Calscience Environmental Laboratories, Inc.

June 02, 2009

Ewelina Mutkowska
OTIE
317 East Main Street
Ventura, CA 93001-2624

Subject: **Calscience Work Order No.: 09-05-2222**
Client Reference: Former Raytheon Site, Canaga Park / 2009025

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 5/26/2009 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Virendra Patel
Project Manager

Calscience Environmental Laboratories, Inc.

ACCREDITED IN ACCORDANCE WITH nelac

Case Narrative for 09-05-2222

Sample Condition on Receipt

Fifteen (15) samples were received as part of this Work Order on May 26, 2009. All samples were transferred to the laboratory in an ice-chest following strict chain-of-custody procedures. The temperature (4.5 °C) of the samples was measured upon arrival in the laboratory and was within acceptable limits. The samples were logged into the Laboratory Information Management System (LIMS), given laboratory identification numbers, and stored in refrigeration units pending analysis.

Data Summary

The samples included in this report were analyzed in accordance with the attached chain-of custody records.

Holding Times
All holding time requirements were met.

Calibration
Frequency and control criteria for initial and continuing calibration verifications were met.

Blanks
The method blank data showed non-detectable levels for Solids, Total Dissolved.

Sample Duplicate
A sample duplicate has been provided as part of the QC deliverables package. The RPD on the duplicate sample was within acceptable limits.

Matrix Spikes
Matrix Spikes (MS) and Matrix Spike Duplicates (MSD) analyses are not performed for this method.

Laboratory Control Samples
The Laboratory Control Sample (LCS) and LCS Duplicate analyses are not performed for this method.

Surrogates
Surrogate recoveries are not performed for this method.

CALSCIENCE ENVIRONMENTAL LABORATORIES, INC.
Sample Summary Report

WORK ORDER #: 09-05-2222 QAPP: 0130

#	Client Sample ID	Matrix	Date Collected	NoC	Comment
1	CP-0905015	W	05/26/2009	1	
2	CP-0905016	W	05/26/2009	1	
3	CP-0905019	W	05/26/2009	1	
4	CP-0905020	W	05/26/2009	1	
5	CP-0905025	W	05/26/2009	1	
6	CP-0905026	W	05/26/2009	1	
7	CP-0905007	W	05/26/2009	1	
8	CP-0905008	W	05/26/2009	1	
9	CP-0905003	W	05/26/2009	1	
10	CP-0905004	W	05/26/2009	1	
11	CP-0905009	W	05/26/2009	1	
12	CP-0905010	W	05/26/2009	1	
13	CP-0905011	W	05/26/2009	1	
14	CP-0905012	W	05/26/2009	1	
15	CP-0905027	W	05/26/2009	1	

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 09-05-2222

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: OTIE - TWRA

DATE: 5/26/09

TEMPERATURE: (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 4.7 °C - 0.2 °C (CF) = 4.5 °C ☐ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter ☐ Metals Only ☐ PCBs Only Initial: _____

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A Initial: _____

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Initial: YL

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ COC not relinquished. ☐ No date relinquished. ☐ No time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Correct containers and volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve ☐EnCores® ☐TerraCores® ☐_____

Water: ☐VOA ☐VOAh ☐VOAna_2 ☐125AGB ☐125AGBh ☐125AGBp ☐1AGB ☐1AGBna_2 ☐1AGBs ☐500AGB ☐500AGJ ☐500AGJs ☐250AGB ☐250CGB ☐250CGBs ☑1PB ☐500PB ☐500PBna ☐250PB ☐250PBn ☐125PB ☐125PBznna ☐100PB ☐100PBna_2 ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® ☐_____ **Other:** ☐_____ Checked/Labeled by: YL

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar (Wide-mouth) B: Bottle (Narrow-mouth) Reviewed by: _____

Preservative: h: HCL n: HNO3 na$_2$: $Na_2S_2O_3$ Na: NaOH p: H_3PO_4 s: H_2SO_4 znna: $ZnAc_2$+NaOH f: Field-filtered Scanned by: _____

Calscience Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

Date 5/26/09

Page 1 of 2

☐ SoCal Laboratory
7440 Lincoln Way
Garden Grove, CA 92841-1427
(714) 895-5494

☐ NorCal Service Center
5063 Commercial Circle, Suite H
Concord, CA 94520-8577
(925) 689-9022

LABORATORY CLIENT: OTIE-TN&A

ADDRESS: 317 E. Main street

CITY: Ventura STATE: CA ZIP: 93001

TEL: (805) 585-2110 E-MAIL:

CLIENT PROJECT NAME / NUMBER: former Raytheon site, Canoga Park

P.O. NO.: 2009025

PROJECT CONTACT: Ewelina M.

LAB USE ONLY: 0 5 - 2 2 2 2

SAMPLER(S) (PRINT): BOB Johnson

COELT LOG CODE:

COOLER RECEIPT TEMP: °C

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☑ STANDARD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY): ☐ RWQCB REPORTING FORMS ☐ COELT EDF ☑ OTIE - TN&A Specific EDF

SPECIAL INSTRUCTIONS:
* Level III Data Packages on samples.
* Level III Data Packages on samples (CP-0905001 & CP-0905002)

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (8)	TPH (d) or (C6-C36) or (C6-C44)	TPH ( )	BTEX / MTBE (8260B) or ( )	VOCs (8260B)	Organotins (8270SIM)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082)	PAHs (8310) or (8270C)	1,2,3 Metals (6020/6020A/7470)	CAM 17 Metals (6020/6020A/7471)	VOCs (TO-15) or (%)	TPH (8) (TO-3)	TDS (SM 2540C)		
1	CP-0905015		5/26/09	8:30	GW	1																X		
2	CP-0905016			8:45																		X		
3	CP-0905019			9:30																		X		
4	CP-0905020			9:45																		X		
5	CP-0905025			10:00																		X		
6	CP-0905026			10:15																		X		
7	CP-0905007			11:00																		X		
8	CP-0905008			11:15																		X		
9	CP-0905003			11:45																		X		
10	CP-0905004			12:00																		X		

Relinquished by: (Signature) Bob Johnson	Received by: (Signature/Affiliation)	Date: 5-26-09	Time: 1525
Relinquished by: (Signature)	Received by: (Signature/Affiliation) Dannyle CEL	Date: 5/26/09	Time: 17:35
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

DISTRIBUTION: White with final report, Green and Yellow to Client
Please note that pages 1 and 2 of 2 of our T/Cs are printed on the reverse side of the Green and Yellow copies respectively.

05/01/07 Revision

Calscience Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

Date 5/26/09

Page 2 of 2

☐ SoCal Laboratory
7440 Lincoln Way
Garden Grove, CA 92841-1427
(714) 895-5494

☐ NorCal Service Center
5063 Commercial Circle, Suite H
Concord, CA 94520-8577
(925) 689-9022

LABORATORY CLIENT: OTIE - TN & A

ADDRESS: 317 E. Main St

CITY: Ventura STATE: CA ZIP: 93001

TEL: 805-585-2110 E-MAIL:

CLIENT PROJECT NAME / NUMBER: Canoga Park

PROJECT CONTACT: Eweling M.

SAMPLER(S) (PRINT): Bob Johnson

COELT LOG CODE:

P.O. NO.: 2009025

LAB USE ONLY: 05 - 2222

COOLER RECEIPT TEMP: °C

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY): ☐ RWQCB REPORTING FORMS ☐ COELT EDF ☒ OTIE-TN&A Specific EDD

SPECIAL INSTRUCTIONS:
* Level # Data Package on all Samples
* Level III Data Package on (CP-0905001 & CP-0905002)

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (g)	TPH (d) or (C6-C36) or (C6-C44)	TPH ( )	BTEX / MTBE (8260B) or ( )	VOCs (8260B)	Oxygenates (8260B)	Enclure Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082)	PAHs (8310) or (8270C)	T22 Metals (6010B/7470)	OrgPb (7196A or 7196 or 218.6)	VOCs (TO-14A) or (TO-15)	TPH (g) (T10-3b)	TDS (160.1 or 160.2)		
11	CP-0905009		5/26/09	13:45	H2O	1																X		
12	CP-0905010		5/26/09	14:00		1																X		
13	CP-0905011		5/26/09	14:45		1																X		
14	CP-0905012		5/26/09	15:00		1																X		
15	CP-0905027		5/26/09	15:15		1																X		

Relinquished by: (Signature) Bob Johnson	Received by: (Signature/Affiliation)	Date: 5-26-09	Time: 1525
Relinquished by: (Signature)	Received by: (Signature/Affiliation) Dannyle / CEL	Date: 5/26/09	Time: 17:35
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

DISTRIBUTION: White with final report, Green and Yellow to Client.
Please note that pages 1 and 2 of 2 of our T/Cs are printed on the reverse side of the Green and Yellow copies respectively.

05/01/07 Revision

Calscience Environmental Laboratories, Inc.

Analytical Report

OTIE		Date Received:	05/26/09
317 East Main Street		Work Order No:	09-05-2222
Ventura, CA 93001-2624		Preparation:	N/A
		Method:	SM 2540 C

Project: Former Raytheon Site, Canaga Park / 2009025

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CP-0905015	**09-05-2222-1-A**	**05/26/09 08:30**	**Aqueous**	**N/A**	**05/29/09**	**05/29/09 19:30**	**90529TDSB1**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Solids, Total Dissolved	3390	10	1.0	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CP-0905016	**09-05-2222-2-A**	**05/26/09 08:45**	**Aqueous**	**N/A**	**05/29/09**	**05/29/09 19:30**	**90529TDSB1**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Solids, Total Dissolved	3440	10	1.0	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CP-0905019	**09-05-2222-3-A**	**05/26/09 09:30**	**Aqueous**	**N/A**	**05/29/09**	**05/29/09 19:30**	**90529TDSB1**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Solids, Total Dissolved	2730	10	1.0	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CP-0905020	**09-05-2222-4-A**	**05/26/09 09:45**	**Aqueous**	**N/A**	**05/29/09**	**05/29/09 19:30**	**90529TDSB1**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Solids, Total Dissolved	2760	10	1.0	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CP-0905025	**09-05-2222-5-A**	**05/26/09 10:00**	**Aqueous**	**N/A**	**05/29/09**	**05/29/09 19:30**	**90529TDSB1**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Solids, Total Dissolved	2680	10	1.0	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CP-0905026	**09-05-2222-6-A**	**05/26/09 10:15**	**Aqueous**	**N/A**	**05/29/09**	**05/29/09 19:30**	**90529TDSB1**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Solids, Total Dissolved	2720	10	1.0	1		mg/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

OTIE		Date Received:	05/26/09
317 East Main Street		Work Order No:	09-05-2222
Ventura, CA 93001-2624		Preparation:	N/A
		Method:	SM 2540 C

Project: Former Raytheon Site, Canaga Park / 2009025

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CP-0905007	**09-05-2222-7-A**	**05/26/09 11:00**	**Aqueous**	**N/A**	**05/29/09**	**05/29/09 19:30**	**90529TDSB1**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Solids, Total Dissolved	2420	10	1.0	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CP-0905008	**09-05-2222-8-A**	**05/26/09 11:15**	**Aqueous**	**N/A**	**05/29/09**	**05/29/09 19:30**	**90529TDSB1**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Solids, Total Dissolved	2350	10	1.0	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CP-0905003	**09-05-2222-9-A**	**05/26/09 11:45**	**Aqueous**	**N/A**	**05/29/09**	**05/29/09 19:30**	**90529TDSB1**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Solids, Total Dissolved	1640	10	1.0	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CP-0905004	**09-05-2222-10-A**	**05/26/09 12:06**	**Aqueous**	**N/A**	**05/29/09**	**05/29/09 19:30**	**90529TDSB1**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Solids, Total Dissolved	1690	10	1.0	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CP-0905009	**09-05-2222-11-A**	**05/26/09 13:45**	**Aqueous**	**N/A**	**05/29/09**	**05/29/09 19:30**	**90529TDSB1**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Solids, Total Dissolved	2910	10	1.0	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CP-0905010	**09-05-2222-12-A**	**05/26/09 14:00**	**Aqueous**	**N/A**	**05/29/09**	**05/29/09 19:30**	**90529TDSB1**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Solids, Total Dissolved	2050	10	1.0	1		mg/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

OTIE		Date Received:	05/26/09
317 East Main Street		Work Order No:	09-05-2222
Ventura, CA 93001-2624		Preparation:	N/A
		Method:	SM 2540 C

Project: Former Raytheon Site, Canaga Park / 2009025

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CP-0905011	**09-05-2222-13-A**	**05/26/09 14:45**	**Aqueous**	**N/A**	**05/29/09**	**05/29/09 19:30**	**90529TDSB1**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Solids, Total Dissolved	2260	10	1.0	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CP-0905012	**09-05-2222-14-A**	**05/26/09 15:00**	**Aqueous**	**N/A**	**05/29/09**	**05/29/09 19:30**	**90529TDSB1**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Solids, Total Dissolved	2260	10	1.0	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CP-0905027	**09-05-2222-15-A**	**05/26/09 15:15**	**Aqueous**	**N/A**	**05/29/09**	**05/29/09 19:30**	**90529TDSB1**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Solids, Total Dissolved	14	1.0	1.0	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-180-1,405**	**N/A**	**Aqueous**	**N/A**	**05/29/09**	**05/29/09 19:30**	**90529TDSB1**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Solids, Total Dissolved	ND	1.0	1.0	1		mg/L

Calscience Environmental Laboratories, Inc.

Quality Control - Duplicate

OTIE		Date Received:	05/26/09
317 East Main Street		Work Order No:	09-05-2222
Ventura, CA 93001-2624		Preparation:	N/A
		Method:	SM 2540 C

Project: Former Raytheon Site, Canaga Park / 2009025

Quality Control Sample ID	Matrix	Instrument	Date Prepared:	Date Analyzed:	Duplicate Batch Number
09-05-2306-1	**Aqueous**	**N/A**	**05/29/09**	**05/29/09**	**90529TDSD1**

Parameter	Sample Conc	DUP Conc	RPD	RPD CL	Qualifiers
Solids, Total Dissolved	795	793	0	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 09-05-2222

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture.

Level III Data Package

Work Order#: 09-05-2222

Client: OTIE - TN & A

Former Raytheonsite, Canaga Park / 2009025

SM 2540 C

Total Dissolved Solids

Gravimetric Logbook

Analyte: ☒ Total Dissolved Solids (TDS), ☐ Total Suspended Solids (TSS)

Method	Matrix	Date	Analyst(s)	Batch Number	Unit
☒ SM 2540 C ☐ EPA 160.1 ☐ SM 2540 D ☐ EPA 160.2	Aqueous	Preparation: 3/19/09 Analysis: ✓	[illegible]	[illegible]: 90579 TDS01 Sample Duplicate: 90579 TDS01	☒ mg/L ☐ mg/kg

Lab ID	TDS	RPD	Control Limit	Comments
Sample 09-95-2326-1-A	775	0	0 / 20	
Duplicate ✓	775			

BATCH TIME
Time (24 Hr): 1730
Initials: [illegible]

09-05-2326-1-A	NA	NA	46	20	49.3781	49.4158	0.0377	3570	1.0	14	5280
-2			111		39.4873	39.5741	0.0688	3440			5340
-3			3B		39.5016	39.5564	0.0548	2740			4150
-4			90		38.4758	38.4790	0.0554	2760			4150
-5			AF		39.6773	39.7354	0.0535	2680			4500
-6			67		38.7697	38.7641	0.0544	2720			4500
-7			HAB		38.8180	38.8868	0.0484	2420			3550
-8			91	✓	38.7336	38.7805	0.0469	2350			3540
-9			BZA	30	38.7867	38.8358	0.0491	1640			2110
-10			AIIA	30	39.0104	39.0612	0.0508	1690			2160
-11			T16	20	39.3639	39.4012	0.0581	2910			3600
-12			524	30	39.3487	39.4101	0.0614	2050			2600
-13			57	20	39.9054	39.9446	0.0452	2260			3500
-14			WE	20	39.7301	39.7725	0.0457	2280	✓		3530
✓ -15			9	50	39.3530	39.3537	0.0007	14	1.0		210
-2936-1-G			25	40	50.7319	50.7779	0.0460	1150	1.0		1930
-2-E			TKN		39.5546	39.5929	0.0383	958	1.0		1530
-2985-6-H			115		39.7904	39.7772	0.0288	720			1950
-2326-1-A	✓	✓	26	✓	39.9998	39.5316	0.0318	775	✓	✓	1110
MB	NA	NA	4BB	200	39.7465	39.7466	0.0001	ND	1.0	14	
Duplicate 09-05-2326-1-A	NA	NA	11A	40	38.7449	38.7816	0.0317	793	1.0	14	

12/13/08 Revision

Calscience Environmental Laboratories, Inc.

