Gamma Spectroscopy Results

PAI 713 Rev 10 Sample Duplicate Results

Lab Name: ALS Laboratory Group -- FC

Work Order Number: 0906096

Client Name: Environmental Restoration Group, Inc.

ClientProject ID:

Field ID: SID-28

Lab ID: 0906096-17DUP

Library: RA226.LIB

Sample Matrix: SOIL

Prep SOP: PAI 739 Rev 9 Date Collected: 05-Jun-09

Date Prepared: 20-Jun-09

Date Analyzed: 13-Jul-09

Prep Batch: GS090620-2

QCBatchID: GS090620-2-1 Run ID: GS090620-2A

Count Time: 45 minutes Report Basis: Dry Weight Final Aliquot: 175 g

Prep Basis: Dry Weight Moisture(%): NA Result Units: pCi/g

File Name: 090949d04A

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
13982-63-3	Ra-226	16.4 +/- 2.0	0.6	0.2	M3,G

Comments:

Qualifiers/Flags:

- U Result is less than the sample specific MDC or less than the associated TPU.
- Y1 Chemical Yield is in control at 100-110%. Quantitative yield is assumed.
- LT Result is less than Requested MDC, greater than sample specific MDC.
- M The requested MDC was not met.
- M3 The requested MDC was not met, but thereported activity is greater than the reported MDC
- W DER is greater than Warning Limit of 1.42
- D DER is greater than Control Limit of 2.13
- TPU Total Propagated Uncertainty (see PAI SOP 743)
- MDC Minimum Detectable Concentration (see PAI SOP 709)
- **BDL** Below Detection Limit

Data Package ID: GSS0906096-1

- SQ Spectral quality prevents accurate quantitation
- SI Nuclide identification and/or quantitation is tentative.
- R Nuclide has exceeded 8 halflives.
- G Sample density differs by more than 15% of LCS density.

Gamma Spectroscopy Results

PAI 713 Rev 10 Sample Duplicate Results

Lab Name: ALS Laboratory Group -- FC

Work Order Number: 0906096

Client Name: Environmental Restoration Group, Inc.

ClientProject ID:

Field ID: SID-28

Lab ID: 0906096-17DUP

Library: FANP.LIB

Sample Matrix: SOIL

Prep SOP: PAI 739 Rev 9 Date Collected: 05-Jun-09

Date Prepared: 20-Jun-09 Date Analyzed: 13-Jul-09

Prep Batch: GS090620-2

QCBatchID: GS090620-2-1 Run ID: GS090620-2A

Count Time: 45 minutes Report Basis: Dry Weight Final Aliquot: 175 g

Prep Basis: Dry Weight Moisture(%): NA Result Units: pCi/g File Name: 090949d04

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14331-83-0	Ac-228	0.92 +/- 0.70	1.08		U,G
13966-00-2	K-40	15.0 +/- 3.5	3.1		G
15100-28-4	Pa-234m	17 +/- 26	44		U,G
15065-10-8	Th-234	5.9 +/- 2.4	3.4		G,TI
14913-50-9	TI-208	0.27 +/- 0.18	0.27		U,G

Comments:

Qualifiers/Flags:

- U Result is less than the sample specific MDC or less than the associated TPU.
- Y1 Chemical Yield is in control at 100-110%. Quantitative yield is assumed.
- Y2 Chemical Yield outside default limits.
- LT Result is less than Requested MDC, greater than sample specific MDC.
- M The requested MDC was not met.
- M3 The requested MDC was not met, but thereported activity is greater than the reported MDC
- W DER is greater than Warning Limit of 1.42
- D DER is greater than Control Limit of 2.13

- TPU Total Propagated Uncertainty (see PAI SOP 743)
- MDC Minimum Detectable Concentration (see PAI SOP 709)
- BDL Below Detection Limit

Data Package ID: GSS0906096-1

Date Printed: Wednesday, July 15, 2009

SQ - Spectral quality prevents accurate quantitation

SI - Nuclide identification and/or quantitation is tentative

TI - Nuclide identification is tentative.

R - Nuclide has exceeded 8 halflives.

