RTI Laboratories, Inc.

Date: *30-Dec.-11*

CLIENT: Shaw Environmental & Infrastructure, Inc.
Project: Kirtland AFB
CO#: 501
Tracking #: 140705-036A
Project No.: 140705
Prime Contract: W912DY-10-D0014
Task Order: 02
Work Order: 1111437

CASE NARRATIVE

SAMPLE RECEIPT:
Samples were received at the RTI Laboratory, Livonia, MI via commercial delivery on 11/23/2011. Samples were received in good condition. The sample set consisted of 46 air samples.

SAMPLE ANALYSIS:
Samples were analyzed at the RTI Livonia Laboratory for:
Volatile Organic Compounds – EPA Method TO15
Air-Phase Petroleum Hydrocarbons – MA_APH (Massachusetts DEP APH Method)
Fixed Gases (Noncondensable Gases/Light Hydrocarbons) – ASTM D2504

QUALITY CONTROL:

Volatile Organic Compounds Analyses:

All sample analyses included a Method Blank, CCV, RLVS (CRQL) and Duplicate. All QC parameters were within established control limits except where noted on the QC forms or below. Initial and continuing calibration results were within method specifications. MS tuning parameters were within the acceptable ranges for the method.

Surrogate recoveries were within established control limits.

Analytical Sequence ID 44310:
- Sample ID 1111437-043Adup: RPD results exceeded control limits for m,p-Xylene (200%), Toluene (29.4%) and Xylenes, total (200%). Xylene results affected by low sample concentration.

Analytical Sequence ID 44334:
- Sample ID 1111437-011Adup RPD elevated for 2-Butanone (26.0%).

Air-Phase Petroleum Hydrocarbons Analyses:

All sample analyses included a Method Blank, LCS, LCSD and Duplicate, where applicable. All QC parameters were within established control limits except where noted on the QC summary forms or below. Initial and continuing calibration results were within method specifications.

Surrogate recoveries were within established control limits.

RTI Laboratories, Inc.

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CASE NARRATIVE

Analytical Sequence ID 44306:

- Sample ID 1111437-010Adup elevated RPD for C5-C8 Aliphatic Hydrocarbons (52.6%).

Fixed Gases (Noncondensable Gases/Light Hydrocarbons) Analyses:

All sample analyses included a Method Blank, LCS, LCSD and Duplicate, where applicable. All QC parameters were within established control limits except where noted on the QC summary forms or below. Initial and continuing calibration results were within method specifications.

Samples collected in Tedlar bags have a limited holding time as specified by the manufacturer for the collection of volatile organic compounds. There is no known stability data for the analytes of interest for this project collected in Tedlar bags. The standard holding time is 48 hours for Tedlar bags. Due to the nature of the project sample analysis within 48 hours was not feasible

No other problems were noted during the analytical events associated with this project.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Signed: Charles O'Bryan
Charles O'Bryan, Director, Quality Management

Date: 12/30/2011

RTI Laboratories - Definitions and Acronyms

WO#: 1111437

Date Reported: 12/21/2011
Revision v1

Definitions:

% REC: Percent Recovery; a measure of accuracy expressed as a percentage of a measured (recovered) concentration compared to the known concentration added to the sample.

% RPD: Relative Percent Difference; a measure of precision expressed as a percentage of the difference between two duplicates relative to the average concentration.

DF: Dilution factor; the dilution factor applied to the prepared sample.

DUP: Duplicate; aliquots of a sample taken from the same container under laboratory conditions and processed and analyzed independently, used to calculate Precision (%RPD).

LCS: Laboratory Control Sample; prepared by adding a known mass of target analytes to a specified amount of de-ionized water and prepared with the batch of samples, used to calculate Accuracy (%REC).

LCSD: The duplicate sample of the LCS, used to calculate both Accuracy (%REC) and Precision (%RPD)

MBLK: Method Blank; a sample of similar matrix that is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedure, and in which no target analytes
or interferences are present at concentrations that impact the analytical results for sample analyses.

MS: Matrix Spike; prepared by adding a known mass of target analytes to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available, used to calculate Accuracy (%REC)

MSD: The duplicate sample of the MS, used to calculate both Accuracy (%REC) and Precision (%RPD)

PL: Permit limit; only applicable to wastewater reports.

Qual: Qualifier that applies to the analyte reported

Result: Analyte concentration reported

RL: Reporting Limit/Limit of Quantitation; the limit to which data is compared for reporting. Analyte concentrations below the reporting limit are reported as ND or with a "J" qualifier.

Units: The units in which the analyte concentration is reported.

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Estimated concentration
M	Manual Integration used to determine area response
ND	Not Detected at the Reporting Limit
PL	Permit Limit
RL	Reporting Limit
S	Spike Recovery outside accepted recovery limits

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-SV057
Page 1 of 4

Project Number: 140705
Project Name: Ballard AFB
Sample Coordinator: Mark Lyon
Turnaround Time:

Samples Shipment Date: 08 NOV 2011
Lab Destination: RTI Laboratories
Lab Contact: Mike Trochan
Project Contact: Pamela Moss
Carrier/Waybill No: UPS/2323121194

Bill To: Shaw Environmental Inc - Accounts P
PO Box 98519
Baton Rouge LA 70884

Report To: Pamela Moss
7804 Technology Way Suite 300
Denver CO 80237

UH-AF 1111437

Special Instructions:

Possible Hazard Indentification:
Non Hazard | Flammable ✓ | Skin Irritant | Poison B | Radiological | Unknown

Sample Disposal:
Return to Client | Disposal by Lab ✓ | Archive | (mos.)

1. Relinquished By (Signature/Affiliation): Tim Dugger/Shaw E&I — Date: 11/8/11 — Time: 1600
2. Relinquished By (Signature/Affiliation): — Date: — Time:
3. Relinquished By (Signature/Affiliation): — Date: — Time:

1. Received By (Signature/Affiliation): A. Loftus/RTI 6465 — Date: 11-9-11 — Time: 0032
2. Received By (Signature/Affiliation): — Date: — Time:
3. Received By (Signature/Affiliation): — Date: — Time:

Comments:

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CfD	Condition On Receipt
VAP-0110	SWMU 02 SVE-05 VAPOR-110811-G	02-NOV-2011	08:40	1 L BOTTLE,VAC	1	None Required	Air Phase Petroleum Hydrocarbons by MA DEP, VOCs / TPH by TO-15			N		
VAP-0110	SWMU 02 SVE-05 VAPOR-110811-G	02-NOV-2011	08:40	1 L Tedlar Bag	1	None Required	Fixed Gases by ASTM D7504			N		
VAP-0111	SWMU 02 SVE-04 VAPOR-110811-G	02-NOV-2011	09:02	1 L BOTTLE,VAC	1	None Required	Air Phase Petroleum Hydrocarbons by MA DEP, VOCs / TPH by TO-15			N		
VAP-0111	SWMU 02 SVE-04 VAPOR-110811-G	02-NOV-2011	09:02	1 L Tedlar Bag	1	None Required	Fixed Gases by ASTM D7504			N		
VAP-0112	SWMU 02 SVE-03 VAPOR-110811-G	02-NOV-2011	09:37	1 L BOTTLE,VAC	1	None Required	Air Phase Petroleum Hydrocarbons by MA DEP, VOCs / TPH by TO-15			N		
VAP-0112	SWMU 02 SVE-03 VAPOR-110811-G	02-NOV-2011	09:37	1 L Tedlar Bag	1	None Required	Fixed Gases by ASTM D7504			N		
VAP-0113	SWMU 02 SVE-02 VAPOR-110811-G	01-NOV-2011	15:35	1 L BOTTLE,VAC	1	None Required	Air Phase Petroleum Hydrocarbons by			N		

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Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-SV057

111437

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
VA0716	SVMW-08-[illegible]-VA0716-REG	31-OCT-2011	15:35	1 L	Tedlar Bag	1	None Required			N		
VA0717	SVMW-08-100-05-VA0717-REG	31-OCT-2011	15:58	1 L	BOTTLE VAC	1	None Required			N		
VA0717	SVMW-08-100-05-VA0717-REG	31-OCT-2011	15:58	1 L	Tedlar Bag	1	None Required			N		
VA0718	SVMW-08-250-05-VA0718-REG	31-OCT-2011	16:20	1 L	BOTTLE VAC	1	None Required			N		
VA0718	SVMW-08-250-05-VA0718-REG	31-OCT-2011	16:20	1 L	Tedlar Bag	1	None Required			N		
VA0719	SVMW-08-250-05-VA0719-FD	31-OCT-2011	16:20	1 L	BOTTLE VAC	1	None Required			N		
VA0719	SVMW-08-250-05-VA0719-FD	31-OCT-2011	16:20	1 L	Tedlar Bag	1	None Required			N		
VA0725	SVMW-10-050-05-VA0725-REG	01-NOV-2011	12:49	1 L	BOTTLE VAC	1	None Required			N		
VA0725	SVMW-10-050-05-VA0725-REG	01-NOV-2011	12:49	1 L	Tedlar Bag	1	None Required			N		
VA0726	SVMW-10-100-05-VA0726-REG	01-NOV-2011	13:38	1 L	BOTTLE VAC	1	None Required			N		
VA0726	SVMW-10-100-05-VA0726-REG	01-NOV-2011	13:38	1 L	Tedlar Bag	1	None Required			N		
VA0727	SVMW-10-150-05-VA0727-REG	01-NOV-2011	14:16	1 L	BOTTLE VAC	1	None Required			N		
VA0727	SVMW-10-150-05-VA0727-REG	01-NOV-2011	14:16	1 L	Tedlar Bag	1	None Required			N		
VA0728	SVMW-10-250-05-VA0728-REG	01-NOV-2011	14:58	1 L	Tedlar Bag	1	None Required			N		
VA0728	SVMW-10-250-05-VA0728-REG	01-NOV-2011	14:58	1 L	BOTTLE VAC	1	None Required			N		
VA0729	SVMW-11-050-05-VA0729-REG	02-NOV-2011	11:51	1 L	BOTTLE VAC	1	None Required			N		
VA0729	SVMW-11-050-05-VA0729-REG	02-NOV-2011	11:51	1 L	Tedlar Bag	1	None Required			N		
VA0730	SVMW-11-100-05-VA0730-REG	02-NOV-2011	12:18	1 L	BOTTLE VAC	1	None Required			N		
VA0730	SVMW-11-100-05-VA0730-REG	02-NOV-2011	12:18	1 L	Tedlar Bag	1	None Required			N		
VA0731	SVMW-11-100-05-VA0731-FD	02-NOV-2011	12:18	1 L	BOTTLE VAC	1	None Required			N		
VA0731	SVMW-11-100-05-VA0731-FD	02-NOV-2011	12:18	1 L	Tedlar Bag	1	None Required			N		
VA0732	SVMW-11-240-05-VA0732-REG	02-NOV-2011	13:16	1 L	BOTTLE VAC	1	None Required			N		
VA0732	SVMW-11-240-05-VA0732-REG	02-NOV-2011	13:16	1 L	Tedlar Bag	1	None Required			N		
VA0733	SVMW-11-300-05-VA0733-REG	02-NOV-2011	14:08	1 L	Tedlar Bag	1	None Required			N		
VA0733	SVMW-11-300-05-VA0733-REG	02-NOV-2011	14:08	1 L	BOTTLE VAC	1	None Required			N		
VA0734	SVMW-12-050-05-VA0734-REG	03-NOV-2011	09:06	1 L	BOTTLE VAC	1	None Required			N		
VA0734	SVMW-12-050-05-VA0734-REG	03-NOV-2011	09:06	1 L	Tedlar Bag	1	None Required			N		

MA DEP, VOCs / TPH by TO-15
Fixed Gases by ASTM D2504
Air Phase Petroleum Hydrocarbons by

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No 140705 SV057

111437

Sample No	Sample Name	Sample Date	Sample Time	Container	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
VA0752	KAFB 100108 750 GS VA0752 REG	01 NOV 2011	09:37	1 L BOTTLEVAC	1 None Required	Air Phase Petroleum Hydrocarbons by MA DEP, VOCs / TPH by TO-15			N		
VA0753	KAFB 100108 750 GS VA0753 REG	01 NOV 2011	09:37	1 L Tedlar Bag	1 None Required	Fixed Gases by ASTM D2504			N		
VA0754	KAFB 100108 750 GS VA0754 REG	01 NOV 2011	10:10	1 L BOTTLEVAC	1 None Required	Air Phase Petroleum Hydrocarbons by MA DEP, VOCs / TPH by TO-15			N		
VA0754	KAFB 100108 750 GS VA0754 REG	01 NOV 2011	10:10	1 L Tedlar Bag	1 None Required	Fixed Gases by ASTM D2504			N		
VA0755	KAFB 100108 450 GS VA0755 REG	01 NOV 2011	10:38	1 L BOTTLEVAC	1 None Required	Air Phase Petroleum Hydrocarbons by MA DEP, VOCs / TPH by TO-15			N		
VA0755	KAFB 100108 450 GS VA0755 REG	01 NOV 2011	10:38	1 L Tedlar Bag	1 None Required	Fixed Gases by ASTM D2504			N		
VA0774	KAFB 100108 750 GS VA0774 REG	25 OCT 2011	12:37	1 L Tedlar Bag	1 None Required	Fixed Gases by ASTM D2504			N		
VA0774	KAFB 100108 750 GS VA0774 REG	25 OCT 2011	12:37	1 L BOTTLEVAC	1 None Required	Air Phase Petroleum Hydrocarbons by MA DEP, VOCs / TPH by TO-15			N		
VA0775	KAFB 100108 450 GS VA0775 REG	25 OCT 2011	13:26	1 L BOTTLEVAC	1 None Required	Air Phase Petroleum Hydrocarbons by MA DEP, VOCs / TPH by TO-15			N		
VA0775	KAFB 100108 450 GS VA0775 REG	25 OCT 2011	13:26	1 L Tedlar Bag	1 None Required	Fixed Gases by ASTM D2504			N		
VA0776	KAFB 100108 450 GS VA0776 REG	25 OCT 2011	14:16	1 L BOTTLEVAC	1 None Required	Air Phase Petroleum Hydrocarbons by MA DEP, VOCs / TPH by TO-15			N		
VA0776	KAFB 100108 450 GS VA0776 REG	25 OCT 2011	14:16	1 L Tedlar Bag	1 None Required	Fixed Gases by ASTM D2504			N		
VA0801	KAFB 100113 450 GS VA0801 REG	26 OCT 2011	9:07	1 L BOTTLEVAC	1 None Required	Air Phase Petroleum Hydrocarbons by MA DEP, VOCs / TPH by TO-15			N		
VA0801	KAFB 100113 450 GS VA0801 REG	26 OCT 2011	9:07	1 L Tedlar Bag	1 None Required	Fixed Gases by ASTM D2504			N		
VA0804	KAFB 100113 750 GS VA0804 REG	26 OCT 2011	09:40	1 L BOTTLEVAC	1 None Required	Air Phase Petroleum Hydrocarbons by MA DEP, VOCs / TPH by TO-15			N		
VA0804	KAFB 100113 750 GS VA0804 REG	26 OCT 2011	09:40	1 L Tedlar Bag	1 None Required	Fixed Gases by ASTM D2504			N		
VA0805	KAFB 100113 750 GS VA0805 FD	26 OCT 2011	09:40	1 L Tedlar Bag	1 None Required	Fixed Gases by ASTM D2504			N		
VA0805	KAFB 100113 750 GS VA0805 FD	26 OCT 2011	09:40	1 L BOTTLEVAC	1 None Required	Air Phase Petroleum Hydrocarbons by MA DEP, VOCs / TPH by TO-15			N		
VA0806	KAFB 100113 750 GS VA0806 REG	26 OCT 2011	10:30	1 L BOTTLEVAC	1 None Required	Air Phase Petroleum Hydrocarbons by MA DEP, VOCs / TPH by TO-15			N		
VA0806	KAFB 100113 750 GS VA0806 REG	26 OCT 2011	10:30	1 L Tedlar Bag	1 None Required	Fixed Gases by ASTM D2504			N		
VA0807	KAFB 100113 750 GS VA0807 REG	26 OCT 2011	11:10	1 L BOTTLEVAC	1 None Required	Air Phase Petroleum Hydrocarbons by MA DEP, VOCs / TPH by TO-15			N		
VA0807	KAFB 100113 750 GS VA0807 REG	26 OCT 2011	11:10	1 L Tedlar Bag	1 None Required	Fixed Gases by ASTM D2504			N		
VA0808	KAFB 100113 450 GS VA0808 REG	26 OCT 2011	12:01	1 L BOTTLEVAC	1 None Required	Air Phase Petroleum Hydrocarbons by MA DEP, VOCs / TPH by TO-15			N		
VA0808	KAFB 100113 450 GS VA0808 REG	26 OCT 2011	12:01	1 L Tedlar Bag	1 None Required	Fixed Gases by ASTM D2504			N		
VA0809	KAFB 100113 450 GS VA0809 REG	26 OCT 2011	12:51	1 L BOTTLEVAC	1 None Required	Air Phase Petroleum Hydrocarbons by MA DEP, VOCs / TPH by TO-15			N		
VA0809	KAFB 100113 450 GS VA0809 REG	26 OCT 2011	12:51	1 L Tedlar Bag	1 None Required	Fixed Gases by ASTM D2504			N		
VA0810	KAFB 100113 450 GS VA0810 REG	27 OCT 2011	09:12	1 L Tedlar Bag	1 None Required	Fixed Gases by ASTM D2504			N		
VA0810	KAFB 100113 450 GS VA0810 REG	27 OCT 2011	09:12	1 L BOTTLEVAC	1 None Required	Air Phase Petroleum Hydrocarbons by MA DEP, VOCs / TPH by TO-15			N		

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Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-SV057

1111937

Sample No	Sample Name	Sample Date	Sample Time	Container	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
VA0811	KAFB-100[illegible]-050-GS-VA0811-RFG	31-OCT-2011	09:45	1 L BOTTLE,VAC	None Required	Air Phase Petroleum Hydrocarbons by MA DEP, VOCs / TPH by TO-15			N		
VA0811	KAFB-100[illegible]-050-GS-VA0811-RFG	31-OCT-2011	09:45	1 L Tedlar Bag	None Required	Fixed Gases by ASTM D2504			N		
VA0812	KAFB-100[illegible]-050-GS-VA0812-FD	31-OCT-2011	09:45	1 L BOTTLE,VAC	None Required	Air Phase Petroleum Hydrocarbons by MA DEP, VOCs / TPH by TO-15			N		
VA0812	KAFB-100[illegible]-050-GS-VA0812-FD	31-OCT-2011	09:45	1 L Tedlar Bag	None Required	Fixed Gases by ASTM D2504			N		
VA0813	KAFB-100[illegible]-050-GS-VA0813-RFG	31-OCT-2011	10:35	1 L BOTTLE,VAC	None Required	Air Phase Petroleum Hydrocarbons by MA DEP, VOCs / TPH by TO-15			N		
VA0813	KAFB-100[illegible]-050-GS-VA0813-RFG	31-OCT-2011	10:35	1 L Tedlar Bag	None Required	Fixed Gases by ASTM D2504			N		
VA0814	KAFB-100[illegible]-050-GS-VA0814-RFG	31-OCT-2011	11:16	1 L BOTTLE,VAC	None Required	Air Phase Petroleum Hydrocarbons by MA DEP, VOCs / TPH by TO-15			N		
VA0814	KAFB-100[illegible]-050-GS-VA0814-RFG	31-OCT-2011	11:16	1 L Tedlar Bag	None Required	Fixed Gases by ASTM D2504			N		
VA0815	KAFB-100[illegible]-050-GS-VA0815-RFG	31-OCT-2011	12:56	1 L BOTTLE,VAC	None Required	Air Phase Petroleum Hydrocarbons by MA DEP, VOCs / TPH by TO-15			N		
VA0815	KAFB-100[illegible]-050-GS-VA0815-RFG	31-OCT-2011	12:56	1 L Tedlar Bag	None Required	Fixed Gases by ASTM D2504			N		
VA0816	KAFB-100[illegible]-050-GS-VA0816-RFG	[illegible]	13:51	1 L BOTTLE,VAC	None Required	Air Phase Petroleum Hydrocarbons by MA DEP, VOCs / TPH by TO-15			N		
VA0816	KAFB-100[illegible]-050-GS-VA0816-RFG	31-OCT-2011	13:51	1 L Tedlar Bag	None Required	Fixed Gases by ASTM D2504			N		
VA0924	KAFB-100[illegible]-025-GS-VA0924-RFG	26-OCT-2011	14:36	1 L BOTTLE,VAC	None Required	Air Phase Petroleum Hydrocarbons by MA DEP, VOCs / TPH by TO-15			N		
VA0924	KAFB-100[illegible]-025-GS-VA0924-RFG	26-OCT-2011	14:36	1 L Tedlar Bag	None Required	Fixed Gases by ASTM D2504			N		
VA0925	KAFB-100[illegible]-025-GS-VA0925-RFG	26-OCT-2011	15:03	1 L BOTTLE,VAC	None Required	Air Phase Petroleum Hydrocarbons by MA DEP, VOCs / TPH by TO-15			N		
VA0925	KAFB-100[illegible]-025-GS-VA0925-RFG	26-OCT-2011	15:03	1 L Tedlar Bag	None Required	Fixed Gases by ASTM D2504			N		
VA0926	KAFB-100[illegible]-025-GS-VA0926-RFG	26-OCT-2011	15:32	1 L BOTTLE,VAC	None Required	Air Phase Petroleum Hydrocarbons by MA DEP, VOCs / TPH by TO-15			N		
VA0926	KAFB-100[illegible]-025-GS-VA0926-RFG	26-OCT-2011	15:32	1 L Tedlar Bag	None Required	Fixed Gases by ASTM D2504			N		
VA0927	KAFB-100[illegible]-045-GS-VA0927-RFG	27-OCT-2011	10:43	1 L BOTTLE,VAC	None Required	Air Phase Petroleum Hydrocarbons by MA DEP, VOCs / TPH by TO-15			N		
VA0927	KAFB-100[illegible]-045-GS-VA0927-RFG	27-OCT-2011	10:43	1 L Tedlar Bag	None Required	Fixed Gases by ASTM D2504			N		
VA0928	KAFB-100[illegible]-045-GS-VA0928-RFG	27-OCT-2011	11:27	1 L BOTTLE,VAC	None Required	Air Phase Petroleum Hydrocarbons by MA DEP, VOCs / TPH by TO-15			N		
VA0928	KAFB-100[illegible]-045-GS-VA0928-RFG	27-OCT-2011	11:27	1 L Tedlar Bag	None Required	Fixed Gases by ASTM D2504			N		
VA0929	KAFB-100[illegible]-045-GS-VA0929-RFG	27-OCT-2011	12:08	1 L BOTTLE,VAC	None Required	Air Phase Petroleum Hydrocarbons by MA DEP, VOCs / TPH by TO-15			N		
VA0929	KAFB-100[illegible]-045-GS-VA0929-RFG	27-OCT-2011	12:08	1 L Tedlar Bag	None Required	Fixed Gases by ASTM D2504			N		
VA0927-TB	KAFB-100[illegible]-045-GS-VA0927-TB-20	28-OCT-2011	16:00	1 L BOTTLE,VAC	None Required	VOCs / TPH by TO-15			N		

T - 10 Door : 1249
MI 48150
UPST 340714 MI 482 9-02

UPS GROUND

1Z10335E0341606161

6059 N

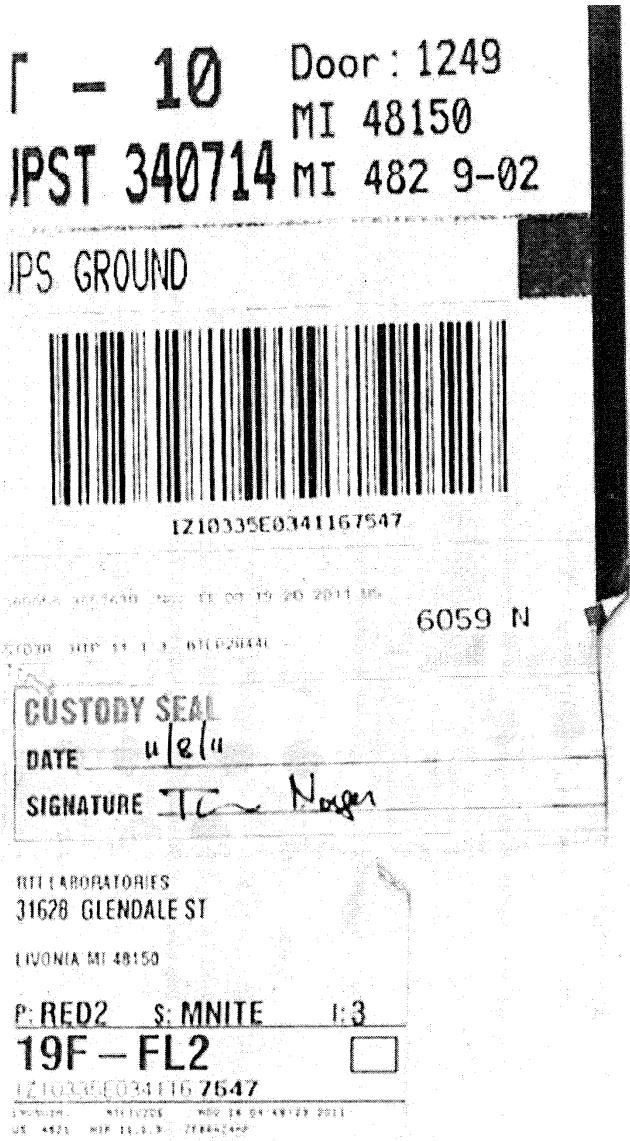
CUSTODY SEAL
DATE 8/8/11
SIGNATURE Tim Nau

RTI LABORATORIES
31628 GLENDALE ST
LIVONIA MI 48150

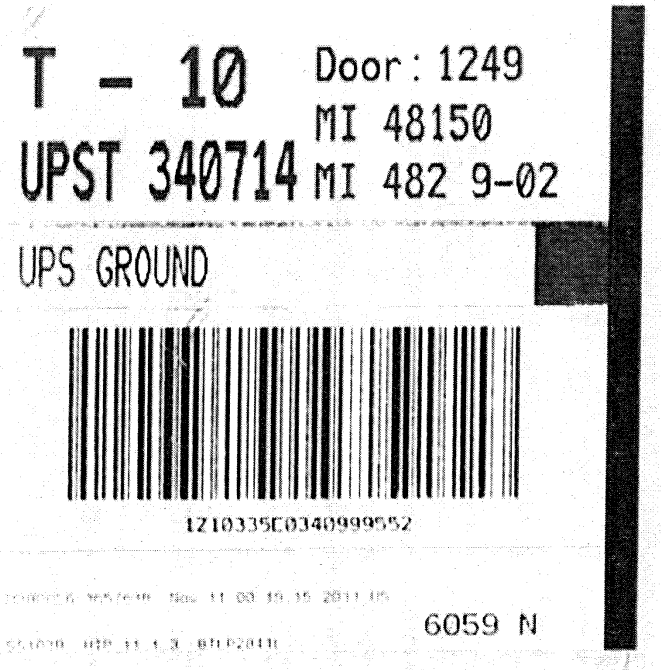
P: RED2 S: MNITE 1:3
19F – FL2
1Z1033SE0341600 6101

Toddler Bags: · VA0728
· VA0816

Includes
· VA0731 565 96 0660
· VA0752 565 30 0615
· VA0692 · FQ · 565 5 0581
· VA0730 ——— 527
· VA0729 565 43 0674
· VA0732 565 98 0682
· VA0694 FQ 56517 0673



Bottle Vac'S ID	#	SG
VA0774	555	97
VA0775	551	3
VA0776	535	98
VA0803	0655	105
VA0804	559	—
VA0805	554	101
VA0806	BV 50	72
VA0807	BV 92	69
VA0808	BV 43	52
VA0809	0691	91
VA0924	BV 114	61
VA0925	BV 122	84
VA0926	BV 84	115
VA8057-DB	537	—
VA0928	BV 108	128
VA0929	BV 69	1
VA0816	BV 82	70
VA0733	521	93



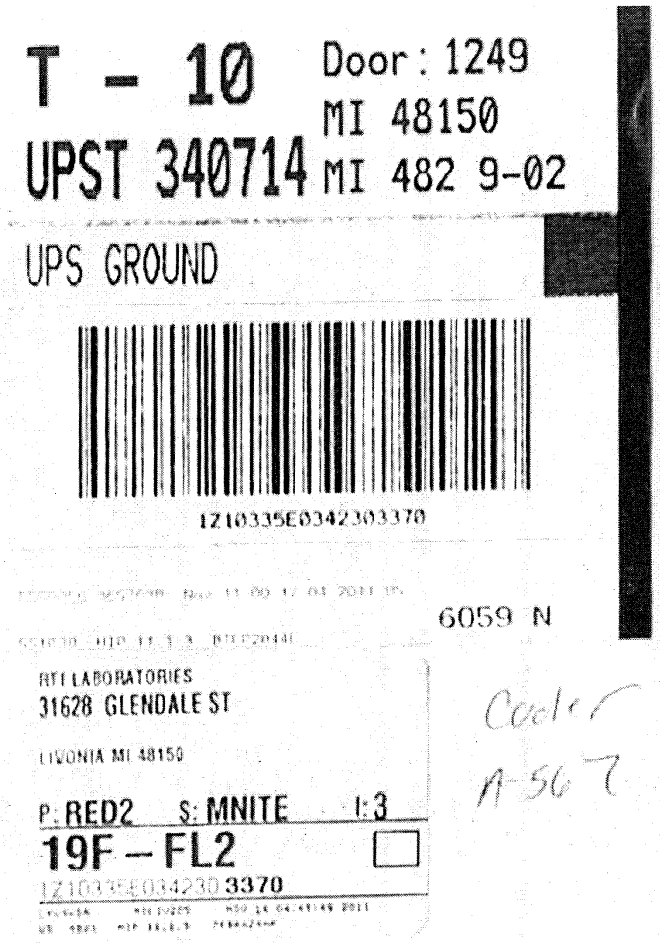
CUSTODY SEAL
DATE 11/8/11
SIGNATURE Tim Nagy

RTI LABORATORIES
31628 GLENDALE ST
LIVONIA MI 48150

P: RED2 S: MNITE I: 3
19F – FL2

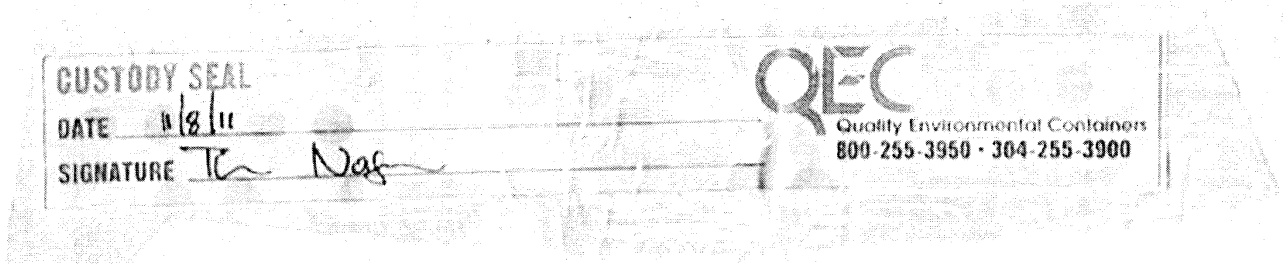
1Z10335E0340990552

Includes		
VA0718	565 2	BV 107
VA0716	565 51	BV 93
VA0819	565 113	BV 89
VA0726	565 40	0692
VA0725	565 53	0601
VA0728	565 17	0599
VA0763	565 33	0692
VA0755	* broken *	565 23
VA0754	565 6	0675
VA0812	—	BV 26
VA0815	565 104	BV 19
VA0717	565 57	0587
VA0719	—	0708
VA0813	565 69	BV 62
VA0810	565 99	0605
VA0814	565 18	* broken lid *
VA0727	565 39	0684
VA0693-FQ	565 66	0688



Tedlar Bags

Cooler
A-567



RTI LABORATORIES, INC.

RTI
31628 Glendale St.
Livonia, MI 48150
TEL: 7344228000 FAX: 7344225342
Website: www.rtilabs.com

Sample Receipt Checklist

Client Name: **SHA04**

Date and Time Received: **11/14/2011 9:22:00 AM**

Work Order Number **1111437** RcptNo: **1**

Received by: **Armando Flores**

Completed by:

Reviewed by:

Completed Date: 11/14/2011 12:13:04 PM

Reviewed Date: 11/28/2011 2:04:46 PM

Carrier name: UPS

Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐	Not Present ☐	
Are matrices correctly identified on Chain of custody?	Yes ☑	No ☐		
Is it clear what analyses were requested?	Yes ☑	No ☐		
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑	
Samples in proper container/bottle?	Yes ☑	No ☐		
Were correct preservatives used and noted?	Yes ☑	No ☐		
Sample containers intact?	Yes ☐	No ☑		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
Were container lables complete (ID, Pres, Date)?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Was an attempt made to cool the samples?	Yes ☐	No ☑		
All samples received at a temp. of > 0° C to 6.0° C?	Yes ☐	No ☑		
Response when temperature is outside of range:	Not required			
Preservative added to bottles:				
Sample Temp. taken and recorded upon receipt?	Yes ☐	No ☑	To	°C
Water - Were bubbles absent in VOC vials?	Yes ☐	No ☐	No Vials	☑
Water - Was there Chlorine Present?	Yes ☐	No ☐	NA	☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	No Water	☑
Are Samples considered acceptable?	Yes ☑	No ☐		
Custody Seals present?	Yes ☑	No ☐		
Traffic Report or Packing Lists present?	Yes ☐	No ☑		
Airbill or Sticker?	Air Bill ☑	Sticker ☐	Not Present ☐	
Airbill No:	See Comments			
Sample Tags Present?	Yes ☐	No ☑		
Sample Tags Listed on COC?	Yes ☐	No ☑		
Tag Numbers:				
Sample Condition?	Intact ☑	Broken ☐	Leaking ☐	

Case Number: SDG: SAS:

Adjusted? _____ Checked by

Any No and/or NA (not applicable) response must be detailed in the comments section below.

SampID	ContainerID	Type	Org pH	Adj pH	Req Min pH	Req Max pH
1111437-001A	Container-1 of 1	Bottle				
1111437-001B	Container-1 of 1	Bottle				
1111437-002A	Container-1 of 1	Bottle				
1111437-002B	Container-1 of 1	Bottle				
1111437-003A	Container-1 of 1	Bottle				
1111437-003B	Container-1 of 1	Bottle				
1111437-004A	Container-1 of 1	Bottle				
1111437-004B	Container-1 of 1	Bottle				
1111437-005A	Container-1 of 1	Bottle				
1111437-005B	Container-1 of 1	Bottle				
1111437-006A	Container-1 of 1	Bottle				
1111437-006B	Container-1 of 1	Bottle				
1111437-007A	Container-1 of 1	Bottle				
1111437-007B	Container-1 of 1	Bottle				
1111437-008A	Container-1 of 1	Bottle				
1111437-008B	Container-1 of 1	Bottle				
1111437-009A	Container-1 of 1	Bottle				
1111437-009B	Container-1 of 1	Bottle				
1111437-010A	Container-1 of 1	Bottle				
1111437-010B	Container-1 of 1	Bottle				
1111437-011A	Container-1 of 1	Bottle				
1111437-011B	Container-1 of 1	Bottle				
1111437-012A	Container-1 of 1	Bottle				
1111437-012B	Container-1 of 1	Bottle				
1111437-013A	Container-1 of 1	Bottle				
1111437-013B	Container-1 of 1	Bottle				
1111437-014A	Container-1 of 1	Bottle				
1111437-014B	Container-1 of 1	Bottle				
1111437-015A	Container-1 of 1	Bottle				
1111437-015B	Container-1 of 1	Bottle				
1111437-016A	Container-1 of 1	Bottle				
1111437-016B	Container-1 of 1	Bottle				
1111437-017A	Container-1 of 1	Bottle				
1111437-017B	Container-1 of 1	Bottle				

SampID	ContainerID	Type	Org pH	Adj pH	Req Min pH	Req Max pH
1111437-018A	Container-1 of 1	Bottle				
1111437-018B	Container-1 of 1	Bottle				
1111437-019A	Container-1 of 1	Bottle				
1111437-019B	Container-1 of 1	Bottle				
1111437-020A	Container-1 of 1	Bottle				
1111437-021A	Container-1 of 1	Bottle				
1111437-021B	Container-1 of 1	Bottle				
1111437-022A	Container-1 of 1	Bottle				
1111437-022B	Container-1 of 1	Bottle				
1111437-023A	Container-1 of 1	Bottle				
1111437-023B	Container-1 of 1	Bottle				
1111437-024A	Container-1 of 1	Bottle				
1111437-024B	Container-1 of 1	Bottle				
1111437-025A	Container-1 of 1	Bottle				
1111437-025B	Container-1 of 1	Bottle				
1111437-026A	Container-1 of 1	Bottle				
1111437-026B	Container-1 of 1	Bottle				
1111437-027A	Container-1 of 1	Bottle				
1111437-027B	Container-1 of 1	Bottle				
1111437-028A	Container-1 of 1	Bottle				
1111437-028B	Container-1 of 1	Bottle				
1111437-029A	Container-1 of 1	Bottle				
1111437-029B	Container-1 of 1	Bottle				
1111437-030A	Container-1 of 1	Bottle				
1111437-030B	Container-1 of 1	Bottle				
1111437-031A	Container-1 of 1	Bottle				
1111437-031B	Container-1 of 1	Bottle				
1111437-032A	Container-1 of 1	Bottle				
1111437-033A	Container-1 of 1	Bottle				
1111437-033B	Container-1 of 1	Bottle				
1111437-034A	Container-1 of 1	Bottle				
1111437-034B	Container-1 of 1	Bottle				
1111437-035A	Container-1 of 1	Bottle				
1111437-035B	Container-1 of 1	Bottle				

SampID	ContainerID	Type	Org pH	Adj pH	Req Min pH	Req Max pH
1111437-036A	Container-1 of 1	Bottle				
1111437-036B	Container-1 of 1	Bottle				
1111437-037A	Container-1 of 1	Bottle				
1111437-037B	Container-1 of 1	Bottle				
1111437-038A	Container-1 of 1	Bottle				
1111437-038B	Container-1 of 1	Bottle				
1111437-039A	Container-1 of 1	Bottle				
1111437-039B	Container-1 of 1	Bottle				
1111437-040A	Container-1 of 1	Bottle				
1111437-040B	Container-1 of 1	Bottle				
1111437-041A	Container-1 of 1	Bottle				
1111437-041B	Container-1 of 1	Bottle				
1111437-042A	Container-1 of 1	Bottle				
1111437-042B	Container-1 of 1	Bottle				
1111437-043A	Container-1 of 1	Bottle				
1111437-043B	Container-1 of 1	Bottle				
1111437-044A	Container-01 of 01	Bottle				

Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
A-567	n/a	Good	Yes		11/8/2011	See COC

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client Contacted? ☑ Yes ☐ No ☐ NA Person Contacted: Pamela Moss

Contact Mode: ☐ Phone: ☐ Fax: ☑ Email: ☐ In Person:

Client Instructions:

Date Contacted: 11/14/2011 Contacted By: Armando Flores

Regarding: 2 Bottle Vacs received with cap broken

CorrectiveAction:

Comments:
2 Bottle Vacs received with cap broken (0588,0583). Received tedlars in cooler, bottle vacs in cardboard boxes.
UPS:
1Z10335E0341606161,
1Z10335E0341167547,
1Z10335E0340999552,
1Z10335E0342303370

RTI Laboratories - Workorder Sample Summary

WO#: 1111437

Date Reported: 12/21/2011
Revision v1

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB

Lab Sample ID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
1111437-001	VA0692-FQ		11/2/2011 8:40 AM	11/14/2011 9:22 AM	Air
1111437-001	VA0692-FQ		11/2/2011 8:40 AM	11/14/2011 9:22 AM	Air
1111437-002	VA0693-FQ		11/2/2011 9:02 AM	11/14/2011 9:22 AM	Air
1111437-002	VA0693-FQ		11/2/2011 9:02 AM	11/14/2011 9:22 AM	Air
1111437-003	VA0694-FQ		11/2/2011 9:37 AM	11/14/2011 9:22 AM	Air
1111437-003	VA0694-FQ		11/2/2011 9:37 AM	11/14/2011 9:22 AM	Air
1111437-004	VA0716		10/31/2011 3:35 PM	11/14/2011 9:22 AM	Air
1111437-004	VA0716		10/31/2011 3:35 PM	11/14/2011 9:22 AM	Air
1111437-005	VA0717		10/31/2011 3:58 PM	11/14/2011 9:22 AM	Air
1111437-005	VA0717		10/31/2011 3:58 PM	11/14/2011 9:22 AM	Air
1111437-006	VA0718		10/31/2011 4:20 PM	11/14/2011 9:22 AM	Air
1111437-006	VA0718		10/31/2011 4:20 PM	11/14/2011 9:22 AM	Air
1111437-007	VA0719		10/31/2011 4:20 PM	11/14/2011 9:22 AM	Air
1111437-007	VA0719		10/31/2011 4:20 PM	11/14/2011 9:22 AM	Air
1111437-008	VA0725		11/1/2011 12:49 PM	11/14/2011 9:22 AM	Air
1111437-008	VA0725		11/1/2011 12:49 PM	11/14/2011 9:22 AM	Air
1111437-009	VA0726		11/1/2011 1:38 PM	11/14/2011 9:22 AM	Air
1111437-009	VA0726		11/1/2011 1:38 PM	11/14/2011 9:22 AM	Air
1111437-010	VA0727		11/1/2011 2:16 PM	11/14/2011 9:22 AM	Air
1111437-010	VA0727		11/1/2011 2:16 PM	11/14/2011 9:22 AM	Air
1111437-011	VA0728		11/1/2011 2:58 PM	11/14/2011 9:22 AM	Air
1111437-011	VA0728		11/1/2011 2:58 PM	11/14/2011 9:22 AM	Air
1111437-012	VA0729		11/2/2011 11:51 AM	11/14/2011 9:22 AM	Air
1111437-012	VA0729		11/2/2011 11:51 AM	11/14/2011 9:22 AM	Air
1111437-013	VA0730		11/2/2011 12:18 PM	11/14/2011 9:22 AM	Air
1111437-013	VA0730		11/2/2011 12:18 PM	11/14/2011 9:22 AM	Air
1111437-014	VA0731		11/2/2011 12:18 PM	11/14/2011 9:22 AM	Air
1111437-014	VA0731		11/2/2011 12:18 PM	11/14/2011 9:22 AM	Air
1111437-015	VA0732		11/2/2011 1:16 PM	11/14/2011 9:22 AM	Air
1111437-015	VA0732		11/2/2011 1:16 PM	11/14/2011 9:22 AM	Air
1111437-016	VA0733		11/2/2011 2:08 PM	11/14/2011 9:22 AM	Air
1111437-016	VA0733		11/2/2011 2:08 PM	11/14/2011 9:22 AM	Air
1111437-017	VA0752		11/1/2011 9:06 AM	11/14/2011 9:22 AM	Air
1111437-017	VA0752		11/1/2011 9:06 AM	11/14/2011 9:22 AM	Air
1111437-018	VA0753		11/1/2011 9:37 AM	11/14/2011 9:22 AM	Air
1111437-018	VA0753		11/1/2011 9:37 AM	11/14/2011 9:22 AM	Air
1111437-019	VA0754		11/1/2011 10:10 AM	11/14/2011 9:22 AM	Air
1111437-019	VA0754		11/1/2011 10:10 AM	11/14/2011 9:22 AM	Air
1111437-020	VA0755		11/1/2011 10:38 AM	11/14/2011 9:22 AM	Air
1111437-021	VA0774		10/25/2011 12:37 PM	11/14/2011 9:22 AM	Air
1111437-021	VA0774		10/25/2011 12:37 PM	11/14/2011 9:22 AM	Air
1111437-022	VA0775		10/25/2011 1:26 PM	11/14/2011 9:22 AM	Air
1111437-022	VA0775		10/25/2011 1:26 PM	11/14/2011 9:22 AM	Air
1111437-023	VA0776		10/25/2011 2:16 PM	11/14/2011 9:22 AM	Air
1111437-023	VA0776		10/25/2011 2:16 PM	11/14/2011 9:22 AM	Air

