steel inspections

- Las Vegas
- Irvine
- Phoenix
- Salt Lake
- Tucson

5275 Arville Street  
 Suite 108  
 Las Vegas, NV 89118

702.933.7000  
 800.933.7611

wrightengineers.com



### LABORATORY TESTING

Laboratory testing was performed on representative samples of material. The results of these tests are included in Appendix B.

### COMPLIANCE STATEMENT

Based on our testing, the in-place structural fill is in substantial compliance with the referenced recommendations for compaction and moisture content.

### LIMITATIONS

This report was prepared based upon the data obtained from our site observations, laboratory testing, engineering analysis and any other information discussed. The testing provided is an indication of subsurface conditions at the test location only. Variations in subsurface conditions can occur in relatively short distances. This report does not reflect any variations which may occur across the site or away from the test locations. If variations in the subsurface conditions anticipated become evident, Wright should be notified immediately so that further evaluation and supplemental recommendations can be provided. The scope of services for this project does not include either specifically or by implication any biological or environmental assessment of the site or identification or prevention of pollutants or hazardous materials or conditions. Other studies should be completed if concerns over the potential of such contamination or pollution exist.

Wright should also be retained to provide testing and observation services during continued construction to help determine that the design requirements are fulfilled. This report has been prepared for the exclusive use of our client for specific application to the referenced project only and has been prepared in accordance with the generally accepted standard of practice for this area. No warranties expressed or implied, are made. The conclusions and recommendations contained in this report should not be considered valid in the event that any changes in the nature, design or location of the project as outlined in this report are planned, unless those changes are reviewed and the conclusions of this report modified and verified in writing by Wright Engineers.

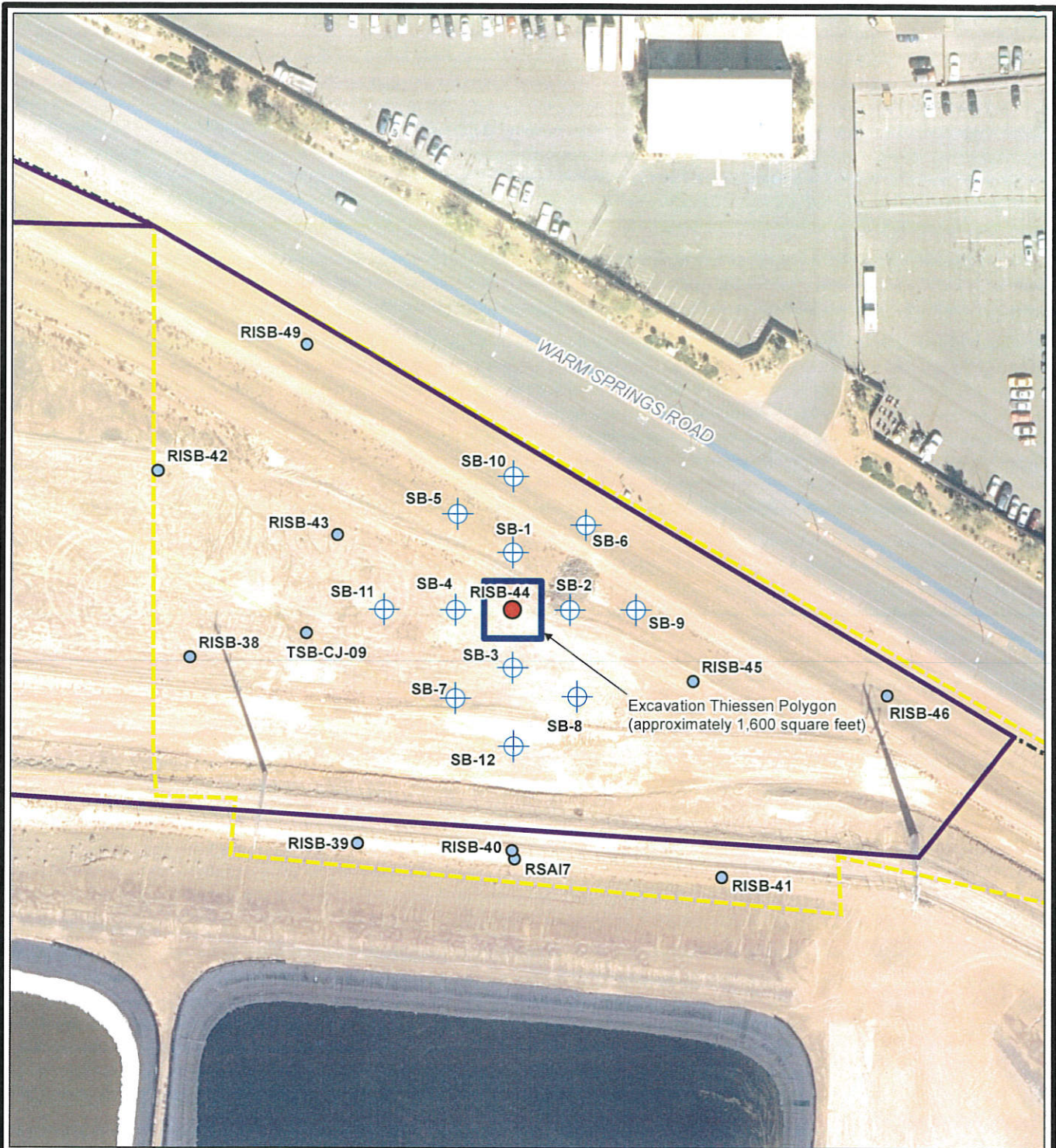
If you have any questions or concerns, please contact me personally. I will be very happy to discuss and resolve them with you