June 04, 2009

Ewelina Mutkowska
OTIE
317 East Main Street
Ventura, CA 93001-2624

Subject: **Calscience Work Order No.: 09-05-2305**
Client Reference: Raytheon Canoga / 2009025

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 5/27/2009 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Virendra Patel
Project Manager

Calscience Environmental Laboratories, Inc.

ACCREDITED IN ACCORDANCE WITH nelac

Case Narrative for 09-05-2305

Sample Condition on Receipt

Thirteen (13) aqueous samples were received as part of this Work Order on May 27, 2009. The samples were transferred to the laboratory in an ice-chest following strict chain-of-custody procedures. The temperature (2.4°C) of the samples was measured upon arrival in the laboratory and was within acceptable limits. The samples were logged into the Laboratory Information Management System (LIMS), given laboratory identification numbers, and stored in refrigeration units pending analysis.

Data Summary

The samples included in this report were analyzed in accordance with the attached chain-of-custody (COC) record.

Holding Times

All holding time requirements were met.

Calibration

Frequency and control criteria for initial and continuing calibration verifications were met.

Blanks

The method blank data showed non-detectable levels for Total Dissolved Solids.

Sample Duplicate

A sample duplicate has been provided as part of the QC deliverables package. The RPD on the duplicate sample was within acceptable limits.

Matrix Spikes

Matrix Spikes (MS) and Matrix Spike Duplicates (MSD) were not performed for this method.

Laboratory Control Samples

The Laboratory Control Sample (LCS) and LCS Duplicate analyses were not performed for this method.

Surrogates

Surrogate recoveries were not performed for this method.

CALSCIENCE ENVIRONMENTAL LABORATORIES, INC.
Sample Summary Report

WORK ORDER #: [redacted] QA/PP: 8130

#	Client Sample ID	Matrix	Date Collected	TotC	Comment
1	[redacted]	W	05/27/2009	1	
2	[redacted]	W	05/27/2009	1	
3	[redacted]	W	05/27/2009	1	
4	[redacted]	W	05/27/2009	1	
5	[redacted]	W	05/27/2009	1	
6	[redacted]	W	05/27/2009	1	
7	[redacted]	W	05/27/2009	1	
8	[redacted]	W	05/27/2009	1	
9	[redacted]	W	05/27/2009	1	
10	[redacted]	W	05/27/2009	1	
11	[redacted]	W	05/27/2009	1	
12	[redacted]	W	05/27/2009	1	
13	[redacted]	W	05/27/2009	1	

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 09-05- 2 3 D 5

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: OTE-TNSA

DATE: 05/27/09

TEMPERATURE: (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 2.6 °C - 0.2 °C (CF) = 2.4 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☑ Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: ☐ Air ☐ Filter ☐ Metals Only ☐ PCBs Only Initial: [illegible]

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A Initial: [illegible]

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Initial: [illegible]

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ COC not relinquished. ☐ No date relinquished. ☐ No time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Correct containers and volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve ☐EnCores® ☐TerraCores® ☐_____

Water: ☐VOA ☐VOAh ☐VOAna_2 ☐125AGB ☐125AGBh ☐125AGBp ☐1AGB ☐1AGBna_2 ☐1AGBs ☐500AGB ☐500AGJ ☐500AGJs ☐250AGB ☐250CGB ☐250CGBs ☑1PB ☐500PB ☐500PBna ☐250PB ☐250PBn ☐125PB ☐125PBznna ☐100PB ☐100PBna_2 ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® ☐_____ **Other:** ☐_____ Checked/Labeled by: [illegible]

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar (Wide-mouth) B: Bottle (Narrow-mouth) Reviewed by: [illegible]

Preservative: h: HCL n: HNO3 na$_2$/Na$_2$S$_2$O$_3$ Na: NaOH p: H_3PO_4 s: H_2SO_4 znna: $ZnAc_2$+NaOH f: Field-filtered Scanned by: [illegible]

Calscience Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

Date 5-27-09

Page 1 of 2

☐ SoCal Laboratory
7440 Lincoln Way
Garden Grove, CA 92841-1427
(714) 895-5494

☐ NorCal Service Center
5063 Commercial Circle, Suite H
Concord, CA 94520-8577
(925) 689-9022

LABORATORY CLIENT: OTIE - TNA

ADDRESS: 317 E Main St

CITY: Ventura STATE: CA. ZIP: 93001

TEL: 805-585-2110 E-MAIL:

CLIENT PROJECT NAME / NUMBER: Raytheon Canoga 2009025

PROJECT CONTACT: Evelina Muthkowska

SAMPLER(S): (PRINT) Bob Johnson

COELT LOG CODE:

P.O. NO.:

LAB USE ONLY: 05-2305

COOLER RECEIPT TEMP: °C

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY): ☐ RWQCB REPORTING FORMS ☐ COELT EDF ☒ OTIE TNA specific EDD's

SPECIAL INSTRUCTIONS:
Level III Data Packages on all samples
Level III Data Packages on samples CP-0905001 & CP-0905002

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (8)	TPH (8) or (C6-C36) or (C6-C44)	TPH ( )	BTEX / MTBE (8260B) or ( )	VOCs (8260B)	Oxygenates (8260B)	Ensure Prep (3535)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082)	CAM 17 (8310) or (8270C)	PNAs (8310) or (8270C)	122 Metals (6010B/7470)	CrVI (7196A or 7199 or 218.6)	VOCs (TO-15) or (TO-17)	TPH (8) (TO-3)	TDS (SM2540C)		
1	CP-0905005		5-27-09	11:45	GW	1																	X		
2	CP-0905006			12:00																			X		
3	CP-0905001			0800																			X		
4	CP-0905002			0815																			X		
5	CP-0905013	~~11:00~~ RJ		11:00																			X		
6	CP-0905014	~~11:15~~ RJ		11:15																			X		
7	CP-0905017	~~0930~~ RJ		0930																			X		
8	CP-0905018	0945 RJ		0945																			X		
9	CP-0905021			1230																			X		
10	CP-0905022			1249																			X		

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Bob	CA	05/27/09	14:10
	CA	05/27/09	1600

DISTRIBUTION: White with final report, Green and Yellow to Client.
Please note that pages 1 and 2 of 2 of our T/Cs are printed on the reverse side of the Green and Yellow copies respectively.

05/01/07 Revision

Calscience Environmental Laboratories, Inc.

☐ SoCal Laboratory
7440 Lincoln Way
Garden Grove, CA 92841-1427
(714) 895-5494

☐ NorCal Service Center
5063 Commercial Circle, Suite H
Concord, CA 94520-8577
(925) 689-9022

CHAIN OF CUSTODY RECORD

Date: 5-27-09

Page 2 of 2

LABORATORY CLIENT: OTIE-TN&A

ADDRESS: 317 E. Mainst.

CITY: Ventura, STATE: CA. ZIP: 93001

TEL: 805-585-2110 E-MAIL:

CLIENT PROJECT NAME / NUMBER: Raytheon Canoga 2009025

P.O. NO.:

PROJECT CONTACT: Ewelina Mutkowska

LAB USE ONLY: 05-2305

SAMPLER(S) (PRINT): Bob Johnson

COELT LOG CODE:

COOLER RECEIPT TEMP= °C

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY): ☐ RWQCB REPORTING FORMS ☐ COELT EDF ☒ OTIE-TNA specific EDD's

SPECIAL INSTRUCTIONS:
Level III Data Packages on all samples
Level IV Data Packages on CP-0905001
CP-0905002

REQUESTED ANALYSES

Analysis columns: TPH (g); TPH (d) or (C6-C36) or (C6-C44); TPH [ ]; BTEX / MTBE (8260B) or [ ]; VOCs (8260B); Oxygenates (8260B); Encore Prep (5035); SVOCs (8270C); Pesticides (8081A); PCBs (8082); PAHs (8310) or (8270C); T22 Metals (6010B/747X); Cr(VI) [7196A or 7199 or 218.6]; VOCs (TO-14A) or (TO-15); TPH (g) (TO-3)+; TDS (SM2540C)

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TDS (SM2540C)
	~~CP-0905027~~ BJ		5-27-09		GW	1	X
11	CP-0905028		5-27-09	1315		1	X
12	CP-0905023		5-27-09	0830		1	X
13	CP-0905024		5-27-09	0845		1	X

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date	Time
	CEL	05/27/09	1410
	CEL	05/27/09	1600

DISTRIBUTION: White with final report, Green and Yellow to Client.
Please note that pages 1 and 2 of 2 of our T/Cs are printed on the reverse side of the Green and Yellow copies respectively.

05/01/07 Revision

Calscience Environmental Laboratories, Inc.

Analytical Report

OTIE		Date Received:	05/27/09
317 East Main Street		Work Order No:	09-05-2305
Ventura, CA 93001-2624		Preparation:	N/A
		Method:	SM 2540 C

Project: Raytheon Canoga / 2009025

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CP-0905005	**09-05-2305-1-A**	**05/27/09 11:45**	**Aqueous**	**N/A**	**06/01/09**	**06/01/09 20:10**	**90601TDSB1**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Solids, Total Dissolved	2320	10	1.0	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CP-0905006	**09-05-2305-2-A**	**05/27/09 12:00**	**Aqueous**	**N/A**	**06/01/09**	**06/01/09 20:10**	**90601TDSB1**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Solids, Total Dissolved	2330	10	1.0	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CP-0905001	**09-05-2305-3-A**	**05/27/09 08:00**	**Aqueous**	**N/A**	**06/01/09**	**06/01/09 20:10**	**90601TDSB1**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Solids, Total Dissolved	1300	10	1.0	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CP-0905002	**09-05-2305-4-A**	**05/27/09 08:15**	**Aqueous**	**N/A**	**06/01/09**	**06/01/09 20:10**	**90601TDSB1**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Solids, Total Dissolved	1300	10	1.0	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CP-0905013	**09-05-2305-5-A**	**05/27/09 11:00**	**Aqueous**	**N/A**	**06/01/09**	**06/01/09 20:10**	**90601TDSB1**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Solids, Total Dissolved	2320	10	1.0	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CP-0905014	**09-05-2305-6-A**	**05/27/09 11:15**	**Aqueous**	**N/A**	**06/01/09**	**06/01/09 20:10**	**90601TDSB1**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Solids, Total Dissolved	2340	10	1.0	1		mg/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

OTIE		Date Received:	05/27/09
317 East Main Street		Work Order No:	09-05-2305
Ventura, CA 93001-2624		Preparation:	N/A
		Method:	SM 2540 C

Project: Raytheon Canoga / 2009025

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CP-0905017	**09-05-2305-7-A**	**05/27/09 09:30**	**Aqueous**	**N/A**	**06/01/09**	**06/01/09 20:10**	**90601TDSB1**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Solids, Total Dissolved	1790	10	1.0	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CP-0905018	**09-05-2305-8-A**	**05/27/09 09:45**	**Aqueous**	**N/A**	**06/01/09**	**06/01/09 20:10**	**90601TDSB1**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Solids, Total Dissolved	975	1.0	1.0	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CP-0905021	**09-05-2305-9-A**	**05/27/09 12:30**	**Aqueous**	**N/A**	**06/01/09**	**06/01/09 20:10**	**90601TDSB1**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Solids, Total Dissolved	2350	10	1.0	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CP-0905022	**09-05-2305-10-A**	**05/27/09 12:45**	**Aqueous**	**N/A**	**06/01/09**	**06/01/09 20:10**	**90601TDSB1**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Solids, Total Dissolved	2330	10	1.0	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CP-0905028	**09-05-2305-11-A**	**05/27/09 13:15**	**Aqueous**	**N/A**	**06/01/09**	**06/01/09 20:10**	**90601TDSB1**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Solids, Total Dissolved	14	1.0	1.0	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CP-0905023	**09-05-2305-12-A**	**05/27/09 08:30**	**Aqueous**	**N/A**	**06/01/09**	**06/01/09 20:10**	**90601TDSB1**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Solids, Total Dissolved	1330	10	1.0	1		mg/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

OTIE		Date Received:	05/27/09
317 East Main Street		Work Order No:	09-05-2305
Ventura, CA 93001-2624		Preparation:	N/A
		Method:	SM 2540 C

Project: Raytheon Canoga / 2009025

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CP-0905024	**09-05-2305-13-A**	**05/27/09 08:45**	**Aqueous**	**N/A**	**06/01/09**	**06/01/09 20:10**	**90601TDSB1**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Solids, Total Dissolved	1290	10	1.0	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-180-1,404**	**N/A**	**Aqueous**	**N/A**	**06/01/09**	**06/01/09 20:10**	**90601TDSB1**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Solids, Total Dissolved	ND	1.0	1.0	1		mg/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Duplicate

OTIE	Date Received:	05/27/09
317 East Main Street	Work Order No:	09-05-2305
Ventura, CA 93001-2624	Preparation:	N/A
	Method:	SM 2540 C

Project: Raytheon Canoga / 2009025

Quality Control Sample ID	Matrix	Instrument	Date Prepared:	Date Analyzed:	Duplicate Batch Number
09-06-0005-1	**Aqueous**	**N/A**	**06/01/09**	**06/01/09**	**90601TDSD1**

Parameter	Sample Conc	DUP Conc	RPD	RPD CL	Qualifiers
Solids, Total Dissolved	1010	1010	0	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 09-05-2305

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture.

Level III Data Package

Work Order#: 09-05-2305

Client: OTIE - TN & A

Raytheon Canoga / 2089025

SM 2540 C

Total Dissolved Solids

Gravimetric Logbook

MB DUP

Analyte: ☒ Total Dissolved Solids (TDS) ☐ Total Suspended Solids (TSS)

Method	Matrix	Date	Analyst	Batch Number	Conc Unit
☒ SM 2540 C ☐ EPA 160.1 ☐ SM 2540 D ☐ EPA 160.2	Aqueous	Preparation: 8/1/09 Analysis: ↓	HS / IN	MB 9060 1 TDS B1; Sample Duplicate 9060 1 TDS D1	☒ mg/L ☐ mg/kg

Lab ID	Conc	RPD	Control Limit	Comments
Sample 09-06-0005-11	1810	0	0 - 20	
Duplicate ↓	1810			

Instruction: Lab ID consists of Work Order Number and Sublab ID

Lab ID	Time Start	Time End	Container ID	Sample Initial Volume (mL)	Container	Container + Dried Residue	Dried Residue	Conc	DL	Balance ID	Comments
09-06-0005-1-1	NA	NA	7-V	40	29.2210	29.2615	0.0405	1010	10	14	1520
09-05-0615-1-A	↓	↓	BR	↓	29.9474	29.9813	0.0339	3390	↓	↓	2550
-2			WD		29.4913	29.5166	0.0253	2530			2500
-3			BS1		29.1765	29.1900	0.0137	1360			2010
-4			B13		29.5758	29.6273	0.0515	1500			1760
-5			8C		29.1160	29.2086	0.0926	2320			2470
-6			X1		29.5917	29.6861	0.0954	2380			2430
-7			K1		30.6182	30.6899	0.0717	1790	↓		2050
-8			10		29.6520	29.8270	0.0170	780	1.0		1190
-9			C33		29.2896	29.3774	0.0878	2550	1.0		2085
-10			39	↓	29.9645	29.9436	0.0791	3890	1.0		2470
-11			3D	5.0	29.6177	29.6186	0.0007	19	1.0		8.6
-12			[illegible]	45	[illegible]	29.4875	0.0556	1350	1.0		2030
↓ -13 ↓	↓	↓	17	40	29.3669	29.3315	0.0514	1290	1.0	↓	2010
MB			86	500	29.4963	29.4963	0.0000	ND	1.0	14	
Duplicate 09-05-0005-1-1	NA	NA	7-1	40	29.2203	29.2617	0.0404	1010	10	↓	

Time (in or): 20:18

12/12/08 Revision

GPL
LABORATORIES

June 30, 2009

Ms. Ewelina Mutkowska
OTIE-TN&A
317 E. Main St.
Ventura, CA 93001

Dear Ms. Mutkowska:

On May 27, 2009, 15 water samples were received for analysis at the GPL Laboratories Alabama, LLC. The samples were assigned Laboratory Report Identification Code 9067_9115. Enclosed is the Sample Data Package containing the radioanalytical results of the sample.