G - Sample density differs by more than 15% of LCS density

APPENDIX B

Field Forms

LANDAUER®

URI INC ATTN SALVADOR 888 CROWNPOINT CROWNPOINT NM 87313

Landauer, Inc. 2 Science Road Telephone: (708) 755-7000 Glenwood, Illinois 60425-1586 Facsimile: (708) 755-7016

Customer Service: (800) 323-8830

Customer Service Technical: (800) 438-3241

www.landauerinc.com



ADIATION DOSIMETRY REPORT

ACCOUNT NO.	SERIES	ANALYTICAL WORK ORDER	REPORT DATE	DOSIMETER RECEIVED	REPORT TIME IN WORK DAYS	PAGE NO.
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URI, INC.

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Chain of Custody

URI, Inc. Kingsville Dome Project 641 E. FM 1118 Kingsville, TX 78363 (361) 595-5731 Fax: (361) 592-0830 Send Report To:

URI, Inc. Kingsville Dome Project 641 E. FM 1118 Kingsville, TX 78363

PROJECT ID. CHURCHAOCK SURVEY BIOASSAYS

Labortory analysis conducted by: Jordan Laboratories 842 Gantwell Drive Corpus Christl, TX 778403 (351) 884-037f

Site Area			Sampled By: (Print)						
Date	Time	Sample ID	Location ID	Type'	Comp.	Grab	Containers ²	Project Site Lab Measure/Pretreatment	Requested Analysis
5/22/09		MAT SIMONDS	5951	URINE		X	Specimen Cup		U
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Analytical Report 334479

for

URI, Inc.

RECEIVED

JUL 0 6 2005

Project Manager: Joshua Holland

Churchrock Survey Bioassays

27-JUN-09



842 Cantwell Lane Corpus Christi, Texas 78408

Texas certification numbers:
Houston, TX T104704215-08B-TX - Odessa/Midland, TX T104704400-08-TX
Corpus Christi, TX T104704370-08-TX - Dallas, TX T104704295-08-TX

Florida certification numbers:
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675
Miramar, FL E86349
Norcross(Atlanta), GA E87429

South Carolina certification numbers: Norcross(Atlanta), GA 98015

North Carolina certification numbers: Norcross(Atlanta), GA 483

Houston - Dallas - San Antonio - Tampa - Miami - Latin America Midland - Corpus Christi - Atlanta



27-JUN-09

Project Manager: Joshua Holland

URI, Inc.

641 E. FM 1118 Kingsville, TX 78363

Reference: XENCO Report No: 334479

Churchrock Survey Bioassays Project Address: Churchrock

Joshua Holland:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 334479. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 334479 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

James Mathis

James Mathi

Corpus Christi Lab Director

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

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CASE NARRATIVE



Client Name: URI, Inc.

Project Name: Churchrock Survey Bioassays

Project ID:

Report Date: 27-JUN-09

Work Order Number: 334479

Date Received: 06/03/2009

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-763752 Uranium by ASTM D2907

None

Batch: LBA-763753 Uranium by ASTM D2907

ASTM D2907

Batch 763753, Uranium RPD was outside laboratory control limits.

Samples affected are: 334479-004, -005, -006

ASTM D2907

Batch 763753, Uranium recovered below QC limits in the Blank Spike Duplicate.

Samples affected are: 334479-004, -005, -006.