Best regards,






WRIGHT ENGINEERS

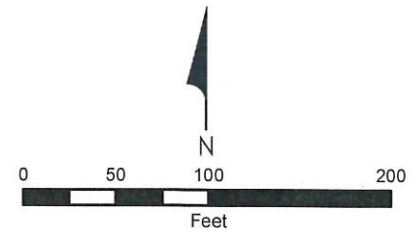
A handwritten signature in blue ink, appearing to read "Bob Rapoza".

Bob Rapoza, PE  
Senior Engineer



**Legend**

-  Soil Boring Location (Ramboll Environ, 2016)
-  Soil Boring With Exceedance of Site-Specific Soil Remediation Goal (SRG)
-  Soil Boring
-  Parcel Boundary
-  Area 5 Soil Investigation



H:\LePetomane\NERT\AI\_Evaluation\GIS\Fig 3\_Arsenic-Soil Removal.mxd



**Parcel C Soil Removal Area**  
 Nevada Environmental Response Trust (NERT) Site  
 Henderson, Nevada

**FIGURE**  
**3**

DRAFTED BY: RS

DATE: 3/15/2017

21-41400A



**APPENDIX A**



5275 Arville Street, Suite 108, Las Vegas, NV 89118 (702) 933-7000

# DENSITY TESTS

**PROJECT:** NERT BMI **PROJECT NO:** 170657  
**LOCATION:** 510 4th Street, Henderson, NV **PERMIT NO:** N/A  
**CLIENT:** Ramboll Environ

Type	Sample Description	Req. Comp %	Lab Number	Max Dry Density	Optimum Moist %
A	Brown Poorly Graded Gravel with Sand	92	2810	127.9	8.6

Test No	Date	Location	Elev	Fill Depth	Dry Density (pcf)	Soil Moist. (%)	Relative Comp. (%)	Soil Type or No.	Density Count	Moist. Count
1	3/24/17	15 feet SW of NE Corner		1.0	120.9	6.7	95	A		
2	3/24/17	10 feet South of North Center		1.0	122.6	5.5	96	A		
3	3/24/17	11 feet NW of SE Corner		1.0	123.3	5.9	96	A		
4	3/24/17	10 feet South of NE Corner		2.0	120.9	7.0	95	A		
5	3/24/17	7 feet South of NW Corner		2.0	126.2	5.9	99	A		
6	3/24/17	18 feet SW of NE Corner		2.0	123.8	7.2	97	A		
7	3/24/17	Center		2.0	120.6	8.0	94	A		
8	3/24/17	8 feet NW of Center		2.0	121.5	6.8	95	A		
9	3/24/17	9 feet NE of Center		2.0	125.8	6.6	98	A		
10	3/29/17	SE Corner		1.0	121.1	9.0	95	A		
11	3/29/17	SW Corner		1.0	119.7	8.8	94	A		
12	3/29/17	15 feet NE of NW Corner		2.0	121.6	8.8	95	A		
13	3/29/17	7 feet SW of NE Corner		2.0	120.8	9.3	94	A		
14	3/29/17	5 feet West of East End Center		2.0	120.1	8.2	94	A		

**APPENDIX B**





### LABORATORY TEST RESULTS

None of the test results contained herein are design recommendations. Even though a single test may be performed on a single lot or location, it should not be inferred that a particular lot complies with any code or design recommendation nor does it necessarily indicate that a particular lot will be classified based on that test alone. Many other factors may apply. See the text of this report for interpretation of these test results and related recommendations.