If you have any questions please do not hesitate to call.

Sincerely,

Richard Turner
Laboratory Director

1000 Monticello Court ✦ Montgomery, Alabama ✦6117 ✦334.272.2234 ✦Fax 334.213.0407

COVER PAGE

GPL Laboratories Alabama, LLC
1000 Monticello Court
Montgomery, Alabama 36117

NELAC Certification ID: NLC080001 (AL001)

Laboratory Report Identification Code: 9067

Sample Matrix: Water

Site Sample Number	Laboratory Sample Number
CP-0905019	OTI09-9067-01 OTI09-9085-01
CP-0905016	OTI09-9067-02 OTI09-9085-02
CP-0905019	OTI09-9067-03 OTI09-9085-03
CP-0905020	OTI09-9067-04 OTI-09-9085-04
CP-0905025	OTI09-9067-05 OTI09-9085-05
CP-0905026	OTI09-9067-06 OTI09-9085-06
CP-0905007	OTI09-9067-07 OTI09-9085-07
CP-0905008	OTI09-9067-08 OTI09-9085-08
CP-0905003	OTI09-9067-09 OTI09-9085-09
CP-0905004	OTI09-9067-10 OTI09-9085-10
CP-0905009	OTI09-9067-11 OTI09-9085-11 OTI09-9115-01
CP-0905010	OTI09-9067-12 OTI09-9085-12 OTI09-9115-02
CP-0905011	OTI09-9067-13 OTI09-9085-13
CP-0905012	OTI09-9067-14 OTI09-9085-14
CP-0905027	OTI09-9067-15 OTI09-9085-15

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GPL Laboratories Alabama, LLC
1000 Monticello Court
Montgomery, Alabama 36117

NELAC Certification ID: NLC080001 (AL001)

Laboratory Report Identification Code: 9067_9115

Comments: There were no problems encountered during sample receiving.

"I certify that this sample data package is in compliance with contract requirements, both technically and for completeness. Release of the data contained in this hard-copy sample data package has been authorized by the Laboratory Director or the Laboratory Director designee, as verified by the following signature."

Signature

Richard Turner
Name

Laboratory Director
Title

06/30/2009
Date

CASE NARRATIVE

Laboratory Report Identification Number: 9067_9115

NELAC Certification ID: NLC080001 (AL001)

June 30, 2009

I. Introduction

On May 27, 2009, 15 water samples were received for analysis at the GPL Laboratories Alabama, LLC located in Montgomery, Alabama. The samples were analyzed in accordance with the GPL Laboratory Quality Assurance Plan.

The data in this report meets all NELAC requirements unless otherwise stated.

II. Analytical Methodology

The radioanalytical results reported for the sample include the site and laboratory sample identification numbers, collection date, method of analysis, and the quality control samples that were analyzed concurrently. The samples were analyzed by the following methods.

Radionuclide	Method Number	Method Name	Counting Method
Co-Precipitation	SM711C	Gross Alpha Radioactivity	Gas Proportional Counting
Gross Alpha (U)	EPA 900.0	Gross Alpha Radioactivity	Gas Proportional Counting
Gross Beta	EPA 900.0	Gross Beta Radioactivity	Gas Proportional Counting
Ra-226	EPA 903.1	Radium-226 Radon Emanation Technique	Radon Flask/Scaler
Ra-228	EPA 904.0	Radium-228	Gas Proportional Counting
Uranium	ACW03	Eichrom Industries Extraction Chromatography	Alpha Spectrometry

III. Analytical Results

Deficiencies

See *"Re-analysis"* section.

Matrix Interferences

There were no indications of matrix interference.

Detection Limits

The required detection limits (RDLs) were met for all sample analyses.

Re-analysis

Samples OTI09-9067-11 and OTI09-9067-12 exhibited low tracer recovery due to method error during chemistry process. The samples were reanalyzed as OTI09-9115-01 and OTI09-9115-02 with new QC. The re-analyses produced acceptable results and are reported in this document.

Upon further review of the package, the gross alpha detection limits were not met for some of the samples. Those samples were recounted at longer times to achieve detection limits.

Deviations from Protocols

There were no deviations from the written protocols and analytical methods.

Contacts with the Technical Representative

There was no contact with the Technical Representative regarding these samples.

IV. Quality Control

The analytical results of all quality control samples met the acceptance criteria specified in the GPL Laboratory Quality Assurance Plan.

GPL Laboratories Alabama, LLC

Radioanalytical Results

Report Identification Number: S9067_9115

Project Name:	OTIE - TN&A	Chain-of-Custody Number:		Matrix:	Water
Site Sample ID:	CP-0905015				
Other Sample ID:		Collection Date:	5/26/2009 8:30:00 AM	Date Received:	5/27/2009 11:15:00
		Batch Number:	9067	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
EPA 900.0	BETA	OTI09-9067-01C	06/26/09 16:03	-4.18	1.86	2.24	2.77
ACW03	U-233/234	OTI09-9067-01	06/24/09 16:57	35.4	4.12	8.19	0.087
ACW03	U-235	OTI09-9067-01	06/24/09 16:57	1.59	0.526	0.710	0.108
ACW03	U-238	OTI09-9067-01	06/24/09 16:57	37.6	4.33	8.67	0.153
EPA 903.1	RA-226	OTI09-9067-01	06/03/09 13:37	0.083	0.284	0.285	0.468
EPA 904.0	RA-228	OTI09-9067-01	06/02/09 16:11	0.517	0.406	0.434	0.619

Quality Control Samples				
Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Beta	SCAQC-9067-LC1B	SCAQC-9067-LD1		SCAQC-9067-PB1B
Ra	SCAQC-9067-LC1	SCAQC-9067-LD1	SCAQC-9067-MS1	SCAQC-9067-PB
U	SCAQC-9067-LC1	SCAQC-9067-LD1		SCAQC-9067-PB1

GPL Laboratories Alabama, LLC

Radioanalytical Results

Report Identification Number: S9067_9115

Project Name: OTIE - TNSA	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: OF-0905016			
Other Sample ID:	Collection Date: 5/26/2009 8:45:00 AM	Date Received:	5/27/2009 11:15:00
	Batch Number: 9067	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
EPA 900.0	BETA	OTI09-9067-029	06/25/09 17:00	30.5	3.71	9.88	4.40
ACW03	U-233/234	OTI09-9067-02	06/24/09 16:57	36.0	4.16	8.32	0.201
ACW03	U-235	OTI09-9067-02	06/24/09 16:57	1.93	0.582	0.820	0.106
ACW03	U-238	OTI09-9067-02	06/24/09 16:57	36.4	4.20	8.41	0.086
EPA 903.1	RA-226	OTI09-9067-02	06/03/09 13:37	0.209	0.279	0.286	0.461
EPA 904.0	RA-228	OTI09-9067-02	06/02/09 16:13	0.188	0.358	0.362	0.618

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Beta	SCAQC-9067-LC1B	SCAQC-9067-LD1		SCAQC-9067-PB1B
Ra	SCAQC-9067-LC1	SCAQC-9067-LD1	SCAQC-9067-MS1	SCAQC-9067-PB
U	SCAQC-9067-LC1	SCAQC-9067-LD1		SCAQC-9067-PB1

Radioanalytical Results

Report Identification Number: S9067_9115

Project Name: OTIE - TN&A	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: CP-0905018			
Other Sample ID:	Collection Date: 5/26/2009 9:30:00 AM	Date Received:	5/27/2009 11:15:00
	Batch Number: 9067	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
EPA 900.0	BETA	OTI09-9067-03B	06/25/09 17:01	16.5	2.00	5.91	2.31
ACW03	U-233/234	OTI09-9067-03	06/24/09 16:57	12.2	1.91	3.11	0.106
ACW03	U-235	OTI09-9067-03	06/24/09 16:57	0.481	0.309	0.341	0.130
ACW03	U-238	OTI09-9067-03	06/24/09 16:57	11.7	1.85	2.99	0.106
EPA 903.1	RA-226	OTI09-9067-03	06/03/09 15:05	1.27	0.394	0.548	0.535
EPA 904.0	RA-228	OTI09-9067-03	06/02/09 16:14	0.633	0.449	0.488	0.875

Quality Control Samples				
Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Beta	SCAQC-9067-LC1B	SCAQC-9067-LD1		SCAQC-9067-PB1B
Ra	SCAQC-9067-LC1	SCAQC-9067-LD1	SCAQC-9067-M51	SCAQC-9067-PB
U	SCAQC-9067-LC1	SCAQC-9067-LD1		SCAQC-9067-PB1

Radioanalytical Results

Report Identification Number: S9067_9115

Project Name: OTIE - TH&A	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: CP-09050020			
Other Sample ID:	Collection Date: 5/26/2009 9:45:00 AM	Date Received:	5/27/2009 11:15:00
	Batch Number: 9067	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
EPA 900.0	BETA	OTI09-9067-04B	06/25/09 17:01	11.0	2.30	4.02	3.09
ACW03	U-233/234	OTI09-9067-04	06/24/09 16:57	12.0	1.40	2.78	0.058
ACW03	U-235	OTI09-9067-04	06/24/09 16:57	0.584	0.254	0.308	0.072
ACW03	U-238	OTI09-9067-04	06/24/09 16:57	12.4	1.43	2.86	0.103
EPA 903.1	RA-226	OTI09-9067-04	06/03/09 15:05	0.414	0.293	0.318	0.455
EPA 904.0	RA-228	OTI09-9067-04	06/02/09 16:14	0.567	0.407	0.441	0.603

Quality Control Samples				
Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Beta	SCAQC-9067-LC1B	SCAQC-9067-LD1		SCAQC-9067-PB1B
Ra	SCAQC-9067-LC1	SCAQC-9067-LD1	SCAQC-9067-MS1	SCAQC-9067-PB
U	SCAQC-9067-LC1	SCAQC-9067-LD1		SCAQC-9067-PB1

Radioanalytical Results

Report Identification Number: S9067_9115

Project Name: OTIE - TN&A	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: CP-0905025			
Other Sample ID:	Collection Date: 5/26/2009 10:00:00 AM	Date Received:	5/27/2009 11:15:00
	Batch Number: 9067	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
EPA 900.0	BETA	OTI09-9067-05B	06/29/09 13:28	22.9	3.65	7.77	2.90
ACW03	U-233/234	OTI09-9067-05	06/24/09 16:58	12.0	1.52	2.83	0.069
ACW03	U-235	OTI09-9067-05	06/24/09 16:58	0.857	0.293	0.363	0.085
ACW03	U-238	OTI09-9067-05	06/24/09 16:58	11.8	1.50	2.79	0.068
EPA 903.1	RA-226	OTI09-9067-05	06/03/09 15:05	0.615	0.322	0.371	0.484
EPA 904.0	RA-228	OTI09-9067-05	06/02/09 16:14	1.08	0.468	0.569	0.608

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Beta	SCAQC-9067-LC1B	SCAQC-9067-LD1		SCAQC-9067-PB1B
Ra	SCAQC-9067-LC1	SCAQC-9067-LD1	SCAQC-9067-MS1	SCAQC-9067-PB
U	SCAQC-9067-LC1	SCAQC-9067-LD1		SCAQC-9067-PB1

Radioanalytical Results

Report Identification Number: S9067_9115

Project Name: OTIE - TN&A	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: CP-0905026			
Other Sample ID:	Collection Date: 5/26/2009 10:15:00 AM	Date Received:	5/27/2009 11:15:00
	Batch Number: 9067	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
EPA 900.0	BETA	OTI09-9067-060	06/26/09 13:28	6.32	2.65	3.64	3.04
ACW03	U-233/234	OTI09-9067-06	06/24/09 16:58	12.3	1.67	2.98	0.141
ACW03	U-235	OTI09-9067-06	06/24/09 16:58	0.362	0.232	0.256	0.098
ACW03	U-238	OTI09-9067-06	06/24/09 16:58	11.5	1.58	2.78	0.079
EPA 903.1	RA-226	OTI09-9067-06	06/03/09 15:05	0.328	0.251	0.270	0.393
EPA 904.0	RA-228	OTI09-9067-06	06/02/09 16:23	-0.090	0.331	0.332	0.642

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Beta	SCAQC-9067-LC1B	SCAQC-9067-LD1		SCAQC-9067-PB1B
Ra	SCAQC-9067-LC1	SCAQC-9067-LD1	SCAQC-9067-MS1	SCAQC-9067-PB
U	SCAQC-9067-LC1	SCAQC-9067-LD1		SCAQC-9067-PB1

GPL Laboratories Alabama, LLC

Radioanalytical Results

Report Identification Number: S9067_9115

Project Name:	OTIE - TN&A	Chain-of-Custody Number:		Matrix:	Water
Site Sample ID:	CP-0905007				
Other Sample ID:		Collection Date:	5/28/2009 11:00:00 AM	Date Received:	5/27/2009 11:15:00
		Batch Number:	9067	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
EPA 900.0	BETA	OTI09-9067-07B	06/26/09 13:26	7.22	2.51	3.31	3.03
EPA 903.1	RA-226	OTI09-9067-07	06/03/09 16:12	9.61	0.734	2.98	0.346
EPA 904.0	RA-228	OTI09-9067-07	06/02/09 16:23	1.04	0.495	0.584	0.669

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Beta	SCAQC-9067-LC1B	SCAQC-9067-LD1		SCAQC-9067-PB1B
Ra	SCAQC-9067-LC1	SCAQC-9067-LD1	SCAQC-9067-MS1	SCAQC-9067-PB

Radioanalytical Results

Report Identification Number: S9067_9115

Project Name: OTIE - TN&A	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: CP-0905008			
Other Sample ID:	Collection Date: 5/26/2009 11:15:00 AM	Date Received:	5/27/2009 11:15:00
	Batch Number: 9067	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
EPA 900.0	BETA	OTI09-9067-SB8	06/26/09 13:29	7.99	2.75	3.65	3.01
EPA 903.1	RA-226	OTI09-9067-08	06/03/09 16:12	9.98	0.782	3.09	0.401
EPA 904.0	RA-228	OTI09-9067-08	06/03/09 13:06	0.978	0.460	0.546	0.620

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Beta	SCAQC-9067-LC1B	SCAQC-9067-LD1		SCAQC-9067-PB1B
Ra	SCAQC-9067-LC1	SCAQC-9067-LD1	SCAQC-9067-MS1	SCAQC-9067-PB

Radioanalytical Results

Report Identification Number: S9067_9115

Project Name: OTIE - TNBA	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: DP-09095003			
Other Sample ID:	Collection Date: 5/26/2009 11:45:00 AM	Date Received:	5/27/2009 11:15:00
	Batch Number: 9067	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
EPA 900.0	BETA	OTI09-9067-09B	06/26/09 13:29	3.30	1.75	2.01	2.33
EPA 903.1	RA-226	OTI09-9067-09	06/03/09 16:12	0.296	0.312	0.324	0.508
EPA 904.0	RA-228	OTI09-9067-09	06/03/09 13:06	2.31	0.598	0.915	0.609