RTI Laboratories - Workorder Sample Summary

WO#: 1111437

Date Reported: 12/21/2011
Revision v1

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB

Lab Sample ID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
1111437-024	VA0803		10/26/2011 9:07 AM	11/14/2011 9:22 AM	Air
1111437-024	VA0803		10/26/2011 9:07 AM	11/14/2011 9:22 AM	Air
1111437-025	VA0804		10/26/2011 9:40 AM	11/14/2011 9:22 AM	Air
1111437-025	VA0804		10/26/2011 9:40 AM	11/14/2011 9:22 AM	Air
1111437-026	VA0805		10/26/2011 9:40 AM	11/14/2011 9:22 AM	Air
1111437-026	VA0805		10/26/2011 9:40 AM	11/14/2011 9:22 AM	Air
1111437-027	VA0806		10/26/2011 10:30 AM	11/14/2011 9:22 AM	Air
1111437-027	VA0806		10/26/2011 10:30 AM	11/14/2011 9:22 AM	Air
1111437-028	VA0807		10/26/2011 11:10 AM	11/14/2011 9:22 AM	Air
1111437-028	VA0807		10/26/2011 11:10 AM	11/14/2011 9:22 AM	Air
1111437-029	VA0808		10/26/2011 12:01 PM	11/14/2011 9:22 AM	Air
1111437-029	VA0808		10/26/2011 12:01 PM	11/14/2011 9:22 AM	Air
1111437-030	VA0809		10/26/2011 12:51 PM	11/14/2011 9:22 AM	Air
1111437-030	VA0809		10/26/2011 12:51 PM	11/14/2011 9:22 AM	Air
1111437-031	VA0810		10/31/2011 9:12 AM	11/14/2011 9:22 AM	Air
1111437-031	VA0810		10/31/2011 9:12 AM	11/14/2011 9:22 AM	Air
1111437-032	VA0811		10/31/2011 9:45 AM	11/14/2011 9:22 AM	Air
1111437-033	VA0812		10/31/2011 9:45 AM	11/14/2011 9:22 AM	Air
1111437-033	VA0812		10/31/2011 9:45 AM	11/14/2011 9:22 AM	Air
1111437-034	VA0813		10/31/2011 10:35 AM	11/14/2011 9:22 AM	Air
1111437-034	VA0813		10/31/2011 10:35 AM	11/14/2011 9:22 AM	Air
1111437-035	VA0814		10/31/2011 11:16 AM	11/14/2011 9:22 AM	Air
1111437-035	VA0814		10/31/2011 11:16 AM	11/14/2011 9:22 AM	Air
1111437-036	VA0815		10/31/2011 12:56 PM	11/14/2011 9:22 AM	Air
1111437-036	VA0815		10/31/2011 12:56 PM	11/14/2011 9:22 AM	Air
1111437-037	VA0816		10/31/2011 1:51 PM	11/14/2011 9:22 AM	Air
1111437-037	VA0816		10/31/2011 1:51 PM	11/14/2011 9:22 AM	Air
1111437-038	VA0924		10/26/2011 2:36 PM	11/14/2011 9:22 AM	Air
1111437-038	VA0924		10/26/2011 2:36 PM	11/14/2011 9:22 AM	Air
1111437-039	VA0925		10/26/2011 3:03 PM	11/14/2011 9:22 AM	Air
1111437-039	VA0925		10/26/2011 3:03 PM	11/14/2011 9:22 AM	Air
1111437-040	VA0926		10/26/2011 3:32 PM	11/14/2011 9:22 AM	Air
1111437-040	VA0926		10/26/2011 3:32 PM	11/14/2011 9:22 AM	Air
1111437-041	VA0927		10/27/2011 10:43 AM	11/14/2011 9:22 AM	Air
1111437-041	VA0927		10/27/2011 10:43 AM	11/14/2011 9:22 AM	Air
1111437-042	VA0928		10/27/2011 11:27 AM	11/14/2011 9:22 AM	Air
1111437-042	VA0928		10/27/2011 11:27 AM	11/14/2011 9:22 AM	Air
1111437-043	VA0929		10/27/2011 12:08 PM	11/14/2011 9:22 AM	Air
1111437-043	VA0929		10/27/2011 12:08 PM	11/14/2011 9:22 AM	Air
1111437-044	VA8057-TB		10/26/2011 4:00 PM	11/14/2011 9:22 AM	Air

RTI Laboratories - DATES REPORT

WO#: 1111437

Date Reported: 12/21/2011
Revision v1

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1111437-001A	VA0692-FQ	11/2/2011 8:40 AM	Air				
				MA_APH-Air-Phase Petroleum Hydrocarbons			11/17/2011 6:31 PM
				EPA_TO15-Volatile Organic Compounds			11/18/2011 7:31 AM
1111437-001B	VA0692-FQ	11/2/2011 8:40 AM	Air				
				ASTM-D2504-Noncondensable Gases and Light Hydrocarbons			11/21/2011 9:30 PM
1111437-002A	VA0693-FQ	11/2/2011 9:02 AM	Air				
				MA_APH-Air-Phase Petroleum Hydrocarbons			11/16/2011 11:30 PM
				EPA_TO15-Volatile Organic Compounds			11/18/2011 8:12 AM
1111437-002B	VA0693-FQ	11/2/2011 9:02 AM	Air				
				ASTM-D2504-Noncondensable Gases and Light Hydrocarbons			11/21/2011 9:52 PM
1111437-003A	VA0694-FQ	11/2/2011 9:37 AM	Air				
				MA_APH-Air-Phase Petroleum Hydrocarbons			11/17/2011 7:22 PM
				EPA_TO15-Volatile Organic Compounds			11/18/2011 8:59 AM
1111437-003B	VA0694-FQ	11/2/2011 9:37 AM	Air				
				ASTM-D2504-Noncondensable Gases and Light Hydrocarbons			11/21/2011 10:15 PM
1111437-004A	VA0716	10/31/2011 3:35 PM	Air				
				MA_APH-Air-Phase Petroleum Hydrocarbons			11/16/2011 4:13 PM
				EPA_TO15-Volatile Organic Compounds			11/17/2011 1:25 AM
				EPA_TO15-Volatile Organic Compounds			11/18/2011 2:34 PM
1111437-004B	VA0716	10/31/2011 3:35 PM	Air				
				ASTM-D2504-Noncondensable Gases and Light Hydrocarbons			11/21/2011 10:34 PM
1111437-005A	VA0717	10/31/2011 3:58 PM	Air				
				MA_APH-Air-Phase Petroleum Hydrocarbons			11/15/2011 8:55 PM
				EPA_TO15-Volatile Organic Compounds			11/17/2011 2:09 AM
1111437-005B	VA0717	10/31/2011 3:58 PM	Air				
				ASTM-D2504-Noncondensable Gases and Light Hydrocarbons			11/22/2011 3:19 PM
1111437-006A	VA0718	10/31/2011 4:20 PM	Air				
				MA_APH-Air-Phase Petroleum Hydrocarbons			11/16/2011 4:57 PM
				EPA_TO15-Volatile Organic Compounds			11/17/2011 2:53 AM

RTI Laboratories - DATES REPORT

WO#: 1111437

Date Reported: 12/21/2011
Revision v1

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1111437-006B	VA0718	10/31/2011 4:20 PM	Air				
				ASTM-D2504-Noncondensable Gases and Light Hydrocarbons			11/22/2011 3:39 PM
1111437-007A	VA0719	10/31/2011 4:20 PM	Air				
				MA_APH-Air-Phase Petroleum Hydrocarbons			11/16/2011 5:42 PM
				EPA_TO15-Volatile Organic Compounds			11/17/2011 3:37 AM
1111437-007B	VA0719	10/31/2011 4:20 PM	Air				
				ASTM-D2504-Noncondensable Gases and Light Hydrocarbons			11/22/2011 4:28 PM
1111437-008A	VA0725	11/1/2011 12:49 PM	Air				
				MA_APH-Air-Phase Petroleum Hydrocarbons			11/16/2011 7:14 PM
				EPA_TO15-Volatile Organic Compounds			11/18/2011 3:59 AM
1111437-008B	VA0725	11/1/2011 12:49 PM	Air				
				ASTM-D2504-Noncondensable Gases and Light Hydrocarbons			11/22/2011 4:54 PM
1111437-009A	VA0726	11/1/2011 1:38 PM	Air				
				MA_APH-Air-Phase Petroleum Hydrocarbons			11/17/2011 8:07 PM
				EPA_TO15-Volatile Organic Compounds			11/18/2011 4:41 AM
1111437-009B	VA0726	11/1/2011 1:38 PM	Air				
				ASTM-D2504-Noncondensable Gases and Light Hydrocarbons			11/22/2011 5:35 PM
1111437-010A	VA0727	11/1/2011 2:16 PM	Air				
				MA_APH-Air-Phase Petroleum Hydrocarbons			11/16/2011 8:39 PM
				MA_APH-Air-Phase Petroleum Hydrocarbons			11/17/2011 11:05 PM
				EPA_TO15-Volatile Organic Compounds			11/18/2011 5:21 AM
				EPA_TO15-Volatile Organic Compounds			11/18/2011 4:37 PM
1111437-010B	VA0727	11/1/2011 2:16 PM	Air				
				ASTM-D2504-Noncondensable Gases and Light Hydrocarbons			11/22/2011 5:54 PM
1111437-011A	VA0728	11/1/2011 2:58 PM	Air				
				MA_APH-Air-Phase Petroleum Hydrocarbons			11/16/2011 10:04 PM
				EPA_TO15-Volatile Organic Compounds			11/18/2011 6:02 AM

RTI Laboratories - DATES REPORT

WO#: 1111437

Date Reported: 12/21/2011
Revision v1

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1111437-011B	VA0728	11/1/2011 2:58 PM	Air				
				ASTM-D2504-Noncondensable Gases and Light Hydrocarbons			11/22/2011 6:23 PM
1111437-012A	VA0729	11/2/2011 11:51 AM	Air				
				MA_APH-Air-Phase Petroleum Hydrocarbons			11/17/2011 12:56 AM
				EPA_TO15-Volatile Organic Compounds			11/18/2011 9:40 AM
1111437-012B	VA0729	11/2/2011 11:51 AM	Air				
				ASTM-D2504-Noncondensable Gases and Light Hydrocarbons			11/22/2011 6:42 PM
1111437-013A	VA0730	11/2/2011 12:18 PM	Air				
				MA_APH-Air-Phase Petroleum Hydrocarbons			11/17/2011 11:50 PM
				EPA_TO15-Volatile Organic Compounds			11/18/2011 11:09 AM
1111437-013B	VA0730	11/2/2011 12:18 PM	Air				
				ASTM-D2504-Noncondensable Gases and Light Hydrocarbons			11/23/2011 2:03 PM
1111437-014A	VA0731	11/2/2011 12:18 PM	Air				
				MA_APH-Air-Phase Petroleum Hydrocarbons			11/18/2011 12:35 AM
				EPA_TO15-Volatile Organic Compounds			11/18/2011 11:49 AM
1111437-014B	VA0731	11/2/2011 12:18 PM	Air				
				ASTM-D2504-Noncondensable Gases and Light Hydrocarbons			11/23/2011 2:29 PM
1111437-015A	VA0732	11/2/2011 1:16 PM	Air				
				MA_APH-Air-Phase Petroleum Hydrocarbons			11/17/2011 3:18 PM
				EPA_TO15-Volatile Organic Compounds			11/18/2011 5:18 PM
1111437-015B	VA0732	11/2/2011 1:16 PM	Air				
				ASTM-D2504-Noncondensable Gases and Light Hydrocarbons			11/23/2011 3:00 PM
1111437-016A	VA0733	11/2/2011 2:08 PM	Air				
				MA_APH-Air-Phase Petroleum Hydrocarbons			11/17/2011 4:02 PM
				EPA_TO15-Volatile Organic Compounds			11/18/2011 1:12 PM
1111437-016B	VA0733	11/2/2011 2:08 PM	Air				
				ASTM-D2504-Noncondensable Gases and Light Hydrocarbons			11/23/2011 3:24 PM

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Date Reported: 12/21/2011
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Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1111437-017A	VA0752	11/1/2011 9:06 AM	Air				
				MA_APH-Air-Phase Petroleum Hydrocarbons			11/16/2011 7:34 AM
				EPA_TO15-Volatile Organic Compounds			11/17/2011 4:25 AM
1111437-017B	VA0752	11/1/2011 9:06 AM	Air				
				ASTM-D2504-Noncondensable Gases and Light Hydrocarbons			11/23/2011 3:46 PM
1111437-018A	VA0753	11/1/2011 9:37 AM	Air				
				MA_APH-Air-Phase Petroleum Hydrocarbons			11/16/2011 8:23 AM
				EPA_TO15-Volatile Organic Compounds			11/18/2011 2:31 AM
1111437-018B	VA0753	11/1/2011 9:37 AM	Air				
				ASTM-D2504-Noncondensable Gases and Light Hydrocarbons			11/23/2011 4:09 PM
1111437-019A	VA0754	11/1/2011 10:10 AM	Air				
				MA_APH-Air-Phase Petroleum Hydrocarbons			11/16/2011 6:31 PM
				EPA_TO15-Volatile Organic Compounds			11/18/2011 3:18 AM
1111437-019B	VA0754	11/1/2011 10:10 AM	Air				
				ASTM-D2504-Noncondensable Gases and Light Hydrocarbons			11/23/2011 4:49 PM
1111437-020A	VA0755	11/1/2011 10:38 AM	Air				
				ASTM-D2504-Noncondensable Gases and Light Hydrocarbons			11/23/2011 5:46 PM
1111437-021A	VA0774	10/25/2011 12:37 PM	Air				
				MA_APH-Air-Phase Petroleum Hydrocarbons			11/15/2011 3:42 AM
				EPA_TO15-Volatile Organic Compounds			11/16/2011 2:29 PM
				EPA_TO15-Volatile Organic Compounds			11/18/2011 1:53 PM
1111437-021B	VA0774	10/25/2011 12:37 PM	Air				
				ASTM-D2504-Noncondensable Gases and Light Hydrocarbons			11/21/2011 1:05 PM
1111437-022A	VA0775	10/25/2011 1:26 PM	Air				
				MA_APH-Air-Phase Petroleum Hydrocarbons			11/14/2011 8:26 PM
				EPA_TO15-Volatile Organic Compounds			11/15/2011 3:46 PM
1111437-022B	VA0775	10/25/2011 1:26 PM	Air				
				ASTM-D2504-Noncondensable Gases and Light Hydrocarbons			11/21/2011 1:29 PM

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Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1111437-023A	VA0776	10/25/2011 2:16 PM	Air				
				MA_APH-Air-Phase Petroleum Hydrocarbons			11/14/2011 9:51 PM
				EPA_TO15-Volatile Organic Compounds			11/15/2011 4:31 PM
1111437-023B	VA0776	10/25/2011 2:16 PM	Air				
				ASTM-D2504-Noncondensable Gases and Light Hydrocarbons			11/21/2011 1:59 PM
1111437-024A	VA0803	10/26/2011 9:07 AM	Air				
				MA_APH-Air-Phase Petroleum Hydrocarbons			11/15/2011 1:34 PM
				EPA_TO15-Volatile Organic Compounds			11/16/2011 3:10 PM
1111437-024B	VA0803	10/26/2011 9:07 AM	Air				
				ASTM-D2504-Noncondensable Gases and Light Hydrocarbons			11/21/2011 2:19 PM
1111437-025A	VA0804	10/26/2011 9:40 AM	Air				
				MA_APH-Air-Phase Petroleum Hydrocarbons			11/15/2011 6:27 AM
				EPA_TO15-Volatile Organic Compounds			11/16/2011 3:58 PM
1111437-025B	VA0804	10/26/2011 9:40 AM	Air				
				ASTM-D2504-Noncondensable Gases and Light Hydrocarbons			11/21/2011 2:47 PM
1111437-026A	VA0805	10/26/2011 9:40 AM	Air				
				MA_APH-Air-Phase Petroleum Hydrocarbons			11/15/2011 7:16 AM
				EPA_TO15-Volatile Organic Compounds			11/16/2011 4:47 PM
1111437-026B	VA0805	10/26/2011 9:40 AM	Air				
				ASTM-D2504-Noncondensable Gases and Light Hydrocarbons			11/21/2011 3:55 PM
1111437-027A	VA0806	10/26/2011 10:30 AM	Air				
				MA_APH-Air-Phase Petroleum Hydrocarbons			11/15/2011 8:06 AM
				EPA_TO15-Volatile Organic Compounds			11/16/2011 5:38 PM
				EPA_TO15-Volatile Organic Compounds			11/18/2011 10:27 AM
1111437-027B	VA0806	10/26/2011 10:30 AM	Air				
				ASTM-D2504-Noncondensable Gases and Light Hydrocarbons			11/21/2011 4:16 PM
1111437-028A	VA0807	10/26/2011 11:10 AM	Air				
				MA_APH-Air-Phase Petroleum Hydrocarbons			11/15/2011 2:17 PM
				EPA_TO15-Volatile Organic Compounds			11/16/2011 6:19 PM

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Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1111437-028A	VA0807	10/26/2011 11:10 AM	Air	EPA_TO15-Volatile Organic Compounds			11/18/2011 12:20 AM
1111437-028B	VA0807	10/26/2011 11:10 AM	Air	ASTM-D2504-Noncondensable Gases and Light Hydrocarbons			11/21/2011 4:35 PM
1111437-029A	VA0808	10/26/2011 12:01 PM	Air	MA_APH-Air-Phase Petroleum Hydrocarbons			11/15/2011 3:42 PM
				EPA_TO15-Volatile Organic Compounds			11/15/2011 3:40 AM
1111437-029B	VA0808	10/26/2011 12:01 PM	Air	ASTM-D2504-Noncondensable Gases and Light Hydrocarbons			11/21/2011 5:10 PM
1111437-030A	VA0809	10/26/2011 12:51 PM	Air	MA_APH-Air-Phase Petroleum Hydrocarbons			11/15/2011 4:25 PM
				EPA_TO15-Volatile Organic Compounds			11/15/2011 4:21 AM
1111437-030B	VA0809	10/26/2011 12:51 PM	Air	ASTM-D2504-Noncondensable Gases and Light Hydrocarbons			11/21/2011 5:33 PM
1111437-031A	VA0810	10/31/2011 9:12 AM	Air	MA_APH-Air-Phase Petroleum Hydrocarbons			11/16/2011 1:22 PM
				EPA_TO15-Volatile Organic Compounds			11/15/2011 9:12 AM
1111437-031B	VA0810	10/31/2011 9:12 AM	Air	ASTM-D2504-Noncondensable Gases and Light Hydrocarbons			11/23/2011 8:11 PM
1111437-032A	VA0811	10/31/2011 9:45 AM	Air	ASTM-D2504-Noncondensable Gases and Light Hydrocarbons			11/23/2011 8:29 PM
1111437-033A	VA0812	10/31/2011 9:45 AM	Air	MA_APH-Air-Phase Petroleum Hydrocarbons			11/16/2011 2:05 PM
				EPA_TO15-Volatile Organic Compounds			11/15/2011 5:45 AM
				EPA_TO15-Volatile Organic Compounds			11/15/2011 9:54 AM
1111437-033B	VA0812	10/31/2011 9:45 AM	Air	ASTM-D2504-Noncondensable Gases and Light Hydrocarbons			11/23/2011 8:49 PM

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Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1111437-034A	VA0813	10/31/2011 10:35 AM	Air				
				MA_APH-Air-Phase Petroleum Hydrocarbons			11/16/2011 2:48 PM
				EPA_TO15-Volatile Organic Compounds			11/15/2011 11:23 AM
1111437-034B	VA0813	10/31/2011 10:35 AM	Air				
				ASTM-D2504-Noncondensable Gases and Light Hydrocarbons			11/23/2011 9:09 PM
1111437-035A	VA0814	10/31/2011 11:16 AM	Air				
				MA_APH-Air-Phase Petroleum Hydrocarbons			11/16/2011 3:30 PM
				EPA_TO15-Volatile Organic Compounds			11/15/2011 1:34 PM
1111437-035B	VA0814	10/31/2011 11:16 AM	Air				
				ASTM-D2504-Noncondensable Gases and Light Hydrocarbons			11/23/2011 9:28 PM
1111437-036A	VA0815	10/31/2011 12:56 PM	Air				
				MA_APH-Air-Phase Petroleum Hydrocarbons			11/15/2011 11:56 PM
				EPA_TO15-Volatile Organic Compounds			11/15/2011 2:16 PM
				EPA_TO15-Volatile Organic Compounds			11/17/2011 12:03 AM
1111437-036B	VA0815	10/31/2011 12:56 PM	Air				
				ASTM-D2504-Noncondensable Gases and Light Hydrocarbons			11/23/2011 9:46 PM
1111437-037A	VA0816	10/31/2011 1:51 PM	Air				
				MA_APH-Air-Phase Petroleum Hydrocarbons			11/15/2011 2:07 AM
				EPA_TO15-Volatile Organic Compounds			11/17/2011 12:44 AM
1111437-037B	VA0816	10/31/2011 1:51 PM	Air				
				ASTM-D2504-Noncondensable Gases and Light Hydrocarbons			11/23/2011 10:08 PM
1111437-038A	VA0924	10/26/2011 2:36 PM	Air				
				MA_APH-Air-Phase Petroleum Hydrocarbons			11/14/2011 2:37 PM
				EPA_TO15-Volatile Organic Compounds			11/16/2011 7:06 PM
1111437-038B	VA0924	10/26/2011 2:36 PM	Air				
				ASTM-D2504-Noncondensable Gases and Light Hydrocarbons			11/21/2011 6:59 PM
1111437-039A	VA0925	10/26/2011 3:03 PM	Air				
				MA_APH-Air-Phase Petroleum Hydrocarbons			11/14/2011 4:10 PM
				EPA_TO15-Volatile Organic Compounds			11/16/2011 7:53 PM

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Date Reported: 12/21/2011
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Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1111437-039B	VA0925	10/26/2011 3:03 PM	Air				
				ASTM-D2504-Noncondensable Gases and Light Hydrocarbons			11/21/2011 7:20 PM
1111437-040A	VA0926	10/26/2011 3:32 PM	Air				
				MA_APH-Air-Phase Petroleum Hydrocarbons			11/15/2011 2:59 PM
				EPA_TO15-Volatile Organic Compounds			11/16/2011 8:33 PM
1111437-040B	VA0926	10/26/2011 3:32 PM	Air				
				ASTM-D2504-Noncondensable Gases and Light Hydrocarbons			11/21/2011 7:48 PM
1111437-041A	VA0927	10/27/2011 10:43 AM	Air				
				MA_APH-Air-Phase Petroleum Hydrocarbons			11/15/2011 2:56 AM
				EPA_TO15-Volatile Organic Compounds			11/18/2011 1:02 AM
1111437-041B	VA0927	10/27/2011 10:43 AM	Air				
				ASTM-D2504-Noncondensable Gases and Light Hydrocarbons			11/21/2011 8:12 PM
1111437-042A	VA0928	10/27/2011 11:27 AM	Air				
				MA_APH-Air-Phase Petroleum Hydrocarbons			11/14/2011 5:35 PM
				EPA_TO15-Volatile Organic Compounds			11/16/2011 9:58 PM
1111437-042B	VA0928	10/27/2011 11:27 AM	Air				
				ASTM-D2504-Noncondensable Gases and Light Hydrocarbons			11/21/2011 8:44 PM
1111437-043A	VA0929	10/27/2011 12:08 PM	Air				
				MA_APH-Air-Phase Petroleum Hydrocarbons			11/14/2011 7:01 PM
				EPA_TO15-Volatile Organic Compounds			11/16/2011 10:39 PM
1111437-043B	VA0929	10/27/2011 12:08 PM	Air				
				ASTM-D2504-Noncondensable Gases and Light Hydrocarbons			11/21/2011 9:08 PM
1111437-044A	VA8057-TB	10/26/2011 4:00 PM	Air				
				EPA_TO15-Volatile Organic Compounds			11/15/2011 2:58 AM

RTI Laboratories - Analytical Report

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Date Reported: 12/21/2011
Revision v1

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	11/2/2011 8:40:00 AM
Project:	Kirtland AFB		
Lab ID:	1111437-001	**Matrix:**	Air
Client Sample ID:	VA0692-FQ		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Noncondensable Gases and Light Hydrocarbons	**Method: ASTM-D2504**					**Analyst: MB**
Carbon dioxide	4.1	0.10		%	1	11/21/2011 9:30 PM
Carbon Monoxide	ND	0.10	U	%	1	11/21/2011 9:30 PM
Methane	ND	0.50	U	%	1	11/21/2011 9:30 PM
Nitrogen	80	0.10		%	1	11/21/2011 9:30 PM
Oxygen	16	0.10		%	1	11/21/2011 9:30 PM
Volatile Organic Compounds	**Method: TO-15**					**Analyst: RH3**
1,1,1-Trichloroethane	ND	400	U	ppbv	400	11/18/2011 7:31 AM
1,1,2,2-Tetrachloroethane	ND	400	U	ppbv	400	11/18/2011 7:31 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	400	U	ppbv	400	11/18/2011 7:31 AM
1,1,2-Trichloroethane	ND	400	U	ppbv	400	11/18/2011 7:31 AM
1,1-Dichloroethane	ND	400	U	ppbv	400	11/18/2011 7:31 AM
1,1-Dichloroethene	ND	400	U	ppbv	400	11/18/2011 7:31 AM
1,2,4-Trichlorobenzene	ND	400	U	ppbv	400	11/18/2011 7:31 AM
1,2,4-Trimethylbenzene	ND	400	U	ppbv	400	11/18/2011 7:31 AM
1,2-Dibromoethane	ND	400	U	ppbv	400	11/18/2011 7:31 AM
1,2-Dichlorobenzene	ND	400	U	ppbv	400	11/18/2011 7:31 AM
1,2-Dichloroethane	ND	400	U	ppbv	400	11/18/2011 7:31 AM
1,2-Dichloropropane	ND	400	U	ppbv	400	11/18/2011 7:31 AM
1,3,5-Trimethylbenzene	ND	400	U	ppbv	400	11/18/2011 7:31 AM
1,3-Butadiene	ND	400	U	ppbv	400	11/18/2011 7:31 AM
1,3-Dichlorobenzene	ND	400	U	ppbv	400	11/18/2011 7:31 AM
1,4-Dichlorobenzene	ND	400	U	ppbv	400	11/18/2011 7:31 AM
2-Butanone	ND	400	U	ppbv	400	11/18/2011 7:31 AM
2-Hexanone	ND	400	U	ppbv	400	11/18/2011 7:31 AM
4-Methyl-2-pentanone	ND	400	U	ppbv	400	11/18/2011 7:31 AM
Acetone	620	400		ppbv	400	11/18/2011 7:31 AM
Benzene	2,700	400		ppbv	400	11/18/2011 7:31 AM
Benzyl chloride	ND	400	U	ppbv	400	11/18/2011 7:31 AM
Bromodichloromethane	ND	400	U	ppbv	400	11/18/2011 7:31 AM
Bromoform	ND	400	U	ppbv	400	11/18/2011 7:31 AM
Bromomethane	ND	400	U	ppbv	400	11/18/2011 7:31 AM
Carbon disulfide	ND	400	U	ppbv	400	11/18/2011 7:31 AM
Carbon tetrachloride	ND	400	U	ppbv	400	11/18/2011 7:31 AM
Chlorobenzene	ND	400	U	ppbv	400	11/18/2011 7:31 AM
Chlorodibromomethane	ND	400	U	ppbv	400	11/18/2011 7:31 AM
Chloroethane	ND	400	U	ppbv	400	11/18/2011 7:31 AM
Chloroform	ND	400	U	ppbv	400	11/18/2011 7:31 AM
Chloromethane	ND	400	U	ppbv	400	11/18/2011 7:31 AM
cis-1,2-Dichloroethene	ND	400	U	ppbv	400	11/18/2011 7:31 AM
cis-1,3-dichloropropene	ND	400	U	ppbv	400	11/18/2011 7:31 AM

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	11/2/2011 8:40:00 AM
Project:	Kirtland AFB		
Lab ID:	1111437-001	**Matrix:**	Air
Client Sample ID:	VA0692-FQ		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Cyclohexane	2,700	800		ppbv	400	11/18/2011 7:31 AM
Dichlorodifluoromethane	ND	400	U	ppbv	400	11/18/2011 7:31 AM
Ethyl acetate	ND	400	U	ppbv	400	11/18/2011 7:31 AM
Ethylbenzene	590	800	J	ppbv	400	11/18/2011 7:31 AM
Heptane	2,000	400		ppbv	400	11/18/2011 7:31 AM
Hexachlorobutadiene	ND	800	U	ppbv	400	11/18/2011 7:31 AM
m,p-Xylene	1,900	800		ppbv	400	11/18/2011 7:31 AM
Methylene chloride	1,100	2,000	J	ppbv	400	11/18/2011 7:31 AM
n-Hexane	1,800	800		ppbv	400	11/18/2011 7:31 AM
Naphthalene	ND	400	U	ppbv	400	11/18/2011 7:31 AM
o-Xylene	600	400		ppbv	400	11/18/2011 7:31 AM
Propylene	ND	400	U	ppbv	400	11/18/2011 7:31 AM
Styrene	ND	400	U	ppbv	400	11/18/2011 7:31 AM
tert-Butyl Methyl Ether	ND	400	U	ppbv	400	11/18/2011 7:31 AM
Tetrachloroethene	ND	400	U	ppbv	400	11/18/2011 7:31 AM
Tetrahydrofuran	ND	400	U	ppbv	400	11/18/2011 7:31 AM
Toluene	7,700	400		ppbv	400	11/18/2011 7:31 AM
trans-1,2-Dichloroethene	ND	400	U	ppbv	400	11/18/2011 7:31 AM
trans-1,3-dichloropropene	ND	400	U	ppbv	400	11/18/2011 7:31 AM
Trichloroethene	ND	400	U	ppbv	400	11/18/2011 7:31 AM
Trichlorofluoromethane	ND	400	U	ppbv	400	11/18/2011 7:31 AM
Vinyl acetate	ND	400	U	ppbv	400	11/18/2011 7:31 AM
Vinyl chloride	ND	400	U	ppbv	400	11/18/2011 7:31 AM
Xylenes, Total	2,500	1,200		ppbv	400	11/18/2011 7:31 AM
Surr: 4-Bromofluorobenzene	108	70-130		%REC	400	11/18/2011 7:31 AM
Mass APH Air	**Method:**					**Analyst: RH3**
Air-Phase Petroleum Hydrocarbons						
C5-C8 Aliphatic Hydrocarbons	250,000	47,000		µg/m³	400	11/17/2011 6:31 PM
C9-C10 Aromatic Hydrocarbons	ND	53,000	U	µg/m³	400	11/17/2011 6:31 PM
C9-C12 Aliphatic Hydrocarbons	ND	76,000	U	µg/m³	400	11/17/2011 6:31 PM
Surr: 4-Bromofluorobenzene	98.8	70-130		%REC	400	11/17/2011 6:31 PM

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Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	11/2/2011 9:02:00 AM
Project:	Kirtland AFB		
Lab ID:	1111437-002	**Matrix:**	Air
Client Sample ID:	VA0693-FQ		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Noncondensable Gases and Light Hydrocarbons	**Method: ASTM-D2504**					**Analyst: MB**
Carbon dioxide	5.3	0.10		%	1	11/21/2011 9:52 PM
Carbon Monoxide	ND	0.10	U	%	1	11/21/2011 9:52 PM
Methane	ND	0.50	U	%	1	11/21/2011 9:52 PM
Nitrogen	81	0.10		%	1	11/21/2011 9:52 PM
Oxygen	14	0.10		%	1	11/21/2011 9:52 PM
Volatile Organic Compounds	**Method: TO-15**					**Analyst: RH3**
1,1,1-Trichloroethane	ND	8,000	U	ppbv	8000	11/18/2011 8:12 AM
1,1,2,2-Tetrachloroethane	ND	8,000	U	ppbv	8000	11/18/2011 8:12 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	8,000	U	ppbv	8000	11/18/2011 8:12 AM
1,1,2-Trichloroethane	ND	8,000	U	ppbv	8000	11/18/2011 8:12 AM
1,1-Dichloroethane	ND	8,000	U	ppbv	8000	11/18/2011 8:12 AM
1,1-Dichloroethene	ND	8,000	U	ppbv	8000	11/18/2011 8:12 AM
1,2,4-Trichlorobenzene	ND	8,000	U	ppbv	8000	11/18/2011 8:12 AM
1,2,4-Trimethylbenzene	ND	8,000	U	ppbv	8000	11/18/2011 8:12 AM
1,2-Dibromoethane	ND	8,000	U	ppbv	8000	11/18/2011 8:12 AM
1,2-Dichlorobenzene	ND	8,000	U	ppbv	8000	11/18/2011 8:12 AM
1,2-Dichloroethane	ND	8,000	U	ppbv	8000	11/18/2011 8:12 AM
1,2-Dichloropropane	ND	8,000	U	ppbv	8000	11/18/2011 8:12 AM
1,3,5-Trimethylbenzene	ND	8,000	U	ppbv	8000	11/18/2011 8:12 AM
1,3-Butadiene	ND	8,000	U	ppbv	8000	11/18/2011 8:12 AM
1,3-Dichlorobenzene	ND	8,000	U	ppbv	8000	11/18/2011 8:12 AM
1,4-Dichlorobenzene	ND	8,000	U	ppbv	8000	11/18/2011 8:12 AM
2-Butanone	ND	8,000	U	ppbv	8000	11/18/2011 8:12 AM
2-Hexanone	ND	8,000	U	ppbv	8000	11/18/2011 8:12 AM
4-Methyl-2-pentanone	ND	8,000	U	ppbv	8000	11/18/2011 8:12 AM
Acetone	ND	8,000	U	ppbv	8000	11/18/2011 8:12 AM
Benzene	110,000	8,000		ppbv	8000	11/18/2011 8:12 AM
Benzyl chloride	ND	8,000	U	ppbv	8000	11/18/2011 8:12 AM
Bromodichloromethane	ND	8,000	U	ppbv	8000	11/18/2011 8:12 AM
Bromoform	ND	8,000	U	ppbv	8000	11/18/2011 8:12 AM
Bromomethane	ND	8,000	U	ppbv	8000	11/18/2011 8:12 AM
Carbon disulfide	ND	8,000	U	ppbv	8000	11/18/2011 8:12 AM
Carbon tetrachloride	ND	8,000	U	ppbv	8000	11/18/2011 8:12 AM
Chlorobenzene	ND	8,000	U	ppbv	8000	11/18/2011 8:12 AM
Chlorodibromomethane	ND	8,000	U	ppbv	8000	11/18/2011 8:12 AM
Chloroethane	ND	8,000	U	ppbv	8000	11/18/2011 8:12 AM
Chloroform	ND	8,000	U	ppbv	8000	11/18/2011 8:12 AM
Chloromethane	ND	8,000	U	ppbv	8000	11/18/2011 8:12 AM
cis-1,2-Dichloroethene	ND	8,000	U	ppbv	8000	11/18/2011 8:12 AM
cis-1,3-dichloropropene	ND	8,000	U	ppbv	8000	11/18/2011 8:12 AM

RTI Laboratories - Analytical Report

WO#: 1111437

Date Reported: 12/21/2011
Revision v1

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	11/2/2011 9:02:00 AM
Project:	Kirtland AFB		
Lab ID:	1111437-002	**Matrix:**	Air
Client Sample ID:	VA0693-FQ		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Cyclohexane	310,000	16,000		ppbv	8000	11/18/2011 8:12 AM
Dichlorodifluoromethane	ND	8,000	U	ppbv	8000	11/18/2011 8:12 AM
Ethyl acetate	ND	8,000	U	ppbv	8000	11/18/2011 8:12 AM
Ethylbenzene	ND	16,000	U	ppbv	8000	11/18/2011 8:12 AM
Heptane	110,000	8,000		ppbv	8000	11/18/2011 8:12 AM
Hexachlorobutadiene	ND	16,000	U	ppbv	8000	11/18/2011 8:12 AM
m,p-Xylene	14,000	16,000	J	ppbv	8000	11/18/2011 8:12 AM
Methylene chloride	ND	40,000	U	ppbv	8000	11/18/2011 8:12 AM
n-Hexane	250,000	16,000		ppbv	8000	11/18/2011 8:12 AM
Naphthalene	ND	8,000	U	ppbv	8000	11/18/2011 8:12 AM
o-Xylene	ND	8,000	U	ppbv	8000	11/18/2011 8:12 AM
Propylene	ND	8,000	U	ppbv	8000	11/18/2011 8:12 AM
Styrene	ND	8,000	U	ppbv	8000	11/18/2011 8:12 AM
tert-Butyl Methyl Ether	ND	8,000	U	ppbv	8000	11/18/2011 8:12 AM
Tetrachloroethene	ND	8,000	U	ppbv	8000	11/18/2011 8:12 AM
Tetrahydrofuran	ND	8,000	U	ppbv	8000	11/18/2011 8:12 AM
Toluene	200,000	8,000		ppbv	8000	11/18/2011 8:12 AM
trans-1,2-Dichloroethene	ND	8,000	U	ppbv	8000	11/18/2011 8:12 AM
trans-1,3-dichloropropene	ND	8,000	U	ppbv	8000	11/18/2011 8:12 AM
Trichloroethene	ND	8,000	U	ppbv	8000	11/18/2011 8:12 AM
Trichlorofluoromethane	ND	8,000	U	ppbv	8000	11/18/2011 8:12 AM
Vinyl acetate	ND	8,000	U	ppbv	8000	11/18/2011 8:12 AM
Vinyl chloride	ND	8,000	U	ppbv	8000	11/18/2011 8:12 AM
Xylenes, Total	14,000	24,000	J	ppbv	8000	11/18/2011 8:12 AM
Surr: 4-Bromofluorobenzene	113	70-130		%REC	8000	11/18/2011 8:12 AM
Mass APH Air	**Method:**					**Analyst: RH3**
Air-Phase Petroleum Hydrocarbons						
C5-C8 Aliphatic Hydrocarbons	9,300,000	940,000		µg/m³	8000	11/16/2011 11:30 PM
C9-C10 Aromatic Hydrocarbons	ND	1,100,000	U	µg/m³	8000	11/16/2011 11:30 PM
C9-C12 Aliphatic Hydrocarbons	ND	1,500,000	U	µg/m³	8000	11/16/2011 11:30 PM
Surr: 4-Bromofluorobenzene	94.6	70-130		%REC	8000	11/16/2011 11:30 PM

RTI Laboratories - Analytical Report

WO#: 1111437

Date Reported: 12/21/2011
Revision v1

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	11/2/2011 9:37:00 AM
Project:	Kirtland AFB		
Lab ID:	1111437-003	**Matrix:**	Air
Client Sample ID:	VA0694-FQ		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Noncondensable Gases and Light Hydrocarbons	**Method: ASTM-D2504**					**Analyst: MB**
Carbon dioxide	0.25	0.10		%	1	11/21/2011 10:15 PM
Carbon Monoxide	ND	0.10	U	%	1	11/21/2011 10:15 PM
Methane	ND	0.50	U	%	1	11/21/2011 10:15 PM
Nitrogen	78	0.10		%	1	11/21/2011 10:15 PM
Oxygen	21	0.10		%	1	11/21/2011 10:15 PM
Volatile Organic Compounds	**Method: TO-15**					**Analyst: RH3**
1,1,1-Trichloroethane	ND	400	U	ppbv	400	11/18/2011 8:59 AM
1,1,2,2-Tetrachloroethane	ND	400	U	ppbv	400	11/18/2011 8:59 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	400	U	ppbv	400	11/18/2011 8:59 AM
1,1,2-Trichloroethane	ND	400	U	ppbv	400	11/18/2011 8:59 AM
1,1-Dichloroethane	ND	400	U	ppbv	400	11/18/2011 8:59 AM
1,1-Dichloroethene	ND	400	U	ppbv	400	11/18/2011 8:59 AM
1,2,4-Trichlorobenzene	ND	400	U	ppbv	400	11/18/2011 8:59 AM
1,2,4-Trimethylbenzene	ND	400	U	ppbv	400	11/18/2011 8:59 AM
1,2-Dibromoethane	ND	400	U	ppbv	400	11/18/2011 8:59 AM
1,2-Dichlorobenzene	ND	400	U	ppbv	400	11/18/2011 8:59 AM
1,2-Dichloroethane	ND	400	U	ppbv	400	11/18/2011 8:59 AM
1,2-Dichloropropane	ND	400	U	ppbv	400	11/18/2011 8:59 AM
1,3,5-Trimethylbenzene	ND	400	U	ppbv	400	11/18/2011 8:59 AM
1,3-Butadiene	ND	400	U	ppbv	400	11/18/2011 8:59 AM
1,3-Dichlorobenzene	ND	400	U	ppbv	400	11/18/2011 8:59 AM
1,4-Dichlorobenzene	ND	400	U	ppbv	400	11/18/2011 8:59 AM
2-Butanone	ND	400	U	ppbv	400	11/18/2011 8:59 AM
2-Hexanone	ND	400	U	ppbv	400	11/18/2011 8:59 AM
4-Methyl-2-pentanone	ND	400	U	ppbv	400	11/18/2011 8:59 AM
Acetone	440	400		ppbv	400	11/18/2011 8:59 AM
Benzene	4,900	400		ppbv	400	11/18/2011 8:59 AM
Benzyl chloride	ND	400	U	ppbv	400	11/18/2011 8:59 AM
Bromodichloromethane	ND	400	U	ppbv	400	11/18/2011 8:59 AM
Bromoform	ND	400	U	ppbv	400	11/18/2011 8:59 AM
Bromomethane	ND	400	U	ppbv	400	11/18/2011 8:59 AM
Carbon disulfide	ND	400	U	ppbv	400	11/18/2011 8:59 AM
Carbon tetrachloride	ND	400	U	ppbv	400	11/18/2011 8:59 AM
Chlorobenzene	ND	400	U	ppbv	400	11/18/2011 8:59 AM
Chlorodibromomethane	ND	400	U	ppbv	400	11/18/2011 8:59 AM
Chloroethane	ND	400	U	ppbv	400	11/18/2011 8:59 AM
Chloroform	ND	400	U	ppbv	400	11/18/2011 8:59 AM
Chloromethane	ND	400	U	ppbv	400	11/18/2011 8:59 AM
cis-1,2-Dichloroethene	ND	400	U	ppbv	400	11/18/2011 8:59 AM
cis-1,3-dichloropropene	ND	400	U	ppbv	400	11/18/2011 8:59 AM

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	11/2/2011 9:37:00 AM
Project:	Kirtland AFB		
Lab ID:	1111437-003	**Matrix:**	Air
Client Sample ID:	VA0694-FQ		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Cyclohexane	6,300	800		ppbv	400	11/18/2011 8:59 AM
Dichlorodifluoromethane	ND	400	U	ppbv	400	11/18/2011 8:59 AM
Ethyl acetate	ND	400	U	ppbv	400	11/18/2011 8:59 AM
Ethylbenzene	560	800	J	ppbv	400	11/18/2011 8:59 AM
Heptane	4,100	400		ppbv	400	11/18/2011 8:59 AM
Hexachlorobutadiene	ND	800	U	ppbv	400	11/18/2011 8:59 AM
m,p-Xylene	1,800	800		ppbv	400	11/18/2011 8:59 AM
Methylene chloride	ND	2,000	U	ppbv	400	11/18/2011 8:59 AM
n-Hexane	4,500	800		ppbv	400	11/18/2011 8:59 AM
Naphthalene	ND	400	U	ppbv	400	11/18/2011 8:59 AM
o-Xylene	580	400		ppbv	400	11/18/2011 8:59 AM
Propylene	ND	400	U	ppbv	400	11/18/2011 8:59 AM
Styrene	ND	400	U	ppbv	400	11/18/2011 8:59 AM
tert-Butyl Methyl Ether	ND	400	U	ppbv	400	11/18/2011 8:59 AM
Tetrachloroethene	ND	400	U	ppbv	400	11/18/2011 8:59 AM
Tetrahydrofuran	ND	400	U	ppbv	400	11/18/2011 8:59 AM
Toluene	10,000	400		ppbv	400	11/18/2011 8:59 AM
trans-1,2-Dichloroethene	ND	400	U	ppbv	400	11/18/2011 8:59 AM
trans-1,3-dichloropropene	ND	400	U	ppbv	400	11/18/2011 8:59 AM
Trichloroethene	ND	400	U	ppbv	400	11/18/2011 8:59 AM
Trichlorofluoromethane	ND	400	U	ppbv	400	11/18/2011 8:59 AM
Vinyl acetate	ND	400	U	ppbv	400	11/18/2011 8:59 AM
Vinyl chloride	ND	400	U	ppbv	400	11/18/2011 8:59 AM
Xylenes, Total	2,400	1,200		ppbv	400	11/18/2011 8:59 AM
Surr: 4-Bromofluorobenzene	107	70-130		%REC	400	11/18/2011 8:59 AM
Mass APH Air	**Method:**					**Analyst: RH3**
Air-Phase Petroleum Hydrocarbons						
C5-C8 Aliphatic Hydrocarbons	380,000	47,000		µg/m³	400	11/17/2011 7:22 PM
C9-C10 Aromatic Hydrocarbons	ND	53,000	U	µg/m³	400	11/17/2011 7:22 PM
C9-C12 Aliphatic Hydrocarbons	ND	76,000	U	µg/m³	400	11/17/2011 7:22 PM
Surr: 4-Bromofluorobenzene	98.6	70-130		%REC	400	11/17/2011 7:22 PM

RTI Laboratories - Analytical Report

WO#: 1111437

Date Reported: 12/21/2011
Revision v1

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	10/31/2011 3:35:00 PM
Project:	Kirtland AFB		
Lab ID:	1111437-004	**Matrix:**	Air
Client Sample ID:	VA0716		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Noncondensable Gases and Light Hydrocarbons	**Method: ASTM-D2504**					**Analyst: MB**
Carbon dioxide	10	0.10		%	1	11/21/2011 10:34 PM
Carbon Monoxide	ND	0.10	U	%	1	11/21/2011 10:34 PM
Methane	ND	0.50	U	%	1	11/21/2011 10:34 PM
Nitrogen	85	0.10		%	1	11/21/2011 10:34 PM
Oxygen	3.3	0.10		%	1	11/21/2011 10:34 PM
Volatile Organic Compounds	**Method: TO-15**					**Analyst: RH3**
1,1,1-Trichloroethane	ND	8,000	U	ppbv	8000	11/17/2011 1:25 AM
1,1,2,2-Tetrachloroethane	ND	8,000	U	ppbv	8000	11/17/2011 1:25 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	8,000	U	ppbv	8000	11/17/2011 1:25 AM
1,1,2-Trichloroethane	ND	8,000	U	ppbv	8000	11/17/2011 1:25 AM
1,1-Dichloroethane	ND	8,000	U	ppbv	8000	11/17/2011 1:25 AM
1,1-Dichloroethene	ND	8,000	U	ppbv	8000	11/17/2011 1:25 AM
1,2,4-Trichlorobenzene	ND	8,000	U	ppbv	8000	11/17/2011 1:25 AM
1,2,4-Trimethylbenzene	ND	8,000	U	ppbv	8000	11/17/2011 1:25 AM
1,2-Dibromoethane	ND	8,000	U	ppbv	8000	11/17/2011 1:25 AM
1,2-Dichlorobenzene	ND	8,000	U	ppbv	8000	11/17/2011 1:25 AM
1,2-Dichloroethane	ND	8,000	U	ppbv	8000	11/17/2011 1:25 AM
1,2-Dichloropropane	ND	8,000	U	ppbv	8000	11/17/2011 1:25 AM
1,3,5-Trimethylbenzene	ND	8,000	U	ppbv	8000	11/17/2011 1:25 AM
1,3-Butadiene	ND	8,000	U	ppbv	8000	11/17/2011 1:25 AM
1,3-Dichlorobenzene	ND	8,000	U	ppbv	8000	11/17/2011 1:25 AM
1,4-Dichlorobenzene	ND	8,000	U	ppbv	8000	11/17/2011 1:25 AM
2-Butanone	ND	8,000	U	ppbv	8000	11/17/2011 1:25 AM
2-Hexanone	ND	8,000	U	ppbv	8000	11/17/2011 1:25 AM
4-Methyl-2-pentanone	ND	8,000	U	ppbv	8000	11/17/2011 1:25 AM
Acetone	ND	8,000	U	ppbv	8000	11/17/2011 1:25 AM
Benzene	210,000	8,000		ppbv	8000	11/17/2011 1:25 AM
Benzyl chloride	ND	8,000	U	ppbv	8000	11/17/2011 1:25 AM
Bromodichloromethane	ND	8,000	U	ppbv	8000	11/17/2011 1:25 AM
Bromoform	ND	8,000	U	ppbv	8000	11/17/2011 1:25 AM
Bromomethane	ND	8,000	U	ppbv	8000	11/17/2011 1:25 AM
Carbon disulfide	ND	8,000	U	ppbv	8000	11/17/2011 1:25 AM
Carbon tetrachloride	ND	8,000	U	ppbv	8000	11/17/2011 1:25 AM
Chlorobenzene	ND	8,000	U	ppbv	8000	11/17/2011 1:25 AM
Chlorodibromomethane	ND	8,000	U	ppbv	8000	11/17/2011 1:25 AM
Chloroethane	ND	8,000	U	ppbv	8000	11/17/2011 1:25 AM
Chloroform	ND	8,000	U	ppbv	8000	11/17/2011 1:25 AM
Chloromethane	ND	8,000	U	ppbv	8000	11/17/2011 1:25 AM
cis-1,2-Dichloroethene	ND	8,000	U	ppbv	8000	11/17/2011 1:25 AM
cis-1,3-dichloropropene	ND	8,000	U	ppbv	8000	11/17/2011 1:25 AM