Batch: LBA-763754 Specific Gravity by ASTM 1429A

None



Certificate of Analysis Summary 334479

URI, Inc., Kingsville, TX

Project Id: ---

Contact: Joshua Holland

Project Location: Churchrock

Project Name: Churchrock Survey Bioassays

Date Received in Lab: Wed Jun-03-09 01:00 pm

Report Date: 27-JUN-09

Project Manager: James Mathis

					Project Manager:	James Mathis		
	Lab Id:	334479-001	334479-002	334479-003	334479-004	334479-005	334479-006	
Analysis Requested	Field Id:	Mat Simond 5951	Gary Laego 9843	Jason Schierman 2856	Kevin Tsosie 3125	Tyler Alecksen 3818	Neil Wrobel 9459	
Anutysis Kequesteu	Depth:				,			
	Matrix:	WATER	WATER	WATER	WATER	WATER	WATER	
	Sampled:	May-22-09 00:00	May-22-09 00:00	May-22-09 00:00	May-22-09 00:00	May-28-09 00:00	May-28-09 00:00	
Specific Gravity by ASTM 1429A	Extracted:							
	Analyzed:	Jun-05-09 09:00	Jun-05-09 09:00	Jun-05-09 09:00	Jun-05-09 09:00	Jun-05-09 09:00	Jun-05-09 09:00	
	Units/RL:							
Specific gravity		1.016 0.0010	1.019 0.0010	1.021 0.0010	1.019 0.0010	1.018 0.0010	1.024 0.0010	
Uranium by ASTM D2907	Extracted:							
•	Analyzed:	Jun-05-09 12:45	Jun-05-09 12:45	Jun-05-09 12:45	Jun-05-09 13:00	Jun-05-09 13:00	Jun-05-09 13:00	
	Units/RL:	ug/L RL	ug/L RL	ug/L RL	ug/L RL	ug/L RL	ug/L RL	
Uranium		<1.000 1.000	<1.000 1.000	<1.000 1.000	1 1.000	<1.000 1.000	1 1.000	

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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James Mathis Laboratory Director



Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the MQL and above the SQL.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte.

 The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

* Outside XENCO's scope of NELAC Accreditation.

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BS / BSD Recoveries

Project Name: Churchrock Survey Bioassays

Work Order #: 334479

Analyst: JAM

Date Prepared: 06/05/2009

Project ID: ---

Date Analyzed: 06/05/2009

Lab Batch ID: 763752

Sample: 763752-1-BKS

Batch #: 1

Matrix: Water

Units: ug/L	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY											
Uranium by ASTM D2907	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag	
Analytes		[B]	[C]	[10]	[E]	Result [F]	[G]					
Uranium	<1.000	100	100	100	100	100	100	0	70-125	25		

Analyst: JAM

Date Prepared: 06/05/2009

Date Analyzed: 06/05/2009

Lab Batch ID: 763753

Sample: 763753-1-BKS

Batch #: 1

Matrix: Water

Units: ug/L	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
Uranium by ASTM D2907	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		[B]	[C]	[D]	[E]	Result [F]	[G]				
Uranium	<1.000	100	100	100	100	<1	0	NC	70-125	25	LF

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|Blank Spike Recovery [D] = 100*(C)/[B]Blank Spike Duplicate Recovery [G] = 100*(F)/[E]All results are based on MDL and Validated for QC Purposes



Form 3 - MS Recoveries

Project Name: Churchrock Survey Bioassays

Work Order #: 334479

Lab Batch #: 763752

Date Analyzed: 06/05/2009 **QC- Sample ID:** 334479-001 S

Project ID: ---

Date Prepared: 06/05/2009

Analyst: JAM

Batch #:

1

Matrix: Water

Reporting Units: ug/L	MATRIX / MATRIX SPIKE RECOVERY STUDY						
Uranium by ASTM D2907 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag	
Uranium	<1	20	20	100	70-125		

Matrix Spike Percent Recovery [D] = 100*(C-A)/B Relative Percent Difference [E] = 200*(C-A)/(C+B) All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit



Sample Duplicate Recovery

Project Name: Churchrock Survey Bioassays

Work Order #: 334479

Lab Batch #: 763752

Project ID: --

Date Analyzed: 06/05/2009

Date Prepared: 06/05/2009

Analyst: JAM

QC- Sample ID: 333965-038 D

Batch #:

Matrix: Water

Reporting Units: ug/L	SAMPLE / SAMPLE DUPLICATE RECOVERY						
Uranium by ASTM D2907	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag		
Analyte		(~)			1		
Uranium	<1.000	<1.000	NC	25			

334479

URI, Inc. Kingsville Dome Project 641 E. FM 1118 Kingsville, TX 78363 (361) 595-5731 Send Report To:

URI, Inc.
Kingsville Dome Project
641 E. FM 1118

Chain of Custody
PROJECT ID. CHURCHAOCK SURVEY
BIOASSAYS

Labortory analysis conducted by: Jordan Laboratories 842 Cantwell Drive Corpus Christi, TX 778403 (361) 884-0371