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Beta	SCAQC-9067-LC1B	SCAQC-9067-LD1		SCAQC-9067-PB1B
Ra	SCAQC-9067-LC1	SCAQC-9067-LD1	SCAQC-9067-MS1	SCAQC-9067-PB

Radioanalytical Results

Report Identification Number: 59067_9115

Project Name: OTIE - TN&A	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: CP-0905004			
Other Sample ID:	Collection Date: 5/26/2009 12:00:00 PM	Date Received:	5/27/2009 11:15:00
	Batch Number: 9067	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
EPA 900.0	BETA	OTI09-9067-10B	06/26/09 13:29	5.73	2.26	2.83	2.91
EPA 903.1	RA-226	OTI09-9067-10	06/03/09 16:12	0.222	0.287	0.295	0.474
EPA 904.0	RA-228	OTI09-9067-10	06/03/09 13:06	0.389	0.409	0.424	0.662

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Beta	SCAQC-9067-LC1B	SCAQC-9067-LD1		SCAQC-9067-PB1B
Ra	SCAQC-9067-LC1	SCAQC-9067-LD1	SCAQC-9067-MS1	SCAQC-9067-PB

GPL Laboratories Alabama, LLC

Radioanalytical Results

Report Identification Number: S9067_9115

Project Name:	OTIE - TN&A	Chain-of-Custody Number:		Matrix:	Water
Site Sample ID:	OP-09050309				
Other Sample ID:		Collection Date:	5/26/2009 1:45:00 PM	Date Received:	5/27/2009 11:15:00
		Batch Number:	9067	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
EPA 900.0	BETA	OTI09-9067-11B	06/26/09 13:30	14.1	3.59	5.56	3.86
ACW03	U-233/234	OTI09-9067-11	06/24/09 18:58	0.000	0.000	0.090	14.3
ACW03	U-235	OTI09-9067-11	06/24/09 18:58	0.000	0.000	0.135	17.7
ACW03	U-238	OTI09-9067-11	06/24/09 18:58	0.000	0.000	0.090	33.2
EPA 903.1	RA-226	OTI09-9067-11	06/03/09 17:30	0.148	0.246	0.250	0.413
EPA 904.0	RA-228	OTI09-9067-11	06/03/09 13:06	0.116	0.316	0.318	0.556

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Beta	SCAQC-9067-LC1B	SCAQC-9067-LD1		SCAQC-9067-PB1B
Ra	SCAQC-9067-LC1	SCAQC-9067-LD1	SCAQC-9067-MS1	SCAQC-9067-PB
U	SCAQC-9067-LC1	SCAQC-9067-LD1		SCAQC-9067-PB1

GPL Laboratories Alabama, LLC

Radioanalytical Results

Report Identification Number: S9067_9115

Project Name:	OTIE - TN&A	Chain-of-Custody Number:		Matrix:	Water
Site Sample ID:	CP-0905010				
Other Sample ID:		Collection Date:	5/26/2009 2:00:00 PM	Date Received:	5/27/2009 11:15:00
		Batch Number:	9067	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
EPA 900.0	BETA	OTI09-9067-12B	06/26/09 13:30	11.4	2.29	4.10	2.14
ACW03	U-233/234	OTI09-9067-12	06/24/09 16:58	-2.11	4.88	4.90	26.3
ACW03	U-235	OTI09-9067-12	06/24/09 16:58	-2.61	6.02	6.08	31.2
ACW03	U-238	OTI09-9067-12	06/24/09 16:58	1.06	12.2	12.2	29.8
EPA 903.1	RA-226	OTI09-9067-12	06/04/09 16:58	0.182	0.250	0.256	0.414
EPA 904.0	RA-228	OTI09-9067-12	06/03/09 13:06	0.931	0.450	0.530	0.613

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Beta	SCAQC-9067-LC1B	SCAQC-9067-LD1		SCAQC-9067-PB1B
Ra	SCAQC-9067-LC1	SCAQC-9067-LD1	SCAQC-9067-MS1	SCAQC-9067-PB
U	SCAQC-9067-LC1	SCAQC-9067-LD1		SCAQC-9067-PB1

Radioanalytical Results

Report Identification Number: 59067_9115

Project Name: OTIE - TN&A	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: OP-0905011			
Other Sample ID:	Collection Date: 5/26/2009 2:45:00 PM	Date Received:	5/27/2009 11:15:00
	Batch Number: 9067	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
EPA 900.0	BETA	OTI09-9067-13B	06/26/09 13:30	6.86	3.00	3.64	3.95
EPA 903.1	RA-226	OTI09-9067-13	06/04/09 16:58	16.4	0.852	4.69	0.469
EPA 904.0	RA-228	OTI09-9067-13	06/03/09 13:07	2.03	0.566	0.831	0.617

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Beta	SCAQC-9067-LC1B	SCAQC-9067-LD1		SCAQC-9067-PB1B
Ra	SCAQC-9067-LC1	SCAQC-9067-LD1	SCAQC-9067-MS1	SCAQC-9067-PB

Radioanalytical Results

Report Identification Number: S9067_9115

Project Name: CTIE - TN&A	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: CP-0905012			
Other Sample ID:	Collection Date: 5/26/2009 3:00:00 PM	Date Received:	6/27/2009 11:15:00
	Batch Number: 9067	Laboratory Code:	SGA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
EPA 900.0	BETA	DT09-9067-14B	06/26/09 13:32	7.28	3.17	3.85	4.05
EPA 903.1	RA-226	DT09-9067-14	06/04/09 16:58	7.31	0.574	2.27	0.348
EPA 904.0	RA-226	DT09-9067-14	06/03/09 13:07	0.710	0.418	0.469	0.596

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Beta	SCAQC-9067-LC1B	SCAQC-9067-LD1		SCAQC-9067-PB1B
Ra	SCAQC-9067-LC1	SCAQC-9067-LD1	SCAQC-9067-MS1	SCAQC-9067-PB

Radioanalytical Results

Report Identification Number: 59067_9115

Project Name: OTIE - TNAA	Chain-of-Custody Number:	Matrix: Water	
Site Sample ID: OP-0905027			
Other Sample ID:	Collection Date: 5/26/2009 3:15:00 PM	Date Received:	5/27/2009 11:15:00
	Batch Number: 9067	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
EPA 900.0	ALPHA	OT09-9067-15	06/21/09 08:44	0.046	0.773	0.773	1.50
EPA 900.0	BETA	OT09-9067-15B	06/26/09 13:32	0.590	0.680	0.703	1.04
EPA 903.1	RA-226	OT09-9067-15	06/04/09 16:58	0.093	0.256	0.257	0.441
EPA 904.0	RA-228	OT09-9067-15	06/03/09 13:07	0.092	0.345	0.346	0.614

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Alpha		SCAQC-9067-LD1		SCAQC-9067-PB1
Beta	SCAQC-9067-LC1B	SCAQC-9067-LD1		SCAQC-9067-PB1B
Ra	SCAQC-9067-LC1	SCAQC-9067-LD1	SCAQC-9067-MS1	SCAQC-9067-PB

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Radioanalytical Results

Report Identification Number: S9087_9115

Project Name:	OTIE - TN&A	Chain-of-Custody Number:		Matrix:	Water
Site Sample ID:	CP-0905215				
Other Sample ID:		Collection Date:	5/26/2009 8:30:00 AM	Date Received:	5/27/2009 11:15:00
		Batch Number:	9085	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
SM 7110C	ALPHA	OTI09-9085-01	06/19/09 17:15	51.6	5.35	28.4	1.98

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Alpha	SCAQC-9085-LCB	SCAQC-9085-LD1		SCAQC-9085-PB1

Radioanalytical Results

Report Identification Number: S9067_9115

Project Name:	CITIE - TN&A	Chain-of-Custody Number:		Matrix:	Water
Site Sample ID:	CP-09050316				
Other Sample ID:		Collection Date:	5/29/2009 8:45:00 AM	Date Received:	6/27/2009 11:15:00
		Batch Number:	9085	Laboratory Code:	SGA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
SM 7110C	ALPHA	OT109-9085-02	06/15/09 19:01	46.3	5.43	23.8	2.49

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Alpha	SCAQC-9085-LCB	SCAQC-9085-LD1		SCAQC-9085-PB1

Radioanalytical Results

Report Identification Number: 59067_9115

Project Name: OTIE - TN&A	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: OP-0905019			
Other Sample ID:	Collection Date: 5/26/2009 9:30:00 AM	Date Received:	5/27/2009 11:15:00
	Batch Number: 9065	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
SM 7110C	ALPHA	OTI09-9065-03	06/19/09 17:15	20.9	3.54	11.1	1.85

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Alpha	SCAQC-9065-LCB	SCAQC-9065-LD1		SCAQC-9065-PB1

Radioanalytical Results

Report Identification Number: S9087_9115

Project Name: OTIE - TN&A	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: CP-09050020			
Other Sample ID:	Collection Date: 5/26/2009 9:45:00 AM	Date Received:	5/27/2009 11:15:00
	Batch Number: 9085	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
SM 7110C	ALPHA	OTI09-9085-04	06/19/09 19:01	17.2	3.06	9.12	1.87

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Alpha	SCAQC-9085-LCB	SCAQC-9085-LD1		SCAQC-9085-PB1

Radioanalytical Results

Report Identification Number: S9067_9115

Project Name: GTIE - TN&A	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: GP-0905025			
Other Sample ID:	Collection Date: 5/26/2009 10:00:00 AM	Date Received:	5/27/2009 11:15:00
	Batch Number: 9085	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
SM 7110C	ALPHA	GTI09-9085-05	06/19/09 19:01	26.9	4.06	14.1	2.25

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Alpha	SCAQC-9085-LCB	SCAQC-9085-LD1		SCAQC-9085-PB1

Radioanalytical Results

Report Identification Number: 59087_9115

Project Name:	OTIE - TN&A	Chain-of-Custody Number:	Matrix: Water
Site Sample ID:	CP-0905028		
Other Sample ID:		Collection Date: 5/28/2009 10:15:00 AM	Date Received: 5/27/2009 11:15:00
		Batch Number: 9085	Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
SM 7110C	ALPHA	OT109-9085-06	06/19/09 19:01	20.1	3.31	10.6	1.69

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Alpha	SCAQC-9085-LCS	SCAQC-9085-LD1		SCAQC-9085-PB1

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Radioanalytical Results

Report Identification Number: 59087_9115

Project Name:	OTIE - TN&A	Chain-of-Custody Number:		Matrix:	Water
Site Sample ID:	CP-0905007				
Other Sample ID:		Collection Date:	5/29/2009 11:00:00 AM	Date Received:	6/27/2009 11:15:00
		Batch Number:	9085	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
SM 7110C	ALPHA	OT909-9085-07	06/19/09 20:49	49.6	5.65	25.4	2.52

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Alpha	SCAQC-9085-LCB	SCAQC-9085-LD1		SCAQC-9085-PB1

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Radioanalytical Results

Report Identification Number: S9067_9115

Project Name:	OTIE - TN&A	Chain-of-Custody Number:		Matrix:	Water
Site Sample ID:	CP-0905008				
Other Sample ID:		Collection Date:	5/26/2009 11:15:00 AM	Date Received:	5/27/2009 11:15:00
		Batch Number:	9085	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
SM 7110C	ALPHA	OTI09-9085-08	06/19/09 20:49	42.0	4.73	21.5	1.90

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Alpha	SCAQC-9085-LCB	SCAQC-9085-LD1		SCAQC-9085-PB1

Radioanalytical Results

Report Identification Number: 09067_9116

Project Name: OTIE - Thi&A	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: CP-09095003			
Other Sample ID:	Collection Date: 5/26/2009 11:45:00 AM	Date Received:	5/27/2009 11:15:00
	Batch Number: 9085	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
SM 7110C	ALPHA	OT09-9085-09	06/15/09 20:49	2.48	1.86	2.08	2.31

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Alpha	SCAQC-9085-LCB	SCAQC-9085-LD1		SCAQC-9085-PB1

Radioanalytical Results

Report Identification Number: S9087_9115

Project Name: OTIE - TNBA	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: CP-0905004			
Other Sample ID:	Collection Date: 5/26/2009 12:00:00 PM	Date Received:	5/27/2009 11:15:00
	Batch Number: 9085	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
SM 7110C	ALPHA	OTI09-9085-10	06/19/09 20:49	6.04	1.94	3.59	1.70

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Alpha	SCAQC-9085-LC8	SCAQC-9085-LD1		SCAQC-9085-PB1

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Radioanalytical Results

Report Identification Number: 09087_9115

Project Name:	OTIE - TN&A	Chain-of-Custody Number:		Matrix:	Water
Site Sample ID:	CP-0905009				
Other Sample ID:		Collection Date:	5/26/2009 1:45:00 PM	Date Received:	5/27/2009 11:15:00
		Batch Number:	9085	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
SM 7110C	ALPHA	OTI09-9085-11	07/01/09 15:07	19.7	3.51	10.5	1.82

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Alpha	SCAQC-9085-LCB	SCAQC-9085-LD1		SCAQC-9085-PB1

Radioanalytical Results

Report Identification Number: 59087_9115

Project Name:	OTIE - TN&A	Chain-of-Custody Number:		Matrix:	Water
Site Sample ID:	OP-0905010				
Other Sample ID:		Collection Date:	5/26/2009 2:00:00 PM	Date Received:	5/27/2009 11:15:00
		Batch Number:	9085	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
SM 7110C	ALPHA	OTI09-9085-12	07/01/09 15:07	20.0	3.25	10.5	1.49

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Alpha	SCAQC-9085-LCB	SCAQC-9085-LD1		SCAQC-9085-PB1

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Radioanalytical Results

Report Identification Number: S9087_9115

Project Name: OTIE - TN&A	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: CP-0905011			
Other Sample ID:	Collection Date: 5/26/2009 2:45:00 PM	Date Received:	5/27/2009 11:15:00
	Batch Number: 9085	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
SM 7110C	ALPHA	OTI09-9085-13	07/01/09 15:07	58.8	6.06	30.5	1.68

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Alpha	SCAQC-9085-LCB	SCAQC-9085-LD1		SCAQC-9085-PB1

Radioanalytical Results

Report Identification Number: S9087_9115

Project Name:	OTIE - Th&A	Chain-of-Custody Number:		Matrix:	Water
Site Sample ID:	CP-0905012				
Other Sample ID:		Collection Date:	5/28/2009 3:00:00 PM	Date Received:	6/27/2009 11:15:00
		Batch Number:	9085	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
SM 7110C	ALPHA	OTI09-9085-14	07/01/09 16:48	49.4	5.58	25.3	1.86

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Alpha	SCAQC-9085-LCB	SCAQC-9085-LD1		SCAQC-9085-PB1

Radioanalytical Results

Report Identification Number: S9067_9115

Project Name: OTIE - TN&A	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: OP-0905009			
Other Sample ID:	Collection Date: 5/26/2009 1:45:00 PM	Date Received:	5/27/2009 11:15:00
	Batch Number: 9115	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
SM 7500-U C(m)	U-233/234	OTI09-9115-01	06/26/09 16:46	24.6	2.56	5.55	0.067
SM 7500-U C(m)	U-235	OTI09-9115-01	06/26/09 16:46	1.34	0.391	0.580	0.124
SM 7500-U C(m)	U-238	OTI09-9115-01	06/26/09 16:46	25.4	2.63	5.71	0.067

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
U	SCAQC-9115-LC1	SCAQC-9115-LD1		SCAQC-9115-PB1

Radioanalytical Results

Report Identification Number: S9067_9115

Project Name: OTIE - TN&A	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: OP-0905010			
Other Sample ID:	Collection Date: 5/26/2009 2:00:00 PM	Date Received:	5/27/2009 11:15:00
	Batch Number: 9115	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
SM 7500-U C(m)	U-233/234	OTI09-9115-02	06/26/09 16:44	19.0	1.94	4.27	0.093
SM 7500-U C(m)	U-235	OTI09-9115-02	06/26/09 16:44	0.745	0.274	0.354	0.065
SM 7500-U C(m)	U-238	OTI09-9115-02	06/26/09 16:44	19.1	1.94	4.28	0.063