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	10/31/2011 3:35:00 PM
Project:	Kirtland AFB		
Lab ID:	1111437-004	**Matrix:**	Air
Client Sample ID:	VA0716		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Cyclohexane	830,000	40,000		ppbv	20000	11/18/2011 2:34 PM
Dichlorodifluoromethane	ND	8,000	U	ppbv	8000	11/17/2011 1:25 AM
Ethyl acetate	ND	8,000	U	ppbv	8000	11/17/2011 1:25 AM
Ethylbenzene	11,000	16,000	J	ppbv	8000	11/17/2011 1:25 AM
Heptane	220,000	8,000		ppbv	8000	11/17/2011 1:25 AM
Hexachlorobutadiene	ND	16,000	U	ppbv	8000	11/17/2011 1:25 AM
m,p-Xylene	23,000	16,000		ppbv	8000	11/17/2011 1:25 AM
Methylene chloride	ND	40,000	U	ppbv	8000	11/17/2011 1:25 AM
n-Hexane	840,000	40,000		ppbv	20000	11/18/2011 2:34 PM
Naphthalene	ND	8,000	U	ppbv	8000	11/17/2011 1:25 AM
o-Xylene	ND	8,000	U	ppbv	8000	11/17/2011 1:25 AM
Propylene	14,000	8,000		ppbv	8000	11/17/2011 1:25 AM
Styrene	ND	8,000	U	ppbv	8000	11/17/2011 1:25 AM
tert-Butyl Methyl Ether	ND	8,000	U	ppbv	8000	11/17/2011 1:25 AM
Tetrachloroethene	ND	8,000	U	ppbv	8000	11/17/2011 1:25 AM
Tetrahydrofuran	ND	8,000	U	ppbv	8000	11/17/2011 1:25 AM
Toluene	190,000	8,000		ppbv	8000	11/17/2011 1:25 AM
trans-1,2-Dichloroethene	ND	8,000	U	ppbv	8000	11/17/2011 1:25 AM
trans-1,3-dichloropropene	ND	8,000	U	ppbv	8000	11/17/2011 1:25 AM
Trichloroethene	ND	8,000	U	ppbv	8000	11/17/2011 1:25 AM
Trichlorofluoromethane	ND	8,000	U	ppbv	8000	11/17/2011 1:25 AM
Vinyl acetate	ND	8,000	U	ppbv	8000	11/17/2011 1:25 AM
Vinyl chloride	ND	8,000	U	ppbv	8000	11/17/2011 1:25 AM
Xylenes, Total	23,000	24,000	J	ppbv	8000	11/17/2011 1:25 AM
Surr: 4-Bromofluorobenzene	108	70-130		%REC	8000	11/17/2011 1:25 AM
Mass APH Air	**Method:**					**Analyst: RH3**
Air-Phase Petroleum Hydrocarbons						
C5-C8 Aliphatic Hydrocarbons	17,000,000	2,300,000		µg/m³	20000	11/16/2011 4:13 PM
C9-C10 Aromatic Hydrocarbons	ND	2,700,000	U	µg/m³	20000	11/16/2011 4:13 PM
C9-C12 Aliphatic Hydrocarbons	ND	3,800,000	U	µg/m³	20000	11/16/2011 4:13 PM
Surr: 4-Bromofluorobenzene	94.7	70-130		%REC	20000	11/16/2011 4:13 PM

RTI Laboratories - Analytical Report

WO#: 1111437

Date Reported: 12/21/2011
Revision v1

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	10/31/2011 3:58:00 PM
Project:	Kirtland AFB		
Lab ID:	1111437-005	**Matrix:**	Air
Client Sample ID:	VA0717		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Noncondensable Gases and Light Hydrocarbons	**Method: ASTM-D2504**					**Analyst: MB**
Carbon dioxide	9.2	0.10		%	1	11/22/2011 3:19 PM
Carbon Monoxide	ND	0.10	U	%	1	11/22/2011 3:19 PM
Methane	ND	0.50	U	%	1	11/22/2011 3:19 PM
Nitrogen	84	0.10		%	1	11/22/2011 3:19 PM
Oxygen	6.3	0.10		%	1	11/22/2011 3:19 PM
Volatile Organic Compounds	**Method: TO-15**					**Analyst: RH3**
1,1,1-Trichloroethane	ND	800	U	ppbv	800	11/17/2011 2:09 AM
1,1,2,2-Tetrachloroethane	ND	800	U	ppbv	800	11/17/2011 2:09 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	800	U	ppbv	800	11/17/2011 2:09 AM
1,1,2-Trichloroethane	ND	800	U	ppbv	800	11/17/2011 2:09 AM
1,1-Dichloroethane	ND	800	U	ppbv	800	11/17/2011 2:09 AM
1,1-Dichloroethene	ND	800	U	ppbv	800	11/17/2011 2:09 AM
1,2,4-Trichlorobenzene	ND	800	U	ppbv	800	11/17/2011 2:09 AM
1,2,4-Trimethylbenzene	2,000	800		ppbv	800	11/17/2011 2:09 AM
1,2-Dibromoethane	ND	800	U	ppbv	800	11/17/2011 2:09 AM
1,2-Dichlorobenzene	ND	800	U	ppbv	800	11/17/2011 2:09 AM
1,2-Dichloroethane	ND	800	U	ppbv	800	11/17/2011 2:09 AM
1,2-Dichloropropane	ND	800	U	ppbv	800	11/17/2011 2:09 AM
1,3,5-Trimethylbenzene	ND	800	U	ppbv	800	11/17/2011 2:09 AM
1,3-Butadiene	ND	800	U	ppbv	800	11/17/2011 2:09 AM
1,3-Dichlorobenzene	ND	800	U	ppbv	800	11/17/2011 2:09 AM
1,4-Dichlorobenzene	ND	800	U	ppbv	800	11/17/2011 2:09 AM
2-Butanone	ND	800	U	ppbv	800	11/17/2011 2:09 AM
2-Hexanone	ND	800	U	ppbv	800	11/17/2011 2:09 AM
4-Methyl-2-pentanone	ND	800	U	ppbv	800	11/17/2011 2:09 AM
Acetone	ND	800	U	ppbv	800	11/17/2011 2:09 AM
Benzene	15,000	800		ppbv	800	11/17/2011 2:09 AM
Benzyl chloride	ND	800	U	ppbv	800	11/17/2011 2:09 AM
Bromodichloromethane	ND	800	U	ppbv	800	11/17/2011 2:09 AM
Bromoform	ND	800	U	ppbv	800	11/17/2011 2:09 AM
Bromomethane	ND	800	U	ppbv	800	11/17/2011 2:09 AM
Carbon disulfide	ND	800	U	ppbv	800	11/17/2011 2:09 AM
Carbon tetrachloride	ND	800	U	ppbv	800	11/17/2011 2:09 AM
Chlorobenzene	ND	800	U	ppbv	800	11/17/2011 2:09 AM
Chlorodibromomethane	ND	800	U	ppbv	800	11/17/2011 2:09 AM
Chloroethane	ND	800	U	ppbv	800	11/17/2011 2:09 AM
Chloroform	ND	800	U	ppbv	800	11/17/2011 2:09 AM
Chloromethane	ND	800	U	ppbv	800	11/17/2011 2:09 AM
cis-1,2-Dichloroethene	ND	800	U	ppbv	800	11/17/2011 2:09 AM
cis-1,3-dichloropropene	ND	800	U	ppbv	800	11/17/2011 2:09 AM

RTI Laboratories - Analytical Report

WO#: 1111437

Date Reported: 12/21/2011
Revision v1

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	10/31/2011 3:58:00 PM
Project:	Kirtland AFB		
Lab ID:	1111437-005	**Matrix:**	Air
Client Sample ID:	VA0717		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Cyclohexane	27,000	1,600		ppbv	800	11/17/2011 2:09 AM
Dichlorodifluoromethane	ND	800	U	ppbv	800	11/17/2011 2:09 AM
Ethyl acetate	ND	800	U	ppbv	800	11/17/2011 2:09 AM
Ethylbenzene	2,800	1,600		ppbv	800	11/17/2011 2:09 AM
Heptane	17,000	800		ppbv	800	11/17/2011 2:09 AM
Hexachlorobutadiene	ND	1,600	U	ppbv	800	11/17/2011 2:09 AM
m,p-Xylene	7,000	1,600		ppbv	800	11/17/2011 2:09 AM
Methylene chloride	1,900	4,000	J	ppbv	800	11/17/2011 2:09 AM
n-Hexane	17,000	1,600		ppbv	800	11/17/2011 2:09 AM
Naphthalene	ND	800	U	ppbv	800	11/17/2011 2:09 AM
o-Xylene	2,300	800		ppbv	800	11/17/2011 2:09 AM
Propylene	ND	800	U	ppbv	800	11/17/2011 2:09 AM
Styrene	ND	800	U	ppbv	800	11/17/2011 2:09 AM
tert-Butyl Methyl Ether	ND	800	U	ppbv	800	11/17/2011 2:09 AM
Tetrachloroethene	ND	800	U	ppbv	800	11/17/2011 2:09 AM
Tetrahydrofuran	ND	800	U	ppbv	800	11/17/2011 2:09 AM
Toluene	34,000	800		ppbv	800	11/17/2011 2:09 AM
trans-1,2-Dichloroethene	ND	800	U	ppbv	800	11/17/2011 2:09 AM
trans-1,3-dichloropropene	ND	800	U	ppbv	800	11/17/2011 2:09 AM
Trichloroethene	ND	800	U	ppbv	800	11/17/2011 2:09 AM
Trichlorofluoromethane	ND	800	U	ppbv	800	11/17/2011 2:09 AM
Vinyl acetate	ND	800	U	ppbv	800	11/17/2011 2:09 AM
Vinyl chloride	ND	800	U	ppbv	800	11/17/2011 2:09 AM
Xylenes, Total	9,300	2,400		ppbv	800	11/17/2011 2:09 AM
Surr: 4-Bromofluorobenzene	102	70-130		%REC	800	11/17/2011 2:09 AM
Mass APH Air	**Method:**					**Analyst: RH3**
Air-Phase Petroleum Hydrocarbons						
C5-C8 Aliphatic Hydrocarbons	2,000,000	940,000		µg/m³	8000	11/15/2011 8:55 PM
C9-C10 Aromatic Hydrocarbons	ND	1,100,000	U	µg/m³	8000	11/15/2011 8:55 PM
C9-C12 Aliphatic Hydrocarbons	ND	1,500,000	U	µg/m³	8000	11/15/2011 8:55 PM
Surr: 4-Bromofluorobenzene	99.3	70-130		%REC	8000	11/15/2011 8:55 PM

RTI Laboratories - Analytical Report

WO#: 1111437

Date Reported: 12/21/2011
Revision v1

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	10/31/2011 4:20:00 PM
Project:	Kirtland AFB		
Lab ID:	1111437-006	**Matrix:**	Air
Client Sample ID:	VA0718		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Noncondensable Gases and Light Hydrocarbons	**Method: ASTM-D2504**					**Analyst: MB**
Carbon dioxide	0.78	0.10		%	1	11/22/2011 3:39 PM
Carbon Monoxide	ND	0.10	U	%	1	11/22/2011 3:39 PM
Methane	ND	0.50	U	%	1	11/22/2011 3:39 PM
Nitrogen	78	0.10		%	1	11/22/2011 3:39 PM
Oxygen	20	0.10		%	1	11/22/2011 3:39 PM
Volatile Organic Compounds	**Method: TO-15**					**Analyst: RH3**
1,1,1-Trichloroethane	ND	800	U	ppbv	800	11/17/2011 2:53 AM
1,1,2,2-Tetrachloroethane	ND	800	U	ppbv	800	11/17/2011 2:53 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	800	U	ppbv	800	11/17/2011 2:53 AM
1,1,2-Trichloroethane	ND	800	U	ppbv	800	11/17/2011 2:53 AM
1,1-Dichloroethane	ND	800	U	ppbv	800	11/17/2011 2:53 AM
1,1-Dichloroethene	ND	800	U	ppbv	800	11/17/2011 2:53 AM
1,2,4-Trichlorobenzene	ND	800	U	ppbv	800	11/17/2011 2:53 AM
1,2,4-Trimethylbenzene	1,100	800		ppbv	800	11/17/2011 2:53 AM
1,2-Dibromoethane	ND	800	U	ppbv	800	11/17/2011 2:53 AM
1,2-Dichlorobenzene	ND	800	U	ppbv	800	11/17/2011 2:53 AM
1,2-Dichloroethane	ND	800	U	ppbv	800	11/17/2011 2:53 AM
1,2-Dichloropropane	ND	800	U	ppbv	800	11/17/2011 2:53 AM
1,3,5-Trimethylbenzene	ND	800	U	ppbv	800	11/17/2011 2:53 AM
1,3-Butadiene	ND	800	U	ppbv	800	11/17/2011 2:53 AM
1,3-Dichlorobenzene	ND	800	U	ppbv	800	11/17/2011 2:53 AM
1,4-Dichlorobenzene	ND	800	U	ppbv	800	11/17/2011 2:53 AM
2-Butanone	ND	800	U	ppbv	800	11/17/2011 2:53 AM
2-Hexanone	ND	800	U	ppbv	800	11/17/2011 2:53 AM
4-Methyl-2-pentanone	ND	800	U	ppbv	800	11/17/2011 2:53 AM
Acetone	ND	800	U	ppbv	800	11/17/2011 2:53 AM
Benzene	11,000	800		ppbv	800	11/17/2011 2:53 AM
Benzyl chloride	ND	800	U	ppbv	800	11/17/2011 2:53 AM
Bromodichloromethane	ND	800	U	ppbv	800	11/17/2011 2:53 AM
Bromoform	ND	800	U	ppbv	800	11/17/2011 2:53 AM
Bromomethane	ND	800	U	ppbv	800	11/17/2011 2:53 AM
Carbon disulfide	ND	800	U	ppbv	800	11/17/2011 2:53 AM
Carbon tetrachloride	ND	800	U	ppbv	800	11/17/2011 2:53 AM
Chlorobenzene	ND	800	U	ppbv	800	11/17/2011 2:53 AM
Chlorodibromomethane	ND	800	U	ppbv	800	11/17/2011 2:53 AM
Chloroethane	ND	800	U	ppbv	800	11/17/2011 2:53 AM
Chloroform	ND	800	U	ppbv	800	11/17/2011 2:53 AM
Chloromethane	ND	800	U	ppbv	800	11/17/2011 2:53 AM
cis-1,2-Dichloroethene	ND	800	U	ppbv	800	11/17/2011 2:53 AM
cis-1,3-dichloropropene	ND	800	U	ppbv	800	11/17/2011 2:53 AM

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WO#: 1111437

Date Reported: 12/21/2011
Revision v1

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	10/31/2011 4:20:00 PM
Project:	Kirtland AFB		
Lab ID:	1111437-006	**Matrix:**	Air
Client Sample ID:	VA0718		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Cyclohexane	18,000	1,600		ppbv	800	11/17/2011 2:53 AM
Dichlorodifluoromethane	ND	800	U	ppbv	800	11/17/2011 2:53 AM
Ethyl acetate	ND	800	U	ppbv	800	11/17/2011 2:53 AM
Ethylbenzene	1,000	1,600	J	ppbv	800	11/17/2011 2:53 AM
Heptane	11,000	800		ppbv	800	11/17/2011 2:53 AM
Hexachlorobutadiene	ND	1,600	U	ppbv	800	11/17/2011 2:53 AM
m,p-Xylene	3,000	1,600		ppbv	800	11/17/2011 2:53 AM
Methylene chloride	5,600	4,000		ppbv	800	11/17/2011 2:53 AM
n-Hexane	16,000	1,600		ppbv	800	11/17/2011 2:53 AM
Naphthalene	ND	800	U	ppbv	800	11/17/2011 2:53 AM
o-Xylene	1,100	800		ppbv	800	11/17/2011 2:53 AM
Propylene	ND	800	U	ppbv	800	11/17/2011 2:53 AM
Styrene	ND	800	U	ppbv	800	11/17/2011 2:53 AM
tert-Butyl Methyl Ether	ND	800	U	ppbv	800	11/17/2011 2:53 AM
Tetrachloroethene	ND	800	U	ppbv	800	11/17/2011 2:53 AM
Tetrahydrofuran	ND	800	U	ppbv	800	11/17/2011 2:53 AM
Toluene	11,000	800		ppbv	800	11/17/2011 2:53 AM
trans-1,2-Dichloroethene	ND	800	U	ppbv	800	11/17/2011 2:53 AM
trans-1,3-dichloropropene	ND	800	U	ppbv	800	11/17/2011 2:53 AM
Trichloroethene	ND	800	U	ppbv	800	11/17/2011 2:53 AM
Trichlorofluoromethane	ND	800	U	ppbv	800	11/17/2011 2:53 AM
Vinyl acetate	ND	800	U	ppbv	800	11/17/2011 2:53 AM
Vinyl chloride	ND	800	U	ppbv	800	11/17/2011 2:53 AM
Xylenes, Total	4,000	2,400		ppbv	800	11/17/2011 2:53 AM
Surr: 4-Bromofluorobenzene	103	70-130		%REC	800	11/17/2011 2:53 AM
Mass APH Air	**Method:**					**Analyst: RH3**
Air-Phase Petroleum Hydrocarbons						
C5-C8 Aliphatic Hydrocarbons	720,000	190,000		µg/m³	1600	11/16/2011 4:57 PM
C9-C10 Aromatic Hydrocarbons	ND	210,000	U	µg/m³	1600	11/16/2011 4:57 PM
C9-C12 Aliphatic Hydrocarbons	ND	300,000	U	µg/m³	1600	11/16/2011 4:57 PM
Surr: 4-Bromofluorobenzene	98.3	70-130		%REC	1600	11/16/2011 4:57 PM

RTI Laboratories - Analytical Report

WO#: 1111437

Date Reported: 12/21/2011
Revision v1

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	10/31/2011 4:20:00 PM
Project:	Kirtland AFB		
Lab ID:	1111437-007	**Matrix:**	Air
Client Sample ID:	VA0719		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Noncondensable Gases and Light Hydrocarbons	**Method: ASTM-D2504**					**Analyst: MB**
Carbon dioxide	0.75	0.10		%	1	11/22/2011 4:28 PM
Carbon Monoxide	ND	0.10	U	%	1	11/22/2011 4:28 PM
Methane	ND	0.50	U	%	1	11/22/2011 4:28 PM
Nitrogen	79	0.10		%	1	11/22/2011 4:28 PM
Oxygen	20	0.10		%	1	11/22/2011 4:28 PM
Volatile Organic Compounds	**Method: TO-15**					**Analyst: RH3**
1,1,1-Trichloroethane	ND	800	U	ppbv	800	11/17/2011 3:37 AM
1,1,2,2-Tetrachloroethane	ND	800	U	ppbv	800	11/17/2011 3:37 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	800	U	ppbv	800	11/17/2011 3:37 AM
1,1,2-Trichloroethane	ND	800	U	ppbv	800	11/17/2011 3:37 AM
1,1-Dichloroethane	ND	800	U	ppbv	800	11/17/2011 3:37 AM
1,1-Dichloroethene	ND	800	U	ppbv	800	11/17/2011 3:37 AM
1,2,4-Trichlorobenzene	ND	800	U	ppbv	800	11/17/2011 3:37 AM
1,2,4-Trimethylbenzene	1,200	800		ppbv	800	11/17/2011 3:37 AM
1,2-Dibromoethane	ND	800	U	ppbv	800	11/17/2011 3:37 AM
1,2-Dichlorobenzene	ND	800	U	ppbv	800	11/17/2011 3:37 AM
1,2-Dichloroethane	ND	800	U	ppbv	800	11/17/2011 3:37 AM
1,2-Dichloropropane	ND	800	U	ppbv	800	11/17/2011 3:37 AM
1,3,5-Trimethylbenzene	ND	800	U	ppbv	800	11/17/2011 3:37 AM
1,3-Butadiene	ND	800	U	ppbv	800	11/17/2011 3:37 AM
1,3-Dichlorobenzene	ND	800	U	ppbv	800	11/17/2011 3:37 AM
1,4-Dichlorobenzene	ND	800	U	ppbv	800	11/17/2011 3:37 AM
2-Butanone	ND	800	U	ppbv	800	11/17/2011 3:37 AM
2-Hexanone	ND	800	U	ppbv	800	11/17/2011 3:37 AM
4-Methyl-2-pentanone	ND	800	U	ppbv	800	11/17/2011 3:37 AM
Acetone	ND	800	U	ppbv	800	11/17/2011 3:37 AM
Benzene	17,000	800		ppbv	800	11/17/2011 3:37 AM
Benzyl chloride	ND	800	U	ppbv	800	11/17/2011 3:37 AM
Bromodichloromethane	ND	800	U	ppbv	800	11/17/2011 3:37 AM
Bromoform	ND	800	U	ppbv	800	11/17/2011 3:37 AM
Bromomethane	ND	800	U	ppbv	800	11/17/2011 3:37 AM
Carbon disulfide	ND	800	U	ppbv	800	11/17/2011 3:37 AM
Carbon tetrachloride	ND	800	U	ppbv	800	11/17/2011 3:37 AM
Chlorobenzene	ND	800	U	ppbv	800	11/17/2011 3:37 AM
Chlorodibromomethane	ND	800	U	ppbv	800	11/17/2011 3:37 AM
Chloroethane	ND	800	U	ppbv	800	11/17/2011 3:37 AM
Chloroform	ND	800	U	ppbv	800	11/17/2011 3:37 AM
Chloromethane	ND	800	U	ppbv	800	11/17/2011 3:37 AM
cis-1,2-Dichloroethene	ND	800	U	ppbv	800	11/17/2011 3:37 AM
cis-1,3-dichloropropene	ND	800	U	ppbv	800	11/17/2011 3:37 AM

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WO#: 1111437

Date Reported: 12/21/2011
Revision v1

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	10/31/2011 4:20:00 PM
Project:	Kirtland AFB		
Lab ID:	1111437-007	**Matrix:**	Air
Client Sample ID:	VA0719		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Cyclohexane	25,000	1,600		ppbv	800	11/17/2011 3:37 AM
Dichlorodifluoromethane	ND	800	U	ppbv	800	11/17/2011 3:37 AM
Ethyl acetate	ND	800	U	ppbv	800	11/17/2011 3:37 AM
Ethylbenzene	1,200	1,600	J	ppbv	800	11/17/2011 3:37 AM
Heptane	15,000	800		ppbv	800	11/17/2011 3:37 AM
Hexachlorobutadiene	ND	1,600	U	ppbv	800	11/17/2011 3:37 AM
m,p-Xylene	3,300	1,600		ppbv	800	11/17/2011 3:37 AM
Methylene chloride	2,700	4,000	J	ppbv	800	11/17/2011 3:37 AM
n-Hexane	22,000	1,600		ppbv	800	11/17/2011 3:37 AM
Naphthalene	ND	800	U	ppbv	800	11/17/2011 3:37 AM
o-Xylene	1,300	800		ppbv	800	11/17/2011 3:37 AM
Propylene	ND	800	U	ppbv	800	11/17/2011 3:37 AM
Styrene	ND	800	U	ppbv	800	11/17/2011 3:37 AM
tert-Butyl Methyl Ether	ND	800	U	ppbv	800	11/17/2011 3:37 AM
Tetrachloroethene	ND	800	U	ppbv	800	11/17/2011 3:37 AM
Tetrahydrofuran	ND	800	U	ppbv	800	11/17/2011 3:37 AM
Toluene	12,000	800		ppbv	800	11/17/2011 3:37 AM
trans-1,2-Dichloroethene	ND	800	U	ppbv	800	11/17/2011 3:37 AM
trans-1,3-dichloropropene	ND	800	U	ppbv	800	11/17/2011 3:37 AM
Trichloroethene	ND	800	U	ppbv	800	11/17/2011 3:37 AM
Trichlorofluoromethane	ND	800	U	ppbv	800	11/17/2011 3:37 AM
Vinyl acetate	ND	800	U	ppbv	800	11/17/2011 3:37 AM
Vinyl chloride	ND	800	U	ppbv	800	11/17/2011 3:37 AM
Xylenes, Total	4,600	2,400		ppbv	800	11/17/2011 3:37 AM
Surr: 4-Bromofluorobenzene	105	70-130		%REC	800	11/17/2011 3:37 AM
Mass APH Air **Air-Phase Petroleum Hydrocarbons**	**Method:**					**Analyst: RH3**
C5-C8 Aliphatic Hydrocarbons	760,000	190,000		µg/m³	1600	11/16/2011 5:42 PM
C9-C10 Aromatic Hydrocarbons	ND	210,000	U	µg/m³	1600	11/16/2011 5:42 PM
C9-C12 Aliphatic Hydrocarbons	44,000	300,000	J	µg/m³	1600	11/16/2011 5:42 PM
Surr: 4-Bromofluorobenzene	99.1	70-130		%REC	1600	11/16/2011 5:42 PM

RTI Laboratories - Analytical Report

WO#: 1111437

Date Reported: 12/21/2011
Revision v1

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	11/1/2011 12:49:00 PM
Project:	Kirtland AFB		
Lab ID:	1111437-008	**Matrix:**	Air
Client Sample ID:	VA0725		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Noncondensable Gases and Light Hydrocarbons	**Method: ASTM-D2504**					**Analyst: MB**
Carbon dioxide	8.5	0.10		%	1	11/22/2011 4:54 PM
Carbon Monoxide	ND	0.10	U	%	1	11/22/2011 4:54 PM
Methane	ND	0.50	U	%	1	11/22/2011 4:54 PM
Nitrogen	82	0.10		%	1	11/22/2011 4:54 PM
Oxygen	7.4	0.10		%	1	11/22/2011 4:54 PM
Volatile Organic Compounds	**Method: TO-15**					**Analyst: RH3**
1,1,1-Trichloroethane	ND	20,000	U	ppbv	20000	11/18/2011 3:59 AM
1,1,2,2-Tetrachloroethane	ND	20,000	U	ppbv	20000	11/18/2011 3:59 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	20,000	U	ppbv	20000	11/18/2011 3:59 AM
1,1,2-Trichloroethane	ND	20,000	U	ppbv	20000	11/18/2011 3:59 AM
1,1-Dichloroethane	ND	20,000	U	ppbv	20000	11/18/2011 3:59 AM
1,1-Dichloroethene	ND	20,000	U	ppbv	20000	11/18/2011 3:59 AM
1,2,4-Trichlorobenzene	ND	20,000	U	ppbv	20000	11/18/2011 3:59 AM
1,2,4-Trimethylbenzene	ND	20,000	U	ppbv	20000	11/18/2011 3:59 AM
1,2-Dibromoethane	ND	20,000	U	ppbv	20000	11/18/2011 3:59 AM
1,2-Dichlorobenzene	ND	20,000	U	ppbv	20000	11/18/2011 3:59 AM
1,2-Dichloroethane	ND	20,000	U	ppbv	20000	11/18/2011 3:59 AM
1,2-Dichloropropane	ND	20,000	U	ppbv	20000	11/18/2011 3:59 AM
1,3,5-Trimethylbenzene	ND	20,000	U	ppbv	20000	11/18/2011 3:59 AM
1,3-Butadiene	ND	20,000	U	ppbv	20000	11/18/2011 3:59 AM
1,3-Dichlorobenzene	ND	20,000	U	ppbv	20000	11/18/2011 3:59 AM
1,4-Dichlorobenzene	ND	20,000	U	ppbv	20000	11/18/2011 3:59 AM
2-Butanone	120,000	20,000		ppbv	20000	11/18/2011 3:59 AM
2-Hexanone	ND	20,000	U	ppbv	20000	11/18/2011 3:59 AM
4-Methyl-2-pentanone	ND	20,000	U	ppbv	20000	11/18/2011 3:59 AM
Acetone	600,000	20,000		ppbv	20000	11/18/2011 3:59 AM
Benzene	460,000	20,000		ppbv	20000	11/18/2011 3:59 AM
Benzyl chloride	ND	20,000	U	ppbv	20000	11/18/2011 3:59 AM
Bromodichloromethane	ND	20,000	U	ppbv	20000	11/18/2011 3:59 AM
Bromoform	ND	20,000	U	ppbv	20000	11/18/2011 3:59 AM
Bromomethane	ND	20,000	U	ppbv	20000	11/18/2011 3:59 AM
Carbon disulfide	ND	20,000	U	ppbv	20000	11/18/2011 3:59 AM
Carbon tetrachloride	ND	20,000	U	ppbv	20000	11/18/2011 3:59 AM
Chlorobenzene	ND	20,000	U	ppbv	20000	11/18/2011 3:59 AM
Chlorodibromomethane	ND	20,000	U	ppbv	20000	11/18/2011 3:59 AM
Chloroethane	ND	20,000	U	ppbv	20000	11/18/2011 3:59 AM
Chloroform	ND	20,000	U	ppbv	20000	11/18/2011 3:59 AM
Chloromethane	ND	20,000	U	ppbv	20000	11/18/2011 3:59 AM
cis-1,2-Dichloroethene	ND	20,000	U	ppbv	20000	11/18/2011 3:59 AM
cis-1,3-dichloropropene	ND	20,000	U	ppbv	20000	11/18/2011 3:59 AM

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	11/1/2011 12:49:00 PM
Project:	Kirtland AFB		
Lab ID:	1111437-008	**Matrix:**	Air
Client Sample ID:	VA0725		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Cyclohexane	1,300,000	40,000		ppbv	20000	11/18/2011 3:59 AM
Dichlorodifluoromethane	ND	20,000	U	ppbv	20000	11/18/2011 3:59 AM
Ethyl acetate	ND	20,000	U	ppbv	20000	11/18/2011 3:59 AM
Ethylbenzene	34,000	40,000	J	ppbv	20000	11/18/2011 3:59 AM
Heptane	910,000	20,000		ppbv	20000	11/18/2011 3:59 AM
Hexachlorobutadiene	ND	40,000	U	ppbv	20000	11/18/2011 3:59 AM
m,p-Xylene	71,000	40,000		ppbv	20000	11/18/2011 3:59 AM
Methylene chloride	ND	100,000	U	ppbv	20000	11/18/2011 3:59 AM
n-Hexane	1,200,000	40,000		ppbv	20000	11/18/2011 3:59 AM
Naphthalene	ND	20,000	U	ppbv	20000	11/18/2011 3:59 AM
o-Xylene	ND	20,000	U	ppbv	20000	11/18/2011 3:59 AM
Propylene	ND	20,000	U	ppbv	20000	11/18/2011 3:59 AM
Styrene	ND	20,000	U	ppbv	20000	11/18/2011 3:59 AM
tert-Butyl Methyl Ether	ND	20,000	U	ppbv	20000	11/18/2011 3:59 AM
Tetrachloroethene	ND	20,000	U	ppbv	20000	11/18/2011 3:59 AM
Tetrahydrofuran	ND	20,000	U	ppbv	20000	11/18/2011 3:59 AM
Toluene	1,100,000	20,000		ppbv	20000	11/18/2011 3:59 AM
trans-1,2-Dichloroethene	ND	20,000	U	ppbv	20000	11/18/2011 3:59 AM
trans-1,3-dichloropropene	ND	20,000	U	ppbv	20000	11/18/2011 3:59 AM
Trichloroethene	ND	20,000	U	ppbv	20000	11/18/2011 3:59 AM
Trichlorofluoromethane	ND	20,000	U	ppbv	20000	11/18/2011 3:59 AM
Vinyl acetate	ND	20,000	U	ppbv	20000	11/18/2011 3:59 AM
Vinyl chloride	ND	20,000	U	ppbv	20000	11/18/2011 3:59 AM
Xylenes, Total	71,000	60,000		ppbv	20000	11/18/2011 3:59 AM
Surr: 4-Bromofluorobenzene	112	70-130		%REC	20000	11/18/2011 3:59 AM
Mass APH Air	**Method:**					**Analyst: RH3**
Air-Phase Petroleum Hydrocarbons						
C5-C8 Aliphatic Hydrocarbons	47,000,000	2,300,000		µg/m³	20000	11/16/2011 7:14 PM
C9-C10 Aromatic Hydrocarbons	ND	2,700,000	U	µg/m³	20000	11/16/2011 7:14 PM
C9-C12 Aliphatic Hydrocarbons	ND	3,800,000	U	µg/m³	20000	11/16/2011 7:14 PM
Surr: 4-Bromofluorobenzene	97.7	70-130		%REC	20000	11/16/2011 7:14 PM

RTI Laboratories - Analytical Report

WO#: 1111437

Date Reported: 12/21/2011
Revision v1

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	11/1/2011 1:38:00 PM
Project:	Kirtland AFB		
Lab ID:	1111437-009	**Matrix:**	Air
Client Sample ID:	VA0726		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Noncondensable Gases and Light Hydrocarbons	**Method: ASTM-D2504**					**Analyst: MB**
Carbon dioxide	9.8	0.10		%	1	11/22/2011 5:35 PM
Carbon Monoxide	ND	0.10	U	%	1	11/22/2011 5:35 PM
Methane	ND	0.50	U	%	1	11/22/2011 5:35 PM
Nitrogen	84	0.10		%	1	11/22/2011 5:35 PM
Oxygen	3.4	0.10		%	1	11/22/2011 5:35 PM
Volatile Organic Compounds	**Method: TO-15**					**Analyst: RH3**
1,1,1-Trichloroethane	ND	20,000	U	ppbv	20000	11/18/2011 4:41 AM
1,1,2,2-Tetrachloroethane	ND	20,000	U	ppbv	20000	11/18/2011 4:41 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	20,000	U	ppbv	20000	11/18/2011 4:41 AM
1,1,2-Trichloroethane	ND	20,000	U	ppbv	20000	11/18/2011 4:41 AM
1,1-Dichloroethane	ND	20,000	U	ppbv	20000	11/18/2011 4:41 AM
1,1-Dichloroethene	ND	20,000	U	ppbv	20000	11/18/2011 4:41 AM
1,2,4-Trichlorobenzene	ND	20,000	U	ppbv	20000	11/18/2011 4:41 AM
1,2,4-Trimethylbenzene	ND	20,000	U	ppbv	20000	11/18/2011 4:41 AM
1,2-Dibromoethane	ND	20,000	U	ppbv	20000	11/18/2011 4:41 AM
1,2-Dichlorobenzene	ND	20,000	U	ppbv	20000	11/18/2011 4:41 AM
1,2-Dichloroethane	ND	20,000	U	ppbv	20000	11/18/2011 4:41 AM
1,2-Dichloropropane	ND	20,000	U	ppbv	20000	11/18/2011 4:41 AM
1,3,5-Trimethylbenzene	ND	20,000	U	ppbv	20000	11/18/2011 4:41 AM
1,3-Butadiene	ND	20,000	U	ppbv	20000	11/18/2011 4:41 AM
1,3-Dichlorobenzene	ND	20,000	U	ppbv	20000	11/18/2011 4:41 AM
1,4-Dichlorobenzene	ND	20,000	U	ppbv	20000	11/18/2011 4:41 AM
2-Butanone	240,000	20,000		ppbv	20000	11/18/2011 4:41 AM
2-Hexanone	ND	20,000	U	ppbv	20000	11/18/2011 4:41 AM
4-Methyl-2-pentanone	ND	20,000	U	ppbv	20000	11/18/2011 4:41 AM
Acetone	930,000	20,000		ppbv	20000	11/18/2011 4:41 AM
Benzene	500,000	20,000		ppbv	20000	11/18/2011 4:41 AM
Benzyl chloride	ND	20,000	U	ppbv	20000	11/18/2011 4:41 AM
Bromodichloromethane	ND	20,000	U	ppbv	20000	11/18/2011 4:41 AM
Bromoform	ND	20,000	U	ppbv	20000	11/18/2011 4:41 AM
Bromomethane	ND	20,000	U	ppbv	20000	11/18/2011 4:41 AM
Carbon disulfide	ND	20,000	U	ppbv	20000	11/18/2011 4:41 AM
Carbon tetrachloride	ND	20,000	U	ppbv	20000	11/18/2011 4:41 AM
Chlorobenzene	ND	20,000	U	ppbv	20000	11/18/2011 4:41 AM
Chlorodibromomethane	ND	20,000	U	ppbv	20000	11/18/2011 4:41 AM
Chloroethane	ND	20,000	U	ppbv	20000	11/18/2011 4:41 AM
Chloroform	ND	20,000	U	ppbv	20000	11/18/2011 4:41 AM
Chloromethane	ND	20,000	U	ppbv	20000	11/18/2011 4:41 AM
cis-1,2-Dichloroethene	ND	20,000	U	ppbv	20000	11/18/2011 4:41 AM
cis-1,3-dichloropropene	ND	20,000	U	ppbv	20000	11/18/2011 4:41 AM

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	11/1/2011 1:38:00 PM
Project:	Kirtland AFB		
Lab ID:	1111437-009	**Matrix:**	Air
Client Sample ID:	VA0726		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Cyclohexane	1,300,000	40,000		ppbv	20000	11/18/2011 4:41 AM
Dichlorodifluoromethane	ND	20,000	U	ppbv	20000	11/18/2011 4:41 AM
Ethyl acetate	ND	20,000	U	ppbv	20000	11/18/2011 4:41 AM
Ethylbenzene	31,000	40,000	J	ppbv	20000	11/18/2011 4:41 AM
Heptane	830,000	20,000		ppbv	20000	11/18/2011 4:41 AM
Hexachlorobutadiene	ND	40,000	U	ppbv	20000	11/18/2011 4:41 AM
m,p-Xylene	69,000	40,000		ppbv	20000	11/18/2011 4:41 AM
Methylene chloride	ND	100,000	U	ppbv	20000	11/18/2011 4:41 AM
n-Hexane	1,600,000	40,000		ppbv	20000	11/18/2011 4:41 AM
Naphthalene	ND	20,000	U	ppbv	20000	11/18/2011 4:41 AM
o-Xylene	ND	20,000	U	ppbv	20000	11/18/2011 4:41 AM
Propylene	21,000	20,000		ppbv	20000	11/18/2011 4:41 AM
Styrene	ND	20,000	U	ppbv	20000	11/18/2011 4:41 AM
tert-Butyl Methyl Ether	ND	20,000	U	ppbv	20000	11/18/2011 4:41 AM
Tetrachloroethene	ND	20,000	U	ppbv	20000	11/18/2011 4:41 AM
Tetrahydrofuran	ND	20,000	U	ppbv	20000	11/18/2011 4:41 AM
Toluene	910,000	20,000		ppbv	20000	11/18/2011 4:41 AM
trans-1,2-Dichloroethene	ND	20,000	U	ppbv	20000	11/18/2011 4:41 AM
trans-1,3-dichloropropene	ND	20,000	U	ppbv	20000	11/18/2011 4:41 AM
Trichloroethene	ND	20,000	U	ppbv	20000	11/18/2011 4:41 AM
Trichlorofluoromethane	ND	20,000	U	ppbv	20000	11/18/2011 4:41 AM
Vinyl acetate	ND	20,000	U	ppbv	20000	11/18/2011 4:41 AM
Vinyl chloride	ND	20,000	U	ppbv	20000	11/18/2011 4:41 AM
Xylenes, Total	69,000	60,000		ppbv	20000	11/18/2011 4:41 AM
Surr: 4-Bromofluorobenzene	112	70-130		%REC	20000	11/18/2011 4:41 AM
Mass APH Air	**Method:**					**Analyst: RH3**
Air-Phase Petroleum Hydrocarbons						
C5-C8 Aliphatic Hydrocarbons	100,000,000	4,700,000		µg/m³	40000	11/17/2011 8:07 PM
C9-C10 Aromatic Hydrocarbons	ND	5,300,000	U	µg/m³	40000	11/17/2011 8:07 PM
C9-C12 Aliphatic Hydrocarbons	ND	7,600,000	U	µg/m³	40000	11/17/2011 8:07 PM
Surr: 4-Bromofluorobenzene	98.0	70-130		%REC	40000	11/17/2011 8:07 PM

RTI Laboratories - Analytical Report

WO#: 1111437

Date Reported: 12/21/2011
Revision v1

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	11/1/2011 2:16:00 PM
Project:	Kirtland AFB		
Lab ID:	1111437-010	**Matrix:**	Air
Client Sample ID:	VA0727		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Noncondensable Gases and Light Hydrocarbons	**Method: ASTM-D2504**					**Analyst: MB**
Carbon dioxide	5.5	0.10		%	1	11/22/2011 5:54 PM
Carbon Monoxide	ND	0.10	U	%	1	11/22/2011 5:54 PM
Methane	ND	0.50	U	%	1	11/22/2011 5:54 PM
Nitrogen	82	0.10		%	1	11/22/2011 5:54 PM
Oxygen	9.3	0.10		%	1	11/22/2011 5:54 PM
Volatile Organic Compounds	**Method: TO-15**					**Analyst: RH3**
1,1,1-Trichloroethane	ND	20,000	U	ppbv	20000	11/18/2011 5:21 AM
1,1,2,2-Tetrachloroethane	ND	20,000	U	ppbv	20000	11/18/2011 5:21 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	20,000	U	ppbv	20000	11/18/2011 5:21 AM
1,1,2-Trichloroethane	ND	20,000	U	ppbv	20000	11/18/2011 5:21 AM
1,1-Dichloroethane	ND	20,000	U	ppbv	20000	11/18/2011 5:21 AM
1,1-Dichloroethene	ND	20,000	U	ppbv	20000	11/18/2011 5:21 AM
1,2,4-Trichlorobenzene	ND	20,000	U	ppbv	20000	11/18/2011 5:21 AM
1,2,4-Trimethylbenzene	ND	20,000	U	ppbv	20000	11/18/2011 5:21 AM
1,2-Dibromoethane	ND	20,000	U	ppbv	20000	11/18/2011 5:21 AM
1,2-Dichlorobenzene	ND	20,000	U	ppbv	20000	11/18/2011 5:21 AM
1,2-Dichloroethane	ND	20,000	U	ppbv	20000	11/18/2011 5:21 AM
1,2-Dichloropropane	ND	20,000	U	ppbv	20000	11/18/2011 5:21 AM
1,3,5-Trimethylbenzene	ND	20,000	U	ppbv	20000	11/18/2011 5:21 AM
1,3-Butadiene	ND	20,000	U	ppbv	20000	11/18/2011 5:21 AM
1,3-Dichlorobenzene	ND	20,000	U	ppbv	20000	11/18/2011 5:21 AM
1,4-Dichlorobenzene	ND	20,000	U	ppbv	20000	11/18/2011 5:21 AM
2-Butanone	87,000	20,000		ppbv	20000	11/18/2011 5:21 AM
2-Hexanone	ND	20,000	U	ppbv	20000	11/18/2011 5:21 AM
4-Methyl-2-pentanone	ND	20,000	U	ppbv	20000	11/18/2011 5:21 AM
Acetone	540,000	20,000		ppbv	20000	11/18/2011 5:21 AM
Benzene	390,000	20,000		ppbv	20000	11/18/2011 5:21 AM
Benzyl chloride	ND	20,000	U	ppbv	20000	11/18/2011 5:21 AM
Bromodichloromethane	ND	20,000	U	ppbv	20000	11/18/2011 5:21 AM
Bromoform	ND	20,000	U	ppbv	20000	11/18/2011 5:21 AM
Bromomethane	ND	20,000	U	ppbv	20000	11/18/2011 5:21 AM
Carbon disulfide	ND	20,000	U	ppbv	20000	11/18/2011 5:21 AM
Carbon tetrachloride	ND	20,000	U	ppbv	20000	11/18/2011 5:21 AM
Chlorobenzene	ND	20,000	U	ppbv	20000	11/18/2011 5:21 AM
Chlorodibromomethane	ND	20,000	U	ppbv	20000	11/18/2011 5:21 AM
Chloroethane	ND	20,000	U	ppbv	20000	11/18/2011 5:21 AM
Chloroform	ND	20,000	U	ppbv	20000	11/18/2011 5:21 AM
Chloromethane	ND	20,000	U	ppbv	20000	11/18/2011 5:21 AM
cis-1,2-Dichloroethene	ND	20,000	U	ppbv	20000	11/18/2011 5:21 AM
cis-1,3-dichloropropene	ND	20,000	U	ppbv	20000	11/18/2011 5:21 AM