Fax: (361) 592-0830 Kingsville, TX 78363
Site Area | Sampled By: (Prin

Site Area			Sampled By: (Print)							
Date	Time	Sample ID	Location ID	Type'	Comp.	Grab	Containers ²	Project Site Lab Measure/Pretreatment	Requested Analysis	
5/2409		MAT SIMONDS	5951	URINE		K	Specimen Cup		Ú	
5/22/09		GARY LARGO	9843	URIN e		×	Specialis		IJ	
7/22/09		Jasen Schier MAN		VRINE		X	Speciance Cup		Ú	
5/22/09		Kevin Tsosie	3125	CKING		X.	Specimon		U	
5/28/09		TYLOV ALECKSON	3818	URIV		X	Steamor		U	
5/28/69		Neil Wrobel	9459	URINE		X	Speimou		U	
V 452 (W-1 8-2)	V-1									
TAIR, Water, Sci. United Vegitation viz., 2 Plussic, Glass, pag or jar etc.; 3 Date and time of any filtration, acidification, measured parameters (pH, Ec, Dis. Dx.) Special Instructions:										
Relogsed By:(signalure)		Received By:(signature)					Date 05/29/09	Time 11:35 AM		
			Received By:(signature)	ire)				Date	Time	
Released By:(signlure) Received ByJordan Laboratories:(signlure)		signature)		6-3-09	Time 1300 28,48				



Sample Receipt Checklist / Sample Non-Conformance URS-Churchrock Client: Date/Time: Work Order #: Initials: Sample Receipt Checklist 1. Samples received on ice? Type: Blue/ Water? N/A Yes (No) Temperature? 2. Shipping container/cooler in good condition? Yes No None 3. Custody Seals intact on shipping container/cooler? No NIA Yes 4. Custody Seals intact on sample bottles? NIA Yes No Yes 5. Chain of custody present? No 6. Sample Instructions complete on Chain of Custody? Yes No 7. Chain of Custody signed when relinquished and (Yes) No received? 8. Chain of custody agrees with sample label(s) (Yes No 9. Container labels legible and intact? Ves No 10. Sample Matrix and properties agrees with chain of Yes No custody? 11. Samples in proper container/bottle? Yes No 12. Samples properly preserved? Keg No 13. Sample bottles intact? Ves? No 14. Preservations documented on Chain of Custody? Yes (No) 15. Any missing/extra samples? Yes (No) 16. Sufficient sample amount for indicated test? Yes No 17. All samples received within sufficient hold time? Yes No 18. Subcontract of Sample (s) Yes No N/A 19. VOC samples have zero headspace? No NA Yes Other observations: *Samples not at proper temperature, cooling process had begun shortly after sampling event (check if applicable) Non-Conformance Contact Person: -____ Date/Time: ____ Contacted by: _____ Regarding: Corrective Action Taken: Proceed with analysis? (check if approved by client)

APPENDIX C Soil Boring Descriptions

Depth (ft bgs)	CRD-1			
4-8	brown fine silty sand minor clay			
8-12	brown clayey sand dry			
12-16	brown clayey sand dry			
16-20	brown silty sand dry			
20-24	brown clay			
24-28	brown sandy silt dry			
28-32	brown sand silt moist			
32-36	brown sandy silt saturated			
36-40	brown sandy silt saturated			
40-44	dark brown clay wet			
44-48	dark brown clay wet			
	CDC-1			
0-4	brown sand with silt			
4-8	brown silty sand			
8-12	brown sandy gravel			
20-24	brown silty sand with clay			
24-28	brown silty clay			
28-32	brown moist silty sand			
32-36	brown with black moist silty clay			
36-40	brown moist silty fine sand			
40-44	brown wet silty fine sand			
44-48	brown silty sand moist			
48-52	brown wet silty fine sand			
	CRB-1			
0-4	brown coarse sand with silt			
4-8	brown fine silty sand moist			
8-12	brown fine silty sand moist			
12-16	brown silty sand with clay moist			
16-20	brown fine silty clay moist			
20-24	brown silty clay			
24-28	brown silty clay moist			
28-32	brown clayey silt moist			
32-36	brown silty sand moist			
36-40	brown clay moist			
40-44	brown clayey silt moist			
44-48	brown clayey silt moist			
	CRA-1			
0-4	brown clayey silty sand			
12-16	brown silty clay moist			
16-20	brown silty clay moist			
20-24	brown clay moist			
24-28	brown clay to brown silty sand dry			
28-32	brown silty clay moist			
32-36				
36-40	brown sand with clay moist			
40-44	brown/black silty sand wet			
44-48	brown with black silty clay moist			