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
U	SCAQC-9115-LC1	SCAQC-9115-LD1		SCAQC-9115-PB1

Radioanalytical Results

Quality Control Sample
Laboratory Control (LC1)

Report Identification Number: S9067_9115

Project Name:	QTIE - TN&A	Chain-of-Custody Number:	None	Matrix:	Water
Site Sample ID:	N/A				
Other Sample ID:	LC1	Collection Date:	5/27/2009 11:15:00 AM	Date Received:	5/27/2009 11:15:00
				Laboratory Code:	SDA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
EPA 900.0	BETA	SCAQC-9067-LC1B	06/26/09 15:59	14.6	1.70	4.70	1.00
ACW03	U-233/234	SCAQC-9067-LC1	06/24/09 16:56	4.80	0.694	1.18	0.050
ACW03	U-238	SCAQC-9067-LC1	06/24/09 16:56	4.82	0.696	1.19	0.028
EPA 903.1	RA-226	SCAQC-9067-LC1	06/03/09 17:30	12.1	0.754	3.72	0.371
EPA 904.0	RA-228	SCAQC-9067-LC1	06/02/09 17:28	6.89	1.00	2.30	0.704

Quality Control Samples				
Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Beta	SCAQC-9067-LC1B	SCAQC-9067-LD1		SCAQC-9067-PB1B
Ra	SCAQC-9067-LC1	SCAQC-9067-LD1	SCAQC-9067-MS1	SCAQC-9067-PB
U	SCAQC-9067-LC1	SCAQC-9067-LD1		SCAQC-9067-PB1

Radioanalytical Results

Quality Control Sample
Laboratory Control (LC1)

Report Identification Number: 09067_9115

Project Name:	QTIE - TN&A	Chain-of-Custody Number:	None	Matrix:	Water
Site Sample ID:	N/A				
Other Sample ID:	LC1	Collection Date:	5/27/2009 11:15:00 AM	Date Received:	5/27/2009 11:15:00
				Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
SM 7110C	ALPHA	SCAQC-9085-LCB	06/10/09 09:52	14.7	3.01	7.95	1.80

Quality Control Samples				
Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Alpha	SCAQC-9085-LCB	SCAQC-9085-LD1		SCAQC-9085-PB1

Radioanalytical Results

Quality Control Sample
Laboratory Control (LC1)

Report Identification Number: S9067_9115

Project Name:	QTIE - TN&A	Chain-of-Custody Number:	None	Matrix:	Water
Site Sample ID:	N/A				
Other Sample ID:	LC1	Collection Date:	5/27/2009 11:15:00 AM	Date Received:	5/27/2009 11:15:00
				Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
SM 7500-U C(m)	U-233/234	SCAQC-9115-LC1	06/26/09 16:46	3.93	0.424	0.893	0.014
SM 7500-U C(m)	U-238	SCAQC-9115-LC1	06/26/09 16:46	3.98	0.428	0.903	0.014

Quality Control Samples				
Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
U	SCAQC-9115-LC1	SCAQC-9115-LD1		SCAQC-9115-PB1

Radioanalytical Results

Quality Control Sample
Duplicate (LD1)

Report Identification Number: S9067_9115

Project Name: OTIE - TN&A
Site Sample ID: CP-0906316
Other Sample ID: LD1
Chain-of-Custody Number:
Collection Date: 5/26/2009 8:45:00 AM
Matrix: Water
Date Received: 5/27/2009 11:15:00
Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
EPA 903.1	RA-226	SCAQC-9067-LD1	06/03/09 13:37	0.287	0.266	0.278	0.423
EPA 904.0	RA-228	SCAQC-9067-LD1	06/02/09 16:13	0.432	0.392	0.413	0.615

Laboratory Samples for Duplicates

Radionuclide	Laboratory Sample ID	Duplicate of Sample ID
RA-226	SCAQC-9067-LD1	DTI09-9067-02
RA-228	SCAQC-9067-LD1	DTI09-9067-02

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Ra	SCAQC-9067-LC1	SCAQC-9067-LD1	SCAQC-9067-MS1	SCAQC-9067-PB

Radioanalytical Results

Quality Control Sample
Duplicate (LD1)

Report Identification Number: 59087_9115

Project Name: OTIE - TNBA	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: CP-0905019			
Other Sample ID: LD1	Collection Date: 5/26/2009 9:30:00 AM	Date Received:	5/27/2009 11:15:00
		Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
SM 7110C	ALPHA	SCAQC-9085-LD1	06/19/09 17:15	24.8	4.03	13.0	2.39

Laboratory Samples for Duplicates

Radionuclide	Laboratory Sample ID	Duplicate of Sample ID
ALPHA	SCAQC-9085-LD1	OTI09-9085-03

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Alpha	SCAQC-9085-LCB	SCAQC-9085-LD1		SCAQC-9085-PB1

Radioanalytical Results

Quality Control Sample
Duplicate (LD1)

Report Identification Number: S9067_9115

Project Name:	OTIE - TNSA	Chain-of-Custody Number:		Matrix:	Water
Site Sample ID:	CP-0905927				
Other Sample ID:	LD1	Collection Date:	5/26/2009 3:15:00 PM	Date Received:	5/27/2009 11:15:00
				Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
EPA 900.0	ALPHA	SCAQC-9067-LD1	06/21/09 08:43	-0.041	0.800	0.800	1.58
EPA 900.0	BETA	SCAQC-9067-LD1	06/26/09 13:32	-0.075	0.590	0.590	1.06

Laboratory Samples for Duplicates

Radionuclide	Laboratory Sample ID	Duplicate of Sample ID
ALPHA	SCAQC-9067-LD1	OTI09-9067-15
BETA	SCAQC-9067-LD1	OTI09-9067-15B

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Alpha		SCAQC-9067-LD1		SCAQC-9067-PB1
Beta	SCAQC-9067-LC1B	SCAQC-9067-LD1		SCAQC-9067-PB1B

Radioanalytical Results

Quality Control Sample
Duplicate (LD1)

Report Identification Number: S9067_9115

Project Name:	OTIE - TN&A	Chain-of-Custody Number:	Matrix: Water
Site Sample ID:	CP-0905015		
Other Sample ID:	LD1	Collection Date: 5/26/2009 8:30:00 AM	Date Received: 5/27/2009 11:15:00
			Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
ACW03	U-233/234	SCAQC-9067-LD1	06/24/09 16:56	38.6	4.60	8.99	0.090
ACW03	U-235	SCAQC-9067-LD1	06/24/09 16:56	1.67	0.550	0.745	0.110
ACW03	U-238	SCAQC-9067-LD1	06/24/09 16:56	36.5	4.38	8.51	0.089

Laboratory Samples for Duplicates

Radionuclide	Laboratory Sample ID	Duplicate of Sample ID
U-234	SCAQC-9067-LD1	OTI09-9067-01
U-235	SCAQC-9067-LD1	OTI09-9067-01
U-238	SCAQC-9067-LD1	OTI09-9067-01

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
U	SCAQC-9067-LC1	SCAQC-9067-LD1		SCAQC-9067-PB1

Radioanalytical Results

Quality Control Sample
Duplicate (LD1)

Report Identification Number: 59067_9115

Project Name:	OTIE - TNSA	Chain-of-Custody Number:		Matrix:	Water
Site Sample ID:	CP-0905009				
Other Sample ID:	LD1	Collection Date:	5/26/2009 1:45:00 PM	Date Received:	5/27/2009 11:15:00
				Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
SM 7500-U C(m)	U-233/234	SCAQC-9115-LD1	06/26/09 16:45	23.9	2.48	5.38	0.056
SM 7500-U C(m)	U-235	SCAQC-9115-LD1	06/26/09 16:45	1.36	0.396	0.568	0.072
SM 7500-U C(m)	U-238	SCAQC-9115-LD1	06/26/09 16:45	24.6	2.54	5.53	0.103

Laboratory Samples for Duplicates

Radionuclide	Laboratory Sample ID	Duplicate of Sample ID
U-234	SCAQC-9115-LD1	OTI09-9115-01
U-235	SCAQC-9115-LD1	OTI09-9115-01
U-238	SCAQC-9115-LD1	OTI09-9115-01

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
U	SCAQC-9115-LC1	SCAQC-9115-LD1		SCAQC-9115-PB1

Radioanalytical Results

Quality Control Sample
Matrix Spike (MS1)

Report Identification Number: S9067_9115

Project Name:	QTE - TN&A	Chain-of-Custody Number:	None	Matrix:	Water
Site Sample ID:	GP-0908019				
Other Sample ID:	MS1	Collection Date:	5/26/2009 9:30:00 AM	Date Received:	5/27/2009 11:15:00
				Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
EPA 903.1	RA-226	SCAQC-9067-MS1	06/03/09 17:30	12.7	0.788	3.90	0.378
EPA 904.0	RA-228	SCAQC-9067-MS1	06/02/09 16:13	7.15	0.908	2.33	0.597

Quality Control Samples				
Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Ra	SCAQC-9067-LC1	SCAQC-9067-LD1	SCAQC-9067-MS1	SCAQC-9067-PB

Radioanalytical Results

Quality Control Sample
Preparation Blank (PB)

Report Identification Number: S9067_9115

Project Name: OTIE - TNSA
Site Sample ID: NA
Other Sample ID: PB
Chain-of-Custody Number: None
Collection Date: 5/27/2009 11:15:00 AM
Matrix: Water
Date Received: 5/27/2009 11:15:00
Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
EPA 900.0	ALPHA	SCAQC-9067-PB1	06/21/09 08:43	-0.147	0.886	0.889	1.67
EPA 900.0	BETA	SCAQC-9067-PB1B	06/25/09 16:52	-0.147	0.255	0.259	0.415
ACW03	U-233/234	SCAQC-9067-PB1	06/24/09 16:56	0.060	0.085	0.086	0.081
ACW03	U-235	SCAQC-9067-PB1	06/24/09 16:56	0.000	0.000	0.135	0.100
ACW03	U-238	SCAQC-9067-PB1	06/24/09 16:56	0.060	0.084	0.085	0.081
EPA 903.1	RA-226	SCAQC-9067-PB	06/03/09 13:37	0.118	0.266	0.269	0.451
EPA 904.0	RA-228	SCAQC-9067-PB	06/02/09 16:12	0.394	0.358	0.377	0.557

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Alpha		SCAQC-9067-LD1		SCAQC-9067-PB1
Beta	SCAQC-9067-LC1B	SCAQC-9067-LD1		SCAQC-9067-PB1B
Ra	SCAQC-9067-LC1	SCAQC-9067-LD1	SCAQC-9067-MS1	SCAQC-9067-PB
U	SCAQC-9067-LC1	SCAQC-9067-LD1		SCAQC-9067-PB1

Radioanalytical Results

Quality Control Sample
Preparation Blank (PB)

Report Identification Number: S9067_9115

Project Name:	DTE - TN&A	Chain-of-Custody Number:	None	Matrix:	Water
Site Sample ID:	N/A				
Other Sample ID:	PB	Collection Date:	5/27/2009 11:15:00 AM	Date Received:	5/27/2009 11:15:00
				Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
SM 7110C	ALPHA	SCAQC-9085-PB1	06/19/09 17:14	0.760	1.37	1.42	2.36

Quality Control Samples				
Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Alpha	SCAQC-9085-LCB	SCAQC-9085-LD1		SCAQC-9085-PB1

Radioanalytical Results

Quality Control Sample
Preparation Blank (PB)

Report Identification Number: S9067_9115

Project Name:	OTIE - TNAA	Chain-of-Custody Number:	None	Matrix:	Water
Site Sample ID:	NA				
Other Sample ID:	PB	Collection Date:	5/27/2009 11:15:00 AM	Date Received:	5/27/2009 11:15:00
				Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
SM 7500-U C(m)	U-233/234	SCAQC-9115-PB1	06/26/09 16:45	0.045	0.063	0.064	0.061
SM 7500-U C(m)	U-235	SCAQC-9115-PB1	06/26/09 16:45	0.000	0.000	0.135	0.075
SM 7500-U C(m)	U-238	SCAQC-9115-PB1	06/26/09 16:45	0.067	0.077	0.078	0.060

Quality Control Samples				
Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
U	SCAQC-9115-LC1	SCAQC-9115-LD1		SCAQC-9115-PB1

Radioanalytical Results

Quality Control Sample Evaluation

Report Identification Number: S9067_9115

Project Name: OTIE - TN&A
Matrix: Water
Laboratory Code: SCA

Laboratory Contol Sample (LC1) Evaluation

Method Number	Radionuclide	Laboratory Sample ID	(DV) Decay Corrected Activity of Spike Added (pCi/L)	(DV) Laboratory Control Sample Activity (pCi/L)	Laboratory Control Sample % Recovery (Accuracy)	Number of σ Between CV and DV
SM 7110C	ALPHA	SCAQC-9085-LC8	15.0 ± 0.450	14.7 ± 7.95	98.2	0.049
EPA 900.0	BETA	SCAQC-9067-LC1B	17.3 ± 0.389	14.6 ± 4.70	84.2	0.848
ACW03	U-233/234	SCAQC-9067-LC1	4.09 ± 0.025	4.80 ± 1.18	117	0.929
ACW03	U-238	SCAQC-9067-LC1	4.09 ± 0.025	4.82 ± 1.19	118	0.957
SM 7500-U C(m)	U-233/234	SCAQC-9115-LC1	4.09 ± 0.025	3.93 ± 0.893	96.0	0.275
SM 7500-U C(m)	U-238	SCAQC-9115-LC1	4.09 ± 0.025	3.98 ± 0.903	97.2	0.191
EPA 903.1	RA-226	SCAQC-9067-LC1	11.2 ± 0.134	12.1 ± 3.72	108	0.358
EPA 904.0	RA-228	SCAQC-9067-LC1	7.19 ± 0.288	6.89 ± 2.30	95.8	0.194

Matrix Spike Sample (MS1) Evaluation

Method Number	Radionuclide	Laboratory Sample ID	(DV) Decay Corrected Activity of Spike Added (pCi/L)	Matrix Spike Sample Activity (pCi/L)	(DV) Native Sample Activity (pCi/L)	Matrix Spike Sample % Recovery (Accuracy)	Number of σ Between CV and DV
EPA 903.1	RA-226	SCAQC-9067-MS1	11.2 ± 0.134	12.7 ± 3.90	1.27 ± 0.548	102	0.560
EPA 904.0	RA-228	SCAQC-9067-MS1	7.19 ± 0.288	7.15 ± 2.33	0.833 ± 0.488	90.5	0.029

Laboratory Duplicate Sample (LD1) Evaluation

Method Number	Radionuclide	Laboratory Sample ID	Original Sample Activity (pCi/L)	Duplicate Sample Activity (pCi/L)	Difference Between Original Activity and Duplicate Sample Activity (P)	Ratio of the Difference Between the Sample Activity and the Propagated Measurement at 1 σ (E/E)
SM 7110C	ALPHA	SCAQC-9085-LD1	20.9 ± 11.1	24.8 ± 13.0	3.82	0.448
EPA 900.0	ALPHA	SCAQC-9067-LD1	0.046 ± 0.773	-0.041 ± 0.600	0.087	0.157
EPA 900.0	BETA	SCAQC-9067-LD1	0.590 ± 0.703	-0.075 ± 0.590	0.665	1.46
ACW03	U-233/234	SCAQC-9067-LD1	35.4 ± 8.19	38.6 ± 8.99	3.24	0.533
ACW03	U-235	SCAQC-9067-LD1	1.59 ± 0.710	1.67 ± 0.745	0.085	0.165
ACW03	U-238	SCAQC-9067-LD1	37.6 ± 8.67	38.5 ± 8.61	1.08	0.178
SM 7500-U C(	U-233/234	SCAQC-9115-LD1	24.6 ± 5.55	23.9 ± 5.38	0.730	0.189
SM 7500-U C(	U-235	SCAQC-9115-LD1	1.34 ± 0.560	1.36 ± 0.568	0.019	0.048
SM 7500-U C(	U-238	SCAQC-9115-LD1	25.4 ± 5.71	24.6 ± 5.53	0.780	0.196
EPA 903.1	RA-226	SCAQC-9067-LD1	0.209 ± 0.286	0.287 ± 0.278	0.078	0.392
EPA 904.0	RA-228	SCAQC-9067-LD1	0.166 ± 0.362	0.432 ± 0.413	0.265	0.967