RTI Laboratories - Analytical Report

WO#: 1111437

Date Reported: 12/21/2011
Revision v1

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	11/1/2011 2:16:00 PM
Project:	Kirtland AFB		
Lab ID:	1111437-010	**Matrix:**	Air
Client Sample ID:	VA0727		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Cyclohexane	1,100,000	40,000		ppbv	20000	11/18/2011 5:21 AM
Dichlorodifluoromethane	ND	20,000	U	ppbv	20000	11/18/2011 5:21 AM
Ethyl acetate	ND	20,000	U	ppbv	20000	11/18/2011 5:21 AM
Ethylbenzene	23,000	40,000	J	ppbv	20000	11/18/2011 5:21 AM
Heptane	630,000	20,000		ppbv	20000	11/18/2011 5:21 AM
Hexachlorobutadiene	ND	40,000	U	ppbv	20000	11/18/2011 5:21 AM
m,p-Xylene	53,000	40,000		ppbv	20000	11/18/2011 5:21 AM
Methylene chloride	ND	100,000	U	ppbv	20000	11/18/2011 5:21 AM
n-Hexane	2,300,000	80,000		ppbv	40000	11/18/2011 4:37 PM
Naphthalene	ND	20,000	U	ppbv	20000	11/18/2011 5:21 AM
o-Xylene	ND	20,000	U	ppbv	20000	11/18/2011 5:21 AM
Propylene	33,000	20,000		ppbv	20000	11/18/2011 5:21 AM
Styrene	ND	20,000	U	ppbv	20000	11/18/2011 5:21 AM
tert-Butyl Methyl Ether	ND	20,000	U	ppbv	20000	11/18/2011 5:21 AM
Tetrachloroethene	ND	20,000	U	ppbv	20000	11/18/2011 5:21 AM
Tetrahydrofuran	ND	20,000	U	ppbv	20000	11/18/2011 5:21 AM
Toluene	500,000	20,000		ppbv	20000	11/18/2011 5:21 AM
trans-1,2-Dichloroethene	ND	20,000	U	ppbv	20000	11/18/2011 5:21 AM
trans-1,3-dichloropropene	ND	20,000	U	ppbv	20000	11/18/2011 5:21 AM
Trichloroethene	ND	20,000	U	ppbv	20000	11/18/2011 5:21 AM
Trichlorofluoromethane	ND	20,000	U	ppbv	20000	11/18/2011 5:21 AM
Vinyl acetate	ND	20,000	U	ppbv	20000	11/18/2011 5:21 AM
Vinyl chloride	ND	20,000	U	ppbv	20000	11/18/2011 5:21 AM
Xylenes, Total	53,000	60,000	J	ppbv	20000	11/18/2011 5:21 AM
Surr: 4-Bromofluorobenzene	111	70-130		%REC	20000	11/18/2011 5:21 AM
Mass APH Air	**Method:**					**Analyst: RH3**
Air-Phase Petroleum Hydrocarbons						
C5-C8 Aliphatic Hydrocarbons	69,000,000	4,700,000		µg/m³	40000	11/17/2011 11:05 PM
C9-C10 Aromatic Hydrocarbons	ND	5,300,000	U	µg/m³	40000	11/17/2011 11:05 PM
C9-C12 Aliphatic Hydrocarbons	ND	7,600,000	U	µg/m³	40000	11/17/2011 11:05 PM
Surr: 4-Bromofluorobenzene	96.6	70-130		%REC	40000	11/17/2011 11:05 PM

RTI Laboratories - Analytical Report

WO#: 1111437

Date Reported: 12/21/2011
Revision v1

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	11/1/2011 2:58:00 PM
Project:	Kirtland AFB		
Lab ID:	1111437-011	**Matrix:**	Air
Client Sample ID:	VA0728		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Noncondensable Gases and Light Hydrocarbons	**Method: ASTM-D2504**					**Analyst: MB**
Carbon dioxide	1.5	0.10		%	1	11/22/2011 6:23 PM
Carbon Monoxide	ND	0.10	U	%	1	11/22/2011 6:23 PM
Methane	ND	0.50	U	%	1	11/22/2011 6:23 PM
Nitrogen	80	0.10		%	1	11/22/2011 6:23 PM
Oxygen	17	0.10		%	1	11/22/2011 6:23 PM
Volatile Organic Compounds	**Method: TO-15**					**Analyst: RH3**
1,1,1-Trichloroethane	ND	8,000	U	ppbv	8000	11/18/2011 6:02 AM
1,1,2,2-Tetrachloroethane	ND	8,000	U	ppbv	8000	11/18/2011 6:02 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	8,000	U	ppbv	8000	11/18/2011 6:02 AM
1,1,2-Trichloroethane	ND	8,000	U	ppbv	8000	11/18/2011 6:02 AM
1,1-Dichloroethane	ND	8,000	U	ppbv	8000	11/18/2011 6:02 AM
1,1-Dichloroethene	ND	8,000	U	ppbv	8000	11/18/2011 6:02 AM
1,2,4-Trichlorobenzene	ND	8,000	U	ppbv	8000	11/18/2011 6:02 AM
1,2,4-Trimethylbenzene	ND	8,000	U	ppbv	8000	11/18/2011 6:02 AM
1,2-Dibromoethane	ND	8,000	U	ppbv	8000	11/18/2011 6:02 AM
1,2-Dichlorobenzene	ND	8,000	U	ppbv	8000	11/18/2011 6:02 AM
1,2-Dichloroethane	ND	8,000	U	ppbv	8000	11/18/2011 6:02 AM
1,2-Dichloropropane	ND	8,000	U	ppbv	8000	11/18/2011 6:02 AM
1,3,5-Trimethylbenzene	ND	8,000	U	ppbv	8000	11/18/2011 6:02 AM
1,3-Butadiene	ND	8,000	U	ppbv	8000	11/18/2011 6:02 AM
1,3-Dichlorobenzene	ND	8,000	U	ppbv	8000	11/18/2011 6:02 AM
1,4-Dichlorobenzene	ND	8,000	U	ppbv	8000	11/18/2011 6:02 AM
2-Butanone	31,000	8,000		ppbv	8000	11/18/2011 6:02 AM
2-Hexanone	ND	8,000	U	ppbv	8000	11/18/2011 6:02 AM
4-Methyl-2-pentanone	ND	8,000	U	ppbv	8000	11/18/2011 6:02 AM
Acetone	120,000	8,000		ppbv	8000	11/18/2011 6:02 AM
Benzene	60,000	8,000		ppbv	8000	11/18/2011 6:02 AM
Benzyl chloride	ND	8,000	U	ppbv	8000	11/18/2011 6:02 AM
Bromodichloromethane	ND	8,000	U	ppbv	8000	11/18/2011 6:02 AM
Bromoform	ND	8,000	U	ppbv	8000	11/18/2011 6:02 AM
Bromomethane	ND	8,000	U	ppbv	8000	11/18/2011 6:02 AM
Carbon disulfide	ND	8,000	U	ppbv	8000	11/18/2011 6:02 AM
Carbon tetrachloride	ND	8,000	U	ppbv	8000	11/18/2011 6:02 AM
Chlorobenzene	ND	8,000	U	ppbv	8000	11/18/2011 6:02 AM
Chlorodibromomethane	ND	8,000	U	ppbv	8000	11/18/2011 6:02 AM
Chloroethane	ND	8,000	U	ppbv	8000	11/18/2011 6:02 AM
Chloroform	ND	8,000	U	ppbv	8000	11/18/2011 6:02 AM
Chloromethane	ND	8,000	U	ppbv	8000	11/18/2011 6:02 AM
cis-1,2-Dichloroethene	ND	8,000	U	ppbv	8000	11/18/2011 6:02 AM
cis-1,3-dichloropropene	ND	8,000	U	ppbv	8000	11/18/2011 6:02 AM

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	11/1/2011 2:58:00 PM
Project:	Kirtland AFB		
Lab ID:	1111437-011	**Matrix:**	Air
Client Sample ID:	VA0728		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Cyclohexane	190,000	16,000		ppbv	8000	11/18/2011 6:02 AM
Dichlorodifluoromethane	ND	8,000	U	ppbv	8000	11/18/2011 6:02 AM
Ethyl acetate	ND	8,000	U	ppbv	8000	11/18/2011 6:02 AM
Ethylbenzene	20,000	16,000		ppbv	8000	11/18/2011 6:02 AM
Heptane	280,000	8,000		ppbv	8000	11/18/2011 6:02 AM
Hexachlorobutadiene	ND	16,000	U	ppbv	8000	11/18/2011 6:02 AM
m,p-Xylene	76,000	16,000		ppbv	8000	11/18/2011 6:02 AM
Methylene chloride	ND	40,000	U	ppbv	8000	11/18/2011 6:02 AM
n-Hexane	160,000	16,000		ppbv	8000	11/18/2011 6:02 AM
Naphthalene	ND	8,000	U	ppbv	8000	11/18/2011 6:02 AM
o-Xylene	21,000	8,000		ppbv	8000	11/18/2011 6:02 AM
Propylene	ND	8,000	U	ppbv	8000	11/18/2011 6:02 AM
Styrene	ND	8,000	U	ppbv	8000	11/18/2011 6:02 AM
tert-Butyl Methyl Ether	ND	8,000	U	ppbv	8000	11/18/2011 6:02 AM
Tetrachloroethene	ND	8,000	U	ppbv	8000	11/18/2011 6:02 AM
Tetrahydrofuran	ND	8,000	U	ppbv	8000	11/18/2011 6:02 AM
Toluene	340,000	8,000		ppbv	8000	11/18/2011 6:02 AM
trans-1,2-Dichloroethene	ND	8,000	U	ppbv	8000	11/18/2011 6:02 AM
trans-1,3-dichloropropene	ND	8,000	U	ppbv	8000	11/18/2011 6:02 AM
Trichloroethene	ND	8,000	U	ppbv	8000	11/18/2011 6:02 AM
Trichlorofluoromethane	ND	8,000	U	ppbv	8000	11/18/2011 6:02 AM
Vinyl acetate	ND	8,000	U	ppbv	8000	11/18/2011 6:02 AM
Vinyl chloride	ND	8,000	U	ppbv	8000	11/18/2011 6:02 AM
Xylenes, Total	97,000	24,000		ppbv	8000	11/18/2011 6:02 AM
Surr: 4-Bromofluorobenzene	101	70-130		%REC	8000	11/18/2011 6:02 AM
Mass APH Air	**Method:**					**Analyst: RH3**
Air-Phase Petroleum Hydrocarbons						
C5-C8 Aliphatic Hydrocarbons	12,000,000	940,000		µg/m³	8000	11/16/2011 10:04 PM
C9-C10 Aromatic Hydrocarbons	ND	1,100,000	U	µg/m³	8000	11/16/2011 10:04 PM
C9-C12 Aliphatic Hydrocarbons	ND	1,500,000	U	µg/m³	8000	11/16/2011 10:04 PM
Surr: 4-Bromofluorobenzene	98.0	70-130		%REC	8000	11/16/2011 10:04 PM

RTI Laboratories - Analytical Report

WO#: 1111437

Date Reported: 12/21/2011
Revision v1

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	11/2/2011 11:51:00 AM
Project:	Kirtland AFB		
Lab ID:	1111437-012	**Matrix:**	Air
Client Sample ID:	VA0729		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Noncondensable Gases and Light Hydrocarbons	**Method: ASTM-D2504**					**Analyst: MB**
Carbon dioxide	11	0.10		%	1	11/22/2011 6:42 PM
Carbon Monoxide	ND	0.10	U	%	1	11/22/2011 6:42 PM
Methane	ND	0.50	U	%	1	11/22/2011 6:42 PM
Nitrogen	83	0.10		%	1	11/22/2011 6:42 PM
Oxygen	3.2	0.10		%	1	11/22/2011 6:42 PM
Volatile Organic Compounds	**Method: TO-15**					**Analyst: RH3**
1,1,1-Trichloroethane	ND	8,000	U	ppbv	8000	11/18/2011 9:40 AM
1,1,2,2-Tetrachloroethane	ND	8,000	U	ppbv	8000	11/18/2011 9:40 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	8,000	U	ppbv	8000	11/18/2011 9:40 AM
1,1,2-Trichloroethane	ND	8,000	U	ppbv	8000	11/18/2011 9:40 AM
1,1-Dichloroethane	ND	8,000	U	ppbv	8000	11/18/2011 9:40 AM
1,1-Dichloroethene	ND	8,000	U	ppbv	8000	11/18/2011 9:40 AM
1,2,4-Trichlorobenzene	ND	8,000	U	ppbv	8000	11/18/2011 9:40 AM
1,2,4-Trimethylbenzene	ND	8,000	U	ppbv	8000	11/18/2011 9:40 AM
1,2-Dibromoethane	ND	8,000	U	ppbv	8000	11/18/2011 9:40 AM
1,2-Dichlorobenzene	ND	8,000	U	ppbv	8000	11/18/2011 9:40 AM
1,2-Dichloroethane	ND	8,000	U	ppbv	8000	11/18/2011 9:40 AM
1,2-Dichloropropane	ND	8,000	U	ppbv	8000	11/18/2011 9:40 AM
1,3,5-Trimethylbenzene	ND	8,000	U	ppbv	8000	11/18/2011 9:40 AM
1,3-Butadiene	ND	8,000	U	ppbv	8000	11/18/2011 9:40 AM
1,3-Dichlorobenzene	ND	8,000	U	ppbv	8000	11/18/2011 9:40 AM
1,4-Dichlorobenzene	ND	8,000	U	ppbv	8000	11/18/2011 9:40 AM
2-Butanone	23,000	8,000		ppbv	8000	11/18/2011 9:40 AM
2-Hexanone	ND	8,000	U	ppbv	8000	11/18/2011 9:40 AM
4-Methyl-2-pentanone	ND	8,000	U	ppbv	8000	11/18/2011 9:40 AM
Acetone	150,000	8,000		ppbv	8000	11/18/2011 9:40 AM
Benzene	70,000	8,000		ppbv	8000	11/18/2011 9:40 AM
Benzyl chloride	ND	8,000	U	ppbv	8000	11/18/2011 9:40 AM
Bromodichloromethane	ND	8,000	U	ppbv	8000	11/18/2011 9:40 AM
Bromoform	ND	8,000	U	ppbv	8000	11/18/2011 9:40 AM
Bromomethane	ND	8,000	U	ppbv	8000	11/18/2011 9:40 AM
Carbon disulfide	ND	8,000	U	ppbv	8000	11/18/2011 9:40 AM
Carbon tetrachloride	ND	8,000	U	ppbv	8000	11/18/2011 9:40 AM
Chlorobenzene	ND	8,000	U	ppbv	8000	11/18/2011 9:40 AM
Chlorodibromomethane	ND	8,000	U	ppbv	8000	11/18/2011 9:40 AM
Chloroethane	ND	8,000	U	ppbv	8000	11/18/2011 9:40 AM
Chloroform	ND	8,000	U	ppbv	8000	11/18/2011 9:40 AM
Chloromethane	ND	8,000	U	ppbv	8000	11/18/2011 9:40 AM
cis-1,2-Dichloroethene	ND	8,000	U	ppbv	8000	11/18/2011 9:40 AM
cis-1,3-dichloropropene	ND	8,000	U	ppbv	8000	11/18/2011 9:40 AM

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	11/2/2011 11:51:00 AM
Project:	Kirtland AFB		
Lab ID:	1111437-012	**Matrix:**	Air
Client Sample ID:	VA0729		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Cyclohexane	360,000	16,000		ppbv	8000	11/18/2011 9:40 AM
Dichlorodifluoromethane	ND	8,000	U	ppbv	8000	11/18/2011 9:40 AM
Ethyl acetate	ND	8,000	U	ppbv	8000	11/18/2011 9:40 AM
Ethylbenzene	14,000	16,000	J	ppbv	8000	11/18/2011 9:40 AM
Heptane	170,000	8,000		ppbv	8000	11/18/2011 9:40 AM
Hexachlorobutadiene	ND	16,000	U	ppbv	8000	11/18/2011 9:40 AM
m,p-Xylene	39,000	16,000		ppbv	8000	11/18/2011 9:40 AM
Methylene chloride	ND	40,000	U	ppbv	8000	11/18/2011 9:40 AM
n-Hexane	120,000	16,000		ppbv	8000	11/18/2011 9:40 AM
Naphthalene	ND	8,000	U	ppbv	8000	11/18/2011 9:40 AM
o-Xylene	10,000	8,000		ppbv	8000	11/18/2011 9:40 AM
Propylene	ND	8,000	U	ppbv	8000	11/18/2011 9:40 AM
Styrene	ND	8,000	U	ppbv	8000	11/18/2011 9:40 AM
tert-Butyl Methyl Ether	ND	8,000	U	ppbv	8000	11/18/2011 9:40 AM
Tetrachloroethene	ND	8,000	U	ppbv	8000	11/18/2011 9:40 AM
Tetrahydrofuran	ND	8,000	U	ppbv	8000	11/18/2011 9:40 AM
Toluene	300,000	8,000		ppbv	8000	11/18/2011 9:40 AM
trans-1,2-Dichloroethene	ND	8,000	U	ppbv	8000	11/18/2011 9:40 AM
trans-1,3-dichloropropene	ND	8,000	U	ppbv	8000	11/18/2011 9:40 AM
Trichloroethene	ND	8,000	U	ppbv	8000	11/18/2011 9:40 AM
Trichlorofluoromethane	ND	8,000	U	ppbv	8000	11/18/2011 9:40 AM
Vinyl acetate	ND	8,000	U	ppbv	8000	11/18/2011 9:40 AM
Vinyl chloride	ND	8,000	U	ppbv	8000	11/18/2011 9:40 AM
Xylenes, Total	49,000	24,000		ppbv	8000	11/18/2011 9:40 AM
Surr: 4-Bromofluorobenzene	112	70-130		%REC	8000	11/18/2011 9:40 AM
Mass APH Air	**Method:**					**Analyst: RH3**
Air-Phase Petroleum Hydrocarbons						
C5-C8 Aliphatic Hydrocarbons	14,000,000	940,000		µg/m³	8000	11/17/2011 12:56 AM
C9-C10 Aromatic Hydrocarbons	ND	1,100,000	U	µg/m³	8000	11/17/2011 12:56 AM
C9-C12 Aliphatic Hydrocarbons	ND	1,500,000	U	µg/m³	8000	11/17/2011 12:56 AM
Surr: 4-Bromofluorobenzene	96.8	70-130		%REC	8000	11/17/2011 12:56 AM

RTI Laboratories - Analytical Report

WO#: 1111437

Date Reported: 12/21/2011
Revision v1

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	11/2/2011 12:18:00 PM
Project:	Kirtland AFB		
Lab ID:	1111437-013	**Matrix:**	Air
Client Sample ID:	VA0730		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Noncondensable Gases and Light Hydrocarbons	**Method: ASTM-D2504**					**Analyst: MB**
Carbon dioxide	9.3	0.10		%	1	11/23/2011 2:03 PM
Carbon Monoxide	ND	0.10	U	%	1	11/23/2011 2:03 PM
Methane	ND	0.50	U	%	1	11/23/2011 2:03 PM
Nitrogen	85	0.10		%	1	11/23/2011 2:03 PM
Oxygen	3.6	0.10		%	1	11/23/2011 2:03 PM
Volatile Organic Compounds	**Method: TO-15**					**Analyst: RH3**
1,1,1-Trichloroethane	ND	20,000	U	ppbv	20000	11/18/2011 11:09 AM
1,1,2,2-Tetrachloroethane	ND	20,000	U	ppbv	20000	11/18/2011 11:09 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	20,000	U	ppbv	20000	11/18/2011 11:09 AM
1,1,2-Trichloroethane	ND	20,000	U	ppbv	20000	11/18/2011 11:09 AM
1,1-Dichloroethane	ND	20,000	U	ppbv	20000	11/18/2011 11:09 AM
1,1-Dichloroethene	ND	20,000	U	ppbv	20000	11/18/2011 11:09 AM
1,2,4-Trichlorobenzene	ND	20,000	U	ppbv	20000	11/18/2011 11:09 AM
1,2,4-Trimethylbenzene	ND	20,000	U	ppbv	20000	11/18/2011 11:09 AM
1,2-Dibromoethane	ND	20,000	U	ppbv	20000	11/18/2011 11:09 AM
1,2-Dichlorobenzene	ND	20,000	U	ppbv	20000	11/18/2011 11:09 AM
1,2-Dichloroethane	ND	20,000	U	ppbv	20000	11/18/2011 11:09 AM
1,2-Dichloropropane	ND	20,000	U	ppbv	20000	11/18/2011 11:09 AM
1,3,5-Trimethylbenzene	ND	20,000	U	ppbv	20000	11/18/2011 11:09 AM
1,3-Butadiene	ND	20,000	U	ppbv	20000	11/18/2011 11:09 AM
1,3-Dichlorobenzene	ND	20,000	U	ppbv	20000	11/18/2011 11:09 AM
1,4-Dichlorobenzene	ND	20,000	U	ppbv	20000	11/18/2011 11:09 AM
2-Butanone	110,000	20,000		ppbv	20000	11/18/2011 11:09 AM
2-Hexanone	ND	20,000	U	ppbv	20000	11/18/2011 11:09 AM
4-Methyl-2-pentanone	ND	20,000	U	ppbv	20000	11/18/2011 11:09 AM
Acetone	550,000	20,000		ppbv	20000	11/18/2011 11:09 AM
Benzene	390,000	20,000		ppbv	20000	11/18/2011 11:09 AM
Benzyl chloride	ND	20,000	U	ppbv	20000	11/18/2011 11:09 AM
Bromodichloromethane	ND	20,000	U	ppbv	20000	11/18/2011 11:09 AM
Bromoform	ND	20,000	U	ppbv	20000	11/18/2011 11:09 AM
Bromomethane	ND	20,000	U	ppbv	20000	11/18/2011 11:09 AM
Carbon disulfide	ND	20,000	U	ppbv	20000	11/18/2011 11:09 AM
Carbon tetrachloride	ND	20,000	U	ppbv	20000	11/18/2011 11:09 AM
Chlorobenzene	ND	20,000	U	ppbv	20000	11/18/2011 11:09 AM
Chlorodibromomethane	ND	20,000	U	ppbv	20000	11/18/2011 11:09 AM
Chloroethane	ND	20,000	U	ppbv	20000	11/18/2011 11:09 AM
Chloroform	ND	20,000	U	ppbv	20000	11/18/2011 11:09 AM
Chloromethane	ND	20,000	U	ppbv	20000	11/18/2011 11:09 AM
cis-1,2-Dichloroethene	ND	20,000	U	ppbv	20000	11/18/2011 11:09 AM
cis-1,3-dichloropropene	ND	20,000	U	ppbv	20000	11/18/2011 11:09 AM

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	11/2/2011 12:18:00 PM
Project:	Kirtland AFB		
Lab ID:	1111437-013	**Matrix:**	Air
Client Sample ID:	VA0730		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Cyclohexane	1,100,000	40,000		ppbv	20000	11/18/2011 11:09 AM
Dichlorodifluoromethane	ND	20,000	U	ppbv	20000	11/18/2011 11:09 AM
Ethyl acetate	ND	20,000	U	ppbv	20000	11/18/2011 11:09 AM
Ethylbenzene	36,000	40,000	J	ppbv	20000	11/18/2011 11:09 AM
Heptane	740,000	20,000		ppbv	20000	11/18/2011 11:09 AM
Hexachlorobutadiene	ND	40,000	U	ppbv	20000	11/18/2011 11:09 AM
m,p-Xylene	69,000	40,000		ppbv	20000	11/18/2011 11:09 AM
Methylene chloride	ND	100,000	U	ppbv	20000	11/18/2011 11:09 AM
n-Hexane	1,200,000	40,000		ppbv	20000	11/18/2011 11:09 AM
Naphthalene	ND	20,000	U	ppbv	20000	11/18/2011 11:09 AM
o-Xylene	ND	20,000	U	ppbv	20000	11/18/2011 11:09 AM
Propylene	ND	20,000	U	ppbv	20000	11/18/2011 11:09 AM
Styrene	ND	20,000	U	ppbv	20000	11/18/2011 11:09 AM
tert-Butyl Methyl Ether	ND	20,000	U	ppbv	20000	11/18/2011 11:09 AM
Tetrachloroethene	ND	20,000	U	ppbv	20000	11/18/2011 11:09 AM
Tetrahydrofuran	ND	20,000	U	ppbv	20000	11/18/2011 11:09 AM
Toluene	930,000	20,000		ppbv	20000	11/18/2011 11:09 AM
trans-1,2-Dichloroethene	ND	20,000	U	ppbv	20000	11/18/2011 11:09 AM
trans-1,3-dichloropropene	ND	20,000	U	ppbv	20000	11/18/2011 11:09 AM
Trichloroethene	ND	20,000	U	ppbv	20000	11/18/2011 11:09 AM
Trichlorofluoromethane	ND	20,000	U	ppbv	20000	11/18/2011 11:09 AM
Vinyl acetate	ND	20,000	U	ppbv	20000	11/18/2011 11:09 AM
Vinyl chloride	ND	20,000	U	ppbv	20000	11/18/2011 11:09 AM
Xylenes, Total	69,000	60,000		ppbv	20000	11/18/2011 11:09 AM
Surr: 4-Bromofluorobenzene	111	70-130		%REC	20000	11/18/2011 11:09 AM
Mass APH Air	**Method:**					**Analyst: RH3**
Air-Phase Petroleum Hydrocarbons						
C5-C8 Aliphatic Hydrocarbons	66,000,000	4,700,000		µg/m³	40000	11/17/2011 11:50 PM
C9-C10 Aromatic Hydrocarbons	ND	5,300,000	U	µg/m³	40000	11/17/2011 11:50 PM
C9-C12 Aliphatic Hydrocarbons	ND	7,600,000	U	µg/m³	40000	11/17/2011 11:50 PM
Surr: 4-Bromofluorobenzene	94.4	70-130		%REC	40000	11/17/2011 11:50 PM

RTI Laboratories - Analytical Report

WO#: 1111437

Date Reported: 12/21/2011
Revision v1

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	11/2/2011 12:18:00 PM
Project:	Kirtland AFB		
Lab ID:	1111437-014	**Matrix:**	Air
Client Sample ID:	VA0731		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Noncondensable Gases and Light Hydrocarbons	**Method: ASTM-D2504**					**Analyst: MB**
Carbon dioxide	9.4	0.10		%	1	11/23/2011 2:29 PM
Carbon Monoxide	ND	0.10	U	%	1	11/23/2011 2:29 PM
Methane	ND	0.50	U	%	1	11/23/2011 2:29 PM
Nitrogen	85	0.10		%	1	11/23/2011 2:29 PM
Oxygen	3.1	0.10		%	1	11/23/2011 2:29 PM
Volatile Organic Compounds	**Method: TO-15**					**Analyst: RH3**
1,1,1-Trichloroethane	ND	20,000	U	ppbv	20000	11/18/2011 11:49 AM
1,1,2,2-Tetrachloroethane	ND	20,000	U	ppbv	20000	11/18/2011 11:49 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	20,000	U	ppbv	20000	11/18/2011 11:49 AM
1,1,2-Trichloroethane	ND	20,000	U	ppbv	20000	11/18/2011 11:49 AM
1,1-Dichloroethane	ND	20,000	U	ppbv	20000	11/18/2011 11:49 AM
1,1-Dichloroethene	ND	20,000	U	ppbv	20000	11/18/2011 11:49 AM
1,2,4-Trichlorobenzene	ND	20,000	U	ppbv	20000	11/18/2011 11:49 AM
1,2,4-Trimethylbenzene	ND	20,000	U	ppbv	20000	11/18/2011 11:49 AM
1,2-Dibromoethane	ND	20,000	U	ppbv	20000	11/18/2011 11:49 AM
1,2-Dichlorobenzene	ND	20,000	U	ppbv	20000	11/18/2011 11:49 AM
1,2-Dichloroethane	ND	20,000	U	ppbv	20000	11/18/2011 11:49 AM
1,2-Dichloropropane	ND	20,000	U	ppbv	20000	11/18/2011 11:49 AM
1,3,5-Trimethylbenzene	ND	20,000	U	ppbv	20000	11/18/2011 11:49 AM
1,3-Butadiene	ND	20,000	U	ppbv	20000	11/18/2011 11:49 AM
1,3-Dichlorobenzene	ND	20,000	U	ppbv	20000	11/18/2011 11:49 AM
1,4-Dichlorobenzene	ND	20,000	U	ppbv	20000	11/18/2011 11:49 AM
2-Butanone	70,000	20,000		ppbv	20000	11/18/2011 11:49 AM
2-Hexanone	ND	20,000	U	ppbv	20000	11/18/2011 11:49 AM
4-Methyl-2-pentanone	ND	20,000	U	ppbv	20000	11/18/2011 11:49 AM
Acetone	420,000	20,000		ppbv	20000	11/18/2011 11:49 AM
Benzene	300,000	20,000		ppbv	20000	11/18/2011 11:49 AM
Benzyl chloride	ND	20,000	U	ppbv	20000	11/18/2011 11:49 AM
Bromodichloromethane	ND	20,000	U	ppbv	20000	11/18/2011 11:49 AM
Bromoform	ND	20,000	U	ppbv	20000	11/18/2011 11:49 AM
Bromomethane	ND	20,000	U	ppbv	20000	11/18/2011 11:49 AM
Carbon disulfide	ND	20,000	U	ppbv	20000	11/18/2011 11:49 AM
Carbon tetrachloride	ND	20,000	U	ppbv	20000	11/18/2011 11:49 AM
Chlorobenzene	ND	20,000	U	ppbv	20000	11/18/2011 11:49 AM
Chlorodibromomethane	ND	20,000	U	ppbv	20000	11/18/2011 11:49 AM
Chloroethane	ND	20,000	U	ppbv	20000	11/18/2011 11:49 AM
Chloroform	ND	20,000	U	ppbv	20000	11/18/2011 11:49 AM
Chloromethane	ND	20,000	U	ppbv	20000	11/18/2011 11:49 AM
cis-1,2-Dichloroethene	ND	20,000	U	ppbv	20000	11/18/2011 11:49 AM
cis-1,3-dichloropropene	ND	20,000	U	ppbv	20000	11/18/2011 11:49 AM

RTI Laboratories - Analytical Report

WO#: 1111437

Date Reported: 12/21/2011
Revision v1

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	11/2/2011 12:18:00 PM
Project:	Kirtland AFB		
Lab ID:	1111437-014	**Matrix:**	Air
Client Sample ID:	VA0731		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Cyclohexane	970,000	40,000		ppbv	20000	11/18/2011 11:49 AM
Dichlorodifluoromethane	ND	20,000	U	ppbv	20000	11/18/2011 11:49 AM
Ethyl acetate	ND	20,000	U	ppbv	20000	11/18/2011 11:49 AM
Ethylbenzene	42,000	40,000		ppbv	20000	11/18/2011 11:49 AM
Heptane	610,000	20,000		ppbv	20000	11/18/2011 11:49 AM
Hexachlorobutadiene	ND	40,000	U	ppbv	20000	11/18/2011 11:49 AM
m,p-Xylene	88,000	40,000		ppbv	20000	11/18/2011 11:49 AM
Methylene chloride	ND	100,000	U	ppbv	20000	11/18/2011 11:49 AM
n-Hexane	1,100,000	40,000		ppbv	20000	11/18/2011 11:49 AM
Naphthalene	ND	20,000	U	ppbv	20000	11/18/2011 11:49 AM
o-Xylene	22,000	20,000		ppbv	20000	11/18/2011 11:49 AM
Propylene	ND	20,000	U	ppbv	20000	11/18/2011 11:49 AM
Styrene	ND	20,000	U	ppbv	20000	11/18/2011 11:49 AM
tert-Butyl Methyl Ether	ND	20,000	U	ppbv	20000	11/18/2011 11:49 AM
Tetrachloroethene	ND	20,000	U	ppbv	20000	11/18/2011 11:49 AM
Tetrahydrofuran	ND	20,000	U	ppbv	20000	11/18/2011 11:49 AM
Toluene	700,000	20,000		ppbv	20000	11/18/2011 11:49 AM
trans-1,2-Dichloroethene	ND	20,000	U	ppbv	20000	11/18/2011 11:49 AM
trans-1,3-dichloropropene	ND	20,000	U	ppbv	20000	11/18/2011 11:49 AM
Trichloroethene	ND	20,000	U	ppbv	20000	11/18/2011 11:49 AM
Trichlorofluoromethane	ND	20,000	U	ppbv	20000	11/18/2011 11:49 AM
Vinyl acetate	ND	20,000	U	ppbv	20000	11/18/2011 11:49 AM
Vinyl chloride	ND	20,000	U	ppbv	20000	11/18/2011 11:49 AM
Xylenes, Total	110,000	60,000		ppbv	20000	11/18/2011 11:49 AM
Surr: 4-Bromofluorobenzene	110	70-130		%REC	20000	11/18/2011 11:49 AM
Mass APH Air	**Method:**					**Analyst: RH3**
Air-Phase Petroleum Hydrocarbons						
C5-C8 Aliphatic Hydrocarbons	56,000,000	4,700,000		µg/m³	40000	11/18/2011 12:35 AM
C9-C10 Aromatic Hydrocarbons	ND	5,300,000	U	µg/m³	40000	11/18/2011 12:35 AM
C9-C12 Aliphatic Hydrocarbons	ND	7,600,000	U	µg/m³	40000	11/18/2011 12:35 AM
Surr: 4-Bromofluorobenzene	95.7	70-130		%REC	40000	11/18/2011 12:35 AM

RTI Laboratories - Analytical Report

WO#: 1111437

Date Reported: 12/21/2011
Revision v1

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	11/2/2011 1:16:00 PM
Project:	Kirtland AFB		
Lab ID:	1111437-015	**Matrix:**	Air
Client Sample ID:	VA0732		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Noncondensable Gases and Light Hydrocarbons	**Method: ASTM-D2504**					**Analyst: MB**
Carbon dioxide	4.4	0.10		%	1	11/23/2011 3:00 PM
Carbon Monoxide	ND	0.10	U	%	1	11/23/2011 3:00 PM
Methane	ND	0.50	U	%	1	11/23/2011 3:00 PM
Nitrogen	83	0.10		%	1	11/23/2011 3:00 PM
Oxygen	11	0.10		%	1	11/23/2011 3:00 PM
Volatile Organic Compounds	**Method: TO-15**					**Analyst: RH3**
1,1,1-Trichloroethane	ND	8,000	U	ppbv	8000	11/18/2011 5:18 PM
1,1,2,2-Tetrachloroethane	ND	8,000	U	ppbv	8000	11/18/2011 5:18 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	8,000	U	ppbv	8000	11/18/2011 5:18 PM
1,1,2-Trichloroethane	ND	8,000	U	ppbv	8000	11/18/2011 5:18 PM
1,1-Dichloroethane	ND	8,000	U	ppbv	8000	11/18/2011 5:18 PM
1,1-Dichloroethene	ND	8,000	U	ppbv	8000	11/18/2011 5:18 PM
1,2,4-Trichlorobenzene	ND	8,000	U	ppbv	8000	11/18/2011 5:18 PM
1,2,4-Trimethylbenzene	ND	8,000	U	ppbv	8000	11/18/2011 5:18 PM
1,2-Dibromoethane	ND	8,000	U	ppbv	8000	11/18/2011 5:18 PM
1,2-Dichlorobenzene	ND	8,000	U	ppbv	8000	11/18/2011 5:18 PM
1,2-Dichloroethane	ND	8,000	U	ppbv	8000	11/18/2011 5:18 PM
1,2-Dichloropropane	ND	8,000	U	ppbv	8000	11/18/2011 5:18 PM
1,3,5-Trimethylbenzene	ND	8,000	U	ppbv	8000	11/18/2011 5:18 PM
1,3-Butadiene	ND	8,000	U	ppbv	8000	11/18/2011 5:18 PM
1,3-Dichlorobenzene	ND	8,000	U	ppbv	8000	11/18/2011 5:18 PM
1,4-Dichlorobenzene	ND	8,000	U	ppbv	8000	11/18/2011 5:18 PM
2-Butanone	55,000	8,000		ppbv	8000	11/18/2011 5:18 PM
2-Hexanone	ND	8,000	U	ppbv	8000	11/18/2011 5:18 PM
4-Methyl-2-pentanone	ND	8,000	U	ppbv	8000	11/18/2011 5:18 PM
Acetone	320,000	8,000		ppbv	8000	11/18/2011 5:18 PM
Benzene	72,000	8,000		ppbv	8000	11/18/2011 5:18 PM
Benzyl chloride	ND	8,000	U	ppbv	8000	11/18/2011 5:18 PM
Bromodichloromethane	ND	8,000	U	ppbv	8000	11/18/2011 5:18 PM
Bromoform	ND	8,000	U	ppbv	8000	11/18/2011 5:18 PM
Bromomethane	ND	8,000	U	ppbv	8000	11/18/2011 5:18 PM
Carbon disulfide	ND	8,000	U	ppbv	8000	11/18/2011 5:18 PM
Carbon tetrachloride	ND	8,000	U	ppbv	8000	11/18/2011 5:18 PM
Chlorobenzene	ND	8,000	U	ppbv	8000	11/18/2011 5:18 PM
Chlorodibromomethane	ND	8,000	U	ppbv	8000	11/18/2011 5:18 PM
Chloroethane	ND	8,000	U	ppbv	8000	11/18/2011 5:18 PM
Chloroform	ND	8,000	U	ppbv	8000	11/18/2011 5:18 PM
Chloromethane	ND	8,000	U	ppbv	8000	11/18/2011 5:18 PM
cis-1,2-Dichloroethene	ND	8,000	U	ppbv	8000	11/18/2011 5:18 PM
cis-1,3-dichloropropene	ND	8,000	U	ppbv	8000	11/18/2011 5:18 PM

RTI Laboratories - Analytical Report

WO#: 1111437

Date Reported: 12/21/2011
Revision v1

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	11/2/2011 1:16:00 PM
Project:	Kirtland AFB		
Lab ID:	1111437-015	**Matrix:**	Air
Client Sample ID:	VA0732		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Cyclohexane	320,000	16,000		ppbv	8000	11/18/2011 5:18 PM
Dichlorodifluoromethane	ND	8,000	U	ppbv	8000	11/18/2011 5:18 PM
Ethyl acetate	ND	8,000	U	ppbv	8000	11/18/2011 5:18 PM
Ethylbenzene	36,000	16,000		ppbv	8000	11/18/2011 5:18 PM
Heptane	410,000	8,000		ppbv	8000	11/18/2011 5:18 PM
Hexachlorobutadiene	ND	16,000	U	ppbv	8000	11/18/2011 5:18 PM
m,p-Xylene	100,000	16,000		ppbv	8000	11/18/2011 5:18 PM
Methylene chloride	ND	40,000	U	ppbv	8000	11/18/2011 5:18 PM
n-Hexane	110,000	16,000		ppbv	8000	11/18/2011 5:18 PM
Naphthalene	ND	8,000	U	ppbv	8000	11/18/2011 5:18 PM
o-Xylene	28,000	8,000		ppbv	8000	11/18/2011 5:18 PM
Propylene	ND	8,000	U	ppbv	8000	11/18/2011 5:18 PM
Styrene	ND	8,000	U	ppbv	8000	11/18/2011 5:18 PM
tert-Butyl Methyl Ether	ND	8,000	U	ppbv	8000	11/18/2011 5:18 PM
Tetrachloroethene	ND	8,000	U	ppbv	8000	11/18/2011 5:18 PM
Tetrahydrofuran	ND	8,000	U	ppbv	8000	11/18/2011 5:18 PM
Toluene	470,000	8,000		ppbv	8000	11/18/2011 5:18 PM
trans-1,2-Dichloroethene	ND	8,000	U	ppbv	8000	11/18/2011 5:18 PM
trans-1,3-dichloropropene	ND	8,000	U	ppbv	8000	11/18/2011 5:18 PM
Trichloroethene	ND	8,000	U	ppbv	8000	11/18/2011 5:18 PM
Trichlorofluoromethane	ND	8,000	U	ppbv	8000	11/18/2011 5:18 PM
Vinyl acetate	ND	8,000	U	ppbv	8000	11/18/2011 5:18 PM
Vinyl chloride	ND	8,000	U	ppbv	8000	11/18/2011 5:18 PM
Xylenes, Total	130,000	24,000		ppbv	8000	11/18/2011 5:18 PM
Surr: 4-Bromofluorobenzene	105	70-130		%REC	8000	11/18/2011 5:18 PM
Mass APH Air	**Method:**					**Analyst: RH3**
Air-Phase Petroleum Hydrocarbons						
C5-C8 Aliphatic Hydrocarbons	13,000,000	940,000		µg/m³	8000	11/17/2011 3:18 PM
C9-C10 Aromatic Hydrocarbons	ND	1,100,000	U	µg/m³	8000	11/17/2011 3:18 PM
C9-C12 Aliphatic Hydrocarbons	ND	1,500,000	U	µg/m³	8000	11/17/2011 3:18 PM
Surr: 4-Bromofluorobenzene	96.5	70-130		%REC	8000	11/17/2011 3:18 PM

RTI Laboratories - Analytical Report

WO#: 1111437

Date Reported: 12/21/2011
Revision v1

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	11/2/2011 2:08:00 PM
Project:	Kirtland AFB		
Lab ID:	1111437-016	**Matrix:**	Air
Client Sample ID:	VA0733		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Noncondensable Gases and Light Hydrocarbons	**Method: ASTM-D2504**					**Analyst: MB**
Carbon dioxide	3.6	0.10		%	1	11/23/2011 3:24 PM
Carbon Monoxide	ND	0.10	U	%	1	11/23/2011 3:24 PM
Methane	ND	0.50	U	%	1	11/23/2011 3:24 PM
Nitrogen	83	0.10		%	1	11/23/2011 3:24 PM
Oxygen	13	0.10		%	1	11/23/2011 3:24 PM
Volatile Organic Compounds	**Method: TO-15**					**Analyst: RH3**
1,1,1-Trichloroethane	ND	8,000	U	ppbv	8000	11/18/2011 1:12 PM
1,1,2,2-Tetrachloroethane	ND	8,000	U	ppbv	8000	11/18/2011 1:12 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	8,000	U	ppbv	8000	11/18/2011 1:12 PM
1,1,2-Trichloroethane	ND	8,000	U	ppbv	8000	11/18/2011 1:12 PM
1,1-Dichloroethane	ND	8,000	U	ppbv	8000	11/18/2011 1:12 PM
1,1-Dichloroethene	ND	8,000	U	ppbv	8000	11/18/2011 1:12 PM
1,2,4-Trichlorobenzene	ND	8,000	U	ppbv	8000	11/18/2011 1:12 PM
1,2,4-Trimethylbenzene	ND	8,000	U	ppbv	8000	11/18/2011 1:12 PM
1,2-Dibromoethane	ND	8,000	U	ppbv	8000	11/18/2011 1:12 PM
1,2-Dichlorobenzene	ND	8,000	U	ppbv	8000	11/18/2011 1:12 PM
1,2-Dichloroethane	ND	8,000	U	ppbv	8000	11/18/2011 1:12 PM
1,2-Dichloropropane	ND	8,000	U	ppbv	8000	11/18/2011 1:12 PM
1,3,5-Trimethylbenzene	ND	8,000	U	ppbv	8000	11/18/2011 1:12 PM
1,3-Butadiene	ND	8,000	U	ppbv	8000	11/18/2011 1:12 PM
1,3-Dichlorobenzene	ND	8,000	U	ppbv	8000	11/18/2011 1:12 PM
1,4-Dichlorobenzene	ND	8,000	U	ppbv	8000	11/18/2011 1:12 PM
2-Butanone	58,000	8,000		ppbv	8000	11/18/2011 1:12 PM
2-Hexanone	ND	8,000	U	ppbv	8000	11/18/2011 1:12 PM
4-Methyl-2-pentanone	ND	8,000	U	ppbv	8000	11/18/2011 1:12 PM
Acetone	240,000	8,000		ppbv	8000	11/18/2011 1:12 PM
Benzene	120,000	8,000		ppbv	8000	11/18/2011 1:12 PM
Benzyl chloride	ND	8,000	U	ppbv	8000	11/18/2011 1:12 PM
Bromodichloromethane	ND	8,000	U	ppbv	8000	11/18/2011 1:12 PM
Bromoform	ND	8,000	U	ppbv	8000	11/18/2011 1:12 PM
Bromomethane	ND	8,000	U	ppbv	8000	11/18/2011 1:12 PM
Carbon disulfide	ND	8,000	U	ppbv	8000	11/18/2011 1:12 PM
Carbon tetrachloride	ND	8,000	U	ppbv	8000	11/18/2011 1:12 PM
Chlorobenzene	ND	8,000	U	ppbv	8000	11/18/2011 1:12 PM
Chlorodibromomethane	ND	8,000	U	ppbv	8000	11/18/2011 1:12 PM
Chloroethane	ND	8,000	U	ppbv	8000	11/18/2011 1:12 PM
Chloroform	ND	8,000	U	ppbv	8000	11/18/2011 1:12 PM
Chloromethane	ND	8,000	U	ppbv	8000	11/18/2011 1:12 PM
cis-1,2-Dichloroethene	ND	8,000	U	ppbv	8000	11/18/2011 1:12 PM
cis-1,3-dichloropropene	ND	8,000	U	ppbv	8000	11/18/2011 1:12 PM