#### **Proctors (Maximum Density / Optimum Moisture Content):**

The maximum density and optimum moisture content were determined in accordance with ASTM D1557

Lab Number	Soil Type	Source	Soil Description	Max Dry Density (pcf)	Opt Moisture Content (%)
2810	On-Site	On site stockpile	Poorly graded gravel with sand	127.9	8.6

5275 Arville Street, Suite 108, Las Vegas, NV 89118 (702) 933-7000

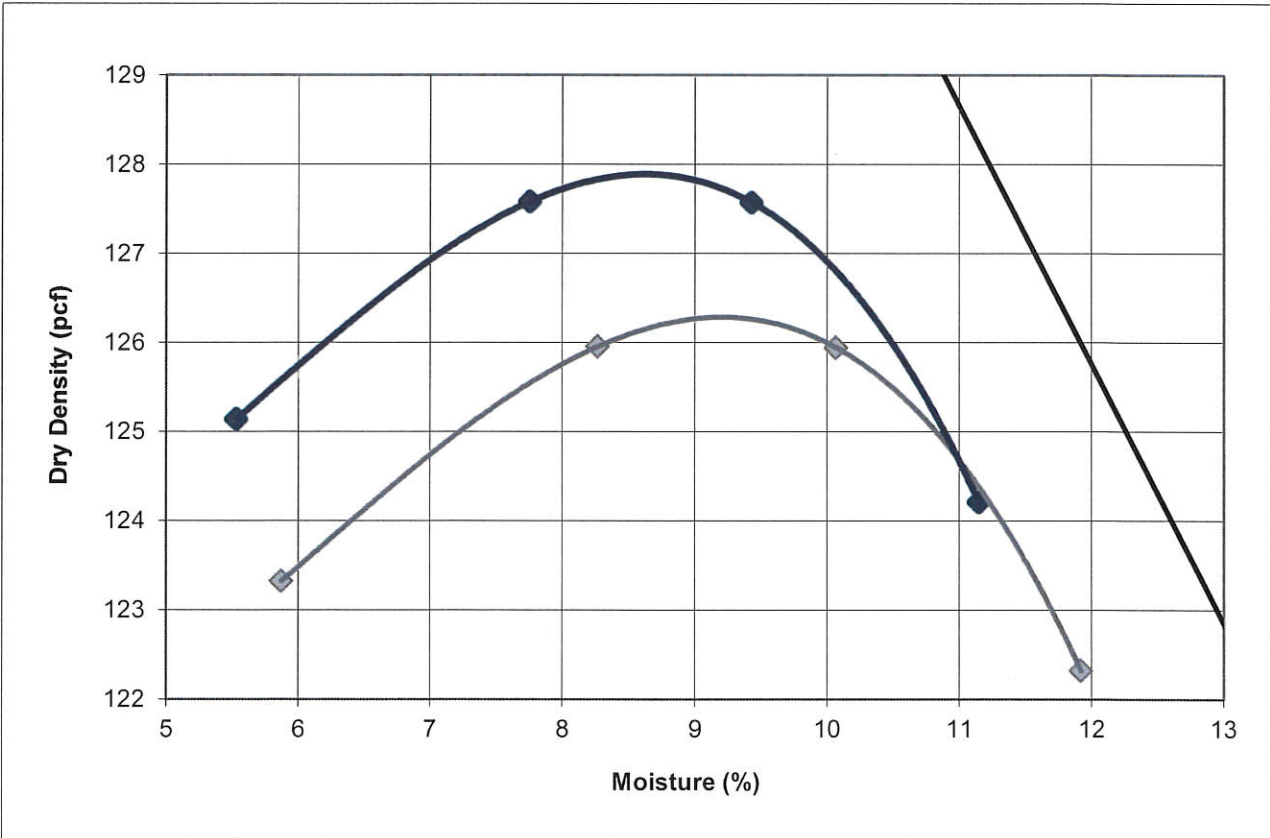
**PROJECT:** Ramboli Environ  
**CLIENT:** BMI Complex  
**MATERIAL:** Native  
**SAMPLE SOURCE:** NE Corner

**PROJECT NO:** 170657  
**LABORATORY NO:** 2810  
**SAMPLE DATE:** 3/24/2017  
**SAMPLED BY:** B. Robinett

**LABORATORY COMPACTION CHARACTERISTICS OF SOILS USING  
MODIFIED PROCTOR (56,000ft-lb-ft/cu.ft) (ASTMD1557C)**

**Description:** Brown Native  
Poorly Graded GRAVEL with Sand

**Maximum dry density (pcf):** 127.9  
**Optimum moisture (%):** 8.6%



**NOTES:**

- The zero air void curve represents a specific gravity of: 2.65
- This is a summarized report of the referenced procedures and does not include all reporting requirements. Additional data can be provided at clients request.

Hammer Type: Mechanical

Uncorrected Values: (not for use in field)	English (pcf)	Metric (kg/ cu.m.)
Maximum dry density:	126.3	2023
Optimum moisture (%):	9.2	9.2

Justin Stratton, PE