GPL Laboratories Alabama, LLC

Radioanalytical Results

Quality Control Tracer Yield

Report Identification Number: S9067_9115

Project Name: OTIE - TN&A

Laboratory Code: SGS

Laboratory Sample ID	U-232
OTI09-9067-01	90.66
OTI09-9067-01C	90.66
OTI09-9067-02	86.38
OTI09-9067-02B	86.38
OTI09-9067-03	72.19
OTI09-9067-03B	72.19
OTI09-9067-04	75.90
OTI09-9067-04B	75.90
OTI09-9067-05	69.28
OTI09-9067-05B	69.28
OTI09-9067-06	67.75
OTI09-9067-06B	67.75
OTI09-9067-11	0.33
OTI09-9067-11B	0.33
OTI09-9067-12	0.35
OTI09-9067-12B	0.35
OTI09-9115-01	85.48
OTI09-9115-02	102.08
SCAQC-9067-LC1	72.45
SCAQC-9067-LC1	72.45
SCAQC-9067-LD1	83.04
SCAQC-9067-PB	93.12
SCAQC-9067-PB1	93.12
SCAQC-9067-PB1	93.12
SCAQC-9115-LC1	87.41
SCAQC-9115-LD1	85.58
SCAQC-9115-PB1	85.40

Radioanalytical Results

Quality Control Chemical Recovery

Report Identification Number: 59067_9115

Project Name: OTIE - TN&A

Laboratory Code: SCA

Laboratory Sample ID	Ra-226
OTI09-9067-01	129.51
OTI09-9067-01C	129.51
OTI09-9067-02	129.51
OTI09-9067-02B	129.51
OTI09-9067-03	129.51
OTI09-9067-03B	129.51
OTI09-9067-04	129.51
OTI09-9067-04B	129.51
OTI09-9067-05	129.51
OTI09-9067-05B	129.51
OTI09-9067-06	129.51
OTI09-9067-06B	129.51
OTI09-9067-07	129.51
OTI09-9067-07B	129.51
OTI09-9067-08	129.51
OTI09-9067-08B	129.51
OTI09-9067-09	129.51
OTI09-9067-09B	129.51
OTI09-9067-10	129.51
OTI09-9067-10B	129.51
OTI09-9067-11	129.51
OTI09-9067-11B	129.51
OTI09-9067-12	129.51
OTI09-9067-12B	129.51
OTI09-9067-13	129.51
OTI09-9067-13B	129.51
OTI09-9067-14	129.51
OTI09-9067-14B	129.51
OTI09-9067-15	129.51
OTI09-9067-15B	129.51
SCAQC-9067-LC1	129.51
SCAQC-9067-LC1	129.51

Radioanalytical Results

Quality Control Chemical Recovery

Report Identification Number: 59087_9115

Project Name: OTIE - TNSA

Laboratory Code: SCA

Laboratory Sample ID	Ra-226
SCAQC-9067-LD1	129.51
SCAQC-9067-MS1	129.51
SCAQC-9067-PB	129.51
SCAQC-9067-PB1	129.51
SCAQC-9067-PB1	129.51

GPL
LABORATORIES

July 1, 2009

Ms. Ewelina Mutkowska
OTIE- TN&A
317 E. Main St
Ventura, CA 93001

Dear Ms. Mutkowska:

On May 28, 2009, 13 water samples were received for analysis at the GPL Laboratories Alabama, LLC. The samples were assigned Laboratory Report Identification Code 9068_9089. Enclosed is the Sample Data Package containing the radioanalytical results of the sample.

If you have any questions please do not hesitate to call.

Sincerely,

Richard Turner
Laboratory Director

COVER PAGE

GPL Laboratories Alabama, LLC
1000 Monticello Court
Montgomery, Alabama 36117

NELAC Certification ID: NLC080001 (AL001)

Laboratory Report Identification Code: 9068

Sample Matrix: Water

Site Sample Number	Laboratory Sample Number
CP-0905005	OTI09-9068-01 OTI09-9089-01
CP-0905006	OTI09-9068-02 OTI09-9089-02
CP-0905001	OTI09-9068-03 OTI09-9089-03
CP-0905002	OTI09-9068-04 OTI09-9089-04
CP-0905023	OTI09-9068-05 OTI09-9089-05
CP-0905024	OTI09-9068-06 OTI09-9089-06
CP-0905013	OTI09-9068-07 OTI09-9089-07
CP-0905014	OTI09-9068-08 OTI09-9089-08
CP-0905017	OTI09-9068-09 OTI09-9089-09
CP-0905018	OTI09-9068-10 OTI09-9089-10
CP-0905021	OTI09-9068-11 OTI09-9089-11
CP-0905022	OTI09-9068-12 OTI09-9089-12
CP-0905028	OTI09-9068-13 OTI09-9089-13

COVER PAGE(continued)

GPL Laboratories Alabama, LLC
1000 Monticello Court
Montgomery, Alabama 36117

NELAC Certification ID: NLC080001 (AL001)

Laboratory Report Identification Code: 9068_9089

Comments: There were no problems encountered during sample receiving.

"I certify that this sample data package is in compliance with contract requirements, both technically and for completeness. Release of the data contained in this hard-copy sample data package has been authorized by the Laboratory Director or the Laboratory Director designee, as verified by the following signature."

Signature

Richard Turner	Laboratory Director	07/01/2009
Name	Title	Date

CASE NARRATIVE

Laboratory Report Identification Number: 9068_9089

NELAC Certification ID: NLC080001 (AL001)

July 1, 2009

I. Introduction

On May 28, 2009, 13 water samples were received for analysis at the GPL Laboratories Alabama, LLC located in Montgomery, Alabama. The samples were analyzed in accordance with the GPL Laboratory Quality Assurance Plan.

The data in this report meets all NELAC requirements unless otherwise stated.

II. Analytical Methodology

The radioanalytical results reported for the sample include the site and laboratory sample identification numbers, collection date, method of analysis, and the quality control samples that were analyzed concurrently. The samples were analyzed by the following methods.

Radionuclide	Method Number	Method Name	Counting Method
Co-Precipitation	SM711C	Gross Alpha Radioactivity	Gas Proportional Counting
Gross Alpha (U)	EPA 900.0	Gross Alpha Radioactivity	Gas Proportional Counting
Gross Beta	EPA 900.0	Gross Beta Radioactivity	Gas Proportional Counting
Ra-226	EPA 903.1	Radium-226 Radon Emanation Technique	Radon Flask/Scaler
Ra-228	EPA 904.0	Radium-228	Gas Proportional Counting
Uranium	ACW03	Eichrom Industries Extraction Chromatography	Alpha Spectrometry

III. Analytical Results

Deficiencies

See *"Re-analysis"* section.

Matrix Interferences

There were no indications of matrix interference.

Detection Limits

The required detection limits (RDLs) were met for all sample analyses.

Re-analysis

Upon further review of the package, the gross alpha detection limits were not met for some of the samples. Those samples were recounted at longer times to achieve detection limits.

Deviations from Protocols

There were no deviations from the written protocols and analytical methods.

Contacts with the Technical Representative

There was no contact with the Technical Representative regarding these samples.

IV. Quality Control

The analytical results of all quality control samples met the acceptance criteria specified in the GPL Laboratory Quality Assurance Plan.

GPL Laboratories Alabama, LLC

Radioanalytical Results

Report Identification Number: S9068_9089

Project Name: OTIE - TN&A	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: CP-0905005			
Other Sample ID:	Collection Date: 5/27/2009 11:45:00 AM	Date Received:	5/28/2009 8:45:00
	Batch Number: 9068	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
EPA 900.0	BETA	OTI09-9068-01B	06/24/09 18:19	21.6	1.52	6.67	1.37
ACW03	U-233/234	OTI09-9068-01	06/24/09 16:59	29.2	2.77	6.48	0.110
ACW03	U-235	OTI09-9068-01	06/24/09 16:59	1.23	0.362	0.517	0.136
ACW03	U-238	OTI09-9068-01	06/24/09 16:59	28.0	2.68	6.20	0.053
EPA 903.1	RA-226	OTI09-9068-01	06/09/09 18:35	2.04	0.383	0.722	0.420
EPA 904.0	RA-228	OTI09-9068-01	06/03/09 17:40	0.547	0.378	0.412	0.562

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Beta	SCAQC-9068-LCB	SCAQC-9068-LD1		SCAQC-9068-PB1
Ra	SCAQC-9068-LC1	SCAQC-9068-LD1	SCAQC-9068-MS1	SCAQC-9068-PB
U	SCAQC-9067-LC1	SCAQC-9067-LD1		SCAQC-9067-PB1

GPL Laboratories Alabama, LLC

Radioanalytical Results

Report Identification Number: S9068_9089

Project Name: OTIE - TM&A	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: CP-0905006			
Other Sample ID:	Collection Date: 5/27/2009 12:00:00 PM	Data Received:	5/28/2009 8:45:00
	Batch Number: 9068	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
EPA 900.0	BETA	OT09-9068-02B	06/24/09 18:19	12.2	1.61	4.00	1.92
ACW03	U-233/234	OT09-9068-02	06/24/09 17:00	30.1	3.05	6.74	0.062
ACW03	U-235	OT09-9068-02	06/24/09 17:00	1.24	0.387	0.539	0.076
ACW03	U-238	OT09-9068-02	06/24/09 17:00	28.9	2.94	6.49	0.061
EPA 903.1	RA-226	OT09-9068-02	06/09/09 18:35	4.44	0.504	1.42	0.431
EPA 904.0	RA-228	OT09-9068-02	06/03/09 17:41	0.293	0.345	0.356	0.661

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Beta	SCAQC-9068-LC8	SCAQC-9068-LD1		SCAQC-9068-PB1
Ra	SCAQC-9068-LC1	SCAQC-9068-LD1	SCAQC-9068-MS1	SCAQC-9068-PB
U	SCAQC-9067-LC1	SCAQC-9067-LD1		SCAQC-9067-PB1

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Radioanalytical Results

Report Identification Number: S9068_9089

Project Name: OTIE - TN&A	Chain-of-Custody Number:	Matrix: Water	
Site Sample ID: CP-0905001			
Other Sample ID:	Collection Date: 5/27/2009 8:00:00 AM	Date Received:	5/28/2009 8:45:00
	Batch Number: 9068	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
EPA 900.0	BETA	OTI09-9068-03B	06/24/09 18:20	6.33	0.899	2.10	1.15
EPA 903.1	RA-226	OTI09-9068-03	06/09/09 20:07	4.88	0.524	1.66	0.448
EPA 904.0	RA-228	OTI09-9068-03	06/03/09 17:40	2.20	0.547	0.867	0.568

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Beta	SCAQC-9068-LCB	SCAQC-9068-LD1		SCAQC-9068-PB1
Ra	SCAQC-9068-LC1	SCAQC-9068-LD1	SCAQC-9068-MS1	SCAQC-9068-PB

Radioanalytical Results

Report Identification Number: S9068_9089

Project Name:	OTIE - TN&A	Chain-of-Custody Number:		Matrix:	Water
Site Sample ID:	CP-0905002				
Other Sample ID:		Collection Date:	5/27/2009 8:15:00 AM	Date Received:	5/28/2009 8:45:00
		Batch Number:	9068	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
EPA 900.0	BETA	OTI09-9068-04B	06/24/09 18:20	6.52	0.858	2.14	1.06
EPA 903.1	RA-226	OTI09-9068-04	06/09/09 20:07	5.81	0.550	1.74	0.380
EPA 904.0	RA-228	OTI09-9068-04	06/04/09 13:25	4.46	0.738	1.53	0.599

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Beta	SCAQC-9068-LCB	SCAQC-9068-LD1		SCAQC-9068-PB1
Ra	SCAQC-9068-LC1	SCAQC-9068-LD1	SCAQC-9068-MS1	SCAQC-9068-PB

Radioanalytical Results

Report Identification Number: 59068_9089

Project Name: OTIE - TN&A	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: DP-0905003			
Other Sample ID:	Collection Date: 5/27/2009 8:30:00 AM	Date Received:	5/28/2009 8:45:00
	Batch Number: 9068	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
EPA 900.0	BETA	OT09-9068-05B	06/24/09 18:21	5.93	0.869	1.98	1.13
EPA 903.1	RA-226	OT09-9068-05	06/10/09 13:48	5.55	0.550	1.75	0.424
EPA 904.0	RA-228	OT09-9068-05	06/04/09 13:25	4.86	0.782	1.88	0.569

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Beta	SCAQC-9068-LCB	SCAQC-9068-LD1		SCAQC-9068-PB1
Ra	SCAQC-9068-LC1	SCAQC-9068-LD1	SCAQC-9068-MS1	SCAQC-9068-PB

Radioanalytical Results

Report Identification Number: S9068_9089

Project Name: OTIE - TN&A	Chain-of-Custody Number:	Matrix: Water	
Site Sample ID: CP-09050024			
Other Sample ID:	Collection Date: 5/27/2009 8:45:00 AM	Date Received:	5/28/2009 8:45:00
	Batch Number: 9068	Laboratory Code:	GCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
EPA 900.0	BETA	OTI09-9068-06B	06/23/09 18:18	5.03	0.787	1.70	1.04
EPA 903.1	RA-226	OTI09-9068-06	06/10/09 13:46	6.29	0.592	1.98	0.426
EPA 904.0	RA-228	OTI09-9068-06	06/04/09 13:25	4.07	0.722	1.42	0.839

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Beta	SCAQC-9068-LCB	SCAQC-9068-LD1		SCAQC-9068-PB1
Ra	SCAQC-9068-LC1	SCAQC-9068-LD1	SCAQC-9068-MS1	SCAQC-9068-PB

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Radioanalytical Results

Report Identification Number: S9068_9068

Project Name: OTIE - TN&A	Chain-of-Custody Number:	Matrix: Water	
Site Sample ID: CP-09050113			
Other Sample ID:	Collection Date: 5/27/2009 11:00:00 AM	Date Received:	5/28/2009 8:45:00
	Batch Number: 9068	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
EPA 900.0	BETA	OT109-9068-07B	06/23/09 18:18	26.5	1.74	8.12	1.54
ACW03	U-233/234	OT109-9068-07	06/24/09 17:00	28.8	2.83	6.42	0.057
ACW03	U-238	OT109-9068-07	06/24/09 17:00	1.14	0.356	0.492	0.070
ACW03	U-238	OT109-9068-07	06/24/09 17:00	26.6	2.55	5.70	0.118
EPA 903.1	RA-226	OT109-9068-07	06/10/09 13:46	1.30	0.353	0.535	0.471
EPA 904.0	RA-228	OT109-9068-07	06/04/09 13:26	1.60	0.489	0.685	0.538

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Beta	SCAQC-9068-LC9	SCAQC-9068-LD1		SCAQC-9068-PB1
Ra	SCAQC-9068-LC1	SCAQC-9068-LD1	SCAQC-9068-MS1	SCAQC-9068-PB
U	SCAQC-9067-LC1	SCAQC-9067-LD1		SCAQC-9067-PB1