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	11/2/2011 2:08:00 PM
Project:	Kirtland AFB		
Lab ID:	1111437-016	**Matrix:**	Air
Client Sample ID:	VA0733		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Cyclohexane	430,000	16,000		ppbv	8000	11/18/2011 1:12 PM
Dichlorodifluoromethane	ND	8,000	U	ppbv	8000	11/18/2011 1:12 PM
Ethyl acetate	ND	8,000	U	ppbv	8000	11/18/2011 1:12 PM
Ethylbenzene	18,000	16,000		ppbv	8000	11/18/2011 1:12 PM
Heptane	340,000	8,000		ppbv	8000	11/18/2011 1:12 PM
Hexachlorobutadiene	ND	16,000	U	ppbv	8000	11/18/2011 1:12 PM
m,p-Xylene	57,000	16,000		ppbv	8000	11/18/2011 1:12 PM
Methylene chloride	ND	40,000	U	ppbv	8000	11/18/2011 1:12 PM
n-Hexane	200,000	16,000		ppbv	8000	11/18/2011 1:12 PM
Naphthalene	ND	8,000	U	ppbv	8000	11/18/2011 1:12 PM
o-Xylene	16,000	8,000		ppbv	8000	11/18/2011 1:12 PM
Propylene	ND	8,000	U	ppbv	8000	11/18/2011 1:12 PM
Styrene	ND	8,000	U	ppbv	8000	11/18/2011 1:12 PM
tert-Butyl Methyl Ether	ND	8,000	U	ppbv	8000	11/18/2011 1:12 PM
Tetrachloroethene	ND	8,000	U	ppbv	8000	11/18/2011 1:12 PM
Tetrahydrofuran	ND	8,000	U	ppbv	8000	11/18/2011 1:12 PM
Toluene	310,000	8,000		ppbv	8000	11/18/2011 1:12 PM
trans-1,2-Dichloroethene	ND	8,000	U	ppbv	8000	11/18/2011 1:12 PM
trans-1,3-dichloropropene	ND	8,000	U	ppbv	8000	11/18/2011 1:12 PM
Trichloroethene	ND	8,000	U	ppbv	8000	11/18/2011 1:12 PM
Trichlorofluoromethane	ND	8,000	U	ppbv	8000	11/18/2011 1:12 PM
Vinyl acetate	ND	8,000	U	ppbv	8000	11/18/2011 1:12 PM
Vinyl chloride	ND	8,000	U	ppbv	8000	11/18/2011 1:12 PM
Xylenes, Total	73,000	24,000		ppbv	8000	11/18/2011 1:12 PM
Surr: 4-Bromofluorobenzene	107	70-130		%REC	8000	11/18/2011 1:12 PM
Mass APH Air	**Method:**					**Analyst: RH3**
Air-Phase Petroleum Hydrocarbons						
C5-C8 Aliphatic Hydrocarbons	9,800,000	940,000		µg/m³	8000	11/17/2011 4:02 PM
C9-C10 Aromatic Hydrocarbons	ND	1,100,000	U	µg/m³	8000	11/17/2011 4:02 PM
C9-C12 Aliphatic Hydrocarbons	ND	1,500,000	U	µg/m³	8000	11/17/2011 4:02 PM
Surr: 4-Bromofluorobenzene	95.7	70-130		%REC	8000	11/17/2011 4:02 PM

RTI Laboratories - Analytical Report

WO#: 1111437

Date Reported: 12/21/2011
Revision v1

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	11/1/2011 9:06:00 AM
Project:	Kirtland AFB		
Lab ID:	1111437-017	**Matrix:**	Air
Client Sample ID:	VA0752		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Noncondensable Gases and Light Hydrocarbons	**Method: ASTM-D2504**					**Analyst: MB**
Carbon dioxide	0.11	0.10		%	1	11/23/2011 3:46 PM
Carbon Monoxide	ND	0.10	U	%	1	11/23/2011 3:46 PM
Methane	ND	0.50	U	%	1	11/23/2011 3:46 PM
Nitrogen	79	0.10		%	1	11/23/2011 3:46 PM
Oxygen	21	0.10		%	1	11/23/2011 3:46 PM
Volatile Organic Compounds	**Method: TO-15**					**Analyst: RH3**
1,1,1-Trichloroethane	ND	400	U	ppbv	400	11/17/2011 4:25 AM
1,1,2,2-Tetrachloroethane	ND	400	U	ppbv	400	11/17/2011 4:25 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	400	U	ppbv	400	11/17/2011 4:25 AM
1,1,2-Trichloroethane	ND	400	U	ppbv	400	11/17/2011 4:25 AM
1,1-Dichloroethane	ND	400	U	ppbv	400	11/17/2011 4:25 AM
1,1-Dichloroethene	ND	400	U	ppbv	400	11/17/2011 4:25 AM
1,2,4-Trichlorobenzene	ND	400	U	ppbv	400	11/17/2011 4:25 AM
1,2,4-Trimethylbenzene	ND	400	U	ppbv	400	11/17/2011 4:25 AM
1,2-Dibromoethane	ND	400	U	ppbv	400	11/17/2011 4:25 AM
1,2-Dichlorobenzene	ND	400	U	ppbv	400	11/17/2011 4:25 AM
1,2-Dichloroethane	ND	400	U	ppbv	400	11/17/2011 4:25 AM
1,2-Dichloropropane	ND	400	U	ppbv	400	11/17/2011 4:25 AM
1,3,5-Trimethylbenzene	ND	400	U	ppbv	400	11/17/2011 4:25 AM
1,3-Butadiene	ND	400	U	ppbv	400	11/17/2011 4:25 AM
1,3-Dichlorobenzene	ND	400	U	ppbv	400	11/17/2011 4:25 AM
1,4-Dichlorobenzene	ND	400	U	ppbv	400	11/17/2011 4:25 AM
2-Butanone	ND	400	U	ppbv	400	11/17/2011 4:25 AM
2-Hexanone	ND	400	U	ppbv	400	11/17/2011 4:25 AM
4-Methyl-2-pentanone	ND	400	U	ppbv	400	11/17/2011 4:25 AM
Acetone	ND	400	U	ppbv	400	11/17/2011 4:25 AM
Benzene	1,600	400		ppbv	400	11/17/2011 4:25 AM
Benzyl chloride	ND	400	U	ppbv	400	11/17/2011 4:25 AM
Bromodichloromethane	ND	400	U	ppbv	400	11/17/2011 4:25 AM
Bromoform	ND	400	U	ppbv	400	11/17/2011 4:25 AM
Bromomethane	ND	400	U	ppbv	400	11/17/2011 4:25 AM
Carbon disulfide	ND	400	U	ppbv	400	11/17/2011 4:25 AM
Carbon tetrachloride	ND	400	U	ppbv	400	11/17/2011 4:25 AM
Chlorobenzene	ND	400	U	ppbv	400	11/17/2011 4:25 AM
Chlorodibromomethane	ND	400	U	ppbv	400	11/17/2011 4:25 AM
Chloroethane	ND	400	U	ppbv	400	11/17/2011 4:25 AM
Chloroform	ND	400	U	ppbv	400	11/17/2011 4:25 AM
Chloromethane	ND	400	U	ppbv	400	11/17/2011 4:25 AM
cis-1,2-Dichloroethene	ND	400	U	ppbv	400	11/17/2011 4:25 AM
cis-1,3-dichloropropene	ND	400	U	ppbv	400	11/17/2011 4:25 AM

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	11/1/2011 9:06:00 AM
Project:	Kirtland AFB		
Lab ID:	1111437-017	**Matrix:**	Air
Client Sample ID:	VA0752		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Cyclohexane	2,800	800		ppbv	400	11/17/2011 4:25 AM
Dichlorodifluoromethane	ND	400	U	ppbv	400	11/17/2011 4:25 AM
Ethyl acetate	ND	400	U	ppbv	400	11/17/2011 4:25 AM
Ethylbenzene	ND	800	U	ppbv	400	11/17/2011 4:25 AM
Heptane	1,900	400		ppbv	400	11/17/2011 4:25 AM
Hexachlorobutadiene	ND	800	U	ppbv	400	11/17/2011 4:25 AM
m,p-Xylene	840	800		ppbv	400	11/17/2011 4:25 AM
Methylene chloride	1,200	2,000	J	ppbv	400	11/17/2011 4:25 AM
n-Hexane	1,400	800		ppbv	400	11/17/2011 4:25 AM
Naphthalene	ND	400	U	ppbv	400	11/17/2011 4:25 AM
o-Xylene	ND	400	U	ppbv	400	11/17/2011 4:25 AM
Propylene	ND	400	U	ppbv	400	11/17/2011 4:25 AM
Styrene	ND	400	U	ppbv	400	11/17/2011 4:25 AM
tert-Butyl Methyl Ether	ND	400	U	ppbv	400	11/17/2011 4:25 AM
Tetrachloroethene	ND	400	U	ppbv	400	11/17/2011 4:25 AM
Tetrahydrofuran	ND	400	U	ppbv	400	11/17/2011 4:25 AM
Toluene	4,700	400		ppbv	400	11/17/2011 4:25 AM
trans-1,2-Dichloroethene	ND	400	U	ppbv	400	11/17/2011 4:25 AM
trans-1,3-dichloropropene	ND	400	U	ppbv	400	11/17/2011 4:25 AM
Trichloroethene	ND	400	U	ppbv	400	11/17/2011 4:25 AM
Trichlorofluoromethane	ND	400	U	ppbv	400	11/17/2011 4:25 AM
Vinyl acetate	ND	400	U	ppbv	400	11/17/2011 4:25 AM
Vinyl chloride	ND	400	U	ppbv	400	11/17/2011 4:25 AM
Xylenes, Total	840	1,200	J	ppbv	400	11/17/2011 4:25 AM
Surr: 4-Bromofluorobenzene	106	70-130		%REC	400	11/17/2011 4:25 AM
Mass APH Air	**Method:**					**Analyst: RH3**
Air-Phase Petroleum Hydrocarbons						
C5-C8 Aliphatic Hydrocarbons	200,000	47,000		µg/m³	400	11/16/2011 7:34 AM
C9-C10 Aromatic Hydrocarbons	ND	53,000	U	µg/m³	400	11/16/2011 7:34 AM
C9-C12 Aliphatic Hydrocarbons	32,000	76,000	J	µg/m³	400	11/16/2011 7:34 AM
Surr: 4-Bromofluorobenzene	101	70-130		%REC	400	11/16/2011 7:34 AM

RTI Laboratories - Analytical Report

WO#: 1111437

Date Reported: 12/21/2011
Revision v1

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	11/1/2011 9:37:00 AM
Project:	Kirtland AFB		
Lab ID:	1111437-018	**Matrix:**	Air
Client Sample ID:	VA0753		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Noncondensable Gases and Light Hydrocarbons	**Method: ASTM-D2504**					**Analyst: MB**
Carbon dioxide	0.20	0.10		%	1	11/23/2011 4:09 PM
Carbon Monoxide	ND	0.10	U	%	1	11/23/2011 4:09 PM
Methane	ND	0.50	U	%	1	11/23/2011 4:09 PM
Nitrogen	78	0.10		%	1	11/23/2011 4:09 PM
Oxygen	21	0.10		%	1	11/23/2011 4:09 PM
Volatile Organic Compounds	**Method: TO-15**					**Analyst: RH3**
1,1,1-Trichloroethane	ND	400	U	ppbv	400	11/18/2011 2:31 AM
1,1,2,2-Tetrachloroethane	ND	400	U	ppbv	400	11/18/2011 2:31 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	400	U	ppbv	400	11/18/2011 2:31 AM
1,1,2-Trichloroethane	ND	400	U	ppbv	400	11/18/2011 2:31 AM
1,1-Dichloroethane	ND	400	U	ppbv	400	11/18/2011 2:31 AM
1,1-Dichloroethene	ND	400	U	ppbv	400	11/18/2011 2:31 AM
1,2,4-Trichlorobenzene	ND	400	U	ppbv	400	11/18/2011 2:31 AM
1,2,4-Trimethylbenzene	ND	400	U	ppbv	400	11/18/2011 2:31 AM
1,2-Dibromoethane	ND	400	U	ppbv	400	11/18/2011 2:31 AM
1,2-Dichlorobenzene	ND	400	U	ppbv	400	11/18/2011 2:31 AM
1,2-Dichloroethane	ND	400	U	ppbv	400	11/18/2011 2:31 AM
1,2-Dichloropropane	ND	400	U	ppbv	400	11/18/2011 2:31 AM
1,3,5-Trimethylbenzene	ND	400	U	ppbv	400	11/18/2011 2:31 AM
1,3-Butadiene	ND	400	U	ppbv	400	11/18/2011 2:31 AM
1,3-Dichlorobenzene	ND	400	U	ppbv	400	11/18/2011 2:31 AM
1,4-Dichlorobenzene	ND	400	U	ppbv	400	11/18/2011 2:31 AM
2-Butanone	ND	400	U	ppbv	400	11/18/2011 2:31 AM
2-Hexanone	ND	400	U	ppbv	400	11/18/2011 2:31 AM
4-Methyl-2-pentanone	ND	400	U	ppbv	400	11/18/2011 2:31 AM
Acetone	770	400		ppbv	400	11/18/2011 2:31 AM
Benzene	1,600	400		ppbv	400	11/18/2011 2:31 AM
Benzyl chloride	ND	400	U	ppbv	400	11/18/2011 2:31 AM
Bromodichloromethane	ND	400	U	ppbv	400	11/18/2011 2:31 AM
Bromoform	ND	400	U	ppbv	400	11/18/2011 2:31 AM
Bromomethane	ND	400	U	ppbv	400	11/18/2011 2:31 AM
Carbon disulfide	ND	400	U	ppbv	400	11/18/2011 2:31 AM
Carbon tetrachloride	ND	400	U	ppbv	400	11/18/2011 2:31 AM
Chlorobenzene	ND	400	U	ppbv	400	11/18/2011 2:31 AM
Chlorodibromomethane	ND	400	U	ppbv	400	11/18/2011 2:31 AM
Chloroethane	ND	400	U	ppbv	400	11/18/2011 2:31 AM
Chloroform	ND	400	U	ppbv	400	11/18/2011 2:31 AM
Chloromethane	ND	400	U	ppbv	400	11/18/2011 2:31 AM
cis-1,2-Dichloroethene	ND	400	U	ppbv	400	11/18/2011 2:31 AM
cis-1,3-dichloropropene	ND	400	U	ppbv	400	11/18/2011 2:31 AM

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	11/1/2011 9:37:00 AM
Project:	Kirtland AFB		
Lab ID:	1111437-018	**Matrix:**	Air
Client Sample ID:	VA0753		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Cyclohexane	3,300	800		ppbv	400	11/18/2011 2:31 AM
Dichlorodifluoromethane	ND	400	U	ppbv	400	11/18/2011 2:31 AM
Ethyl acetate	ND	400	U	ppbv	400	11/18/2011 2:31 AM
Ethylbenzene	450	800	J	ppbv	400	11/18/2011 2:31 AM
Heptane	2,300	400		ppbv	400	11/18/2011 2:31 AM
Hexachlorobutadiene	ND	800	U	ppbv	400	11/18/2011 2:31 AM
m,p-Xylene	1,300	800		ppbv	400	11/18/2011 2:31 AM
Methylene chloride	16,000	2,000		ppbv	400	11/18/2011 2:31 AM
n-Hexane	2,100	800		ppbv	400	11/18/2011 2:31 AM
Naphthalene	ND	400	U	ppbv	400	11/18/2011 2:31 AM
o-Xylene	450	400		ppbv	400	11/18/2011 2:31 AM
Propylene	ND	400	U	ppbv	400	11/18/2011 2:31 AM
Styrene	ND	400	U	ppbv	400	11/18/2011 2:31 AM
tert-Butyl Methyl Ether	ND	400	U	ppbv	400	11/18/2011 2:31 AM
Tetrachloroethene	ND	400	U	ppbv	400	11/18/2011 2:31 AM
Tetrahydrofuran	ND	400	U	ppbv	400	11/18/2011 2:31 AM
Toluene	5,600	400		ppbv	400	11/18/2011 2:31 AM
trans-1,2-Dichloroethene	ND	400	U	ppbv	400	11/18/2011 2:31 AM
trans-1,3-dichloropropene	ND	400	U	ppbv	400	11/18/2011 2:31 AM
Trichloroethene	ND	400	U	ppbv	400	11/18/2011 2:31 AM
Trichlorofluoromethane	ND	400	U	ppbv	400	11/18/2011 2:31 AM
Vinyl acetate	ND	400	U	ppbv	400	11/18/2011 2:31 AM
Vinyl chloride	ND	400	U	ppbv	400	11/18/2011 2:31 AM
Xylenes, Total	1,700	1,200		ppbv	400	11/18/2011 2:31 AM
Surr: 4-Bromofluorobenzene	106	70-130		%REC	400	11/18/2011 2:31 AM
Mass APH Air	**Method:**					**Analyst: RH3**
Air-Phase Petroleum Hydrocarbons						
C5-C8 Aliphatic Hydrocarbons	150,000	47,000		µg/m³	400	11/16/2011 8:23 AM
C9-C10 Aromatic Hydrocarbons	ND	53,000	U	µg/m³	400	11/16/2011 8:23 AM
C9-C12 Aliphatic Hydrocarbons	21,000	76,000	J	µg/m³	400	11/16/2011 8:23 AM
Surr: 4-Bromofluorobenzene	101	70-130		%REC	400	11/16/2011 8:23 AM

RTI Laboratories - Analytical Report

WO#: 1111437

Date Reported: 12/21/2011
Revision v1

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	11/1/2011 10:10:00 AM
Project:	Kirtland AFB		
Lab ID:	1111437-019	**Matrix:**	Air
Client Sample ID:	VA0754		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Noncondensable Gases and Light Hydrocarbons	**Method: ASTM-D2504**					**Analyst: MB**
Carbon dioxide	0.32	0.10		%	1	11/23/2011 4:49 PM
Carbon Monoxide	ND	0.10	U	%	1	11/23/2011 4:49 PM
Methane	ND	0.50	U	%	1	11/23/2011 4:49 PM
Nitrogen	79	0.10		%	1	11/23/2011 4:49 PM
Oxygen	21	0.10		%	1	11/23/2011 4:49 PM
Volatile Organic Compounds	**Method: TO-15**					**Analyst: RH3**
1,1,1-Trichloroethane	ND	400	U	ppbv	400	11/18/2011 3:18 AM
1,1,2,2-Tetrachloroethane	ND	400	U	ppbv	400	11/18/2011 3:18 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	400	U	ppbv	400	11/18/2011 3:18 AM
1,1,2-Trichloroethane	ND	400	U	ppbv	400	11/18/2011 3:18 AM
1,1-Dichloroethane	ND	400	U	ppbv	400	11/18/2011 3:18 AM
1,1-Dichloroethene	ND	400	U	ppbv	400	11/18/2011 3:18 AM
1,2,4-Trichlorobenzene	ND	400	U	ppbv	400	11/18/2011 3:18 AM
1,2,4-Trimethylbenzene	ND	400	U	ppbv	400	11/18/2011 3:18 AM
1,2-Dibromoethane	ND	400	U	ppbv	400	11/18/2011 3:18 AM
1,2-Dichlorobenzene	ND	400	U	ppbv	400	11/18/2011 3:18 AM
1,2-Dichloroethane	ND	400	U	ppbv	400	11/18/2011 3:18 AM
1,2-Dichloropropane	ND	400	U	ppbv	400	11/18/2011 3:18 AM
1,3,5-Trimethylbenzene	ND	400	U	ppbv	400	11/18/2011 3:18 AM
1,3-Butadiene	ND	400	U	ppbv	400	11/18/2011 3:18 AM
1,3-Dichlorobenzene	ND	400	U	ppbv	400	11/18/2011 3:18 AM
1,4-Dichlorobenzene	ND	400	U	ppbv	400	11/18/2011 3:18 AM
2-Butanone	ND	400	U	ppbv	400	11/18/2011 3:18 AM
2-Hexanone	ND	400	U	ppbv	400	11/18/2011 3:18 AM
4-Methyl-2-pentanone	ND	400	U	ppbv	400	11/18/2011 3:18 AM
Acetone	760	400		ppbv	400	11/18/2011 3:18 AM
Benzene	5,500	400		ppbv	400	11/18/2011 3:18 AM
Benzyl chloride	ND	400	U	ppbv	400	11/18/2011 3:18 AM
Bromodichloromethane	ND	400	U	ppbv	400	11/18/2011 3:18 AM
Bromoform	ND	400	U	ppbv	400	11/18/2011 3:18 AM
Bromomethane	ND	400	U	ppbv	400	11/18/2011 3:18 AM
Carbon disulfide	ND	400	U	ppbv	400	11/18/2011 3:18 AM
Carbon tetrachloride	ND	400	U	ppbv	400	11/18/2011 3:18 AM
Chlorobenzene	ND	400	U	ppbv	400	11/18/2011 3:18 AM
Chlorodibromomethane	ND	400	U	ppbv	400	11/18/2011 3:18 AM
Chloroethane	ND	400	U	ppbv	400	11/18/2011 3:18 AM
Chloroform	ND	400	U	ppbv	400	11/18/2011 3:18 AM
Chloromethane	ND	400	U	ppbv	400	11/18/2011 3:18 AM
cis-1,2-Dichloroethene	ND	400	U	ppbv	400	11/18/2011 3:18 AM
cis-1,3-dichloropropene	ND	400	U	ppbv	400	11/18/2011 3:18 AM

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	11/1/2011 10:10:00 AM
Project:	Kirtland AFB		
Lab ID:	1111437-019	**Matrix:**	Air
Client Sample ID:	VA0754		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Cyclohexane	13,000	800		ppbv	400	11/18/2011 3:18 AM
Dichlorodifluoromethane	ND	400	U	ppbv	400	11/18/2011 3:18 AM
Ethyl acetate	ND	400	U	ppbv	400	11/18/2011 3:18 AM
Ethylbenzene	550	800	J	ppbv	400	11/18/2011 3:18 AM
Heptane	5,100	400		ppbv	400	11/18/2011 3:18 AM
Hexachlorobutadiene	ND	800	U	ppbv	400	11/18/2011 3:18 AM
m,p-Xylene	1,400	800		ppbv	400	11/18/2011 3:18 AM
Methylene chloride	5,700	2,000		ppbv	400	11/18/2011 3:18 AM
n-Hexane	10,000	800		ppbv	400	11/18/2011 3:18 AM
Naphthalene	ND	400	U	ppbv	400	11/18/2011 3:18 AM
o-Xylene	470	400		ppbv	400	11/18/2011 3:18 AM
Propylene	ND	400	U	ppbv	400	11/18/2011 3:18 AM
Styrene	ND	400	U	ppbv	400	11/18/2011 3:18 AM
tert-Butyl Methyl Ether	ND	400	U	ppbv	400	11/18/2011 3:18 AM
Tetrachloroethene	ND	400	U	ppbv	400	11/18/2011 3:18 AM
Tetrahydrofuran	ND	400	U	ppbv	400	11/18/2011 3:18 AM
Toluene	7,500	400		ppbv	400	11/18/2011 3:18 AM
trans-1,2-Dichloroethene	ND	400	U	ppbv	400	11/18/2011 3:18 AM
trans-1,3-dichloropropene	ND	400	U	ppbv	400	11/18/2011 3:18 AM
Trichloroethene	ND	400	U	ppbv	400	11/18/2011 3:18 AM
Trichlorofluoromethane	ND	400	U	ppbv	400	11/18/2011 3:18 AM
Vinyl acetate	ND	400	U	ppbv	400	11/18/2011 3:18 AM
Vinyl chloride	ND	400	U	ppbv	400	11/18/2011 3:18 AM
Xylenes, Total	1,900	1,200		ppbv	400	11/18/2011 3:18 AM
Surr: 4-Bromofluorobenzene	108	70-130		%REC	400	11/18/2011 3:18 AM
Mass APH Air	**Method:**					**Analyst: RH3**
Air-Phase Petroleum Hydrocarbons						
C5-C8 Aliphatic Hydrocarbons	540,000	47,000		µg/m³	400	11/16/2011 6:31 PM
C9-C10 Aromatic Hydrocarbons	ND	53,000	U	µg/m³	400	11/16/2011 6:31 PM
C9-C12 Aliphatic Hydrocarbons	22,000	76,000	J	µg/m³	400	11/16/2011 6:31 PM
Surr: 4-Bromofluorobenzene	98.8	70-130		%REC	400	11/16/2011 6:31 PM

RTI Laboratories - Analytical Report

WO#: 1111437

Date Reported: 12/21/2011
Revision v1

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	11/1/2011 10:38:00 AM
Project:	Kirtland AFB		
Lab ID:	1111437-020	**Matrix:**	Air
Client Sample ID:	VA0755		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Noncondensable Gases and Light Hydrocarbons	**Method: ASTM-D2504**					**Analyst: MB**
Carbon dioxide	0.50	0.10		%	1	11/23/2011 5:46 PM
Carbon Monoxide	ND	0.10	U	%	1	11/23/2011 5:46 PM
Methane	ND	0.50	U	%	1	11/23/2011 5:46 PM
Nitrogen	79	0.10		%	1	11/23/2011 5:46 PM
Oxygen	20	0.10		%	1	11/23/2011 5:46 PM

RTI Laboratories - Analytical Report

WO#: 1111437

Date Reported: 12/21/2011
Revision v1

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	10/25/2011 12:37:00 PM
Project:	Kirtland AFB		
Lab ID:	1111437-021	**Matrix:**	Air
Client Sample ID:	VA0774		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Noncondensable Gases and Light Hydrocarbons	**Method: ASTM-D2504**					**Analyst: MB**
Carbon dioxide	0.32	0.10		%	1	11/21/2011 1:05 PM
Carbon Monoxide	ND	0.10	U	%	1	11/21/2011 1:05 PM
Methane	ND	0.50	U	%	1	11/21/2011 1:05 PM
Nitrogen	79	0.10		%	1	11/21/2011 1:05 PM
Oxygen	21	0.10		%	1	11/21/2011 1:05 PM
Volatile Organic Compounds	**Method: TO-15**					**Analyst: RH3**
1,1,1-Trichloroethane	ND	800	U	ppbv	800	11/16/2011 2:29 PM
1,1,2,2-Tetrachloroethane	ND	800	U	ppbv	800	11/16/2011 2:29 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	800	U	ppbv	800	11/16/2011 2:29 PM
1,1,2-Trichloroethane	ND	800	U	ppbv	800	11/16/2011 2:29 PM
1,1-Dichloroethane	ND	800	U	ppbv	800	11/16/2011 2:29 PM
1,1-Dichloroethene	ND	800	U	ppbv	800	11/16/2011 2:29 PM
1,2,4-Trichlorobenzene	ND	800	U	ppbv	800	11/16/2011 2:29 PM
1,2,4-Trimethylbenzene	ND	800	U	ppbv	800	11/16/2011 2:29 PM
1,2-Dibromoethane	ND	800	U	ppbv	800	11/16/2011 2:29 PM
1,2-Dichlorobenzene	ND	800	U	ppbv	800	11/16/2011 2:29 PM
1,2-Dichloroethane	ND	800	U	ppbv	800	11/16/2011 2:29 PM
1,2-Dichloropropane	ND	800	U	ppbv	800	11/16/2011 2:29 PM
1,3,5-Trimethylbenzene	ND	800	U	ppbv	800	11/16/2011 2:29 PM
1,3-Butadiene	ND	800	U	ppbv	800	11/16/2011 2:29 PM
1,3-Dichlorobenzene	ND	800	U	ppbv	800	11/16/2011 2:29 PM
1,4-Dichlorobenzene	ND	800	U	ppbv	800	11/16/2011 2:29 PM
2-Butanone	ND	800	U	ppbv	800	11/16/2011 2:29 PM
2-Hexanone	ND	800	U	ppbv	800	11/16/2011 2:29 PM
4-Methyl-2-pentanone	ND	800	U	ppbv	800	11/16/2011 2:29 PM
Acetone	ND	800	U	ppbv	800	11/16/2011 2:29 PM
Benzene	61,000	8,000		ppbv	8000	11/18/2011 1:53 PM
Benzyl chloride	ND	800	U	ppbv	800	11/16/2011 2:29 PM
Bromodichloromethane	ND	800	U	ppbv	800	11/16/2011 2:29 PM
Bromoform	ND	800	U	ppbv	800	11/16/2011 2:29 PM
Bromomethane	ND	800	U	ppbv	800	11/16/2011 2:29 PM
Carbon disulfide	ND	800	U	ppbv	800	11/16/2011 2:29 PM
Carbon tetrachloride	ND	800	U	ppbv	800	11/16/2011 2:29 PM
Chlorobenzene	ND	800	U	ppbv	800	11/16/2011 2:29 PM
Chlorodibromomethane	ND	800	U	ppbv	800	11/16/2011 2:29 PM
Chloroethane	ND	800	U	ppbv	800	11/16/2011 2:29 PM
Chloroform	ND	800	U	ppbv	800	11/16/2011 2:29 PM
Chloromethane	ND	800	U	ppbv	800	11/16/2011 2:29 PM
cis-1,2-Dichloroethene	ND	800	U	ppbv	800	11/16/2011 2:29 PM
cis-1,3-dichloropropene	ND	800	U	ppbv	800	11/16/2011 2:29 PM

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	10/25/2011 12:37:00 PM
Project:	Kirtland AFB		
Lab ID:	1111437-021	**Matrix:**	Air
Client Sample ID:	VA0774		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Cyclohexane	11,000	1,600		ppbv	800	11/16/2011 2:29 PM
Dichlorodifluoromethane	ND	800	U	ppbv	800	11/16/2011 2:29 PM
Ethyl acetate	ND	800	U	ppbv	800	11/16/2011 2:29 PM
Ethylbenzene	1,200	1,600	J	ppbv	800	11/16/2011 2:29 PM
Heptane	2,900	800		ppbv	800	11/16/2011 2:29 PM
Hexachlorobutadiene	ND	1,600	U	ppbv	800	11/16/2011 2:29 PM
m,p-Xylene	3,600	1,600		ppbv	800	11/16/2011 2:29 PM
Methylene chloride	ND	4,000	U	ppbv	800	11/16/2011 2:29 PM
n-Hexane	9,900	1,600		ppbv	800	11/16/2011 2:29 PM
Naphthalene	ND	800	U	ppbv	800	11/16/2011 2:29 PM
o-Xylene	1,700	800		ppbv	800	11/16/2011 2:29 PM
Propylene	1,300	800		ppbv	800	11/16/2011 2:29 PM
Styrene	ND	800	U	ppbv	800	11/16/2011 2:29 PM
tert-Butyl Methyl Ether	ND	800	U	ppbv	800	11/16/2011 2:29 PM
Tetrachloroethene	ND	800	U	ppbv	800	11/16/2011 2:29 PM
Tetrahydrofuran	ND	800	U	ppbv	800	11/16/2011 2:29 PM
Toluene	78,000	8,000		ppbv	8000	11/18/2011 1:53 PM
trans-1,2-Dichloroethene	ND	800	U	ppbv	800	11/16/2011 2:29 PM
trans-1,3-dichloropropene	ND	800	U	ppbv	800	11/16/2011 2:29 PM
Trichloroethene	ND	800	U	ppbv	800	11/16/2011 2:29 PM
Trichlorofluoromethane	ND	800	U	ppbv	800	11/16/2011 2:29 PM
Vinyl acetate	ND	800	U	ppbv	800	11/16/2011 2:29 PM
Vinyl chloride	ND	800	U	ppbv	800	11/16/2011 2:29 PM
Xylenes, Total	5,300	2,400		ppbv	800	11/16/2011 2:29 PM
Surr: 4-Bromofluorobenzene	110	70-130		%REC	800	11/16/2011 2:29 PM
Mass APH Air	**Method:**					**Analyst: RH3**
Air-Phase Petroleum Hydrocarbons						
C5-C8 Aliphatic Hydrocarbons	990,000	94,000		µg/m³	800	11/15/2011 3:42 AM
C9-C10 Aromatic Hydrocarbons	ND	110,000	U	µg/m³	800	11/15/2011 3:42 AM
C9-C12 Aliphatic Hydrocarbons	29,000	150,000	J	µg/m³	800	11/15/2011 3:42 AM
Surr: 4-Bromofluorobenzene	98.0	70-130		%REC	800	11/15/2011 3:42 AM

RTI Laboratories - Analytical Report

WO#: 1111437

Date Reported: 12/21/2011
Revision v1

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	10/25/2011 1:26:00 PM
Project:	Kirtland AFB		
Lab ID:	1111437-022	**Matrix:**	Air
Client Sample ID:	VA0775		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Noncondensable Gases and Light Hydrocarbons	**Method: ASTM-D2504**					**Analyst: MB**
Carbon dioxide	0.21	0.10		%	1	11/21/2011 1:29 PM
Carbon Monoxide	ND	0.10	U	%	1	11/21/2011 1:29 PM
Methane	ND	0.50	U	%	1	11/21/2011 1:29 PM
Nitrogen	79	0.10		%	1	11/21/2011 1:29 PM
Oxygen	21	0.10		%	1	11/21/2011 1:29 PM
Volatile Organic Compounds	**Method: TO-15**					**Analyst: RH3**
1,1,1-Trichloroethane	ND	800	U	ppbv	800	11/15/2011 3:46 PM
1,1,2,2-Tetrachloroethane	ND	800	U	ppbv	800	11/15/2011 3:46 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	800	U	ppbv	800	11/15/2011 3:46 PM
1,1,2-Trichloroethane	ND	800	U	ppbv	800	11/15/2011 3:46 PM
1,1-Dichloroethane	ND	800	U	ppbv	800	11/15/2011 3:46 PM
1,1-Dichloroethene	ND	800	U	ppbv	800	11/15/2011 3:46 PM
1,2,4-Trichlorobenzene	ND	800	U	ppbv	800	11/15/2011 3:46 PM
1,2,4-Trimethylbenzene	ND	800	U	ppbv	800	11/15/2011 3:46 PM
1,2-Dibromoethane	ND	800	U	ppbv	800	11/15/2011 3:46 PM
1,2-Dichlorobenzene	ND	800	U	ppbv	800	11/15/2011 3:46 PM
1,2-Dichloroethane	ND	800	U	ppbv	800	11/15/2011 3:46 PM
1,2-Dichloropropane	ND	800	U	ppbv	800	11/15/2011 3:46 PM
1,3,5-Trimethylbenzene	ND	800	U	ppbv	800	11/15/2011 3:46 PM
1,3-Butadiene	ND	800	U	ppbv	800	11/15/2011 3:46 PM
1,3-Dichlorobenzene	ND	800	U	ppbv	800	11/15/2011 3:46 PM
1,4-Dichlorobenzene	ND	800	U	ppbv	800	11/15/2011 3:46 PM
2-Butanone	ND	800	U	ppbv	800	11/15/2011 3:46 PM
2-Hexanone	ND	800	U	ppbv	800	11/15/2011 3:46 PM
4-Methyl-2-pentanone	ND	800	U	ppbv	800	11/15/2011 3:46 PM
Acetone	ND	800	U	ppbv	800	11/15/2011 3:46 PM
Benzene	15,000	800		ppbv	800	11/15/2011 3:46 PM
Benzyl chloride	ND	800	U	ppbv	800	11/15/2011 3:46 PM
Bromodichloromethane	ND	800	U	ppbv	800	11/15/2011 3:46 PM
Bromoform	ND	800	U	ppbv	800	11/15/2011 3:46 PM
Bromomethane	ND	800	U	ppbv	800	11/15/2011 3:46 PM
Carbon disulfide	ND	800	U	ppbv	800	11/15/2011 3:46 PM
Carbon tetrachloride	ND	800	U	ppbv	800	11/15/2011 3:46 PM
Chlorobenzene	ND	800	U	ppbv	800	11/15/2011 3:46 PM
Chlorodibromomethane	ND	800	U	ppbv	800	11/15/2011 3:46 PM
Chloroethane	ND	800	U	ppbv	800	11/15/2011 3:46 PM
Chloroform	ND	800	U	ppbv	800	11/15/2011 3:46 PM
Chloromethane	ND	800	U	ppbv	800	11/15/2011 3:46 PM
cis-1,2-Dichloroethene	ND	800	U	ppbv	800	11/15/2011 3:46 PM
cis-1,3-dichloropropene	ND	800	U	ppbv	800	11/15/2011 3:46 PM

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	10/25/2011 1:26:00 PM
Project:	Kirtland AFB		
Lab ID:	1111437-022	**Matrix:**	Air
Client Sample ID:	VA0775		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Cyclohexane	18,000	1,600		ppbv	800	11/15/2011 3:46 PM
Dichlorodifluoromethane	ND	800	U	ppbv	800	11/15/2011 3:46 PM
Ethyl acetate	ND	800	U	ppbv	800	11/15/2011 3:46 PM
Ethylbenzene	ND	1,600	U	ppbv	800	11/15/2011 3:46 PM
Heptane	3,500	800		ppbv	800	11/15/2011 3:46 PM
Hexachlorobutadiene	ND	1,600	U	ppbv	800	11/15/2011 3:46 PM
m,p-Xylene	1,600	1,600	J	ppbv	800	11/15/2011 3:46 PM
Methylene chloride	ND	4,000	U	ppbv	800	11/15/2011 3:46 PM
n-Hexane	21,000	1,600		ppbv	800	11/15/2011 3:46 PM
Naphthalene	ND	800	U	ppbv	800	11/15/2011 3:46 PM
o-Xylene	ND	800	U	ppbv	800	11/15/2011 3:46 PM
Propylene	1,500	800		ppbv	800	11/15/2011 3:46 PM
Styrene	ND	800	U	ppbv	800	11/15/2011 3:46 PM
tert-Butyl Methyl Ether	ND	800	U	ppbv	800	11/15/2011 3:46 PM
Tetrachloroethene	ND	800	U	ppbv	800	11/15/2011 3:46 PM
Tetrahydrofuran	ND	800	U	ppbv	800	11/15/2011 3:46 PM
Toluene	27,000	800		ppbv	800	11/15/2011 3:46 PM
trans-1,2-Dichloroethene	ND	800	U	ppbv	800	11/15/2011 3:46 PM
trans-1,3-dichloropropene	ND	800	U	ppbv	800	11/15/2011 3:46 PM
Trichloroethene	ND	800	U	ppbv	800	11/15/2011 3:46 PM
Trichlorofluoromethane	ND	800	U	ppbv	800	11/15/2011 3:46 PM
Vinyl acetate	ND	800	U	ppbv	800	11/15/2011 3:46 PM
Vinyl chloride	ND	800	U	ppbv	800	11/15/2011 3:46 PM
Xylenes, Total	1,600	2,400	J	ppbv	800	11/15/2011 3:46 PM
Surr: 4-Bromofluorobenzene	110	70-130		%REC	800	11/15/2011 3:46 PM
Mass APH Air	**Method:**					**Analyst: RH3**
Air-Phase Petroleum Hydrocarbons						
C5-C8 Aliphatic Hydrocarbons	2,700,000	940,000		µg/m³	8000	11/14/2011 8:26 PM
C9-C10 Aromatic Hydrocarbons	ND	1,100,000	U	µg/m³	8000	11/14/2011 8:26 PM
C9-C12 Aliphatic Hydrocarbons	ND	1,500,000	U	µg/m³	8000	11/14/2011 8:26 PM
Surr: 4-Bromofluorobenzene	96.7	70-130		%REC	8000	11/14/2011 8:26 PM

RTI Laboratories - Analytical Report

WO#: 1111437

Date Reported: 12/21/2011
Revision v1

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	10/25/2011 2:16:00 PM
Project:	Kirtland AFB		
Lab ID:	1111437-023	**Matrix:**	Air
Client Sample ID:	VA0776		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Noncondensable Gases and Light Hydrocarbons	**Method: ASTM-D2504**					**Analyst: MB**
Carbon dioxide	0.32	0.10		%	1	11/21/2011 1:59 PM
Carbon Monoxide	ND	0.10	U	%	1	11/21/2011 1:59 PM
Methane	ND	0.50	U	%	1	11/21/2011 1:59 PM
Nitrogen	80	0.10		%	1	11/21/2011 1:59 PM
Oxygen	20	0.10		%	1	11/21/2011 1:59 PM
Volatile Organic Compounds	**Method: TO-15**					**Analyst: RH3**
1,1,1-Trichloroethane	ND	800	U	ppbv	800	11/15/2011 4:31 PM
1,1,2,2-Tetrachloroethane	ND	800	U	ppbv	800	11/15/2011 4:31 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	800	U	ppbv	800	11/15/2011 4:31 PM
1,1,2-Trichloroethane	ND	800	U	ppbv	800	11/15/2011 4:31 PM
1,1-Dichloroethane	ND	800	U	ppbv	800	11/15/2011 4:31 PM
1,1-Dichloroethene	ND	800	U	ppbv	800	11/15/2011 4:31 PM
1,2,4-Trichlorobenzene	ND	800	U	ppbv	800	11/15/2011 4:31 PM
1,2,4-Trimethylbenzene	ND	800	U	ppbv	800	11/15/2011 4:31 PM
1,2-Dibromoethane	ND	800	U	ppbv	800	11/15/2011 4:31 PM
1,2-Dichlorobenzene	ND	800	U	ppbv	800	11/15/2011 4:31 PM
1,2-Dichloroethane	ND	800	U	ppbv	800	11/15/2011 4:31 PM
1,2-Dichloropropane	ND	800	U	ppbv	800	11/15/2011 4:31 PM
1,3,5-Trimethylbenzene	ND	800	U	ppbv	800	11/15/2011 4:31 PM
1,3-Butadiene	ND	800	U	ppbv	800	11/15/2011 4:31 PM
1,3-Dichlorobenzene	ND	800	U	ppbv	800	11/15/2011 4:31 PM
1,4-Dichlorobenzene	ND	800	U	ppbv	800	11/15/2011 4:31 PM
2-Butanone	ND	800	U	ppbv	800	11/15/2011 4:31 PM
2-Hexanone	ND	800	U	ppbv	800	11/15/2011 4:31 PM
4-Methyl-2-pentanone	ND	800	U	ppbv	800	11/15/2011 4:31 PM
Acetone	940	800		ppbv	800	11/15/2011 4:31 PM
Benzene	8,700	800		ppbv	800	11/15/2011 4:31 PM
Benzyl chloride	ND	800	U	ppbv	800	11/15/2011 4:31 PM
Bromodichloromethane	ND	800	U	ppbv	800	11/15/2011 4:31 PM
Bromoform	ND	800	U	ppbv	800	11/15/2011 4:31 PM
Bromomethane	ND	800	U	ppbv	800	11/15/2011 4:31 PM
Carbon disulfide	ND	800	U	ppbv	800	11/15/2011 4:31 PM
Carbon tetrachloride	ND	800	U	ppbv	800	11/15/2011 4:31 PM
Chlorobenzene	ND	800	U	ppbv	800	11/15/2011 4:31 PM
Chlorodibromomethane	ND	800	U	ppbv	800	11/15/2011 4:31 PM
Chloroethane	ND	800	U	ppbv	800	11/15/2011 4:31 PM
Chloroform	ND	800	U	ppbv	800	11/15/2011 4:31 PM
Chloromethane	ND	800	U	ppbv	800	11/15/2011 4:31 PM
cis-1,2-Dichloroethene	ND	800	U	ppbv	800	11/15/2011 4:31 PM
cis-1,3-dichloropropene	ND	800	U	ppbv	800	11/15/2011 4:31 PM

RTI Laboratories - Analytical Report

WO#: 1111437

Date Reported: 12/21/2011
Revision v1

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	10/25/2011 2:16:00 PM
Project:	Kirtland AFB		
Lab ID:	1111437-023	**Matrix:**	Air
Client Sample ID:	VA0776		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Cyclohexane	21,000	1,600		ppbv	800	11/15/2011 4:31 PM
Dichlorodifluoromethane	ND	800	U	ppbv	800	11/15/2011 4:31 PM
Ethyl acetate	ND	800	U	ppbv	800	11/15/2011 4:31 PM
Ethylbenzene	ND	1,600	U	ppbv	800	11/15/2011 4:31 PM
Heptane	3,500	800		ppbv	800	11/15/2011 4:31 PM
Hexachlorobutadiene	ND	1,600	U	ppbv	800	11/15/2011 4:31 PM
m,p-Xylene	1,600	1,600		ppbv	800	11/15/2011 4:31 PM
Methylene chloride	ND	4,000	U	ppbv	800	11/15/2011 4:31 PM
n-Hexane	13,000	1,600		ppbv	800	11/15/2011 4:31 PM
Naphthalene	ND	800	U	ppbv	800	11/15/2011 4:31 PM
o-Xylene	ND	800	U	ppbv	800	11/15/2011 4:31 PM
Propylene	840	800		ppbv	800	11/15/2011 4:31 PM
Styrene	ND	800	U	ppbv	800	11/15/2011 4:31 PM
tert-Butyl Methyl Ether	ND	800	U	ppbv	800	11/15/2011 4:31 PM
Tetrachloroethene	ND	800	U	ppbv	800	11/15/2011 4:31 PM
Tetrahydrofuran	ND	800	U	ppbv	800	11/15/2011 4:31 PM
Toluene	22,000	800		ppbv	800	11/15/2011 4:31 PM
trans-1,2-Dichloroethene	ND	800	U	ppbv	800	11/15/2011 4:31 PM
trans-1,3-dichloropropene	ND	800	U	ppbv	800	11/15/2011 4:31 PM
Trichloroethene	ND	800	U	ppbv	800	11/15/2011 4:31 PM
Trichlorofluoromethane	ND	800	U	ppbv	800	11/15/2011 4:31 PM
Vinyl acetate	ND	800	U	ppbv	800	11/15/2011 4:31 PM
Vinyl chloride	ND	800	U	ppbv	800	11/15/2011 4:31 PM
Xylenes, Total	1,600	2,400	J	ppbv	800	11/15/2011 4:31 PM
Surr: 4-Bromofluorobenzene	110	70-130		%REC	800	11/15/2011 4:31 PM
Mass APH Air	**Method:**					**Analyst: RH3**
Air-Phase Petroleum Hydrocarbons						
C5-C8 Aliphatic Hydrocarbons	2,900,000	940,000		µg/m³	8000	11/14/2011 9:51 PM
C9-C10 Aromatic Hydrocarbons	ND	1,100,000	U	µg/m³	8000	11/14/2011 9:51 PM
C9-C12 Aliphatic Hydrocarbons	ND	1,500,000	U	µg/m³	8000	11/14/2011 9:51 PM
Surr: 4-Bromofluorobenzene	96.6	70-130		%REC	8000	11/14/2011 9:51 PM

RTI Laboratories - Analytical Report

WO#: 1111437

Date Reported: 12/21/2011
Revision v1

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	10/26/2011 9:07:00 AM
Project:	Kirtland AFB		
Lab ID:	1111437-024	**Matrix:**	Air
Client Sample ID:	VA0803		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Noncondensable Gases and Light Hydrocarbons	**Method: ASTM-D2504**					**Analyst: MB**
Carbon dioxide	0.37	0.10		%	1	11/21/2011 2:19 PM
Carbon Monoxide	ND	0.10	U	%	1	11/21/2011 2:19 PM
Methane	ND	0.50	U	%	1	11/21/2011 2:19 PM
Nitrogen	78	0.10		%	1	11/21/2011 2:19 PM
Oxygen	21	0.10		%	1	11/21/2011 2:19 PM
Volatile Organic Compounds	**Method: TO-15**					**Analyst: RH3**
1,1,1-Trichloroethane	ND	40	U	ppbv	40	11/16/2011 3:10 PM
1,1,2,2-Tetrachloroethane	ND	40	U	ppbv	40	11/16/2011 3:10 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	40	U	ppbv	40	11/16/2011 3:10 PM
1,1,2-Trichloroethane	ND	40	U	ppbv	40	11/16/2011 3:10 PM
1,1-Dichloroethane	ND	40	U	ppbv	40	11/16/2011 3:10 PM
1,1-Dichloroethene	ND	40	U	ppbv	40	11/16/2011 3:10 PM
1,2,4-Trichlorobenzene	ND	40	U	ppbv	40	11/16/2011 3:10 PM
1,2,4-Trimethylbenzene	44	40		ppbv	40	11/16/2011 3:10 PM
1,2-Dibromoethane	ND	40	U	ppbv	40	11/16/2011 3:10 PM
1,2-Dichlorobenzene	ND	40	U	ppbv	40	11/16/2011 3:10 PM
1,2-Dichloroethane	ND	40	U	ppbv	40	11/16/2011 3:10 PM
1,2-Dichloropropane	ND	40	U	ppbv	40	11/16/2011 3:10 PM
1,3,5-Trimethylbenzene	ND	40	U	ppbv	40	11/16/2011 3:10 PM
1,3-Butadiene	ND	40	U	ppbv	40	11/16/2011 3:10 PM
1,3-Dichlorobenzene	ND	40	U	ppbv	40	11/16/2011 3:10 PM
1,4-Dichlorobenzene	ND	40	U	ppbv	40	11/16/2011 3:10 PM
2-Butanone	ND	40	U	ppbv	40	11/16/2011 3:10 PM
2-Hexanone	ND	40	U	ppbv	40	11/16/2011 3:10 PM
4-Methyl-2-pentanone	ND	40	U	ppbv	40	11/16/2011 3:10 PM
Acetone	ND	40	U	ppbv	40	11/16/2011 3:10 PM
Benzene	210	40		ppbv	40	11/16/2011 3:10 PM
Benzyl chloride	ND	40	U	ppbv	40	11/16/2011 3:10 PM
Bromodichloromethane	ND	40	U	ppbv	40	11/16/2011 3:10 PM
Bromoform	ND	40	U	ppbv	40	11/16/2011 3:10 PM
Bromomethane	ND	40	U	ppbv	40	11/16/2011 3:10 PM
Carbon disulfide	ND	40	U	ppbv	40	11/16/2011 3:10 PM
Carbon tetrachloride	ND	40	U	ppbv	40	11/16/2011 3:10 PM
Chlorobenzene	ND	40	U	ppbv	40	11/16/2011 3:10 PM
Chlorodibromomethane	ND	40	U	ppbv	40	11/16/2011 3:10 PM
Chloroethane	ND	40	U	ppbv	40	11/16/2011 3:10 PM
Chloroform	ND	40	U	ppbv	40	11/16/2011 3:10 PM
Chloromethane	ND	40	U	ppbv	40	11/16/2011 3:10 PM
cis-1,2-Dichloroethene	ND	40	U	ppbv	40	11/16/2011 3:10 PM
cis-1,3-dichloropropene	ND	40	U	ppbv	40	11/16/2011 3:10 PM

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	10/26/2011 9:07:00 AM
Project:	Kirtland AFB		
Lab ID:	1111437-024	**Matrix:**	Air
Client Sample ID:	VA0803		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Cyclohexane	370	80		ppbv	40	11/16/2011 3:10 PM
Dichlorodifluoromethane	ND	40	U	ppbv	40	11/16/2011 3:10 PM
Ethyl acetate	ND	40	U	ppbv	40	11/16/2011 3:10 PM
Ethylbenzene	62	80	J	ppbv	40	11/16/2011 3:10 PM
Heptane	270	40		ppbv	40	11/16/2011 3:10 PM
Hexachlorobutadiene	ND	80	U	ppbv	40	11/16/2011 3:10 PM
m,p-Xylene	210	80		ppbv	40	11/16/2011 3:10 PM
Methylene chloride	ND	200	U	ppbv	40	11/16/2011 3:10 PM
n-Hexane	140	80		ppbv	40	11/16/2011 3:10 PM
Naphthalene	ND	40	U	ppbv	40	11/16/2011 3:10 PM
o-Xylene	73	40		ppbv	40	11/16/2011 3:10 PM
Propylene	ND	40	U	ppbv	40	11/16/2011 3:10 PM
Styrene	ND	40	U	ppbv	40	11/16/2011 3:10 PM
tert-Butyl Methyl Ether	ND	40	U	ppbv	40	11/16/2011 3:10 PM
Tetrachloroethene	ND	40	U	ppbv	40	11/16/2011 3:10 PM
Tetrahydrofuran	ND	40	U	ppbv	40	11/16/2011 3:10 PM
Toluene	1,000	40		ppbv	40	11/16/2011 3:10 PM
trans-1,2-Dichloroethene	ND	40	U	ppbv	40	11/16/2011 3:10 PM
trans-1,3-dichloropropene	ND	40	U	ppbv	40	11/16/2011 3:10 PM
Trichloroethene	ND	40	U	ppbv	40	11/16/2011 3:10 PM
Trichlorofluoromethane	ND	40	U	ppbv	40	11/16/2011 3:10 PM
Vinyl acetate	ND	40	U	ppbv	40	11/16/2011 3:10 PM
Vinyl chloride	ND	40	U	ppbv	40	11/16/2011 3:10 PM
Xylenes, Total	290	120		ppbv	40	11/16/2011 3:10 PM
Surr: 4-Bromofluorobenzene	103	70-130		%REC	40	11/16/2011 3:10 PM
Mass APH Air	**Method:**					**Analyst: RH3**
Air-Phase Petroleum Hydrocarbons						
C5-C8 Aliphatic Hydrocarbons	20,000	4,700		µg/m³	40	11/15/2011 1:34 PM
C9-C10 Aromatic Hydrocarbons	ND	5,300	U	µg/m³	40	11/15/2011 1:34 PM
C9-C12 Aliphatic Hydrocarbons	4,000	7,600	J	µg/m³	40	11/15/2011 1:34 PM
Surr: 4-Bromofluorobenzene	98.7	70-130		%REC	40	11/15/2011 1:34 PM

RTI Laboratories - Analytical Report

WO#: 1111437

Date Reported: 12/21/2011
Revision v1

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	10/26/2011 9:40:00 AM
Project:	Kirtland AFB		
Lab ID:	1111437-025	**Matrix:**	Air
Client Sample ID:	VA0804		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Noncondensable Gases and Light Hydrocarbons	**Method: ASTM-D2504**					**Analyst: MB**
Carbon dioxide	0.31	0.10		%	1	11/21/2011 2:47 PM
Carbon Monoxide	ND	0.10	U	%	1	11/21/2011 2:47 PM
Methane	ND	0.50	U	%	1	11/21/2011 2:47 PM
Nitrogen	80	0.10		%	1	11/21/2011 2:47 PM
Oxygen	20	0.10		%	1	11/21/2011 2:47 PM
Volatile Organic Compounds	**Method: TO-15**					**Analyst: RH3**
1,1,1-Trichloroethane	ND	400	U	ppbv	400	11/16/2011 3:58 PM
1,1,2,2-Tetrachloroethane	ND	400	U	ppbv	400	11/16/2011 3:58 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	400	U	ppbv	400	11/16/2011 3:58 PM
1,1,2-Trichloroethane	ND	400	U	ppbv	400	11/16/2011 3:58 PM
1,1-Dichloroethane	ND	400	U	ppbv	400	11/16/2011 3:58 PM
1,1-Dichloroethene	ND	400	U	ppbv	400	11/16/2011 3:58 PM
1,2,4-Trichlorobenzene	ND	400	U	ppbv	400	11/16/2011 3:58 PM
1,2,4-Trimethylbenzene	ND	400	U	ppbv	400	11/16/2011 3:58 PM
1,2-Dibromoethane	ND	400	U	ppbv	400	11/16/2011 3:58 PM
1,2-Dichlorobenzene	ND	400	U	ppbv	400	11/16/2011 3:58 PM
1,2-Dichloroethane	ND	400	U	ppbv	400	11/16/2011 3:58 PM
1,2-Dichloropropane	ND	400	U	ppbv	400	11/16/2011 3:58 PM
1,3,5-Trimethylbenzene	ND	400	U	ppbv	400	11/16/2011 3:58 PM
1,3-Butadiene	ND	400	U	ppbv	400	11/16/2011 3:58 PM
1,3-Dichlorobenzene	ND	400	U	ppbv	400	11/16/2011 3:58 PM
1,4-Dichlorobenzene	ND	400	U	ppbv	400	11/16/2011 3:58 PM
2-Butanone	ND	400	U	ppbv	400	11/16/2011 3:58 PM
2-Hexanone	ND	400	U	ppbv	400	11/16/2011 3:58 PM
4-Methyl-2-pentanone	ND	400	U	ppbv	400	11/16/2011 3:58 PM
Acetone	ND	400	U	ppbv	400	11/16/2011 3:58 PM
Benzene	560	400		ppbv	400	11/16/2011 3:58 PM
Benzyl chloride	ND	400	U	ppbv	400	11/16/2011 3:58 PM
Bromodichloromethane	ND	400	U	ppbv	400	11/16/2011 3:58 PM
Bromoform	ND	400	U	ppbv	400	11/16/2011 3:58 PM
Bromomethane	ND	400	U	ppbv	400	11/16/2011 3:58 PM
Carbon disulfide	ND	400	U	ppbv	400	11/16/2011 3:58 PM
Carbon tetrachloride	ND	400	U	ppbv	400	11/16/2011 3:58 PM
Chlorobenzene	ND	400	U	ppbv	400	11/16/2011 3:58 PM
Chlorodibromomethane	ND	400	U	ppbv	400	11/16/2011 3:58 PM
Chloroethane	ND	400	U	ppbv	400	11/16/2011 3:58 PM
Chloroform	ND	400	U	ppbv	400	11/16/2011 3:58 PM
Chloromethane	ND	400	U	ppbv	400	11/16/2011 3:58 PM
cis-1,2-Dichloroethene	ND	400	U	ppbv	400	11/16/2011 3:58 PM
cis-1,3-dichloropropene	ND	400	U	ppbv	400	11/16/2011 3:58 PM

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	10/26/2011 9:40:00 AM
Project:	Kirtland AFB		
Lab ID:	1111437-025	**Matrix:**	Air
Client Sample ID:	VA0804		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Cyclohexane	1,500	800		ppbv	400	11/16/2011 3:58 PM
Dichlorodifluoromethane	ND	400	U	ppbv	400	11/16/2011 3:58 PM
Ethyl acetate	ND	400	U	ppbv	400	11/16/2011 3:58 PM
Ethylbenzene	ND	800	U	ppbv	400	11/16/2011 3:58 PM
Heptane	830	400		ppbv	400	11/16/2011 3:58 PM
Hexachlorobutadiene	ND	800	U	ppbv	400	11/16/2011 3:58 PM
m,p-Xylene	450	800	J	ppbv	400	11/16/2011 3:58 PM
Methylene chloride	1,200	2,000	J	ppbv	400	11/16/2011 3:58 PM
n-Hexane	750	800	J	ppbv	400	11/16/2011 3:58 PM
Naphthalene	ND	400	U	ppbv	400	11/16/2011 3:58 PM
o-Xylene	ND	400	U	ppbv	400	11/16/2011 3:58 PM
Propylene	ND	400	U	ppbv	400	11/16/2011 3:58 PM
Styrene	ND	400	U	ppbv	400	11/16/2011 3:58 PM
tert-Butyl Methyl Ether	ND	400	U	ppbv	400	11/16/2011 3:58 PM
Tetrachloroethene	ND	400	U	ppbv	400	11/16/2011 3:58 PM
Tetrahydrofuran	ND	400	U	ppbv	400	11/16/2011 3:58 PM
Toluene	2,200	400		ppbv	400	11/16/2011 3:58 PM
trans-1,2-Dichloroethene	ND	400	U	ppbv	400	11/16/2011 3:58 PM
trans-1,3-dichloropropene	ND	400	U	ppbv	400	11/16/2011 3:58 PM
Trichloroethene	ND	400	U	ppbv	400	11/16/2011 3:58 PM
Trichlorofluoromethane	ND	400	U	ppbv	400	11/16/2011 3:58 PM
Vinyl acetate	ND	400	U	ppbv	400	11/16/2011 3:58 PM
Vinyl chloride	ND	400	U	ppbv	400	11/16/2011 3:58 PM
Xylenes, Total	450	1,200	J	ppbv	400	11/16/2011 3:58 PM
Surr: 4-Bromofluorobenzene	108	70-130		%REC	400	11/16/2011 3:58 PM
Mass APH Air	**Method:**					**Analyst: RH3**
Air-Phase Petroleum Hydrocarbons						
C5-C8 Aliphatic Hydrocarbons	140,000	47,000		µg/m³	400	11/15/2011 6:27 AM
C9-C10 Aromatic Hydrocarbons	ND	53,000	U	µg/m³	400	11/15/2011 6:27 AM
C9-C12 Aliphatic Hydrocarbons	28,000	76,000	J	µg/m³	400	11/15/2011 6:27 AM
Surr: 4-Bromofluorobenzene	101	70-130		%REC	400	11/15/2011 6:27 AM

RTI Laboratories - Analytical Report

WO#: 1111437

Date Reported: 12/21/2011
Revision v1

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	10/26/2011 9:40:00 AM
Project:	Kirtland AFB		
Lab ID:	1111437-026	**Matrix:**	Air
Client Sample ID:	VA0805		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Noncondensable Gases and Light Hydrocarbons	**Method: ASTM-D2504**					**Analyst: MB**
Carbon dioxide	0.35	0.10		%	1	11/21/2011 3:55 PM
Carbon Monoxide	ND	0.10	U	%	1	11/21/2011 3:55 PM
Methane	ND	0.50	U	%	1	11/21/2011 3:55 PM
Nitrogen	80	0.10		%	1	11/21/2011 3:55 PM
Oxygen	20	0.10		%	1	11/21/2011 3:55 PM
Volatile Organic Compounds	**Method: TO-15**					**Analyst: RH3**
1,1,1-Trichloroethane	ND	400	U	ppbv	400	11/16/2011 4:47 PM
1,1,2,2-Tetrachloroethane	ND	400	U	ppbv	400	11/16/2011 4:47 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	400	U	ppbv	400	11/16/2011 4:47 PM
1,1,2-Trichloroethane	ND	400	U	ppbv	400	11/16/2011 4:47 PM
1,1-Dichloroethane	ND	400	U	ppbv	400	11/16/2011 4:47 PM
1,1-Dichloroethene	ND	400	U	ppbv	400	11/16/2011 4:47 PM
1,2,4-Trichlorobenzene	ND	400	U	ppbv	400	11/16/2011 4:47 PM
1,2,4-Trimethylbenzene	ND	400	U	ppbv	400	11/16/2011 4:47 PM
1,2-Dibromoethane	ND	400	U	ppbv	400	11/16/2011 4:47 PM
1,2-Dichlorobenzene	ND	400	U	ppbv	400	11/16/2011 4:47 PM
1,2-Dichloroethane	ND	400	U	ppbv	400	11/16/2011 4:47 PM
1,2-Dichloropropane	ND	400	U	ppbv	400	11/16/2011 4:47 PM
1,3,5-Trimethylbenzene	ND	400	U	ppbv	400	11/16/2011 4:47 PM
1,3-Butadiene	ND	400	U	ppbv	400	11/16/2011 4:47 PM
1,3-Dichlorobenzene	ND	400	U	ppbv	400	11/16/2011 4:47 PM
1,4-Dichlorobenzene	ND	400	U	ppbv	400	11/16/2011 4:47 PM
2-Butanone	ND	400	U	ppbv	400	11/16/2011 4:47 PM
2-Hexanone	ND	400	U	ppbv	400	11/16/2011 4:47 PM
4-Methyl-2-pentanone	ND	400	U	ppbv	400	11/16/2011 4:47 PM
Acetone	ND	400	U	ppbv	400	11/16/2011 4:47 PM
Benzene	1,500	400		ppbv	400	11/16/2011 4:47 PM
Benzyl chloride	ND	400	U	ppbv	400	11/16/2011 4:47 PM
Bromodichloromethane	ND	400	U	ppbv	400	11/16/2011 4:47 PM
Bromoform	ND	400	U	ppbv	400	11/16/2011 4:47 PM
Bromomethane	ND	400	U	ppbv	400	11/16/2011 4:47 PM
Carbon disulfide	ND	400	U	ppbv	400	11/16/2011 4:47 PM
Carbon tetrachloride	ND	400	U	ppbv	400	11/16/2011 4:47 PM
Chlorobenzene	ND	400	U	ppbv	400	11/16/2011 4:47 PM
Chlorodibromomethane	ND	400	U	ppbv	400	11/16/2011 4:47 PM
Chloroethane	ND	400	U	ppbv	400	11/16/2011 4:47 PM
Chloroform	ND	400	U	ppbv	400	11/16/2011 4:47 PM
Chloromethane	ND	400	U	ppbv	400	11/16/2011 4:47 PM
cis-1,2-Dichloroethene	ND	400	U	ppbv	400	11/16/2011 4:47 PM
cis-1,3-dichloropropene	ND	400	U	ppbv	400	11/16/2011 4:47 PM

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	10/26/2011 9:40:00 AM
Project:	Kirtland AFB		
Lab ID:	1111437-026	**Matrix:**	Air
Client Sample ID:	VA0805		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Cyclohexane	4,400	800		ppbv	400	11/16/2011 4:47 PM
Dichlorodifluoromethane	ND	400	U	ppbv	400	11/16/2011 4:47 PM
Ethyl acetate	ND	400	U	ppbv	400	11/16/2011 4:47 PM
Ethylbenzene	ND	800	U	ppbv	400	11/16/2011 4:47 PM
Heptane	2,200	400		ppbv	400	11/16/2011 4:47 PM
Hexachlorobutadiene	ND	800	U	ppbv	400	11/16/2011 4:47 PM
m,p-Xylene	940	800		ppbv	400	11/16/2011 4:47 PM
Methylene chloride	ND	2,000	U	ppbv	400	11/16/2011 4:47 PM
n-Hexane	1,400	800		ppbv	400	11/16/2011 4:47 PM
Naphthalene	ND	400	U	ppbv	400	11/16/2011 4:47 PM
o-Xylene	ND	400	U	ppbv	400	11/16/2011 4:47 PM
Propylene	ND	400	U	ppbv	400	11/16/2011 4:47 PM
Styrene	ND	400	U	ppbv	400	11/16/2011 4:47 PM
tert-Butyl Methyl Ether	ND	400	U	ppbv	400	11/16/2011 4:47 PM
Tetrachloroethene	ND	400	U	ppbv	400	11/16/2011 4:47 PM
Tetrahydrofuran	ND	400	U	ppbv	400	11/16/2011 4:47 PM
Toluene	5,400	400		ppbv	400	11/16/2011 4:47 PM
trans-1,2-Dichloroethene	ND	400	U	ppbv	400	11/16/2011 4:47 PM
trans-1,3-dichloropropene	ND	400	U	ppbv	400	11/16/2011 4:47 PM
Trichloroethene	ND	400	U	ppbv	400	11/16/2011 4:47 PM
Trichlorofluoromethane	ND	400	U	ppbv	400	11/16/2011 4:47 PM
Vinyl acetate	ND	400	U	ppbv	400	11/16/2011 4:47 PM
Vinyl chloride	ND	400	U	ppbv	400	11/16/2011 4:47 PM
Xylenes, Total	940	1,200	J	ppbv	400	11/16/2011 4:47 PM
Surr: 4-Bromofluorobenzene	105	70-130		%REC	400	11/16/2011 4:47 PM
Mass APH Air	**Method:**					**Analyst: RH3**
Air-Phase Petroleum Hydrocarbons						
C5-C8 Aliphatic Hydrocarbons	290,000	47,000		µg/m³	400	11/15/2011 7:16 AM
C9-C10 Aromatic Hydrocarbons	ND	53,000	U	µg/m³	400	11/15/2011 7:16 AM
C9-C12 Aliphatic Hydrocarbons	59,000	76,000	J	µg/m³	400	11/15/2011 7:16 AM
Surr: 4-Bromofluorobenzene	103	70-130		%REC	400	11/15/2011 7:16 AM

RTI Laboratories - Analytical Report

WO#: 1111437

Date Reported: 12/21/2011
Revision v1

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	10/26/2011 10:30:00 AM
Project:	Kirtland AFB		
Lab ID:	1111437-027	**Matrix:**	Air
Client Sample ID:	VA0806		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Noncondensable Gases and Light Hydrocarbons	**Method: ASTM-D2504**					**Analyst: MB**
Carbon dioxide	0.29	0.10		%	1	11/21/2011 4:16 PM
Carbon Monoxide	ND	0.10	U	%	1	11/21/2011 4:16 PM
Methane	ND	0.50	U	%	1	11/21/2011 4:16 PM
Nitrogen	80	0.10		%	1	11/21/2011 4:16 PM
Oxygen	20	0.10		%	1	11/21/2011 4:16 PM
Volatile Organic Compounds	**Method: TO-15**					**Analyst: RH3**
1,1,1-Trichloroethane	ND	400	U	ppbv	400	11/16/2011 5:38 PM
1,1,2,2-Tetrachloroethane	ND	400	U	ppbv	400	11/16/2011 5:38 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	400	U	ppbv	400	11/16/2011 5:38 PM
1,1,2-Trichloroethane	ND	400	U	ppbv	400	11/16/2011 5:38 PM
1,1-Dichloroethane	ND	400	U	ppbv	400	11/16/2011 5:38 PM
1,1-Dichloroethene	ND	400	U	ppbv	400	11/16/2011 5:38 PM
1,2,4-Trichlorobenzene	ND	400	U	ppbv	400	11/16/2011 5:38 PM
1,2,4-Trimethylbenzene	ND	400	U	ppbv	400	11/16/2011 5:38 PM
1,2-Dibromoethane	ND	400	U	ppbv	400	11/16/2011 5:38 PM
1,2-Dichlorobenzene	ND	400	U	ppbv	400	11/16/2011 5:38 PM
1,2-Dichloroethane	ND	400	U	ppbv	400	11/16/2011 5:38 PM
1,2-Dichloropropane	ND	400	U	ppbv	400	11/16/2011 5:38 PM
1,3,5-Trimethylbenzene	ND	400	U	ppbv	400	11/16/2011 5:38 PM
1,3-Butadiene	ND	400	U	ppbv	400	11/16/2011 5:38 PM
1,3-Dichlorobenzene	ND	400	U	ppbv	400	11/16/2011 5:38 PM
1,4-Dichlorobenzene	ND	400	U	ppbv	400	11/16/2011 5:38 PM
2-Butanone	ND	400	U	ppbv	400	11/16/2011 5:38 PM
2-Hexanone	ND	400	U	ppbv	400	11/16/2011 5:38 PM
4-Methyl-2-pentanone	ND	400	U	ppbv	400	11/16/2011 5:38 PM
Acetone	5,100	400		ppbv	400	11/16/2011 5:38 PM
Benzene	ND	400	U	ppbv	400	11/16/2011 5:38 PM
Benzyl chloride	ND	400	U	ppbv	400	11/16/2011 5:38 PM
Bromodichloromethane	ND	400	U	ppbv	400	11/16/2011 5:38 PM
Bromoform	ND	400	U	ppbv	400	11/16/2011 5:38 PM
Bromomethane	ND	400	U	ppbv	400	11/16/2011 5:38 PM
Carbon disulfide	ND	400	U	ppbv	400	11/16/2011 5:38 PM
Carbon tetrachloride	ND	400	U	ppbv	400	11/16/2011 5:38 PM
Chlorobenzene	ND	400	U	ppbv	400	11/16/2011 5:38 PM
Chlorodibromomethane	ND	400	U	ppbv	400	11/16/2011 5:38 PM
Chloroethane	ND	400	U	ppbv	400	11/16/2011 5:38 PM
Chloroform	ND	400	U	ppbv	400	11/16/2011 5:38 PM
Chloromethane	ND	400	U	ppbv	400	11/16/2011 5:38 PM
cis-1,2-Dichloroethene	ND	400	U	ppbv	400	11/16/2011 5:38 PM
cis-1,3-dichloropropene	ND	400	U	ppbv	400	11/16/2011 5:38 PM

RTI Laboratories - Analytical Report

WO#: 1111437

Date Reported: 12/21/2011
Revision v1

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	10/26/2011 10:30:00 AM
Project:	Kirtland AFB		
Lab ID:	1111437-027	**Matrix:**	Air
Client Sample ID:	VA0806		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Cyclohexane	ND	800	U	ppbv	400	11/16/2011 5:38 PM
Dichlorodifluoromethane	ND	400	U	ppbv	400	11/16/2011 5:38 PM
Ethyl acetate	ND	400	U	ppbv	400	11/16/2011 5:38 PM
Ethylbenzene	ND	800	U	ppbv	400	11/16/2011 5:38 PM
Heptane	ND	400	U	ppbv	400	11/16/2011 5:38 PM
Hexachlorobutadiene	ND	800	U	ppbv	400	11/16/2011 5:38 PM
m,p-Xylene	ND	800	U	ppbv	400	11/16/2011 5:38 PM
Methylene chloride	1,900	2,000	J	ppbv	400	11/18/2011 10:27 AM
n-Hexane	18,000	800		ppbv	400	11/16/2011 5:38 PM
Naphthalene	ND	400	U	ppbv	400	11/16/2011 5:38 PM
o-Xylene	ND	400	U	ppbv	400	11/16/2011 5:38 PM
Propylene	ND	400	U	ppbv	400	11/16/2011 5:38 PM
Styrene	ND	400	U	ppbv	400	11/16/2011 5:38 PM
tert-Butyl Methyl Ether	ND	400	U	ppbv	400	11/16/2011 5:38 PM
Tetrachloroethene	ND	400	U	ppbv	400	11/16/2011 5:38 PM
Tetrahydrofuran	ND	400	U	ppbv	400	11/16/2011 5:38 PM
Toluene	ND	400	U	ppbv	400	11/16/2011 5:38 PM
trans-1,2-Dichloroethene	ND	400	U	ppbv	400	11/16/2011 5:38 PM
trans-1,3-dichloropropene	ND	400	U	ppbv	400	11/16/2011 5:38 PM
Trichloroethene	ND	400	U	ppbv	400	11/16/2011 5:38 PM
Trichlorofluoromethane	ND	400	U	ppbv	400	11/16/2011 5:38 PM
Vinyl acetate	ND	400	U	ppbv	400	11/16/2011 5:38 PM
Vinyl chloride	ND	400	U	ppbv	400	11/16/2011 5:38 PM
Xylenes, Total	ND	1,200	U	ppbv	400	11/16/2011 5:38 PM
Surr: 4-Bromofluorobenzene	106	70-130		%REC	400	11/16/2011 5:38 PM
Mass APH Air	**Method:**					**Analyst: RH3**
Air-Phase Petroleum Hydrocarbons						
C5-C8 Aliphatic Hydrocarbons	130,000	47,000		µg/m³	400	11/15/2011 8:06 AM
C9-C10 Aromatic Hydrocarbons	ND	53,000	U	µg/m³	400	11/15/2011 8:06 AM
C9-C12 Aliphatic Hydrocarbons	13,000	76,000	J	µg/m³	400	11/15/2011 8:06 AM
Surr: 4-Bromofluorobenzene	99.6	70-130		%REC	400	11/15/2011 8:06 AM

RTI Laboratories - Analytical Report

WO#: 1111437

Date Reported: 12/21/2011
Revision v1

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	10/26/2011 11:10:00 AM
Project:	Kirtland AFB		
Lab ID:	1111437-028	**Matrix:**	Air
Client Sample ID:	VA0807		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Noncondensable Gases and Light Hydrocarbons	**Method: ASTM-D2504**					**Analyst: MB**
Carbon dioxide	1.0	0.10		%	1	11/21/2011 4:35 PM
Carbon Monoxide	ND	0.10	U	%	1	11/21/2011 4:35 PM
Methane	ND	0.50	U	%	1	11/21/2011 4:35 PM
Nitrogen	81	0.10		%	1	11/21/2011 4:35 PM
Oxygen	17	0.10		%	1	11/21/2011 4:35 PM
Volatile Organic Compounds	**Method: TO-15**					**Analyst: RH3**
1,1,1-Trichloroethane	ND	40	U	ppbv	40	11/16/2011 6:19 PM
1,1,2,2-Tetrachloroethane	ND	40	U	ppbv	40	11/16/2011 6:19 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	40	U	ppbv	40	11/16/2011 6:19 PM
1,1,2-Trichloroethane	ND	40	U	ppbv	40	11/16/2011 6:19 PM
1,1-Dichloroethane	ND	40	U	ppbv	40	11/16/2011 6:19 PM
1,1-Dichloroethene	ND	40	U	ppbv	40	11/16/2011 6:19 PM
1,2,4-Trichlorobenzene	ND	40	U	ppbv	40	11/16/2011 6:19 PM
1,2,4-Trimethylbenzene	97	40		ppbv	40	11/16/2011 6:19 PM
1,2-Dibromoethane	ND	40	U	ppbv	40	11/16/2011 6:19 PM
1,2-Dichlorobenzene	ND	40	U	ppbv	40	11/16/2011 6:19 PM
1,2-Dichloroethane	ND	40	U	ppbv	40	11/16/2011 6:19 PM
1,2-Dichloropropane	ND	40	U	ppbv	40	11/16/2011 6:19 PM
1,3,5-Trimethylbenzene	46	40		ppbv	40	11/16/2011 6:19 PM
1,3-Butadiene	ND	40	U	ppbv	40	11/16/2011 6:19 PM
1,3-Dichlorobenzene	ND	40	U	ppbv	40	11/16/2011 6:19 PM
1,4-Dichlorobenzene	ND	40	U	ppbv	40	11/16/2011 6:19 PM
2-Butanone	ND	40	U	ppbv	40	11/16/2011 6:19 PM
2-Hexanone	ND	40	U	ppbv	40	11/16/2011 6:19 PM
4-Methyl-2-pentanone	ND	40	U	ppbv	40	11/16/2011 6:19 PM
Acetone	ND	40	U	ppbv	40	11/16/2011 6:19 PM
Benzene	500	40		ppbv	40	11/16/2011 6:19 PM
Benzyl chloride	ND	40	U	ppbv	40	11/16/2011 6:19 PM
Bromodichloromethane	ND	40	U	ppbv	40	11/16/2011 6:19 PM
Bromoform	ND	40	U	ppbv	40	11/16/2011 6:19 PM
Bromomethane	ND	40	U	ppbv	40	11/16/2011 6:19 PM
Carbon disulfide	ND	40	U	ppbv	40	11/16/2011 6:19 PM
Carbon tetrachloride	ND	40	U	ppbv	40	11/16/2011 6:19 PM
Chlorobenzene	ND	40	U	ppbv	40	11/16/2011 6:19 PM
Chlorodibromomethane	ND	40	U	ppbv	40	11/16/2011 6:19 PM
Chloroethane	ND	40	U	ppbv	40	11/16/2011 6:19 PM
Chloroform	ND	40	U	ppbv	40	11/16/2011 6:19 PM
Chloromethane	ND	40	U	ppbv	40	11/16/2011 6:19 PM
cis-1,2-Dichloroethene	ND	40	U	ppbv	40	11/16/2011 6:19 PM
cis-1,3-dichloropropene	ND	40	U	ppbv	40	11/16/2011 6:19 PM

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	10/26/2011 11:10:00 AM
Project:	Kirtland AFB		
Lab ID:	1111437-028	**Matrix:**	Air
Client Sample ID:	VA0807		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Cyclohexane	1,000	80		ppbv	40	11/16/2011 6:19 PM
Dichlorodifluoromethane	ND	40	U	ppbv	40	11/16/2011 6:19 PM
Ethyl acetate	ND	40	U	ppbv	40	11/16/2011 6:19 PM
Ethylbenzene	170	80		ppbv	40	11/16/2011 6:19 PM
Heptane	740	40		ppbv	40	11/16/2011 6:19 PM
Hexachlorobutadiene	ND	80	U	ppbv	40	11/16/2011 6:19 PM
m,p-Xylene	580	80		ppbv	40	11/16/2011 6:19 PM
Methylene chloride	ND	200	U	ppbv	40	11/16/2011 6:19 PM
n-Hexane	290	80		ppbv	40	11/16/2011 6:19 PM
Naphthalene	ND	40	U	ppbv	40	11/16/2011 6:19 PM
o-Xylene	200	40		ppbv	40	11/16/2011 6:19 PM
Propylene	ND	40	U	ppbv	40	11/16/2011 6:19 PM
Styrene	ND	40	U	ppbv	40	11/16/2011 6:19 PM
tert-Butyl Methyl Ether	ND	40	U	ppbv	40	11/16/2011 6:19 PM
Tetrachloroethene	ND	40	U	ppbv	40	11/16/2011 6:19 PM
Tetrahydrofuran	ND	40	U	ppbv	40	11/16/2011 6:19 PM
Toluene	2,200	400		ppbv	400	11/18/2011 12:20 AM
trans-1,2-Dichloroethene	ND	40	U	ppbv	40	11/16/2011 6:19 PM
trans-1,3-dichloropropene	ND	40	U	ppbv	40	11/16/2011 6:19 PM
Trichloroethene	ND	40	U	ppbv	40	11/16/2011 6:19 PM
Trichlorofluoromethane	ND	40	U	ppbv	40	11/16/2011 6:19 PM
Vinyl acetate	ND	40	U	ppbv	40	11/16/2011 6:19 PM
Vinyl chloride	ND	40	U	ppbv	40	11/16/2011 6:19 PM
Xylenes, Total	790	120		ppbv	40	11/16/2011 6:19 PM
Surr: 4-Bromofluorobenzene	98.2	70-130		%REC	40	11/16/2011 6:19 PM
Mass APH Air	**Method:**					**Analyst: RH3**
Air-Phase Petroleum Hydrocarbons						
C5-C8 Aliphatic Hydrocarbons	47,000	4,700		µg/m³	40	11/15/2011 2:17 PM
C9-C10 Aromatic Hydrocarbons	ND	5,300	U	µg/m³	40	11/15/2011 2:17 PM
C9-C12 Aliphatic Hydrocarbons	9,600	7,600		µg/m³	40	11/15/2011 2:17 PM
Surr: 4-Bromofluorobenzene	101	70-130		%REC	40	11/15/2011 2:17 PM

RTI Laboratories - Analytical Report

WO#: 1111437

Date Reported: 12/21/2011
Revision v1

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	10/26/2011 12:01:00 PM
Project:	Kirtland AFB		
Lab ID:	1111437-029	**Matrix:**	Air
Client Sample ID:	VA0808		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Noncondensable Gases and Light Hydrocarbons	**Method: ASTM-D2504**					**Analyst: MB**
Carbon dioxide	0.38	0.10		%	1	11/21/2011 5:10 PM
Carbon Monoxide	ND	0.10	U	%	1	11/21/2011 5:10 PM
Methane	ND	0.50	U	%	1	11/21/2011 5:10 PM
Nitrogen	81	0.10		%	1	11/21/2011 5:10 PM
Oxygen	19	0.10		%	1	11/21/2011 5:10 PM
Volatile Organic Compounds	**Method: TO-15**					**Analyst: RH3**
1,1,1-Trichloroethane	ND	8,000	U	ppbv	8000	11/15/2011 3:40 AM
1,1,2,2-Tetrachloroethane	ND	8,000	U	ppbv	8000	11/15/2011 3:40 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	8,000	U	ppbv	8000	11/15/2011 3:40 AM
1,1,2-Trichloroethane	ND	8,000	U	ppbv	8000	11/15/2011 3:40 AM
1,1-Dichloroethane	ND	8,000	U	ppbv	8000	11/15/2011 3:40 AM
1,1-Dichloroethene	ND	8,000	U	ppbv	8000	11/15/2011 3:40 AM
1,2,4-Trichlorobenzene	ND	8,000	U	ppbv	8000	11/15/2011 3:40 AM
1,2,4-Trimethylbenzene	ND	8,000	U	ppbv	8000	11/15/2011 3:40 AM
1,2-Dibromoethane	ND	8,000	U	ppbv	8000	11/15/2011 3:40 AM
1,2-Dichlorobenzene	ND	8,000	U	ppbv	8000	11/15/2011 3:40 AM
1,2-Dichloroethane	ND	8,000	U	ppbv	8000	11/15/2011 3:40 AM
1,2-Dichloropropane	ND	8,000	U	ppbv	8000	11/15/2011 3:40 AM
1,3,5-Trimethylbenzene	ND	8,000	U	ppbv	8000	11/15/2011 3:40 AM
1,3-Butadiene	ND	8,000	U	ppbv	8000	11/15/2011 3:40 AM
1,3-Dichlorobenzene	ND	8,000	U	ppbv	8000	11/15/2011 3:40 AM
1,4-Dichlorobenzene	ND	8,000	U	ppbv	8000	11/15/2011 3:40 AM
2-Butanone	ND	8,000	U	ppbv	8000	11/15/2011 3:40 AM
2-Hexanone	ND	8,000	U	ppbv	8000	11/15/2011 3:40 AM
4-Methyl-2-pentanone	ND	8,000	U	ppbv	8000	11/15/2011 3:40 AM
Acetone	ND	8,000	U	ppbv	8000	11/15/2011 3:40 AM
Benzene	26,000	8,000		ppbv	8000	11/15/2011 3:40 AM
Benzyl chloride	ND	8,000	U	ppbv	8000	11/15/2011 3:40 AM
Bromodichloromethane	ND	8,000	U	ppbv	8000	11/15/2011 3:40 AM
Bromoform	ND	8,000	U	ppbv	8000	11/15/2011 3:40 AM
Bromomethane	ND	8,000	U	ppbv	8000	11/15/2011 3:40 AM
Carbon disulfide	ND	8,000	U	ppbv	8000	11/15/2011 3:40 AM
Carbon tetrachloride	ND	8,000	U	ppbv	8000	11/15/2011 3:40 AM
Chlorobenzene	ND	8,000	U	ppbv	8000	11/15/2011 3:40 AM
Chlorodibromomethane	ND	8,000	U	ppbv	8000	11/15/2011 3:40 AM
Chloroethane	ND	8,000	U	ppbv	8000	11/15/2011 3:40 AM
Chloroform	ND	8,000	U	ppbv	8000	11/15/2011 3:40 AM
Chloromethane	ND	8,000	U	ppbv	8000	11/15/2011 3:40 AM
cis-1,2-Dichloroethene	ND	8,000	U	ppbv	8000	11/15/2011 3:40 AM
cis-1,3-dichloropropene	ND	8,000	U	ppbv	8000	11/15/2011 3:40 AM

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	10/26/2011 12:01:00 PM
Project:	Kirtland AFB		
Lab ID:	1111437-029	**Matrix:**	Air
Client Sample ID:	VA0808		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Cyclohexane	26,000	16,000		ppbv	8000	11/15/2011 3:40 AM
Dichlorodifluoromethane	ND	8,000	U	ppbv	8000	11/15/2011 3:40 AM
Ethyl acetate	ND	8,000	U	ppbv	8000	11/15/2011 3:40 AM
Ethylbenzene	ND	16,000	U	ppbv	8000	11/15/2011 3:40 AM
Heptane	ND	8,000	U	ppbv	8000	11/15/2011 3:40 AM
Hexachlorobutadiene	ND	16,000	U	ppbv	8000	11/15/2011 3:40 AM
m,p-Xylene	ND	16,000	U	ppbv	8000	11/15/2011 3:40 AM
Methylene chloride	ND	40,000	U	ppbv	8000	11/15/2011 3:40 AM
n-Hexane	23,000	16,000		ppbv	8000	11/15/2011 3:40 AM
Naphthalene	ND	8,000	U	ppbv	8000	11/15/2011 3:40 AM
o-Xylene	ND	8,000	U	ppbv	8000	11/15/2011 3:40 AM
Propylene	ND	8,000	U	ppbv	8000	11/15/2011 3:40 AM
Styrene	ND	8,000	U	ppbv	8000	11/15/2011 3:40 AM
tert-Butyl Methyl Ether	ND	8,000	U	ppbv	8000	11/15/2011 3:40 AM
Tetrachloroethene	ND	8,000	U	ppbv	8000	11/15/2011 3:40 AM
Tetrahydrofuran	ND	8,000	U	ppbv	8000	11/15/2011 3:40 AM
Toluene	22,000	8,000		ppbv	8000	11/15/2011 3:40 AM
trans-1,2-Dichloroethene	ND	8,000	U	ppbv	8000	11/15/2011 3:40 AM
trans-1,3-dichloropropene	ND	8,000	U	ppbv	8000	11/15/2011 3:40 AM
Trichloroethene	ND	8,000	U	ppbv	8000	11/15/2011 3:40 AM
Trichlorofluoromethane	ND	8,000	U	ppbv	8000	11/15/2011 3:40 AM
Vinyl acetate	ND	8,000	U	ppbv	8000	11/15/2011 3:40 AM
Vinyl chloride	ND	8,000	U	ppbv	8000	11/15/2011 3:40 AM
Xylenes, Total	ND	24,000	U	ppbv	8000	11/15/2011 3:40 AM
Surr: 4-Bromofluorobenzene	111	70-130		%REC	8000	11/15/2011 3:40 AM
Mass APH Air	**Method:**					**Analyst: RH3**
Air-Phase Petroleum Hydrocarbons						
C5-C8 Aliphatic Hydrocarbons	3,800,000	940,000		µg/m³	8000	11/15/2011 3:42 PM
C9-C10 Aromatic Hydrocarbons	ND	1,100,000	U	µg/m³	8000	11/15/2011 3:42 PM
C9-C12 Aliphatic Hydrocarbons	ND	1,500,000	U	µg/m³	8000	11/15/2011 3:42 PM
Surr: 4-Bromofluorobenzene	96.4	70-130		%REC	8000	11/15/2011 3:42 PM

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WO#: 1111437

Date Reported: 12/21/2011
Revision v1

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	10/26/2011 12:51:00 PM
Project:	Kirtland AFB		
Lab ID:	1111437-030	**Matrix:**	Air
Client Sample ID:	VA0809		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Noncondensable Gases and Light Hydrocarbons	**Method: ASTM-D2504**					**Analyst: MB**
Carbon dioxide	0.34	0.10		%	1	11/21/2011 5:33 PM
Carbon Monoxide	ND	0.10	U	%	1	11/21/2011 5:33 PM
Methane	ND	0.50	U	%	1	11/21/2011 5:33 PM
Nitrogen	80	0.10		%	1	11/21/2011 5:33 PM
Oxygen	19	0.10		%	1	11/21/2011 5:33 PM
Volatile Organic Compounds	**Method: TO-15**					**Analyst: RH3**
1,1,1-Trichloroethane	ND	8,000	U	ppbv	8000	11/15/2011 4:21 AM
1,1,2,2-Tetrachloroethane	ND	8,000	U	ppbv	8000	11/15/2011 4:21 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	8,000	U	ppbv	8000	11/15/2011 4:21 AM
1,1,2-Trichloroethane	ND	8,000	U	ppbv	8000	11/15/2011 4:21 AM
1,1-Dichloroethane	ND	8,000	U	ppbv	8000	11/15/2011 4:21 AM
1,1-Dichloroethene	ND	8,000	U	ppbv	8000	11/15/2011 4:21 AM
1,2,4-Trichlorobenzene	ND	8,000	U	ppbv	8000	11/15/2011 4:21 AM
1,2,4-Trimethylbenzene	ND	8,000	U	ppbv	8000	11/15/2011 4:21 AM
1,2-Dibromoethane	ND	8,000	U	ppbv	8000	11/15/2011 4:21 AM
1,2-Dichlorobenzene	ND	8,000	U	ppbv	8000	11/15/2011 4:21 AM
1,2-Dichloroethane	ND	8,000	U	ppbv	8000	11/15/2011 4:21 AM
1,2-Dichloropropane	ND	8,000	U	ppbv	8000	11/15/2011 4:21 AM
1,3,5-Trimethylbenzene	ND	8,000	U	ppbv	8000	11/15/2011 4:21 AM
1,3-Butadiene	ND	8,000	U	ppbv	8000	11/15/2011 4:21 AM
1,3-Dichlorobenzene	ND	8,000	U	ppbv	8000	11/15/2011 4:21 AM
1,4-Dichlorobenzene	ND	8,000	U	ppbv	8000	11/15/2011 4:21 AM
2-Butanone	ND	8,000	U	ppbv	8000	11/15/2011 4:21 AM
2-Hexanone	ND	8,000	U	ppbv	8000	11/15/2011 4:21 AM
4-Methyl-2-pentanone	ND	8,000	U	ppbv	8000	11/15/2011 4:21 AM
Acetone	ND	8,000	U	ppbv	8000	11/15/2011 4:21 AM
Benzene	56,000	8,000		ppbv	8000	11/15/2011 4:21 AM
Benzyl chloride	ND	8,000	U	ppbv	8000	11/15/2011 4:21 AM
Bromodichloromethane	ND	8,000	U	ppbv	8000	11/15/2011 4:21 AM
Bromoform	ND	8,000	U	ppbv	8000	11/15/2011 4:21 AM
Bromomethane	ND	8,000	U	ppbv	8000	11/15/2011 4:21 AM
Carbon disulfide	ND	8,000	U	ppbv	8000	11/15/2011 4:21 AM
Carbon tetrachloride	ND	8,000	U	ppbv	8000	11/15/2011 4:21 AM
Chlorobenzene	ND	8,000	U	ppbv	8000	11/15/2011 4:21 AM
Chlorodibromomethane	ND	8,000	U	ppbv	8000	11/15/2011 4:21 AM
Chloroethane	ND	8,000	U	ppbv	8000	11/15/2011 4:21 AM
Chloroform	ND	8,000	U	ppbv	8000	11/15/2011 4:21 AM
Chloromethane	ND	8,000	U	ppbv	8000	11/15/2011 4:21 AM
cis-1,2-Dichloroethene	ND	8,000	U	ppbv	8000	11/15/2011 4:21 AM
cis-1,3-dichloropropene	ND	8,000	U	ppbv	8000	11/15/2011 4:21 AM