Radioanalytical Results

Report Identification Number: S9068_9069

Project Name: OTIE - TN&A	Chain-of-Custody Number:	Matrix: Water	
Site Sample ID: GP-2005014			
Other Sample ID:	Collection Date: 5/27/2009 11:15:00 AM	Date Received:	5/28/2009 8:45:00
	Batch Number: 9068	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
EPA 900.0	BETA	OT09-9068-08B	06/24/09 18:21	19.2	1.42	6.84	1.38
ACW03	U-233/234	OT09-9068-08	06/24/09 17:00	29.9	2.78	6.59	0.054
ACW03	U-235	OT09-9068-08	06/24/09 17:00	1.22	0.357	0.511	0.066
ACW03	U-238	OT09-9068-08	06/24/09 17:00	27.1	2.56	6.99	0.053
EPA 903.1	RA-226	OT09-9068-08	06/10/09 13:48	0.775	0.304	0.383	0.435
EPA 904.0	RA-228	OT09-9068-08	06/04/09 13:26	2.14	0.556	0.849	0.593

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Beta	SCAQC-9068-LC9	SCAQC-9068-LD1		SCAQC-9068-PB1
Ra	SCAQC-9068-LC1	SCAQC-9068-LD1	SCAQC-9068-MS1	SCAQC-9068-PB
U	SCAQC-9067-LC1	SCAQC-9067-LD1		SCAQC-9067-PB1

Radioanalytical Results

Report Identification Number: S9068_9069

Project Name: OTIE - TN&A	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: CP-0905217			
Other Sample ID:	Collection Date: 5/27/2009 9:30:00 AM	Date Received:	5/28/2009 8:45:00
	Batch Number: 9068	Laboratory Code:	SGA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
EPA 900.0	BETA	OTI09-9068-09B	06/23/09 15:19	0.375	0.630	0.645	1.03
ACW03	U-233/234	OTI09-9068-09	06/24/09 17:00	20.5	2.22	4.67	0.062
ACW03	U-235	OTI09-9068-09	06/24/09 17:00	0.852	0.319	0.409	0.077
ACW03	U-238	OTI09-9068-09	06/24/09 17:00	17.8	1.98	4.07	0.062
EPA 903.1	RA-226	OTI09-9068-09	06/10/09 14:53	2.14	0.368	0.736	0.306
EPA 904.0	RA-228	OTI09-9068-09	06/04/09 13:27	2.51	0.594	0.960	0.597

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Beta	SCAQC-9068-LCB	SCAQC-9068-LD1		SCAQC-9068-PB1
Ra	SCAQC-9068-LC1	SCAQC-9068-LD1	SCAQC-9068-MS1	SCAQC-9068-PB
U	SCAQC-9067-LC1	SCAQC-9067-LD1		SCAQC-9067-PB1

Radioanalytical Results

Report Identification Number: 09068_9069

Project Name:	QTIE - TN&A	Chain-of-Custody Number:		Matrix:	Water
Site Sample ID:	CP-0905018				
Other Sample ID:		Collection Date:	5/27/2009 9:45:00 AM	Date Received:	5/28/2009 8:45:00
		Batch Number:	9068	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
EPA 900.0	BETA	QTI09-9068-10B	06/24/09 18:21	7.83	0.807	2.48	0.858
ACW03	U-233/234	QTI09-9068-10	06/24/09 17:00	12.7	1.48	2.93	0.058
ACW03	U-235	QTI09-9068-10	06/24/09 17:00	0.398	0.208	0.340	0.072
ACW03	U-238	QTI09-9068-10	06/24/09 17:00	11.7	1.39	2.72	0.058
EPA 903.1	RA-226	QTI09-9068-10	06/10/09 14:53	0.440	0.304	0.331	0.472
EPA 904.0	RA-228	QTI09-9068-10	06/04/09 13:27	1.64	0.506	0.706	0.577

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Beta	SCAQC-9068-LCB	SCAQC-9068-LD1		SCAQC-9068-PB1
Ra	SCAQC-9068-LC1	SCAQC-9068-LD1	SCAQC-9068-MS1	SCAQC-9068-PB
U	SCAQC-9067-LC1	SCAQC-9067-LD1		SCAQC-9067-PB1

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Radioanalytical Results

Report Identification Number: 59068_9069

Project Name: OTIE - TNSA	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: OP-09050321			
Other Sample ID:	Collection Date: 5/27/2009 12:30:00 PM	Date Received:	5/28/2009 8:45:00
	Batch Number: 9068	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
EPA 900.0	BETA	OTI09-9068-11B	06/23/09 18:19	52.8	2.35	16.0	1.46
ACW03	U-233/234	OTI09-9068-11	06/24/09 17:01	23.8	2.46	5.30	0.061
ACW03	U-235	OTI09-9068-11	06/24/09 17:01	0.996	0.342	0.464	0.075
ACW03	U-238	OTI09-9068-11	06/24/09 17:01	24.1	2.51	5.44	0.060
EPA 903.1	RA-226	OTI09-9068-11	06/10/09 14:53	1.00	0.330	0.446	0.451
EPA 904.0	RA-228	OTI09-9068-11	06/04/09 13:27	2.51	0.592	0.667	0.595

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Beta	SCAQC-9068-LC8	SCAQC-9068-LD1		SCAQC-9068-PB1
Ra	SCAQC-9068-LC1	SCAQC-9068-LD1	SCAQC-9068-MS1	SCAQC-9068-PB
U	SCAQC-9067-LC1	SCAQC-9067-LD1		SCAQC-9067-PB1

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Radioanalytical Results

Report Identification Number: 59068_9069

Project Name: OTIE - TN&A	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: DP-0905022			
Other Sample ID:	Collection Date: 5/27/2009 12:45:00 PM	Date Received:	5/28/2009 8:45:00
	Batch Number: 9068	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
EPA 900.0	BETA	OTI09-9068-12B	06/25/09 16:58	26.7	1.59	8.18	1.38
ACW03	U-233/234	OTI09-9068-12	06/24/09 17:01	18.2	1.94	4.13	0.055
ACW03	U-235	OTI09-9068-12	06/24/09 17:01	0.656	0.283	0.328	0.068
ACW03	U-238	OTI09-9068-12	06/24/09 17:01	18.7	1.98	4.23	0.096
EPA 903.1	RA-226	OTI09-9068-12	06/10/09 14:53	0.662	0.274	0.338	0.364
EPA 904.0	RA-228	OTI09-9068-12	06/04/09 14:00	1.37	0.522	0.664	0.648

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Beta	SCAQC-9068-LCB	SCAQC-9069-LD1		SCAQC-9068-PB1
Ra	SCAQC-9068-LC1	SCAQC-9068-LD1	SCAQC-9068-MS1	SCAQC-9068-PB
U	SCAQC-9067-LC1	SCAQC-9067-LD1		SCAQC-9067-PB1

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Radioanalytical Results

Report Identification Number: S9068_9089

Project Name: OTIE - TN&A
Site Sample ID: OP-0905028
Other Sample ID:
Chain-of-Custody Number:
Collection Date: 5/27/2009 1:15:00 PM
Batch Number: 9068
Matrix: Water
Date Received: 5/28/2009 8:45:00
Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
EPA 900.0	ALPHA	OTI09-9068-13	06/22/09 17:39	-0.469	0.688	0.727	1.18
EPA 900.0	BETA	OTI09-9068-13	06/15/09 15:50	1.25	0.764	0.851	1.10
EPA 903.1	RA-226	OTI09-9068-13	06/10/09 15:50	1.83	0.371	0.662	0.431
EPA 904.0	RA-228	OTI09-9068-13	06/04/09 14:01	1.09	0.511	0.607	0.686

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Alpha		SCAQC-9068-LD1		SCAQC-9068-PB1
Beta	SCAQC-9068-LCB	SCAQC-9068-LD1		SCAQC-9068-PB1
Ra	SCAQC-9068-LC1	SCAQC-9068-LD1	SCAQC-9068-MS1	SCAQC-9068-PB

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Radioanalytical Results

Report Identification Number: S9068_9069

Project Name: CITE - TNSA	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: CP-0905015			
Other Sample ID:	Collection Date: 5/26/2009 8:30:00 AM	Date Received:	5/28/2009 8:45:00
	Batch Number: 9068	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
ACW03	U-233/234	OTI09-9067-01	06/24/09 16:57	35.4	4.12	8.19	0.087
ACW03	U-235	OTI09-9067-01	06/24/09 16:57	1.59	0.526	0.710	0.108
ACW03	U-238	OTI09-9067-01	06/24/09 16:57	37.6	4.33	8.67	0.153

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
U	SCAQC-9067-LC1	SCAQC-9067-LD1		SCAQC-9067-PB1

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Radioanalytical Results

Report Identification Number: S9068_9089

Project Name: OTIE - TN&A	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: OP-0905005			
Other Sample ID:	Collection Date: 5/27/2009 11:45:00 AM	Date Received:	5/28/2009 8:45:00
	Batch Number: 9089	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
SM 7110C	ALPHA	OTI09-9089-01	06/20/09 11:11	32.1	4.31	16.6	2.15

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Alpha	SCAQC-9089-LCB	SCAQC-9089-LD1		SCAQC-9089-PB

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Radioanalytical Results

Report Identification Number: S9068_9089

Project Name: GTIE - TN&A	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: OP-0906006			
Other Sample ID:	Collection Date: 6/27/2009 12:00:00 PM	Date Received:	6/29/2009 8:45:00
	Batch Number: 9089	Laboratory Code:	SCAS

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
SM 7110C	ALPHA	GTI09-9089-02	06/20/09 11:11	30.1	4.04	15.6	1.70

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Alpha	SCAQC-9089-LCS	SCAQC-9089-LD1		SCAQC-9089-PB

Radioanalytical Results

Report Identification Number: 59068_9089

Project Name: OTIE - TN&A	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: CP-0905001			
Other Sample ID:	Collection Date: 5/27/2009 8:00:00 AM	Date Received:	5/28/2009 8:45:00
	Batch Number: 9089	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
SM 7110C	ALPHA	OTI09-9089-03	07/01/09 16:49	35.0	4.34	18.0	1.53

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Alpha	SCAQC-9089-LCB	SCAQC-9089-LD1		SCAQC-9089-PB

Radioanalytical Results

Report Identification Number: 59068_9089

Project Name: OTIE - TNBA	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: CP-09059002			
Other Sample ID:	Collection Date: 5/27/2009 8:15:00 AM	Date Received:	5/28/2009 8:45:00
	Batch Number: 9089	Laboratory Code:	BGA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
SM 7110C	ALPHA	0T109-9089-04	07/01/09 16:49	34.9	4.34	18.0	1.48

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Alpha	SCAQC-9089-LCB	SCAQC-9089-LD1		SCAQC-9089-PB

Radioanalytical Results

Report Identification Number: S9088_9089

Project Name: OTIE - TN&A
Site Sample ID: CP-0905023
Other Sample ID:
Chain-of-Custody Number:
Matrix: Water
Collection Date: 5/27/2009 8:30:00 AM
Batch Number: 9089
Date Received: 5/28/2009 8:45:00
Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
SM 7110C	ALPHA	OT109-9089-05	07/01/09 21:20	26.3	4.04	13.8	1.81

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Alpha	SCAQC-9089-LCB	SCAQC-9089-LD1		SCAQC-9089-PB

Radioanalytical Results

Report Identification Number: S9068_9089

Project Name: CTIE - TN&A	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: CP-0905094			
Other Sample ID:	Collection Date: 5/27/2009 8:45:00 AM	Date Received:	5/28/2009 8:45:00
	Batch Number: 9089	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
SM 7110C	ALPHA	GT109-9089-06	07/01/09 19:37	32.7	4.62	17.0	1.84

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Alpha	SCAQC-9089-LCB	SCAQC-9089-LD1		SCAQC-9089-PB

Radioanalytical Results

Report Identification Number: 59068_9089

Project Name: OTIE - TN&A	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: OP-0905013			
Other Sample ID:	Collection Date: 5/27/2009 11:30:00 AM	Date Received:	5/28/2009 8:45:00
	Batch Number: 9089	Laboratory Code:	SGA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
SM 7110C	ALPHA	OT109-9089-07	06/20/09 15:08	30.1	4.73	15.8	2.83

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Alpha	SCAQC-9089-LCB	SCAQC-9089-LD1		SCAQC-9089-PB

Radioanalytical Results

Report Identification Number: S9068_9089

Project Name: OTIE - TN&A	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: GP-0905014			
Other Sample ID:	Collection Date: 5/27/2009 11:15:00 AM	Date Received:	5/28/2009 8:45:00
	Batch Number: 9089	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
SM 7110C	ALPHA	OTI09-9089-08	06/20/09 15:08	39.3	4.58	20.2	1.90

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Alpha	SCAQC-9089-LCB	SCAQC-9089-LD1		SCAQC-9089-PB

GPL Laboratories Alabama, LLC

Radioanalytical Results

Report Identification Number: S9068_9089

Project Name: QTIE - TNBA	Chain-of-Custody Number:	Matrix:	Water
Site Sample ID: QP-0905017			
Other Sample ID:	Collection Date: 5/27/2009 9:30:00 AM	Date Received:	5/28/2009 8:45:00
	Batch Number: 9089	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
SM 7110C	ALPHA	QTI09-9089-09	06/20/09 15:09	16.9	3.20	9.06	2.14

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Alpha	SCAQC-9089-LCB	SCAQC-9089-LD1		SCAQC-9089-PB

GPL Laboratories Alabama, LLC

Radioanalytical Results

Report Identification Number: S9068_9089

Project Name:	OTIE - TN&A	Chain-of-Custody Number:		Matrix:	Water
Site Sample ID:	CP-0905018				
Other Sample ID:		Collection Date:	5/27/2009 9:45:00 AM	Date Received:	5/29/2009 8:45:00
		Batch Number:	9089	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
SM 7110C	ALPHA	OTI09-9089-10	06/20/09 15:09	13.2	2.70	7.14	1.66

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Alpha	SCAQC-9089-LCB	SCAQC-9089-LD1		SCAQC-9089-PB

GPL Laboratories Alabama, LLC

Radioanalytical Results

Report Identification Number: 59068_9089

Project Name: QTIE - TN&A
Site Sample ID: CP-0905021
Other Sample ID:
Chain-of-Custody Number:
Matrix: Water
Collection Date: 5/27/2009 12:30:00 PM
Batch Number: 9089
Date Received: 5/28/2009 8:45:00
Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
SM 7110C	ALPHA	QTI09-9089-11	07/01/09 19:38	28.3	4.01	14.7	1.62

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Alpha	SCAQC-9089-LCB	SCAQC-9089-LD1		SCAQC-9089-PB

GPL Laboratories Alabama, LLC

Radioanalytical Results

Report Identification Number: S9088_9089

Project Name: OTIE - TN&A	Chain-of-Custody Number:		Matrix: Water
Site Sample ID: CP-0905022			
Other Sample ID:	Collection Date: 5/27/2009 12:45:00 PM	Date Received:	5/28/2009 8:45:00
	Batch Number: 9089	Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
SM 7110C	ALPHA	OTI09-9089-12	07/01/09 19:38	45.0	4.88	23.0	1.45

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Alpha	SCAQC-9089-LCB	SCAQC-9089-LD1		SCAQC-9089-PB

Radioanalytical Results

Quality Control Sample
Laboratory Control (LC1)

Report Identification Number: 59068_9089

Project Name:	QTIE - TNBA	Chain-of-Custody Number:	None	Matrix:	Water
Site Sample ID:	NB				
Other Sample ID:	LC1	Collection Date:	5/28/2009 8:45:00 AM	Date Received:	5/28/2009 8:45:00
				Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
EPA 900.0	BETA	SCAQC-9068-LCB	07/01/09 10:50	18.2	1.91	5.78	0.965
EPA 903.1	RA-226	SCAQC-9068-LC1	06/09/09 20:07	11.2	0.727	3.43	0.431
EPA 904.0	RA-228	SCAQC-9068-LC1	06/03/09 17:38	7.85	0.930	2.53	0.554

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Beta	SCAQC-9068-LCB	SCAQC-9068-LD1		SCAQC-9068-PB1
Ra	SCAQC-9068-LC1	SCAQC-9068-LD1	SCAQC-9068-MS1	SCAQC-9068-PB

Radioanalytical Results

Quality Control Sample
Laboratory Control (LC1)

Report Identification Number: S9068_9089

Project Name: QTIE - TN&A
Site Sample ID: N/A
Other Sample ID: LC1
Chain-of-Custody Number: None
Collection Date: 5/28/2009 8:45:00 AM
Matrix: Water
Date Received: 5/28/2009 8:45:00
Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
SM 7110C	ALPHA	SCAQC-9089-LCB	06/11/09 21:57	17.2	3.13	8.16	1.38

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Alpha	SCAQC-9089-LCB	SCAQC-9089-LD1		SCAQC-9089-PB

Radioanalytical Results

Quality Control Sample
Laboratory Control (LC1)

Report Identification Number: S9068_9069

Project Name:	QTIE - TN&A	Chain-of-Custody Number:	None	Matrix:	Water
Site Sample ID:	N/A				
Other Sample ID:	LC1	Collection Date:	5/27/2009 11:15:00 AM	Date Received:	5/28/2009 8:45:00
				Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
ACW03	U-233/234	SCAQC-9067-LC1	06/24/09 16:56	4.80	0.694	1.18	0.050
ACW03	U-238	SCAQC-9067-LC1	06/24/09 16:56	4.82	0.696	1.19	0.028

Quality Control Samples				
Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
U	SCAQC-9067-LC1	SCAQC-9067-LD1		SCAQC-9067-PB1

Radioanalytical Results

Quality Control Sample
Duplicate (LD1)

Report Identification Number: S9068_9089

Project Name: QTIE - TN&A	Chain-of-Custody Number:	Matrix: Water	
Site Sample ID: CP-0905005			
Other Sample ID: LD1	Collection Date: 5/27/2009 11:45:00 AM	Date Received:	5/28/2009 8:45:00
		Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
EPA 903.1	RA-226	SCAQC-9068-LD1	06/09/09 18:35	2.37	0.394	0.814	0.414
EPA 904.0	RA-228	SCAQC-9068-LD1	06/03/09 17:44	0.718	0.398	0.453	0.663

Laboratory Samples for Duplicates

Radionuclide	Laboratory Sample ID	Duplicate of Sample ID
RA-226	SCAQC-9068-LD1	OTI09-9068-01
RA-228	SCAQC-9068-LD1	OTI09-9068-01

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Ra	SCAQC-9068-LC1	SCAQC-9068-LD1	SCAQC-9068-MS1	SCAQC-9068-PB

Radioanalytical Results

Quality Control Sample
Duplicate (LD1)

Report Identification Number: S9068_9069

Project Name:	QTIE - TN&A	Chain-of-Custody Number:		Matrix:	Water
Site Sample ID:	CP-0809008				
Other Sample ID:	LD1	Collection Date:	5/27/2009 1:15:00 PM	Date Received:	5/28/2009 8:45:00
				Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
EPA 900.0	ALPHA	SCAQC-9068-LD1	06/22/09 17:20	-0.048	0.508	0.508	1.06
EPA 900.0	BETA	SCAQC-9068-LD1	06/15/09 15:49	0.127	0.618	0.617	1.09
EPA 900.0	BETA	SCAQC-9068-LD1	06/22/09 17:20	0.000	0.000	0.135	0.000

Laboratory Samples for Duplicates

Radionuclide	Laboratory Sample ID	Duplicate of Sample ID
ALPHA	SCAQC-9068-LD1	OTI09-9068-13
BETA	SCAQC-9068-LD1	OTI09-9068-13

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Alpha		SCAQC-9068-LD1		SCAQC-9068-PB1
Beta	SCAQC-9068-LCB	SCAQC-9068-LD1		SCAQC-9068-PB1

Radioanalytical Results

Quality Control Sample
Duplicate (LD1)

Report Identification Number: 09068_9089

Project Name:	QTIE - TN&A	Chain-of-Custody Number:	Matrix: Water
Site Sample ID:	CP-0905006		
Other Sample ID:	LD1	Collection Date: 5/27/2009 11:45:00 AM	Date Received: 5/28/2009 8:45:00
			Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
SM 7110C	ALPHA	SCAQC-9089-LD1	06/20/09 11:11	30.8	4.10	16.0	1.93

Laboratory Samples for Duplicates

Radionuclide	Laboratory Sample ID	Duplicate of Sample ID
ALPHA	SCAQC-9089-LD1	OTI09-9089-01

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Alpha	SCAQC-9089-LCB	SCAQC-9089-LD1		SCAQC-9089-PB

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Radioanalytical Results

Quality Control Sample
Duplicate (LD1)

Report Identification Number: S9068_9069

Project Name:	QTIE - TN&A	Chain-of-Custody Number:		Matrix:	Water
Site Sample ID:	CP-0905015				
Other Sample ID:	LD1	Collection Date:	5/26/2009 8:30:00 AM	Date Received:	5/28/2009 8:45:00
				Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
ACW03	U-233/234	SCAQC-9067-LD1	06/24/09 16:56	36.6	4.60	8.99	0.090
ACW03	U-235	SCAQC-9067-LD1	06/24/09 16:56	1.67	0.550	0.745	0.110
ACW03	U-238	SCAQC-9067-LD1	06/24/09 16:56	36.5	4.38	8.51	0.089

Laboratory Samples for Duplicates

Radionuclide	Laboratory Sample ID	Duplicate of Sample ID
U-234	SCAQC-9067-LD1	GTI09-9067-01
U-235	SCAQC-9067-LD1	GTI09-9067-01
U-238	SCAQC-9067-LD1	GTI09-9067-01

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
U	SCAQC-9067-LC1	SCAQC-9067-LD1		SCAQC-9067-PB1

Radioanalytical Results

Quality Control Sample
Matrix Spike (MS1)

Report Identification Number: 59068_9089

Project Name:	QTIE - TN&A	Chain-of-Custody Number:	None	Matrix:	Water
Site Sample ID:	CP-5905006				
Other Sample ID:	MS1	Collection Date:	5/27/2009 12:00:00 PM	Date Received:	5/28/2009 8:45:00
				Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
EPA 903.1	RA-226	SCAQC-9068-MS1	06/09/09 20:07	12.5	0.804	3.84	0.442
EPA 904.0	RA-226	SCAQC-9068-MS1	06/03/09 17:39	5.64	0.778	1.86	0.542

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Ra	SCAQC-9068-LC1	SCAQC-9068-LD1	SCAQC-9068-MS1	SCAQC-9068-PB

Radioanalytical Results

Quality Control Sample
Preparation Blank (PB)

Report Identification Number: 59068_9089

Project Name:	QTIE - TN&A	Chain-of-Custody Number:	None	Matrix:	Water
Site Sample ID:	N/A				
Other Sample ID:	PB	Collection Date:	5/28/2009 8:45:00 AM	Date Received:	5/28/2009 8:45:00
				Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
EPA 900.0	ALPHA	SCAQC-9068-PBB	06/30/09 11:07	-0.065	0.669	0.670	1.41
EPA 900.0	ALPHA	SCAQC-9068-PB1	06/22/09 17:20	0.196	0.706	0.713	1.33
EPA 900.0	ALPHA	SCAQC-9068-PB1	06/15/09 15:49	-0.190	0.550	0.559	1.04
EPA 900.0	BETA	SCAQC-9068-PBB	06/30/09 11:07	-0.077	0.578	0.578	1.04
EPA 900.0	BETA	SCAQC-9068-PB1	06/22/09 17:20	0.000	0.000	0.135	0.000
EPA 900.0	BETA	SCAQC-9068-PB1	06/15/09 15:49	-0.175	0.608	0.610	1.06
EPA 903.1	RA-226	SCAQC-9068-PB	06/09/09 18:35	0.103	0.250	0.252	0.426
EPA 904.0	RA-228	SCAQC-9068-PB	06/03/09 17:43	0.407	0.334	0.356	0.510

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Alpha		SCAQC-9068-LD1		SCAQC-9068-PB1
Beta	SCAQC-9068-LCB	SCAQC-9068-LD1		SCAQC-9068-PB1
Ra	SCAQC-9068-LC1	SCAQC-9068-LD1	SCAQC-9068-MS1	SCAQC-9068-PB

Radioanalytical Results

Quality Control Sample
Preparation Blank (PB)

Report Identification Number: S9068_9089

Project Name:	OTIE - TN&A	Chain-of-Custody Number:	None	Matrix:	Water
Site Sample ID:	N/A				
Other Sample ID:	PB	Collection Date:	5/28/2009 8:45:00 AM	Date Received:	5/28/2009 8:45:00
				Laboratory Code:	SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
SM 7110C	ALPHA	SCAQC-9089-PB	06/20/09 11:11	0.068	1.21	1.21	2.33

Quality Control Samples				
Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
Alpha	SCAQC-9089-LCB	SCAQC-9089-LD1		SCAQC-9089-PB

Radioanalytical Results

Quality Control Sample
Preparation Blank (PB)

Report Identification Number: 59068_9089

Project Name: OTIE - TN&A
Site Sample ID: N/A
Other Sample ID: PB
Chain-of-Custody Number: None
Collection Date: 5/27/2009 11:15:00 AM
Matrix: Water
Date Received: 5/29/2009 8:45:00
Laboratory Code: SCA

Method Number	Radionuclide	Laboratory Sample ID	Analysis Date/Time	Activity (pCi/L)	2 σ Counting Error (pCi/L)	Total Error (pCi/L)	MDA (pCi/L)
ACW03	U-233/234	SCAQC-9067-PB1	06/24/09 16:56	0.060	0.085	0.086	0.081
ACW03	U-235	SCAQC-9067-PB1	06/24/09 16:56	0.000	0.000	0.135	0.100
ACW03	U-238	SCAQC-9067-PB1	06/24/09 16:56	0.060	0.084	0.085	0.081

Quality Control Samples

Radionuclide	Laboratory Control (LC)	Laboratory Duplicate (LD)	Matrix Spike (MS)	Preparation Blank (PB)
U	SCAQC-9067-LC1	SCAQC-9067-LD1		SCAQC-9067-PB1

Radioanalytical Results

Quality Control Sample Evaluation

Report Identification Number: S9068_9089

Project Name: OTIE - TNSA
Matrix: Water
Laboratory Code: SCA

Laboratory Contol Sample (LC1) Evaluation

Method Number	Radionuclide	Laboratory Sample ID	(CV) Decay Corrected Activity of Spike Added (pCi/L)	(OV) Laboratory Control Sample Activity (pCi/L)	Laboratory Control Sample % Recovery (Accuracy)	Number of σ Between CV and OV
SM 7110C	ALPHA	SCAQC-9089-LC8	15.0 ± 0.450	17.2 ± 9.16	115	0.353
EPA 900.0	BETA	SCAQC-9068-LC8	17.3 ± 0.399	18.2 ± 5.78	105	0.209
ACW03	U-233/234	SCAQC-9067-LC1	4.09 ± 0.025	4.80 ± 1.18	117	0.929
ACW03	U-238	SCAQC-9067-LC1	4.09 ± 0.025	4.82 ± 1.19	118	0.957
EPA 903.1	RA-226	SCAQC-9068-LC1	11.2 ± 0.134	11.2 ± 3.43	99.7	0.012
EPA 904.0	RA-228	SCAQC-9068-LC1	7.19 ± 0.288	7.85 ± 2.53	109	0.375

Matrix Spike Sample (MS1) Evaluation

Method Number	Radionuclide	Laboratory Sample ID	(CV) Decay Corrected Activity of Spike Added (pCi/L)	Matrix Spike Sample Activity (pCi/L)	(OV) Native Sample Activity (pCi/L)	Matrix Spike Sample % Recovery (Accuracy)	Number of σ Between CV and OV
EPA 903.1	RA-226	SCAQC-9068-MS1	11.2 ± 0.134	12.5 ± 3.84	4.44 ± 1.42	72.1	0.489
EPA 904.0	RA-228	SCAQC-9068-MS1	7.19 ± 0.288	5.64 ± 1.86	0.293 ± 0.356	74.4	1.20

Laboratory Duplicate Sample (LD1) Evaluation

Method Number	Radionuclide	Laboratory Sample ID	Original Sample Activity (pCi/L)	Duplicate Sample Activity (pCi/L)	Difference Between Original Activity and Duplicate Sample Activity (D)	Ratio of the Difference Between the Sample Activity and the Propagated Measurement #1 σ (T:E)
SM 7110C	ALPHA	SCAQC-9089-LD1	32.1 ± 16.6	30.8 ± 16.0	1.25	0.106
EPA 900.0	ALPHA	SCAQC-9068-LD1	-0.469 ± 0.727	-0.046 ± 0.508	0.423	0.953
EPA 900.0	ALPHA	SCAQC-9068-LD1	-0.469 ± 0.727	-0.506 ± 0.733	0.036	0.070
EPA 900.0	BETA	SCAQC-9068-LD1	1.25 ± 0.851	0.127 ± 0.617	1.12	2.13
EPA 900.0	BETA	SCAQC-9068-LD1	1.25 ± 0.851	0.000 ± 0.135	1.25	2.90
ACW03	U-233/234	SCAQC-9067-LD1	35.4 ± 8.19	38.6 ± 8.99	3.24	0.533
ACW03	U-235	SCAQC-9067-LD1	1.59 ± 0.710	1.67 ± 0.745	0.085	0.165
ACW03	U-238	SCAQC-9067-LD1	37.6 ± 8.67	36.6 ± 8.51	1.08	0.178
EPA 903.1	RA-226	SCAQC-9068-LD1	2.04 ± 0.722	2.37 ± 0.814	0.334	0.614
EPA 904.0	RA-228	SCAQC-9068-LD1	0.547 ± 0.412	0.718 ± 0.483	0.170	0.556

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Radioanalytical Results

Quality Control Tracer Yield

Report Identification Number: S9066_9089

Project Name: OTIE - TN&A

Laboratory Code: SCA

Laboratory Sample ID	U-232
OTI09-9067-01	90.68
OTI09-9068-01	92.06
OTI09-9068-01B	92.06
OTI09-9068-02	82.67
OTI09-9068-02B	82.67
OTI09-9068-07	88.97
OTI09-9068-07B	88.97
OTI09-9068-08	84.64
OTI09-9068-08B	84.64
OTI09-9068-09	80.32
OTI09-9068-09B	80.32
OTI09-9068-10	87.26
OTI09-9068-10B	87.26
OTI09-9068-11	89.92
OTI09-9068-11B	89.92
OTI09-9068-12	90.18
OTI09-9068-12B	90.18
SCAQC-9067-LC1	72.45
SCAQC-9067-LD1	83.04
SCAQC-9067-PB1	93.12

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Radioanalytical Results

Quality Control Chemical Recovery

Report Identification Number: S9068_9069

Project Name: OTIE - TN&A

Laboratory Code: SCA

Laboratory Sample ID	Ra-228
OTI09-9068-01	137.64
OTI09-9068-01B	137.64
OTI09-9068-02	137.64
OTI09-9068-02B	137.64
OTI09-9068-03	137.64
OTI09-9068-03B	137.64
OTI09-9068-04	137.64
OTI09-9068-04B	137.64
OTI09-9068-05	137.64
OTI09-9068-05B	137.64
OTI09-9068-06	137.64
OTI09-9068-06B	137.64
OTI09-9068-07	137.64
OTI09-9068-07B	137.64
OTI09-9068-08	137.64
OTI09-9068-08B	137.64
OTI09-9068-09	137.64
OTI09-9068-09B	137.64
OTI09-9068-10	137.64
OTI09-9068-10B	137.64
OTI09-9068-11	137.64
OTI09-9068-11B	137.64
OTI09-9068-12	137.64
OTI09-9068-12B	137.64
OTI09-9068-13	137.64
SCAQC-9068-LC1	137.64
SCAQC-9068-LCB	137.64
SCAQC-9068-LD1	137.64
SCAQC-9068-MS1	137.64
SCAQC-9068-PB	137.64
SCAQC-9068-PB1	137.64
SCAQC-9068-PBB	137.64

Appendix D

Data Validation Report