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	10/26/2011 12:51:00 PM
Project:	Kirtland AFB		
Lab ID:	1111437-030	**Matrix:**	Air
Client Sample ID:	VA0809		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Cyclohexane	71,000	16,000		ppbv	8000	11/15/2011 4:21 AM
Dichlorodifluoromethane	ND	8,000	U	ppbv	8000	11/15/2011 4:21 AM
Ethyl acetate	ND	8,000	U	ppbv	8000	11/15/2011 4:21 AM
Ethylbenzene	ND	16,000	U	ppbv	8000	11/15/2011 4:21 AM
Heptane	24,000	8,000		ppbv	8000	11/15/2011 4:21 AM
Hexachlorobutadiene	ND	16,000	U	ppbv	8000	11/15/2011 4:21 AM
m,p-Xylene	ND	16,000	U	ppbv	8000	11/15/2011 4:21 AM
Methylene chloride	ND	40,000	U	ppbv	8000	11/15/2011 4:21 AM
n-Hexane	71,000	16,000		ppbv	8000	11/15/2011 4:21 AM
Naphthalene	ND	8,000	U	ppbv	8000	11/15/2011 4:21 AM
o-Xylene	ND	8,000	U	ppbv	8000	11/15/2011 4:21 AM
Propylene	9,200	8,000		ppbv	8000	11/15/2011 4:21 AM
Styrene	ND	8,000	U	ppbv	8000	11/15/2011 4:21 AM
tert-Butyl Methyl Ether	ND	8,000	U	ppbv	8000	11/15/2011 4:21 AM
Tetrachloroethene	ND	8,000	U	ppbv	8000	11/15/2011 4:21 AM
Tetrahydrofuran	ND	8,000	U	ppbv	8000	11/15/2011 4:21 AM
Toluene	92,000	8,000		ppbv	8000	11/15/2011 4:21 AM
trans-1,2-Dichloroethene	ND	8,000	U	ppbv	8000	11/15/2011 4:21 AM
trans-1,3-dichloropropene	ND	8,000	U	ppbv	8000	11/15/2011 4:21 AM
Trichloroethene	ND	8,000	U	ppbv	8000	11/15/2011 4:21 AM
Trichlorofluoromethane	ND	8,000	U	ppbv	8000	11/15/2011 4:21 AM
Vinyl acetate	ND	8,000	U	ppbv	8000	11/15/2011 4:21 AM
Vinyl chloride	ND	8,000	U	ppbv	8000	11/15/2011 4:21 AM
Xylenes, Total	ND	24,000	U	ppbv	8000	11/15/2011 4:21 AM
Surr: 4-Bromofluorobenzene	112	70-130		%REC	8000	11/15/2011 4:21 AM
Mass APH Air	**Method:**					**Analyst: RH3**
Air-Phase Petroleum Hydrocarbons						
C5-C8 Aliphatic Hydrocarbons	8,000,000	940,000		µg/m³	8000	11/15/2011 4:25 PM
C9-C10 Aromatic Hydrocarbons	ND	1,100,000	U	µg/m³	8000	11/15/2011 4:25 PM
C9-C12 Aliphatic Hydrocarbons	ND	1,500,000	U	µg/m³	8000	11/15/2011 4:25 PM
Surr: 4-Bromofluorobenzene	96.6	70-130		%REC	8000	11/15/2011 4:25 PM

RTI Laboratories - Analytical Report

WO#: 1111437

Date Reported: 12/21/2011
Revision v1

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	10/31/2011 9:12:00 AM
Project:	Kirtland AFB		
Lab ID:	1111437-031	**Matrix:**	Air
Client Sample ID:	VA0810		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Noncondensable Gases and Light Hydrocarbons	**Method: ASTM-D2504**					**Analyst: MB**
Carbon dioxide	0.54	0.10		%	1	11/23/2011 8:11 PM
Carbon Monoxide	ND	0.10	U	%	1	11/23/2011 8:11 PM
Methane	ND	0.50	U	%	1	11/23/2011 8:11 PM
Nitrogen	78	0.10		%	1	11/23/2011 8:11 PM
Oxygen	21	0.10		%	1	11/23/2011 8:11 PM
Volatile Organic Compounds	**Method: TO-15**					**Analyst: RH3**
1,1,1-Trichloroethane	ND	40	U	ppbv	40	11/15/2011 9:12 AM
1,1,2,2-Tetrachloroethane	ND	40	U	ppbv	40	11/15/2011 9:12 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	40	U	ppbv	40	11/15/2011 9:12 AM
1,1,2-Trichloroethane	ND	40	U	ppbv	40	11/15/2011 9:12 AM
1,1-Dichloroethane	ND	40	U	ppbv	40	11/15/2011 9:12 AM
1,1-Dichloroethene	ND	40	U	ppbv	40	11/15/2011 9:12 AM
1,2,4-Trichlorobenzene	ND	40	U	ppbv	40	11/15/2011 9:12 AM
1,2,4-Trimethylbenzene	ND	40	U	ppbv	40	11/15/2011 9:12 AM
1,2-Dibromoethane	ND	40	U	ppbv	40	11/15/2011 9:12 AM
1,2-Dichlorobenzene	ND	40	U	ppbv	40	11/15/2011 9:12 AM
1,2-Dichloroethane	ND	40	U	ppbv	40	11/15/2011 9:12 AM
1,2-Dichloropropane	ND	40	U	ppbv	40	11/15/2011 9:12 AM
1,3,5-Trimethylbenzene	ND	40	U	ppbv	40	11/15/2011 9:12 AM
1,3-Butadiene	ND	40	U	ppbv	40	11/15/2011 9:12 AM
1,3-Dichlorobenzene	ND	40	U	ppbv	40	11/15/2011 9:12 AM
1,4-Dichlorobenzene	ND	40	U	ppbv	40	11/15/2011 9:12 AM
2-Butanone	ND	40	U	ppbv	40	11/15/2011 9:12 AM
2-Hexanone	ND	40	U	ppbv	40	11/15/2011 9:12 AM
4-Methyl-2-pentanone	ND	40	U	ppbv	40	11/15/2011 9:12 AM
Acetone	ND	40	U	ppbv	40	11/15/2011 9:12 AM
Benzene	270	40		ppbv	40	11/15/2011 9:12 AM
Benzyl chloride	ND	40	U	ppbv	40	11/15/2011 9:12 AM
Bromodichloromethane	ND	40	U	ppbv	40	11/15/2011 9:12 AM
Bromoform	ND	40	U	ppbv	40	11/15/2011 9:12 AM
Bromomethane	ND	40	U	ppbv	40	11/15/2011 9:12 AM
Carbon disulfide	ND	40	U	ppbv	40	11/15/2011 9:12 AM
Carbon tetrachloride	ND	40	U	ppbv	40	11/15/2011 9:12 AM
Chlorobenzene	ND	40	U	ppbv	40	11/15/2011 9:12 AM
Chlorodibromomethane	ND	40	U	ppbv	40	11/15/2011 9:12 AM
Chloroethane	ND	40	U	ppbv	40	11/15/2011 9:12 AM
Chloroform	ND	40	U	ppbv	40	11/15/2011 9:12 AM
Chloromethane	ND	40	U	ppbv	40	11/15/2011 9:12 AM
cis-1,2-Dichloroethene	ND	40	U	ppbv	40	11/15/2011 9:12 AM
cis-1,3-dichloropropene	ND	40	U	ppbv	40	11/15/2011 9:12 AM

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	10/31/2011 9:12:00 AM
Project:	Kirtland AFB		
Lab ID:	1111437-031	**Matrix:**	Air
Client Sample ID:	VA0810		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Cyclohexane	870	80		ppbv	40	11/15/2011 9:12 AM
Dichlorodifluoromethane	ND	40	U	ppbv	40	11/15/2011 9:12 AM
Ethyl acetate	ND	40	U	ppbv	40	11/15/2011 9:12 AM
Ethylbenzene	46	80	J	ppbv	40	11/15/2011 9:12 AM
Heptane	400	40		ppbv	40	11/15/2011 9:12 AM
Hexachlorobutadiene	ND	80	U	ppbv	40	11/15/2011 9:12 AM
m,p-Xylene	110	80		ppbv	40	11/15/2011 9:12 AM
Methylene chloride	ND	200	U	ppbv	40	11/15/2011 9:12 AM
n-Hexane	240	80		ppbv	40	11/15/2011 9:12 AM
Naphthalene	ND	40	U	ppbv	40	11/15/2011 9:12 AM
o-Xylene	40	40		ppbv	40	11/15/2011 9:12 AM
Propylene	ND	40	U	ppbv	40	11/15/2011 9:12 AM
Styrene	ND	40	U	ppbv	40	11/15/2011 9:12 AM
tert-Butyl Methyl Ether	ND	40	U	ppbv	40	11/15/2011 9:12 AM
Tetrachloroethene	ND	40	U	ppbv	40	11/15/2011 9:12 AM
Tetrahydrofuran	200	40		ppbv	40	11/15/2011 9:12 AM
Toluene	840	40		ppbv	40	11/15/2011 9:12 AM
trans-1,2-Dichloroethene	ND	40	U	ppbv	40	11/15/2011 9:12 AM
trans-1,3-dichloropropene	ND	40	U	ppbv	40	11/15/2011 9:12 AM
Trichloroethene	ND	40	U	ppbv	40	11/15/2011 9:12 AM
Trichlorofluoromethane	ND	40	U	ppbv	40	11/15/2011 9:12 AM
Vinyl acetate	ND	40	U	ppbv	40	11/15/2011 9:12 AM
Vinyl chloride	ND	40	U	ppbv	40	11/15/2011 9:12 AM
Xylenes, Total	150	120		ppbv	40	11/15/2011 9:12 AM
Surr: 4-Bromofluorobenzene	108	70-130		%REC	40	11/15/2011 9:12 AM
Mass APH Air	**Method:**					**Analyst: RH3**
Air-Phase Petroleum Hydrocarbons						
C5-C8 Aliphatic Hydrocarbons	31,000	4,700		µg/m³	40	11/16/2011 1:22 PM
C9-C10 Aromatic Hydrocarbons	ND	5,300	U	µg/m³	40	11/16/2011 1:22 PM
C9-C12 Aliphatic Hydrocarbons	2,100	7,600	J	µg/m³	40	11/16/2011 1:22 PM
Surr: 4-Bromofluorobenzene	96.5	70-130		%REC	40	11/16/2011 1:22 PM

RTI Laboratories - Analytical Report

WO#: 1111437

Date Reported: 12/21/2011
Revision v1

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	10/31/2011 9:45:00 AM
Project:	Kirtland AFB		
Lab ID:	1111437-032	**Matrix:**	Air
Client Sample ID:	VA0811		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Noncondensable Gases and Light Hydrocarbons	**Method: ASTM-D2504**					**Analyst: MB**
Carbon dioxide	0.46	0.10		%	1	11/23/2011 8:29 PM
Carbon Monoxide	ND	0.10	U	%	1	11/23/2011 8:29 PM
Methane	ND	0.50	U	%	1	11/23/2011 8:29 PM
Nitrogen	78	0.10		%	1	11/23/2011 8:29 PM
Oxygen	20	0.10		%	1	11/23/2011 8:29 PM

RTI Laboratories - Analytical Report

WO#: 1111437

Date Reported: 12/21/2011
Revision v1

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	10/31/2011 9:45:00 AM
Project:	Kirtland AFB		
Lab ID:	1111437-033	**Matrix:**	Air
Client Sample ID:	VA0812		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Noncondensable Gases and Light Hydrocarbons	**Method: ASTM-D2504**					**Analyst: MB**
Carbon dioxide	0.45	0.10		%	1	11/23/2011 8:49 PM
Carbon Monoxide	ND	0.10	U	%	1	11/23/2011 8:49 PM
Methane	ND	0.50	U	%	1	11/23/2011 8:49 PM
Nitrogen	78	0.10		%	1	11/23/2011 8:49 PM
Oxygen	20	0.10		%	1	11/23/2011 8:49 PM
Volatile Organic Compounds	**Method: TO-15**					**Analyst: RH3**
1,1,1-Trichloroethane	ND	40	U	ppbv	40	11/15/2011 9:54 AM
1,1,2,2-Tetrachloroethane	ND	40	U	ppbv	40	11/15/2011 9:54 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	40	U	ppbv	40	11/15/2011 9:54 AM
1,1,2-Trichloroethane	ND	40	U	ppbv	40	11/15/2011 9:54 AM
1,1-Dichloroethane	ND	40	U	ppbv	40	11/15/2011 9:54 AM
1,1-Dichloroethene	ND	40	U	ppbv	40	11/15/2011 9:54 AM
1,2,4-Trichlorobenzene	ND	40	U	ppbv	40	11/15/2011 9:54 AM
1,2,4-Trimethylbenzene	ND	40	U	ppbv	40	11/15/2011 9:54 AM
1,2-Dibromoethane	ND	40	U	ppbv	40	11/15/2011 9:54 AM
1,2-Dichlorobenzene	ND	40	U	ppbv	40	11/15/2011 9:54 AM
1,2-Dichloroethane	ND	40	U	ppbv	40	11/15/2011 9:54 AM
1,2-Dichloropropane	ND	40	U	ppbv	40	11/15/2011 9:54 AM
1,3,5-Trimethylbenzene	ND	40	U	ppbv	40	11/15/2011 9:54 AM
1,3-Butadiene	ND	40	U	ppbv	40	11/15/2011 9:54 AM
1,3-Dichlorobenzene	ND	40	U	ppbv	40	11/15/2011 9:54 AM
1,4-Dichlorobenzene	ND	40	U	ppbv	40	11/15/2011 9:54 AM
2-Butanone	ND	40	U	ppbv	40	11/15/2011 9:54 AM
2-Hexanone	ND	40	U	ppbv	40	11/15/2011 9:54 AM
4-Methyl-2-pentanone	ND	40	U	ppbv	40	11/15/2011 9:54 AM
Acetone	ND	40	U	ppbv	40	11/15/2011 9:54 AM
Benzene	110	40		ppbv	40	11/15/2011 9:54 AM
Benzyl chloride	ND	40	U	ppbv	40	11/15/2011 9:54 AM
Bromodichloromethane	ND	40	U	ppbv	40	11/15/2011 9:54 AM
Bromoform	ND	40	U	ppbv	40	11/15/2011 9:54 AM
Bromomethane	ND	40	U	ppbv	40	11/15/2011 9:54 AM
Carbon disulfide	ND	40	U	ppbv	40	11/15/2011 9:54 AM
Carbon tetrachloride	ND	40	U	ppbv	40	11/15/2011 9:54 AM
Chlorobenzene	ND	40	U	ppbv	40	11/15/2011 9:54 AM
Chlorodibromomethane	ND	40	U	ppbv	40	11/15/2011 9:54 AM
Chloroethane	ND	40	U	ppbv	40	11/15/2011 9:54 AM
Chloroform	ND	40	U	ppbv	40	11/15/2011 9:54 AM
Chloromethane	ND	40	U	ppbv	40	11/15/2011 9:54 AM
cis-1,2-Dichloroethene	ND	40	U	ppbv	40	11/15/2011 9:54 AM
cis-1,3-dichloropropene	ND	40	U	ppbv	40	11/15/2011 9:54 AM

RTI Laboratories - Analytical Report

WO#: 1111437

Date Reported: 12/21/2011
Revision v1

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	10/31/2011 9:45:00 AM
Project:	Kirtland AFB		
Lab ID:	1111437-033	**Matrix:**	Air
Client Sample ID:	VA0812		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Cyclohexane	260	80		ppbv	40	11/15/2011 9:54 AM
Dichlorodifluoromethane	ND	40	U	ppbv	40	11/15/2011 9:54 AM
Ethyl acetate	ND	40	U	ppbv	40	11/15/2011 9:54 AM
Ethylbenzene	ND	80	U	ppbv	40	11/15/2011 9:54 AM
Heptane	140	40		ppbv	40	11/15/2011 9:54 AM
Hexachlorobutadiene	ND	80	U	ppbv	40	11/15/2011 9:54 AM
m,p-Xylene	78	80	J	ppbv	40	11/15/2011 9:54 AM
Methylene chloride	ND	200	U	ppbv	40	11/15/2011 9:54 AM
n-Hexane	91	80		ppbv	40	11/15/2011 9:54 AM
Naphthalene	ND	40	U	ppbv	40	11/15/2011 9:54 AM
o-Xylene	ND	40	U	ppbv	40	11/15/2011 9:54 AM
Propylene	ND	40	U	ppbv	40	11/15/2011 9:54 AM
Styrene	ND	40	U	ppbv	40	11/15/2011 9:54 AM
tert-Butyl Methyl Ether	ND	40	U	ppbv	40	11/15/2011 9:54 AM
Tetrachloroethene	ND	40	U	ppbv	40	11/15/2011 9:54 AM
Tetrahydrofuran	ND	40	U	ppbv	40	11/15/2011 9:54 AM
Toluene	390	40		ppbv	40	11/15/2011 9:54 AM
trans-1,2-Dichloroethene	ND	40	U	ppbv	40	11/15/2011 9:54 AM
trans-1,3-dichloropropene	ND	40	U	ppbv	40	11/15/2011 9:54 AM
Trichloroethene	ND	40	U	ppbv	40	11/15/2011 9:54 AM
Trichlorofluoromethane	ND	40	U	ppbv	40	11/15/2011 9:54 AM
Vinyl acetate	ND	40	U	ppbv	40	11/15/2011 9:54 AM
Vinyl chloride	ND	40	U	ppbv	40	11/15/2011 9:54 AM
Xylenes, Total	78	120	J	ppbv	40	11/15/2011 9:54 AM
Surr: 4-Bromofluorobenzene	106	70-130		%REC	40	11/15/2011 9:54 AM
Mass APH Air	**Method:**					**Analyst: RH3**
Air-Phase Petroleum Hydrocarbons						
C5-C8 Aliphatic Hydrocarbons	11,000	4,700		µg/m³	40	11/16/2011 2:05 PM
C9-C10 Aromatic Hydrocarbons	ND	5,300	U	µg/m³	40	11/16/2011 2:05 PM
C9-C12 Aliphatic Hydrocarbons	ND	7,600	U	µg/m³	40	11/16/2011 2:05 PM
Surr: 4-Bromofluorobenzene	97.5	70-130		%REC	40	11/16/2011 2:05 PM

RTI Laboratories - Analytical Report

WO#: 1111437

Date Reported: 12/21/2011
Revision v1

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	10/31/2011 10:35:00 AM
Project:	Kirtland AFB		
Lab ID:	1111437-034	**Matrix:**	Air
Client Sample ID:	VA0813		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Noncondensable Gases and Light Hydrocarbons	**Method: ASTM-D2504**					**Analyst: MB**
Carbon dioxide	0.43	0.10		%	1	11/23/2011 9:09 PM
Carbon Monoxide	ND	0.10	U	%	1	11/23/2011 9:09 PM
Methane	ND	0.50	U	%	1	11/23/2011 9:09 PM
Nitrogen	80	0.10		%	1	11/23/2011 9:09 PM
Oxygen	19	0.10		%	1	11/23/2011 9:09 PM
Volatile Organic Compounds	**Method: TO-15**					**Analyst: RH3**
1,1,1-Trichloroethane	ND	40	U	ppbv	40	11/15/2011 11:23 AM
1,1,2,2-Tetrachloroethane	ND	40	U	ppbv	40	11/15/2011 11:23 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	40	U	ppbv	40	11/15/2011 11:23 AM
1,1,2-Trichloroethane	ND	40	U	ppbv	40	11/15/2011 11:23 AM
1,1-Dichloroethane	ND	40	U	ppbv	40	11/15/2011 11:23 AM
1,1-Dichloroethene	ND	40	U	ppbv	40	11/15/2011 11:23 AM
1,2,4-Trichlorobenzene	ND	40	U	ppbv	40	11/15/2011 11:23 AM
1,2,4-Trimethylbenzene	ND	40	U	ppbv	40	11/15/2011 11:23 AM
1,2-Dibromoethane	ND	40	U	ppbv	40	11/15/2011 11:23 AM
1,2-Dichlorobenzene	ND	40	U	ppbv	40	11/15/2011 11:23 AM
1,2-Dichloroethane	ND	40	U	ppbv	40	11/15/2011 11:23 AM
1,2-Dichloropropane	ND	40	U	ppbv	40	11/15/2011 11:23 AM
1,3,5-Trimethylbenzene	ND	40	U	ppbv	40	11/15/2011 11:23 AM
1,3-Butadiene	ND	40	U	ppbv	40	11/15/2011 11:23 AM
1,3-Dichlorobenzene	ND	40	U	ppbv	40	11/15/2011 11:23 AM
1,4-Dichlorobenzene	ND	40	U	ppbv	40	11/15/2011 11:23 AM
2-Butanone	ND	40	U	ppbv	40	11/15/2011 11:23 AM
2-Hexanone	ND	40	U	ppbv	40	11/15/2011 11:23 AM
4-Methyl-2-pentanone	ND	40	U	ppbv	40	11/15/2011 11:23 AM
Acetone	ND	40	U	ppbv	40	11/15/2011 11:23 AM
Benzene	96	40		ppbv	40	11/15/2011 11:23 AM
Benzyl chloride	ND	40	U	ppbv	40	11/15/2011 11:23 AM
Bromodichloromethane	ND	40	U	ppbv	40	11/15/2011 11:23 AM
Bromoform	ND	40	U	ppbv	40	11/15/2011 11:23 AM
Bromomethane	ND	40	U	ppbv	40	11/15/2011 11:23 AM
Carbon disulfide	ND	40	U	ppbv	40	11/15/2011 11:23 AM
Carbon tetrachloride	ND	40	U	ppbv	40	11/15/2011 11:23 AM
Chlorobenzene	ND	40	U	ppbv	40	11/15/2011 11:23 AM
Chlorodibromomethane	ND	40	U	ppbv	40	11/15/2011 11:23 AM
Chloroethane	ND	40	U	ppbv	40	11/15/2011 11:23 AM
Chloroform	ND	40	U	ppbv	40	11/15/2011 11:23 AM
Chloromethane	ND	40	U	ppbv	40	11/15/2011 11:23 AM
cis-1,2-Dichloroethene	ND	40	U	ppbv	40	11/15/2011 11:23 AM
cis-1,3-dichloropropene	ND	40	U	ppbv	40	11/15/2011 11:23 AM

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	10/31/2011 10:35:00 AM
Project:	Kirtland AFB		
Lab ID:	1111437-034	**Matrix:**	Air
Client Sample ID:	VA0813		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Cyclohexane	250	80		ppbv	40	11/15/2011 11:23 AM
Dichlorodifluoromethane	ND	40	U	ppbv	40	11/15/2011 11:23 AM
Ethyl acetate	ND	40	U	ppbv	40	11/15/2011 11:23 AM
Ethylbenzene	ND	80	U	ppbv	40	11/15/2011 11:23 AM
Heptane	130	40		ppbv	40	11/15/2011 11:23 AM
Hexachlorobutadiene	ND	80	U	ppbv	40	11/15/2011 11:23 AM
m,p-Xylene	53	80	J	ppbv	40	11/15/2011 11:23 AM
Methylene chloride	ND	200	U	ppbv	40	11/15/2011 11:23 AM
n-Hexane	89	80		ppbv	40	11/15/2011 11:23 AM
Naphthalene	ND	40	U	ppbv	40	11/15/2011 11:23 AM
o-Xylene	ND	40	U	ppbv	40	11/15/2011 11:23 AM
Propylene	ND	40	U	ppbv	40	11/15/2011 11:23 AM
Styrene	ND	40	U	ppbv	40	11/15/2011 11:23 AM
tert-Butyl Methyl Ether	ND	40	U	ppbv	40	11/15/2011 11:23 AM
Tetrachloroethene	ND	40	U	ppbv	40	11/15/2011 11:23 AM
Tetrahydrofuran	ND	40	U	ppbv	40	11/15/2011 11:23 AM
Toluene	310	40		ppbv	40	11/15/2011 11:23 AM
trans-1,2-Dichloroethene	ND	40	U	ppbv	40	11/15/2011 11:23 AM
trans-1,3-dichloropropene	ND	40	U	ppbv	40	11/15/2011 11:23 AM
Trichloroethene	ND	40	U	ppbv	40	11/15/2011 11:23 AM
Trichlorofluoromethane	ND	40	U	ppbv	40	11/15/2011 11:23 AM
Vinyl acetate	ND	40	U	ppbv	40	11/15/2011 11:23 AM
Vinyl chloride	ND	40	U	ppbv	40	11/15/2011 11:23 AM
Xylenes, Total	53	120	J	ppbv	40	11/15/2011 11:23 AM
Surr: 4-Bromofluorobenzene	109	70-130		%REC	40	11/15/2011 11:23 AM
Mass APH Air	**Method:**					**Analyst: RH3**
Air-Phase Petroleum Hydrocarbons						
C5-C8 Aliphatic Hydrocarbons	12,000	4,700		µg/m³	40	11/16/2011 2:48 PM
C9-C10 Aromatic Hydrocarbons	ND	5,300	U	µg/m³	40	11/16/2011 2:48 PM
C9-C12 Aliphatic Hydrocarbons	ND	7,600	U	µg/m³	40	11/16/2011 2:48 PM
Surr: 4-Bromofluorobenzene	96.6	70-130		%REC	40	11/16/2011 2:48 PM

RTI Laboratories - Analytical Report

WO#: 1111437

Date Reported: 12/21/2011
Revision v1

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	10/31/2011 11:16:00 AM
Project:	Kirtland AFB		
Lab ID:	1111437-035	**Matrix:**	Air
Client Sample ID:	VA0814		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Noncondensable Gases and Light Hydrocarbons	**Method: ASTM-D2504**					**Analyst: MB**
Carbon dioxide	0.63	0.10		%	1	11/23/2011 9:28 PM
Carbon Monoxide	ND	0.10	U	%	1	11/23/2011 9:28 PM
Methane	ND	0.50	U	%	1	11/23/2011 9:28 PM
Nitrogen	78	0.10		%	1	11/23/2011 9:28 PM
Oxygen	20	0.10		%	1	11/23/2011 9:28 PM
Volatile Organic Compounds	**Method: TO-15**					**Analyst: RH3**
1,1,1-Trichloroethane	ND	40	U	ppbv	40	11/15/2011 1:34 PM
1,1,2,2-Tetrachloroethane	ND	40	U	ppbv	40	11/15/2011 1:34 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	40	U	ppbv	40	11/15/2011 1:34 PM
1,1,2-Trichloroethane	ND	40	U	ppbv	40	11/15/2011 1:34 PM
1,1-Dichloroethane	ND	40	U	ppbv	40	11/15/2011 1:34 PM
1,1-Dichloroethene	ND	40	U	ppbv	40	11/15/2011 1:34 PM
1,2,4-Trichlorobenzene	ND	40	U	ppbv	40	11/15/2011 1:34 PM
1,2,4-Trimethylbenzene	ND	40	U	ppbv	40	11/15/2011 1:34 PM
1,2-Dibromoethane	ND	40	U	ppbv	40	11/15/2011 1:34 PM
1,2-Dichlorobenzene	ND	40	U	ppbv	40	11/15/2011 1:34 PM
1,2-Dichloroethane	ND	40	U	ppbv	40	11/15/2011 1:34 PM
1,2-Dichloropropane	ND	40	U	ppbv	40	11/15/2011 1:34 PM
1,3,5-Trimethylbenzene	ND	40	U	ppbv	40	11/15/2011 1:34 PM
1,3-Butadiene	ND	40	U	ppbv	40	11/15/2011 1:34 PM
1,3-Dichlorobenzene	ND	40	U	ppbv	40	11/15/2011 1:34 PM
1,4-Dichlorobenzene	ND	40	U	ppbv	40	11/15/2011 1:34 PM
2-Butanone	ND	40	U	ppbv	40	11/15/2011 1:34 PM
2-Hexanone	ND	40	U	ppbv	40	11/15/2011 1:34 PM
4-Methyl-2-pentanone	ND	40	U	ppbv	40	11/15/2011 1:34 PM
Acetone	ND	40	U	ppbv	40	11/15/2011 1:34 PM
Benzene	82	40		ppbv	40	11/15/2011 1:34 PM
Benzyl chloride	ND	40	U	ppbv	40	11/15/2011 1:34 PM
Bromodichloromethane	ND	40	U	ppbv	40	11/15/2011 1:34 PM
Bromoform	ND	40	U	ppbv	40	11/15/2011 1:34 PM
Bromomethane	ND	40	U	ppbv	40	11/15/2011 1:34 PM
Carbon disulfide	ND	40	U	ppbv	40	11/15/2011 1:34 PM
Carbon tetrachloride	ND	40	U	ppbv	40	11/15/2011 1:34 PM
Chlorobenzene	ND	40	U	ppbv	40	11/15/2011 1:34 PM
Chlorodibromomethane	ND	40	U	ppbv	40	11/15/2011 1:34 PM
Chloroethane	ND	40	U	ppbv	40	11/15/2011 1:34 PM
Chloroform	ND	40	U	ppbv	40	11/15/2011 1:34 PM
Chloromethane	ND	40	U	ppbv	40	11/15/2011 1:34 PM
cis-1,2-Dichloroethene	ND	40	U	ppbv	40	11/15/2011 1:34 PM
cis-1,3-dichloropropene	ND	40	U	ppbv	40	11/15/2011 1:34 PM

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	10/31/2011 11:16:00 AM
Project:	Kirtland AFB		
Lab ID:	1111437-035	**Matrix:**	Air
Client Sample ID:	VA0814		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Cyclohexane	190	80		ppbv	40	11/15/2011 1:34 PM
Dichlorodifluoromethane	ND	40	U	ppbv	40	11/15/2011 1:34 PM
Ethyl acetate	ND	40	U	ppbv	40	11/15/2011 1:34 PM
Ethylbenzene	ND	80	U	ppbv	40	11/15/2011 1:34 PM
Heptane	100	40		ppbv	40	11/15/2011 1:34 PM
Hexachlorobutadiene	ND	80	U	ppbv	40	11/15/2011 1:34 PM
m,p-Xylene	43	80	J	ppbv	40	11/15/2011 1:34 PM
Methylene chloride	ND	200	U	ppbv	40	11/15/2011 1:34 PM
n-Hexane	74	80	J	ppbv	40	11/15/2011 1:34 PM
Naphthalene	ND	40	U	ppbv	40	11/15/2011 1:34 PM
o-Xylene	ND	40	U	ppbv	40	11/15/2011 1:34 PM
Propylene	ND	40	U	ppbv	40	11/15/2011 1:34 PM
Styrene	ND	40	U	ppbv	40	11/15/2011 1:34 PM
tert-Butyl Methyl Ether	ND	40	U	ppbv	40	11/15/2011 1:34 PM
Tetrachloroethene	ND	40	U	ppbv	40	11/15/2011 1:34 PM
Tetrahydrofuran	ND	40	U	ppbv	40	11/15/2011 1:34 PM
Toluene	240	40		ppbv	40	11/15/2011 1:34 PM
trans-1,2-Dichloroethene	ND	40	U	ppbv	40	11/15/2011 1:34 PM
trans-1,3-dichloropropene	ND	40	U	ppbv	40	11/15/2011 1:34 PM
Trichloroethene	ND	40	U	ppbv	40	11/15/2011 1:34 PM
Trichlorofluoromethane	ND	40	U	ppbv	40	11/15/2011 1:34 PM
Vinyl acetate	ND	40	U	ppbv	40	11/15/2011 1:34 PM
Vinyl chloride	ND	40	U	ppbv	40	11/15/2011 1:34 PM
Xylenes, Total	43	120	J	ppbv	40	11/15/2011 1:34 PM
Surr: 4-Bromofluorobenzene	108	70-130		%REC	40	11/15/2011 1:34 PM
Mass APH Air	**Method:**					**Analyst: RH3**
Air-Phase Petroleum Hydrocarbons						
C5-C8 Aliphatic Hydrocarbons	8,800	4,700		µg/m³	40	11/16/2011 3:30 PM
C9-C10 Aromatic Hydrocarbons	ND	5,300	U	µg/m³	40	11/16/2011 3:30 PM
C9-C12 Aliphatic Hydrocarbons	ND	7,600	U	µg/m³	40	11/16/2011 3:30 PM
Surr: 4-Bromofluorobenzene	98.0	70-130		%REC	40	11/16/2011 3:30 PM

RTI Laboratories - Analytical Report

WO#: 1111437

Date Reported: 12/21/2011
Revision v1

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	10/31/2011 12:56:00 PM
Project:	Kirtland AFB		
Lab ID:	1111437-036	**Matrix:**	Air
Client Sample ID:	VA0815		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Noncondensable Gases and Light Hydrocarbons	**Method: ASTM-D2504**					**Analyst: MB**
Carbon dioxide	0.40	0.10		%	1	11/23/2011 9:46 PM
Carbon Monoxide	ND	0.10	U	%	1	11/23/2011 9:46 PM
Methane	ND	0.50	U	%	1	11/23/2011 9:46 PM
Nitrogen	79	0.10		%	1	11/23/2011 9:46 PM
Oxygen	20	0.10		%	1	11/23/2011 9:46 PM
Volatile Organic Compounds	**Method: TO-15**					**Analyst: RH3**
1,1,1-Trichloroethane	ND	40	U	ppbv	40	11/15/2011 2:16 PM
1,1,2,2-Tetrachloroethane	ND	40	U	ppbv	40	11/15/2011 2:16 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	40	U	ppbv	40	11/15/2011 2:16 PM
1,1,2-Trichloroethane	ND	40	U	ppbv	40	11/15/2011 2:16 PM
1,1-Dichloroethane	ND	40	U	ppbv	40	11/15/2011 2:16 PM
1,1-Dichloroethene	ND	40	U	ppbv	40	11/15/2011 2:16 PM
1,2,4-Trichlorobenzene	ND	40	U	ppbv	40	11/15/2011 2:16 PM
1,2,4-Trimethylbenzene	ND	40	U	ppbv	40	11/15/2011 2:16 PM
1,2-Dibromoethane	ND	40	U	ppbv	40	11/15/2011 2:16 PM
1,2-Dichlorobenzene	ND	40	U	ppbv	40	11/15/2011 2:16 PM
1,2-Dichloroethane	ND	40	U	ppbv	40	11/15/2011 2:16 PM
1,2-Dichloropropane	ND	40	U	ppbv	40	11/15/2011 2:16 PM
1,3,5-Trimethylbenzene	ND	40	U	ppbv	40	11/15/2011 2:16 PM
1,3-Butadiene	230	40		ppbv	40	11/15/2011 2:16 PM
1,3-Dichlorobenzene	ND	40	U	ppbv	40	11/15/2011 2:16 PM
1,4-Dichlorobenzene	ND	40	U	ppbv	40	11/15/2011 2:16 PM
2-Butanone	ND	40	U	ppbv	40	11/15/2011 2:16 PM
2-Hexanone	ND	40	U	ppbv	40	11/15/2011 2:16 PM
4-Methyl-2-pentanone	ND	40	U	ppbv	40	11/15/2011 2:16 PM
Acetone	ND	40	U	ppbv	40	11/15/2011 2:16 PM
Benzene	25,000	800		ppbv	800	11/17/2011 12:03 AM
Benzyl chloride	ND	40	U	ppbv	40	11/15/2011 2:16 PM
Bromodichloromethane	ND	40	U	ppbv	40	11/15/2011 2:16 PM
Bromoform	ND	40	U	ppbv	40	11/15/2011 2:16 PM
Bromomethane	ND	40	U	ppbv	40	11/15/2011 2:16 PM
Carbon disulfide	ND	40	U	ppbv	40	11/15/2011 2:16 PM
Carbon tetrachloride	ND	40	U	ppbv	40	11/15/2011 2:16 PM
Chlorobenzene	ND	40	U	ppbv	40	11/15/2011 2:16 PM
Chlorodibromomethane	ND	40	U	ppbv	40	11/15/2011 2:16 PM
Chloroethane	ND	40	U	ppbv	40	11/15/2011 2:16 PM
Chloroform	ND	40	U	ppbv	40	11/15/2011 2:16 PM
Chloromethane	ND	40	U	ppbv	40	11/15/2011 2:16 PM
cis-1,2-Dichloroethene	ND	40	U	ppbv	40	11/15/2011 2:16 PM
cis-1,3-dichloropropene	ND	40	U	ppbv	40	11/15/2011 2:16 PM

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	10/31/2011 12:56:00 PM
Project:	Kirtland AFB		
Lab ID:	1111437-036	**Matrix:**	Air
Client Sample ID:	VA0815		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Cyclohexane	15,000	1,600		ppbv	800	11/17/2011 12:03 AM
Dichlorodifluoromethane	ND	40	U	ppbv	40	11/15/2011 2:16 PM
Ethyl acetate	ND	40	U	ppbv	40	11/15/2011 2:16 PM
Ethylbenzene	180	80		ppbv	40	11/15/2011 2:16 PM
Heptane	880	40		ppbv	40	11/15/2011 2:16 PM
Hexachlorobutadiene	ND	80	U	ppbv	40	11/15/2011 2:16 PM
m,p-Xylene	350	80		ppbv	40	11/15/2011 2:16 PM
Methylene chloride	ND	200	U	ppbv	40	11/15/2011 2:16 PM
n-Hexane	10,000	1,600		ppbv	800	11/17/2011 12:03 AM
Naphthalene	ND	40	U	ppbv	40	11/15/2011 2:16 PM
o-Xylene	310	40		ppbv	40	11/15/2011 2:16 PM
Propylene	2,200	40		ppbv	40	11/15/2011 2:16 PM
Styrene	ND	40	U	ppbv	40	11/15/2011 2:16 PM
tert-Butyl Methyl Ether	ND	40	U	ppbv	40	11/15/2011 2:16 PM
Tetrachloroethene	ND	40	U	ppbv	40	11/15/2011 2:16 PM
Tetrahydrofuran	ND	40	U	ppbv	40	11/15/2011 2:16 PM
Toluene	11,000	800		ppbv	800	11/17/2011 12:03 AM
trans-1,2-Dichloroethene	ND	40	U	ppbv	40	11/15/2011 2:16 PM
trans-1,3-dichloropropene	ND	40	U	ppbv	40	11/15/2011 2:16 PM
Trichloroethene	ND	40	U	ppbv	40	11/15/2011 2:16 PM
Trichlorofluoromethane	ND	40	U	ppbv	40	11/15/2011 2:16 PM
Vinyl acetate	ND	40	U	ppbv	40	11/15/2011 2:16 PM
Vinyl chloride	ND	40	U	ppbv	40	11/15/2011 2:16 PM
Xylenes, Total	660	120		ppbv	40	11/15/2011 2:16 PM
Surr: 4-Bromofluorobenzene	113	70-130		%REC	40	11/15/2011 2:16 PM
Mass APH Air **Air-Phase Petroleum Hydrocarbons**	**Method:**					**Analyst: RH3**
C5-C8 Aliphatic Hydrocarbons	1,100,000	94,000		µg/m³	800	11/15/2011 11:56 PM
C9-C10 Aromatic Hydrocarbons	ND	110,000	U	µg/m³	800	11/15/2011 11:56 PM
C9-C12 Aliphatic Hydrocarbons	ND	150,000	U	µg/m³	800	11/15/2011 11:56 PM
Surr: 4-Bromofluorobenzene	96.7	70-130		%REC	800	11/15/2011 11:56 PM

RTI Laboratories - Analytical Report

WO#: 1111437

Date Reported: 12/21/2011
Revision v1

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	10/31/2011 1:51:00 PM
Project:	Kirtland AFB		
Lab ID:	1111437-037	**Matrix:**	Air
Client Sample ID:	VA0816		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Noncondensable Gases and Light Hydrocarbons	**Method: ASTM-D2504**					**Analyst: MB**
Carbon dioxide	0.22	0.10		%	1	11/23/2011 10:08 PM
Carbon Monoxide	ND	0.10	U	%	1	11/23/2011 10:08 PM
Methane	ND	0.50	U	%	1	11/23/2011 10:08 PM
Nitrogen	78	0.10		%	1	11/23/2011 10:08 PM
Oxygen	21	0.10		%	1	11/23/2011 10:08 PM
Volatile Organic Compounds	**Method: TO-15**					**Analyst: RH3**
1,1,1-Trichloroethane	ND	8,000	U	ppbv	8000	11/17/2011 12:44 AM
1,1,2,2-Tetrachloroethane	ND	8,000	U	ppbv	8000	11/17/2011 12:44 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	8,000	U	ppbv	8000	11/17/2011 12:44 AM
1,1,2-Trichloroethane	ND	8,000	U	ppbv	8000	11/17/2011 12:44 AM
1,1-Dichloroethane	ND	8,000	U	ppbv	8000	11/17/2011 12:44 AM
1,1-Dichloroethene	ND	8,000	U	ppbv	8000	11/17/2011 12:44 AM
1,2,4-Trichlorobenzene	ND	8,000	U	ppbv	8000	11/17/2011 12:44 AM
1,2,4-Trimethylbenzene	ND	8,000	U	ppbv	8000	11/17/2011 12:44 AM
1,2-Dibromoethane	ND	8,000	U	ppbv	8000	11/17/2011 12:44 AM
1,2-Dichlorobenzene	ND	8,000	U	ppbv	8000	11/17/2011 12:44 AM
1,2-Dichloroethane	ND	8,000	U	ppbv	8000	11/17/2011 12:44 AM
1,2-Dichloropropane	ND	8,000	U	ppbv	8000	11/17/2011 12:44 AM
1,3,5-Trimethylbenzene	ND	8,000	U	ppbv	8000	11/17/2011 12:44 AM
1,3-Butadiene	ND	8,000	U	ppbv	8000	11/17/2011 12:44 AM
1,3-Dichlorobenzene	ND	8,000	U	ppbv	8000	11/17/2011 12:44 AM
1,4-Dichlorobenzene	ND	8,000	U	ppbv	8000	11/17/2011 12:44 AM
2-Butanone	ND	8,000	U	ppbv	8000	11/17/2011 12:44 AM
2-Hexanone	ND	8,000	U	ppbv	8000	11/17/2011 12:44 AM
4-Methyl-2-pentanone	ND	8,000	U	ppbv	8000	11/17/2011 12:44 AM
Acetone	ND	8,000	U	ppbv	8000	11/17/2011 12:44 AM
Benzene	180,000	8,000		ppbv	8000	11/17/2011 12:44 AM
Benzyl chloride	ND	8,000	U	ppbv	8000	11/17/2011 12:44 AM
Bromodichloromethane	ND	8,000	U	ppbv	8000	11/17/2011 12:44 AM
Bromoform	ND	8,000	U	ppbv	8000	11/17/2011 12:44 AM
Bromomethane	ND	8,000	U	ppbv	8000	11/17/2011 12:44 AM
Carbon disulfide	ND	8,000	U	ppbv	8000	11/17/2011 12:44 AM
Carbon tetrachloride	ND	8,000	U	ppbv	8000	11/17/2011 12:44 AM
Chlorobenzene	ND	8,000	U	ppbv	8000	11/17/2011 12:44 AM
Chlorodibromomethane	ND	8,000	U	ppbv	8000	11/17/2011 12:44 AM
Chloroethane	ND	8,000	U	ppbv	8000	11/17/2011 12:44 AM
Chloroform	ND	8,000	U	ppbv	8000	11/17/2011 12:44 AM
Chloromethane	ND	8,000	U	ppbv	8000	11/17/2011 12:44 AM
cis-1,2-Dichloroethene	ND	8,000	U	ppbv	8000	11/17/2011 12:44 AM
cis-1,3-dichloropropene	ND	8,000	U	ppbv	8000	11/17/2011 12:44 AM

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	10/31/2011 1:51:00 PM
Project:	Kirtland AFB		
Lab ID:	1111437-037	**Matrix:**	Air
Client Sample ID:	VA0816		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Cyclohexane	420,000	16,000		ppbv	8000	11/17/2011 12:44 AM
Dichlorodifluoromethane	ND	8,000	U	ppbv	8000	11/17/2011 12:44 AM
Ethyl acetate	ND	8,000	U	ppbv	8000	11/17/2011 12:44 AM
Ethylbenzene	ND	16,000	U	ppbv	8000	11/17/2011 12:44 AM
Heptane	260,000	8,000		ppbv	8000	11/17/2011 12:44 AM
Hexachlorobutadiene	ND	16,000	U	ppbv	8000	11/17/2011 12:44 AM
m,p-Xylene	16,000	16,000		ppbv	8000	11/17/2011 12:44 AM
Methylene chloride	ND	40,000	U	ppbv	8000	11/17/2011 12:44 AM
n-Hexane	460,000	16,000		ppbv	8000	11/17/2011 12:44 AM
Naphthalene	ND	8,000	U	ppbv	8000	11/17/2011 12:44 AM
o-Xylene	ND	8,000	U	ppbv	8000	11/17/2011 12:44 AM
Propylene	ND	8,000	U	ppbv	8000	11/17/2011 12:44 AM
Styrene	ND	8,000	U	ppbv	8000	11/17/2011 12:44 AM
tert-Butyl Methyl Ether	ND	8,000	U	ppbv	8000	11/17/2011 12:44 AM
Tetrachloroethene	ND	8,000	U	ppbv	8000	11/17/2011 12:44 AM
Tetrahydrofuran	ND	8,000	U	ppbv	8000	11/17/2011 12:44 AM
Toluene	250,000	8,000		ppbv	8000	11/17/2011 12:44 AM
trans-1,2-Dichloroethene	ND	8,000	U	ppbv	8000	11/17/2011 12:44 AM
trans-1,3-dichloropropene	ND	8,000	U	ppbv	8000	11/17/2011 12:44 AM
Trichloroethene	ND	8,000	U	ppbv	8000	11/17/2011 12:44 AM
Trichlorofluoromethane	ND	8,000	U	ppbv	8000	11/17/2011 12:44 AM
Vinyl acetate	ND	8,000	U	ppbv	8000	11/17/2011 12:44 AM
Vinyl chloride	ND	8,000	U	ppbv	8000	11/17/2011 12:44 AM
Xylenes, Total	16,000	24,000	J	ppbv	8000	11/17/2011 12:44 AM
Surr: 4-Bromofluorobenzene	108	70-130		%REC	8000	11/17/2011 12:44 AM
Mass APH Air	**Method:**					**Analyst: RH3**
Air-Phase Petroleum Hydrocarbons						
C5-C8 Aliphatic Hydrocarbons	11,000,000	940,000		µg/m³	8000	11/15/2011 2:07 AM
C9-C10 Aromatic Hydrocarbons	ND	1,100,000	U	µg/m³	8000	11/15/2011 2:07 AM
C9-C12 Aliphatic Hydrocarbons	ND	1,500,000	U	µg/m³	8000	11/15/2011 2:07 AM
Surr: 4-Bromofluorobenzene	95.5	70-130		%REC	8000	11/15/2011 2:07 AM

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WO#: 1111437

Date Reported: 12/21/2011
Revision v1

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	10/26/2011 2:36:00 PM
Project:	Kirtland AFB		
Lab ID:	1111437-038	**Matrix:**	Air
Client Sample ID:	VA0924		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Noncondensable Gases and Light Hydrocarbons	**Method: ASTM-D2504**					**Analyst: MB**
Carbon dioxide	0.14	0.10		%	1	11/21/2011 6:59 PM
Carbon Monoxide	ND	0.10	U	%	1	11/21/2011 6:59 PM
Methane	ND	0.50	U	%	1	11/21/2011 6:59 PM
Nitrogen	79	0.10		%	1	11/21/2011 6:59 PM
Oxygen	21	0.10		%	1	11/21/2011 6:59 PM
Volatile Organic Compounds	**Method: TO-15**					**Analyst: RH3**
1,1,1-Trichloroethane	ND	400	U	ppbv	400	11/16/2011 7:06 PM
1,1,2,2-Tetrachloroethane	ND	400	U	ppbv	400	11/16/2011 7:06 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	400	U	ppbv	400	11/16/2011 7:06 PM
1,1,2-Trichloroethane	ND	400	U	ppbv	400	11/16/2011 7:06 PM
1,1-Dichloroethane	ND	400	U	ppbv	400	11/16/2011 7:06 PM
1,1-Dichloroethene	ND	400	U	ppbv	400	11/16/2011 7:06 PM
1,2,4-Trichlorobenzene	ND	400	U	ppbv	400	11/16/2011 7:06 PM
1,2,4-Trimethylbenzene	ND	400	U	ppbv	400	11/16/2011 7:06 PM
1,2-Dibromoethane	ND	400	U	ppbv	400	11/16/2011 7:06 PM
1,2-Dichlorobenzene	ND	400	U	ppbv	400	11/16/2011 7:06 PM
1,2-Dichloroethane	ND	400	U	ppbv	400	11/16/2011 7:06 PM
1,2-Dichloropropane	ND	400	U	ppbv	400	11/16/2011 7:06 PM
1,3,5-Trimethylbenzene	ND	400	U	ppbv	400	11/16/2011 7:06 PM
1,3-Butadiene	ND	400	U	ppbv	400	11/16/2011 7:06 PM
1,3-Dichlorobenzene	ND	400	U	ppbv	400	11/16/2011 7:06 PM
1,4-Dichlorobenzene	ND	400	U	ppbv	400	11/16/2011 7:06 PM
2-Butanone	ND	400	U	ppbv	400	11/16/2011 7:06 PM
2-Hexanone	ND	400	U	ppbv	400	11/16/2011 7:06 PM
4-Methyl-2-pentanone	ND	400	U	ppbv	400	11/16/2011 7:06 PM
Acetone	740	400		ppbv	400	11/16/2011 7:06 PM
Benzene	16,000	400		ppbv	400	11/16/2011 7:06 PM
Benzyl chloride	ND	400	U	ppbv	400	11/16/2011 7:06 PM
Bromodichloromethane	ND	400	U	ppbv	400	11/16/2011 7:06 PM
Bromoform	ND	400	U	ppbv	400	11/16/2011 7:06 PM
Bromomethane	ND	400	U	ppbv	400	11/16/2011 7:06 PM
Carbon disulfide	ND	400	U	ppbv	400	11/16/2011 7:06 PM
Carbon tetrachloride	ND	400	U	ppbv	400	11/16/2011 7:06 PM
Chlorobenzene	ND	400	U	ppbv	400	11/16/2011 7:06 PM
Chlorodibromomethane	ND	400	U	ppbv	400	11/16/2011 7:06 PM
Chloroethane	ND	400	U	ppbv	400	11/16/2011 7:06 PM
Chloroform	ND	400	U	ppbv	400	11/16/2011 7:06 PM
Chloromethane	ND	400	U	ppbv	400	11/16/2011 7:06 PM
cis-1,2-Dichloroethene	ND	400	U	ppbv	400	11/16/2011 7:06 PM
cis-1,3-dichloropropene	ND	400	U	ppbv	400	11/16/2011 7:06 PM

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	10/26/2011 2:36:00 PM
Project:	Kirtland AFB		
Lab ID:	1111437-038	**Matrix:**	Air
Client Sample ID:	VA0924		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Cyclohexane	10,000	800		ppbv	400	11/16/2011 7:06 PM
Dichlorodifluoromethane	ND	400	U	ppbv	400	11/16/2011 7:06 PM
Ethyl acetate	ND	400	U	ppbv	400	11/16/2011 7:06 PM
Ethylbenzene	640	800	J	ppbv	400	11/16/2011 7:06 PM
Heptane	2,300	400		ppbv	400	11/16/2011 7:06 PM
Hexachlorobutadiene	ND	800	U	ppbv	400	11/16/2011 7:06 PM
m,p-Xylene	1,400	800		ppbv	400	11/16/2011 7:06 PM
Methylene chloride	990	2,000	J	ppbv	400	11/16/2011 7:06 PM
n-Hexane	6,900	800		ppbv	400	11/16/2011 7:06 PM
Naphthalene	ND	400	U	ppbv	400	11/16/2011 7:06 PM
o-Xylene	600	400		ppbv	400	11/16/2011 7:06 PM
Propylene	960	400		ppbv	400	11/16/2011 7:06 PM
Styrene	ND	400	U	ppbv	400	11/16/2011 7:06 PM
tert-Butyl Methyl Ether	ND	400	U	ppbv	400	11/16/2011 7:06 PM
Tetrachloroethene	ND	400	U	ppbv	400	11/16/2011 7:06 PM
Tetrahydrofuran	ND	400	U	ppbv	400	11/16/2011 7:06 PM
Toluene	13,000	400		ppbv	400	11/16/2011 7:06 PM
trans-1,2-Dichloroethene	ND	400	U	ppbv	400	11/16/2011 7:06 PM
trans-1,3-dichloropropene	ND	400	U	ppbv	400	11/16/2011 7:06 PM
Trichloroethene	ND	400	U	ppbv	400	11/16/2011 7:06 PM
Trichlorofluoromethane	ND	400	U	ppbv	400	11/16/2011 7:06 PM
Vinyl acetate	ND	400	U	ppbv	400	11/16/2011 7:06 PM
Vinyl chloride	ND	400	U	ppbv	400	11/16/2011 7:06 PM
Xylenes, Total	2,000	1,200		ppbv	400	11/16/2011 7:06 PM
Surr: 4-Bromofluorobenzene	107	70-130		%REC	400	11/16/2011 7:06 PM
Mass APH Air	**Method:**					**Analyst: RH3**
Air-Phase Petroleum Hydrocarbons						
C5-C8 Aliphatic Hydrocarbons	170,000	47,000		µg/m³	400	11/14/2011 2:37 PM
C9-C10 Aromatic Hydrocarbons	ND	53,000	U	µg/m³	400	11/14/2011 2:37 PM
C9-C12 Aliphatic Hydrocarbons	39,000	76,000	J	µg/m³	400	11/14/2011 2:37 PM
Surr: 4-Bromofluorobenzene	102	70-130		%REC	400	11/14/2011 2:37 PM

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	10/26/2011 3:03:00 PM
Project:	Kirtland AFB		
Lab ID:	1111437-039	**Matrix:**	Air
Client Sample ID:	VA0925		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Noncondensable Gases and Light Hydrocarbons	**Method: ASTM-D2504**					**Analyst: MB**
Carbon dioxide	0.18	0.10		%	1	11/21/2011 7:20 PM
Carbon Monoxide	ND	0.10	U	%	1	11/21/2011 7:20 PM
Methane	ND	0.50	U	%	1	11/21/2011 7:20 PM
Nitrogen	79	0.10		%	1	11/21/2011 7:20 PM
Oxygen	21	0.10		%	1	11/21/2011 7:20 PM
Volatile Organic Compounds	**Method: TO-15**					**Analyst: RH3**
1,1,1-Trichloroethane	ND	400	U	ppbv	400	11/16/2011 7:53 PM
1,1,2,2-Tetrachloroethane	ND	400	U	ppbv	400	11/16/2011 7:53 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	400	U	ppbv	400	11/16/2011 7:53 PM
1,1,2-Trichloroethane	ND	400	U	ppbv	400	11/16/2011 7:53 PM
1,1-Dichloroethane	ND	400	U	ppbv	400	11/16/2011 7:53 PM
1,1-Dichloroethene	ND	400	U	ppbv	400	11/16/2011 7:53 PM
1,2,4-Trichlorobenzene	ND	400	U	ppbv	400	11/16/2011 7:53 PM
1,2,4-Trimethylbenzene	ND	400	U	ppbv	400	11/16/2011 7:53 PM
1,2-Dibromoethane	ND	400	U	ppbv	400	11/16/2011 7:53 PM
1,2-Dichlorobenzene	ND	400	U	ppbv	400	11/16/2011 7:53 PM
1,2-Dichloroethane	ND	400	U	ppbv	400	11/16/2011 7:53 PM
1,2-Dichloropropane	ND	400	U	ppbv	400	11/16/2011 7:53 PM
1,3,5-Trimethylbenzene	ND	400	U	ppbv	400	11/16/2011 7:53 PM
1,3-Butadiene	ND	400	U	ppbv	400	11/16/2011 7:53 PM
1,3-Dichlorobenzene	ND	400	U	ppbv	400	11/16/2011 7:53 PM
1,4-Dichlorobenzene	ND	400	U	ppbv	400	11/16/2011 7:53 PM
2-Butanone	ND	400	U	ppbv	400	11/16/2011 7:53 PM
2-Hexanone	ND	400	U	ppbv	400	11/16/2011 7:53 PM
4-Methyl-2-pentanone	ND	400	U	ppbv	400	11/16/2011 7:53 PM
Acetone	780	400		ppbv	400	11/16/2011 7:53 PM
Benzene	1,700	400		ppbv	400	11/16/2011 7:53 PM
Benzyl chloride	ND	400	U	ppbv	400	11/16/2011 7:53 PM
Bromodichloromethane	ND	400	U	ppbv	400	11/16/2011 7:53 PM
Bromoform	ND	400	U	ppbv	400	11/16/2011 7:53 PM
Bromomethane	ND	400	U	ppbv	400	11/16/2011 7:53 PM
Carbon disulfide	ND	400	U	ppbv	400	11/16/2011 7:53 PM
Carbon tetrachloride	ND	400	U	ppbv	400	11/16/2011 7:53 PM
Chlorobenzene	ND	400	U	ppbv	400	11/16/2011 7:53 PM
Chlorodibromomethane	ND	400	U	ppbv	400	11/16/2011 7:53 PM
Chloroethane	ND	400	U	ppbv	400	11/16/2011 7:53 PM
Chloroform	ND	400	U	ppbv	400	11/16/2011 7:53 PM
Chloromethane	ND	400	U	ppbv	400	11/16/2011 7:53 PM
cis-1,2-Dichloroethene	ND	400	U	ppbv	400	11/16/2011 7:53 PM
cis-1,3-dichloropropene	ND	400	U	ppbv	400	11/16/2011 7:53 PM

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	10/26/2011 3:03:00 PM
Project:	Kirtland AFB		
Lab ID:	1111437-039	**Matrix:**	Air
Client Sample ID:	VA0925		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Cyclohexane	2,700	800		ppbv	400	11/16/2011 7:53 PM
Dichlorodifluoromethane	ND	400	U	ppbv	400	11/16/2011 7:53 PM
Ethyl acetate	ND	400	U	ppbv	400	11/16/2011 7:53 PM
Ethylbenzene	400	800	J	ppbv	400	11/16/2011 7:53 PM
Heptane	1,100	400		ppbv	400	11/16/2011 7:53 PM
Hexachlorobutadiene	ND	800	U	ppbv	400	11/16/2011 7:53 PM
m,p-Xylene	970	800		ppbv	400	11/16/2011 7:53 PM
Methylene chloride	1,600	2,000	J	ppbv	400	11/16/2011 7:53 PM
n-Hexane	1,600	800		ppbv	400	11/16/2011 7:53 PM
Naphthalene	ND	400	U	ppbv	400	11/16/2011 7:53 PM
o-Xylene	ND	400	U	ppbv	400	11/16/2011 7:53 PM
Propylene	ND	400	U	ppbv	400	11/16/2011 7:53 PM
Styrene	ND	400	U	ppbv	400	11/16/2011 7:53 PM
tert-Butyl Methyl Ether	ND	400	U	ppbv	400	11/16/2011 7:53 PM
Tetrachloroethene	ND	400	U	ppbv	400	11/16/2011 7:53 PM
Tetrahydrofuran	ND	400	U	ppbv	400	11/16/2011 7:53 PM
Toluene	5,200	400		ppbv	400	11/16/2011 7:53 PM
trans-1,2-Dichloroethene	ND	400	U	ppbv	400	11/16/2011 7:53 PM
trans-1,3-dichloropropene	ND	400	U	ppbv	400	11/16/2011 7:53 PM
Trichloroethene	ND	400	U	ppbv	400	11/16/2011 7:53 PM
Trichlorofluoromethane	ND	400	U	ppbv	400	11/16/2011 7:53 PM
Vinyl acetate	ND	400	U	ppbv	400	11/16/2011 7:53 PM
Vinyl chloride	ND	400	U	ppbv	400	11/16/2011 7:53 PM
Xylenes, Total	970	1,200	J	ppbv	400	11/16/2011 7:53 PM
Surr: 4-Bromofluorobenzene	105	70-130		%REC	400	11/16/2011 7:53 PM
Mass APH Air	**Method:**					**Analyst: RH3**
Air-Phase Petroleum Hydrocarbons						
C5-C8 Aliphatic Hydrocarbons	140,000	47,000		µg/m³	400	11/14/2011 4:10 PM
C9-C10 Aromatic Hydrocarbons	ND	53,000	U	µg/m³	400	11/14/2011 4:10 PM
C9-C12 Aliphatic Hydrocarbons	17,000	76,000	J	µg/m³	400	11/14/2011 4:10 PM
Surr: 4-Bromofluorobenzene	117	70-130		%REC	400	11/14/2011 4:10 PM

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	10/26/2011 3:32:00 PM
Project:	Kirtland AFB		
Lab ID:	1111437-040	**Matrix:**	Air
Client Sample ID:	VA0926		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Noncondensable Gases and Light Hydrocarbons	**Method: ASTM-D2504**					**Analyst: MB**
Carbon dioxide	0.35	0.10		%	1	11/21/2011 7:48 PM
Carbon Monoxide	ND	0.10	U	%	1	11/21/2011 7:48 PM
Methane	ND	0.50	U	%	1	11/21/2011 7:48 PM
Nitrogen	79	0.10		%	1	11/21/2011 7:48 PM
Oxygen	20	0.10		%	1	11/21/2011 7:48 PM
Volatile Organic Compounds	**Method: TO-15**					**Analyst: RH3**
1,1,1-Trichloroethane	ND	40	U	ppbv	40	11/16/2011 8:33 PM
1,1,2,2-Tetrachloroethane	ND	40	U	ppbv	40	11/16/2011 8:33 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	60	40		ppbv	40	11/16/2011 8:33 PM
1,1,2-Trichloroethane	ND	40	U	ppbv	40	11/16/2011 8:33 PM
1,1-Dichloroethane	ND	40	U	ppbv	40	11/16/2011 8:33 PM
1,1-Dichloroethene	ND	40	U	ppbv	40	11/16/2011 8:33 PM
1,2,4-Trichlorobenzene	ND	40	U	ppbv	40	11/16/2011 8:33 PM
1,2,4-Trimethylbenzene	71	40		ppbv	40	11/16/2011 8:33 PM
1,2-Dibromoethane	ND	40	U	ppbv	40	11/16/2011 8:33 PM
1,2-Dichlorobenzene	ND	40	U	ppbv	40	11/16/2011 8:33 PM
1,2-Dichloroethane	ND	40	U	ppbv	40	11/16/2011 8:33 PM
1,2-Dichloropropane	ND	40	U	ppbv	40	11/16/2011 8:33 PM
1,3,5-Trimethylbenzene	ND	40	U	ppbv	40	11/16/2011 8:33 PM
1,3-Butadiene	ND	40	U	ppbv	40	11/16/2011 8:33 PM
1,3-Dichlorobenzene	ND	40	U	ppbv	40	11/16/2011 8:33 PM
1,4-Dichlorobenzene	ND	40	U	ppbv	40	11/16/2011 8:33 PM
2-Butanone	ND	40	U	ppbv	40	11/16/2011 8:33 PM
2-Hexanone	ND	40	U	ppbv	40	11/16/2011 8:33 PM
4-Methyl-2-pentanone	ND	40	U	ppbv	40	11/16/2011 8:33 PM
Acetone	ND	40	U	ppbv	40	11/16/2011 8:33 PM
Benzene	430	40		ppbv	40	11/16/2011 8:33 PM
Benzyl chloride	ND	40	U	ppbv	40	11/16/2011 8:33 PM
Bromodichloromethane	ND	40	U	ppbv	40	11/16/2011 8:33 PM
Bromoform	ND	40	U	ppbv	40	11/16/2011 8:33 PM
Bromomethane	ND	40	U	ppbv	40	11/16/2011 8:33 PM
Carbon disulfide	ND	40	U	ppbv	40	11/16/2011 8:33 PM
Carbon tetrachloride	ND	40	U	ppbv	40	11/16/2011 8:33 PM
Chlorobenzene	ND	40	U	ppbv	40	11/16/2011 8:33 PM
Chlorodibromomethane	ND	40	U	ppbv	40	11/16/2011 8:33 PM
Chloroethane	ND	40	U	ppbv	40	11/16/2011 8:33 PM
Chloroform	ND	40	U	ppbv	40	11/16/2011 8:33 PM
Chloromethane	ND	40	U	ppbv	40	11/16/2011 8:33 PM
cis-1,2-Dichloroethene	ND	40	U	ppbv	40	11/16/2011 8:33 PM
cis-1,3-dichloropropene	ND	40	U	ppbv	40	11/16/2011 8:33 PM

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	10/26/2011 3:32:00 PM
Project:	Kirtland AFB		
Lab ID:	1111437-040	**Matrix:**	Air
Client Sample ID:	VA0926		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Cyclohexane	600	80		ppbv	40	11/16/2011 8:33 PM
Dichlorodifluoromethane	ND	40	U	ppbv	40	11/16/2011 8:33 PM
Ethyl acetate	ND	40	U	ppbv	40	11/16/2011 8:33 PM
Ethylbenzene	170	80		ppbv	40	11/16/2011 8:33 PM
Heptane	400	40		ppbv	40	11/16/2011 8:33 PM
Hexachlorobutadiene	ND	80	U	ppbv	40	11/16/2011 8:33 PM
m,p-Xylene	460	80		ppbv	40	11/16/2011 8:33 PM
Methylene chloride	ND	200	U	ppbv	40	11/16/2011 8:33 PM
n-Hexane	240	80		ppbv	40	11/16/2011 8:33 PM
Naphthalene	ND	40	U	ppbv	40	11/16/2011 8:33 PM
o-Xylene	150	40		ppbv	40	11/16/2011 8:33 PM
Propylene	ND	40	U	ppbv	40	11/16/2011 8:33 PM
Styrene	ND	40	U	ppbv	40	11/16/2011 8:33 PM
tert-Butyl Methyl Ether	ND	40	U	ppbv	40	11/16/2011 8:33 PM
Tetrachloroethene	ND	40	U	ppbv	40	11/16/2011 8:33 PM
Tetrahydrofuran	ND	40	U	ppbv	40	11/16/2011 8:33 PM
Toluene	2,200	40		ppbv	40	11/16/2011 8:33 PM
trans-1,2-Dichloroethene	ND	40	U	ppbv	40	11/16/2011 8:33 PM
trans-1,3-dichloropropene	ND	40	U	ppbv	40	11/16/2011 8:33 PM
Trichloroethene	ND	40	U	ppbv	40	11/16/2011 8:33 PM
Trichlorofluoromethane	ND	40	U	ppbv	40	11/16/2011 8:33 PM
Vinyl acetate	ND	40	U	ppbv	40	11/16/2011 8:33 PM
Vinyl chloride	ND	40	U	ppbv	40	11/16/2011 8:33 PM
Xylenes, Total	610	120		ppbv	40	11/16/2011 8:33 PM
Surr: 4-Bromofluorobenzene	98.5	70-130		%REC	40	11/16/2011 8:33 PM
Mass APH Air	**Method:**					**Analyst: RH3**
Air-Phase Petroleum Hydrocarbons						
C5-C8 Aliphatic Hydrocarbons	30,000	4,700		µg/m³	40	11/15/2011 2:59 PM
C9-C10 Aromatic Hydrocarbons	1,700	5,300	J	µg/m³	40	11/15/2011 2:59 PM
C9-C12 Aliphatic Hydrocarbons	15,000	7,600		µg/m³	40	11/15/2011 2:59 PM
Surr: 4-Bromofluorobenzene	103	70-130		%REC	40	11/15/2011 2:59 PM

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Date Reported: 12/21/2011
Revision v1

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	10/27/2011 10:43:00 AM
Project:	Kirtland AFB		
Lab ID:	1111437-041	**Matrix:**	Air
Client Sample ID:	VA0927		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Noncondensable Gases and Light Hydrocarbons	**Method: ASTM-D2504**					**Analyst: MB**
Carbon dioxide	0.31	0.10		%	1	11/21/2011 8:12 PM
Carbon Monoxide	ND	0.10	U	%	1	11/21/2011 8:12 PM
Methane	ND	0.50	U	%	1	11/21/2011 8:12 PM
Nitrogen	79	0.10		%	1	11/21/2011 8:12 PM
Oxygen	21	0.10		%	1	11/21/2011 8:12 PM
Volatile Organic Compounds	**Method: TO-15**					**Analyst: RH3**
1,1,1-Trichloroethane	ND	8.0	U	ppbv	8	11/18/2011 1:02 AM
1,1,2,2-Tetrachloroethane	ND	8.0	U	ppbv	8	11/18/2011 1:02 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	8.0	U	ppbv	8	11/18/2011 1:02 AM
1,1,2-Trichloroethane	ND	8.0	U	ppbv	8	11/18/2011 1:02 AM
1,1-Dichloroethane	ND	8.0	U	ppbv	8	11/18/2011 1:02 AM
1,1-Dichloroethene	ND	8.0	U	ppbv	8	11/18/2011 1:02 AM
1,2,4-Trichlorobenzene	ND	8.0	U	ppbv	8	11/18/2011 1:02 AM
1,2,4-Trimethylbenzene	19	8.0		ppbv	8	11/18/2011 1:02 AM
1,2-Dibromoethane	ND	8.0	U	ppbv	8	11/18/2011 1:02 AM
1,2-Dichlorobenzene	ND	8.0	U	ppbv	8	11/18/2011 1:02 AM
1,2-Dichloroethane	ND	8.0	U	ppbv	8	11/18/2011 1:02 AM
1,2-Dichloropropane	ND	8.0	U	ppbv	8	11/18/2011 1:02 AM
1,3,5-Trimethylbenzene	8.4	8.0		ppbv	8	11/18/2011 1:02 AM
1,3-Butadiene	ND	8.0	U	ppbv	8	11/18/2011 1:02 AM
1,3-Dichlorobenzene	ND	8.0	U	ppbv	8	11/18/2011 1:02 AM
1,4-Dichlorobenzene	ND	8.0	U	ppbv	8	11/18/2011 1:02 AM
2-Butanone	ND	8.0	U	ppbv	8	11/18/2011 1:02 AM
2-Hexanone	ND	8.0	U	ppbv	8	11/18/2011 1:02 AM
4-Methyl-2-pentanone	ND	8.0	U	ppbv	8	11/18/2011 1:02 AM
Acetone	ND	8.0	U	ppbv	8	11/18/2011 1:02 AM
Benzene	140	8.0		ppbv	8	11/18/2011 1:02 AM
Benzyl chloride	ND	8.0	U	ppbv	8	11/18/2011 1:02 AM
Bromodichloromethane	ND	8.0	U	ppbv	8	11/18/2011 1:02 AM
Bromoform	ND	8.0	U	ppbv	8	11/18/2011 1:02 AM
Bromomethane	ND	8.0	U	ppbv	8	11/18/2011 1:02 AM
Carbon disulfide	ND	8.0	U	ppbv	8	11/18/2011 1:02 AM
Carbon tetrachloride	ND	8.0	U	ppbv	8	11/18/2011 1:02 AM
Chlorobenzene	ND	8.0	U	ppbv	8	11/18/2011 1:02 AM
Chlorodibromomethane	ND	8.0	U	ppbv	8	11/18/2011 1:02 AM
Chloroethane	ND	8.0	U	ppbv	8	11/18/2011 1:02 AM
Chloroform	ND	8.0	U	ppbv	8	11/18/2011 1:02 AM
Chloromethane	ND	8.0	U	ppbv	8	11/18/2011 1:02 AM
cis-1,2-Dichloroethene	ND	8.0	U	ppbv	8	11/18/2011 1:02 AM
cis-1,3-dichloropropene	ND	8.0	U	ppbv	8	11/18/2011 1:02 AM

RTI Laboratories - Analytical Report

WO#: 1111437

Date Reported: 12/21/2011
Revision v1

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	10/27/2011 10:43:00 AM
Project:	Kirtland AFB		
Lab ID:	1111437-041	**Matrix:**	Air
Client Sample ID:	VA0927		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Cyclohexane	320	16		ppbv	8	11/18/2011 1:02 AM
Dichlorodifluoromethane	ND	8.0	U	ppbv	8	11/18/2011 1:02 AM
Ethyl acetate	ND	8.0	U	ppbv	8	11/18/2011 1:02 AM
Ethylbenzene	35	16		ppbv	8	11/18/2011 1:02 AM
Heptane	110	8.0		ppbv	8	11/18/2011 1:02 AM
Hexachlorobutadiene	ND	16	U	ppbv	8	11/18/2011 1:02 AM
m,p-Xylene	110	16		ppbv	8	11/18/2011 1:02 AM
Methylene chloride	ND	40	U	ppbv	8	11/18/2011 1:02 AM
n-Hexane	170	16		ppbv	8	11/18/2011 1:02 AM
Naphthalene	ND	8.0	U	ppbv	8	11/18/2011 1:02 AM
o-Xylene	37	8.0		ppbv	8	11/18/2011 1:02 AM
Propylene	28	8.0		ppbv	8	11/18/2011 1:02 AM
Styrene	ND	8.0	U	ppbv	8	11/18/2011 1:02 AM
tert-Butyl Methyl Ether	ND	8.0	U	ppbv	8	11/18/2011 1:02 AM
Tetrachloroethene	ND	8.0	U	ppbv	8	11/18/2011 1:02 AM
Tetrahydrofuran	ND	8.0	U	ppbv	8	11/18/2011 1:02 AM
Toluene	440	8.0		ppbv	8	11/18/2011 1:02 AM
trans-1,2-Dichloroethene	ND	8.0	U	ppbv	8	11/18/2011 1:02 AM
trans-1,3-dichloropropene	ND	8.0	U	ppbv	8	11/18/2011 1:02 AM
Trichloroethene	ND	8.0	U	ppbv	8	11/18/2011 1:02 AM
Trichlorofluoromethane	ND	8.0	U	ppbv	8	11/18/2011 1:02 AM
Vinyl acetate	ND	8.0	U	ppbv	8	11/18/2011 1:02 AM
Vinyl chloride	ND	8.0	U	ppbv	8	11/18/2011 1:02 AM
Xylenes, Total	150	24		ppbv	8	11/18/2011 1:02 AM
Surr: 4-Bromofluorobenzene	98.5	70-130		%REC	8	11/18/2011 1:02 AM
Mass APH Air **Air-Phase Petroleum Hydrocarbons**	**Method:**					**Analyst: RH3**
C5-C8 Aliphatic Hydrocarbons	88,000	47,000		µg/m³	400	11/15/2011 2:56 AM
C9-C10 Aromatic Hydrocarbons	ND	53,000	U	µg/m³	400	11/15/2011 2:56 AM
C9-C12 Aliphatic Hydrocarbons	ND	76,000	U	µg/m³	400	11/15/2011 2:56 AM
Surr: 4-Bromofluorobenzene	108	70-130		%REC	400	11/15/2011 2:56 AM

RTI Laboratories - Analytical Report

WO#: 1111437

Date Reported: 12/21/2011
Revision v1

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	10/27/2011 11:27:00 AM
Project:	Kirtland AFB		
Lab ID:	1111437-042	**Matrix:**	Air
Client Sample ID:	VA0928		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Noncondensable Gases and Light Hydrocarbons	**Method: ASTM-D2504**					**Analyst: MB**
Carbon dioxide	0.18	0.10		%	1	11/21/2011 8:44 PM
Carbon Monoxide	ND	0.10	U	%	1	11/21/2011 8:44 PM
Methane	ND	0.50	U	%	1	11/21/2011 8:44 PM
Nitrogen	80	0.10		%	1	11/21/2011 8:44 PM
Oxygen	20	0.10		%	1	11/21/2011 8:44 PM
Volatile Organic Compounds	**Method: TO-15**					**Analyst: RH3**
1,1,1-Trichloroethane	ND	800	U	ppbv	800	11/16/2011 9:58 PM
1,1,2,2-Tetrachloroethane	ND	800	U	ppbv	800	11/16/2011 9:58 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	800	U	ppbv	800	11/16/2011 9:58 PM
1,1,2-Trichloroethane	ND	800	U	ppbv	800	11/16/2011 9:58 PM
1,1-Dichloroethane	ND	800	U	ppbv	800	11/16/2011 9:58 PM
1,1-Dichloroethene	ND	800	U	ppbv	800	11/16/2011 9:58 PM
1,2,4-Trichlorobenzene	ND	800	U	ppbv	800	11/16/2011 9:58 PM
1,2,4-Trimethylbenzene	ND	800	U	ppbv	800	11/16/2011 9:58 PM
1,2-Dibromoethane	ND	800	U	ppbv	800	11/16/2011 9:58 PM
1,2-Dichlorobenzene	ND	800	U	ppbv	800	11/16/2011 9:58 PM
1,2-Dichloroethane	ND	800	U	ppbv	800	11/16/2011 9:58 PM
1,2-Dichloropropane	ND	800	U	ppbv	800	11/16/2011 9:58 PM
1,3,5-Trimethylbenzene	ND	800	U	ppbv	800	11/16/2011 9:58 PM
1,3-Butadiene	ND	800	U	ppbv	800	11/16/2011 9:58 PM
1,3-Dichlorobenzene	ND	800	U	ppbv	800	11/16/2011 9:58 PM
1,4-Dichlorobenzene	ND	800	U	ppbv	800	11/16/2011 9:58 PM
2-Butanone	1,100	800		ppbv	800	11/16/2011 9:58 PM
2-Hexanone	ND	800	U	ppbv	800	11/16/2011 9:58 PM
4-Methyl-2-pentanone	ND	800	U	ppbv	800	11/16/2011 9:58 PM
Acetone	1,200	800		ppbv	800	11/16/2011 9:58 PM
Benzene	17,000	800		ppbv	800	11/16/2011 9:58 PM
Benzyl chloride	ND	800	U	ppbv	800	11/16/2011 9:58 PM
Bromodichloromethane	ND	800	U	ppbv	800	11/16/2011 9:58 PM
Bromoform	ND	800	U	ppbv	800	11/16/2011 9:58 PM
Bromomethane	ND	800	U	ppbv	800	11/16/2011 9:58 PM
Carbon disulfide	ND	800	U	ppbv	800	11/16/2011 9:58 PM
Carbon tetrachloride	ND	800	U	ppbv	800	11/16/2011 9:58 PM
Chlorobenzene	ND	800	U	ppbv	800	11/16/2011 9:58 PM
Chlorodibromomethane	ND	800	U	ppbv	800	11/16/2011 9:58 PM
Chloroethane	ND	800	U	ppbv	800	11/16/2011 9:58 PM
Chloroform	ND	800	U	ppbv	800	11/16/2011 9:58 PM
Chloromethane	ND	800	U	ppbv	800	11/16/2011 9:58 PM
cis-1,2-Dichloroethene	ND	800	U	ppbv	800	11/16/2011 9:58 PM
cis-1,3-dichloropropene	ND	800	U	ppbv	800	11/16/2011 9:58 PM

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	10/27/2011 11:27:00 AM
Project:	Kirtland AFB		
Lab ID:	1111437-042	**Matrix:**	Air
Client Sample ID:	VA0928		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Cyclohexane	18,000	1,600		ppbv	800	11/16/2011 9:58 PM
Dichlorodifluoromethane	ND	800	U	ppbv	800	11/16/2011 9:58 PM
Ethyl acetate	ND	800	U	ppbv	800	11/16/2011 9:58 PM
Ethylbenzene	ND	1,600	U	ppbv	800	11/16/2011 9:58 PM
Heptane	2,800	800		ppbv	800	11/16/2011 9:58 PM
Hexachlorobutadiene	ND	1,600	U	ppbv	800	11/16/2011 9:58 PM
m,p-Xylene	1,300	1,600	J	ppbv	800	11/16/2011 9:58 PM
Methylene chloride	6,700	4,000		ppbv	800	11/16/2011 9:58 PM
n-Hexane	19,000	1,600		ppbv	800	11/16/2011 9:58 PM
Naphthalene	ND	800	U	ppbv	800	11/16/2011 9:58 PM
o-Xylene	ND	800	U	ppbv	800	11/16/2011 9:58 PM
Propylene	2,200	800		ppbv	800	11/16/2011 9:58 PM
Styrene	ND	800	U	ppbv	800	11/16/2011 9:58 PM
tert-Butyl Methyl Ether	ND	800	U	ppbv	800	11/16/2011 9:58 PM
Tetrachloroethene	ND	800	U	ppbv	800	11/16/2011 9:58 PM
Tetrahydrofuran	ND	800	U	ppbv	800	11/16/2011 9:58 PM
Toluene	27,000	800		ppbv	800	11/16/2011 9:58 PM
trans-1,2-Dichloroethene	ND	800	U	ppbv	800	11/16/2011 9:58 PM
trans-1,3-dichloropropene	ND	800	U	ppbv	800	11/16/2011 9:58 PM
Trichloroethene	ND	800	U	ppbv	800	11/16/2011 9:58 PM
Trichlorofluoromethane	ND	800	U	ppbv	800	11/16/2011 9:58 PM
Vinyl acetate	ND	800	U	ppbv	800	11/16/2011 9:58 PM
Vinyl chloride	ND	800	U	ppbv	800	11/16/2011 9:58 PM
Xylenes, Total	1,300	2,400	J	ppbv	800	11/16/2011 9:58 PM
Surr: 4-Bromofluorobenzene	112	70-130		%REC	800	11/16/2011 9:58 PM
Mass APH Air	**Method:**					**Analyst: RH3**
Air-Phase Petroleum Hydrocarbons						
C5-C8 Aliphatic Hydrocarbons	2,100,000	940,000		µg/m³	8000	11/14/2011 5:35 PM
C9-C10 Aromatic Hydrocarbons	ND	1,100,000	U	µg/m³	8000	11/14/2011 5:35 PM
C9-C12 Aliphatic Hydrocarbons	ND	1,500,000	U	µg/m³	8000	11/14/2011 5:35 PM
Surr: 4-Bromofluorobenzene	97.4	70-130		%REC	8000	11/14/2011 5:35 PM

RTI Laboratories - Analytical Report

WO#: 1111437

Date Reported: 12/21/2011
Revision v1

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	10/27/2011 12:08:00 PM
Project:	Kirtland AFB		
Lab ID:	1111437-043	**Matrix:**	Air
Client Sample ID:	VA0929		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Noncondensable Gases and Light Hydrocarbons	**Method: ASTM-D2504**					**Analyst: MB**
Carbon dioxide	0.33	0.10		%	1	11/21/2011 9:08 PM
Carbon Monoxide	ND	0.10	U	%	1	11/21/2011 9:08 PM
Methane	ND	0.50	U	%	1	11/21/2011 9:08 PM
Nitrogen	80	0.10		%	1	11/21/2011 9:08 PM
Oxygen	19	0.10		%	1	11/21/2011 9:08 PM
Volatile Organic Compounds	**Method: TO-15**					**Analyst: RH3**
1,1,1-Trichloroethane	ND	8,000	U	ppbv	8000	11/16/2011 10:39 PM
1,1,2,2-Tetrachloroethane	ND	8,000	U	ppbv	8000	11/16/2011 10:39 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	8,000	U	ppbv	8000	11/16/2011 10:39 PM
1,1,2-Trichloroethane	ND	8,000	U	ppbv	8000	11/16/2011 10:39 PM
1,1-Dichloroethane	ND	8,000	U	ppbv	8000	11/16/2011 10:39 PM
1,1-Dichloroethene	ND	8,000	U	ppbv	8000	11/16/2011 10:39 PM
1,2,4-Trichlorobenzene	ND	8,000	U	ppbv	8000	11/16/2011 10:39 PM
1,2,4-Trimethylbenzene	ND	8,000	U	ppbv	8000	11/16/2011 10:39 PM
1,2-Dibromoethane	ND	8,000	U	ppbv	8000	11/16/2011 10:39 PM
1,2-Dichlorobenzene	ND	8,000	U	ppbv	8000	11/16/2011 10:39 PM
1,2-Dichloroethane	ND	8,000	U	ppbv	8000	11/16/2011 10:39 PM
1,2-Dichloropropane	ND	8,000	U	ppbv	8000	11/16/2011 10:39 PM
1,3,5-Trimethylbenzene	ND	8,000	U	ppbv	8000	11/16/2011 10:39 PM
1,3-Butadiene	ND	8,000	U	ppbv	8000	11/16/2011 10:39 PM
1,3-Dichlorobenzene	ND	8,000	U	ppbv	8000	11/16/2011 10:39 PM
1,4-Dichlorobenzene	ND	8,000	U	ppbv	8000	11/16/2011 10:39 PM
2-Butanone	ND	8,000	U	ppbv	8000	11/16/2011 10:39 PM
2-Hexanone	ND	8,000	U	ppbv	8000	11/16/2011 10:39 PM
4-Methyl-2-pentanone	ND	8,000	U	ppbv	8000	11/16/2011 10:39 PM
Acetone	ND	8,000	U	ppbv	8000	11/16/2011 10:39 PM
Benzene	120,000	8,000		ppbv	8000	11/16/2011 10:39 PM
Benzyl chloride	ND	8,000	U	ppbv	8000	11/16/2011 10:39 PM
Bromodichloromethane	ND	8,000	U	ppbv	8000	11/16/2011 10:39 PM
Bromoform	ND	8,000	U	ppbv	8000	11/16/2011 10:39 PM
Bromomethane	ND	8,000	U	ppbv	8000	11/16/2011 10:39 PM
Carbon disulfide	ND	8,000	U	ppbv	8000	11/16/2011 10:39 PM
Carbon tetrachloride	ND	8,000	U	ppbv	8000	11/16/2011 10:39 PM
Chlorobenzene	ND	8,000	U	ppbv	8000	11/16/2011 10:39 PM
Chlorodibromomethane	ND	8,000	U	ppbv	8000	11/16/2011 10:39 PM
Chloroethane	ND	8,000	U	ppbv	8000	11/16/2011 10:39 PM
Chloroform	ND	8,000	U	ppbv	8000	11/16/2011 10:39 PM
Chloromethane	ND	8,000	U	ppbv	8000	11/16/2011 10:39 PM
cis-1,2-Dichloroethene	ND	8,000	U	ppbv	8000	11/16/2011 10:39 PM
cis-1,3-dichloropropene	ND	8,000	U	ppbv	8000	11/16/2011 10:39 PM

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	10/27/2011 12:08:00 PM
Project:	Kirtland AFB		
Lab ID:	1111437-043	**Matrix:**	Air
Client Sample ID:	VA0929		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Cyclohexane	140,000	16,000		ppbv	8000	11/16/2011 10:39 PM
Dichlorodifluoromethane	ND	8,000	U	ppbv	8000	11/16/2011 10:39 PM
Ethyl acetate	ND	8,000	U	ppbv	8000	11/16/2011 10:39 PM
Ethylbenzene	ND	16,000	U	ppbv	8000	11/16/2011 10:39 PM
Heptane	53,000	8,000		ppbv	8000	11/16/2011 10:39 PM
Hexachlorobutadiene	ND	16,000	U	ppbv	8000	11/16/2011 10:39 PM
m,p-Xylene	10,000	16,000	J	ppbv	8000	11/16/2011 10:39 PM
Methylene chloride	ND	40,000	U	ppbv	8000	11/16/2011 10:39 PM
n-Hexane	150,000	16,000		ppbv	8000	11/16/2011 10:39 PM
Naphthalene	ND	8,000	U	ppbv	8000	11/16/2011 10:39 PM
o-Xylene	ND	8,000	U	ppbv	8000	11/16/2011 10:39 PM
Propylene	ND	8,000	U	ppbv	8000	11/16/2011 10:39 PM
Styrene	ND	8,000	U	ppbv	8000	11/16/2011 10:39 PM
tert-Butyl Methyl Ether	ND	8,000	U	ppbv	8000	11/16/2011 10:39 PM
Tetrachloroethene	ND	8,000	U	ppbv	8000	11/16/2011 10:39 PM
Tetrahydrofuran	ND	8,000	U	ppbv	8000	11/16/2011 10:39 PM
Toluene	180,000	8,000		ppbv	8000	11/16/2011 10:39 PM
trans-1,2-Dichloroethene	ND	8,000	U	ppbv	8000	11/16/2011 10:39 PM
trans-1,3-dichloropropene	ND	8,000	U	ppbv	8000	11/16/2011 10:39 PM
Trichloroethene	ND	8,000	U	ppbv	8000	11/16/2011 10:39 PM
Trichlorofluoromethane	ND	8,000	U	ppbv	8000	11/16/2011 10:39 PM
Vinyl acetate	ND	8,000	U	ppbv	8000	11/16/2011 10:39 PM
Vinyl chloride	ND	8,000	U	ppbv	8000	11/16/2011 10:39 PM
Xylenes, Total	10,000	24,000	J	ppbv	8000	11/16/2011 10:39 PM
Surr: 4-Bromofluorobenzene	110	70-130		%REC	8000	11/16/2011 10:39 PM
Mass APH Air	**Method:**					**Analyst: RH3**
Air-Phase Petroleum Hydrocarbons						
C5-C8 Aliphatic Hydrocarbons	6,400,000	940,000		µg/m³	8000	11/14/2011 7:01 PM
C9-C10 Aromatic Hydrocarbons	ND	1,100,000	U	µg/m³	8000	11/14/2011 7:01 PM
C9-C12 Aliphatic Hydrocarbons	ND	1,500,000	U	µg/m³	8000	11/14/2011 7:01 PM
Surr: 4-Bromofluorobenzene	95.2	70-130		%REC	8000	11/14/2011 7:01 PM

RTI Laboratories - Analytical Report

WO#: 1111437

Date Reported: 12/21/2011
Revision v1

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	10/26/2011 4:00:00 PM
Project:	Kirtland AFB		
Lab ID:	1111437-044	**Matrix:**	Air
Client Sample ID:	VA8057-TB		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds	**Method: TO-15**					**Analyst: RH3**
1,1,1-Trichloroethane	ND	40	U	ppbv	40	11/15/2011 2:58 AM
1,1,2,2-Tetrachloroethane	ND	40	U	ppbv	40	11/15/2011 2:58 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	40	U	ppbv	40	11/15/2011 2:58 AM
1,1,2-Trichloroethane	ND	40	U	ppbv	40	11/15/2011 2:58 AM
1,1-Dichloroethane	ND	40	U	ppbv	40	11/15/2011 2:58 AM
1,1-Dichloroethene	ND	40	U	ppbv	40	11/15/2011 2:58 AM
1,2,4-Trichlorobenzene	ND	40	U	ppbv	40	11/15/2011 2:58 AM
1,2,4-Trimethylbenzene	ND	40	U	ppbv	40	11/15/2011 2:58 AM
1,2-Dibromoethane	ND	40	U	ppbv	40	11/15/2011 2:58 AM
1,2-Dichlorobenzene	ND	40	U	ppbv	40	11/15/2011 2:58 AM
1,2-Dichloroethane	ND	40	U	ppbv	40	11/15/2011 2:58 AM
1,2-Dichloropropane	ND	40	U	ppbv	40	11/15/2011 2:58 AM
1,3,5-Trimethylbenzene	ND	40	U	ppbv	40	11/15/2011 2:58 AM
1,3-Butadiene	ND	40	U	ppbv	40	11/15/2011 2:58 AM
1,3-Dichlorobenzene	ND	40	U	ppbv	40	11/15/2011 2:58 AM
1,4-Dichlorobenzene	ND	40	U	ppbv	40	11/15/2011 2:58 AM
2-Butanone	ND	40	U	ppbv	40	11/15/2011 2:58 AM
2-Hexanone	ND	40	U	ppbv	40	11/15/2011 2:58 AM
4-Methyl-2-pentanone	ND	40	U	ppbv	40	11/15/2011 2:58 AM
Acetone	71	40		ppbv	40	11/15/2011 2:58 AM
Benzene	32	40	J	ppbv	40	11/15/2011 2:58 AM
Benzyl chloride	ND	40	U	ppbv	40	11/15/2011 2:58 AM
Bromodichloromethane	ND	40	U	ppbv	40	11/15/2011 2:58 AM
Bromoform	ND	40	U	ppbv	40	11/15/2011 2:58 AM
Bromomethane	ND	40	U	ppbv	40	11/15/2011 2:58 AM
Carbon disulfide	ND	40	U	ppbv	40	11/15/2011 2:58 AM
Carbon tetrachloride	ND	40	U	ppbv	40	11/15/2011 2:58 AM
Chlorobenzene	ND	40	U	ppbv	40	11/15/2011 2:58 AM
Chlorodibromomethane	ND	40	U	ppbv	40	11/15/2011 2:58 AM
Chloroethane	ND	40	U	ppbv	40	11/15/2011 2:58 AM
Chloroform	ND	40	U	ppbv	40	11/15/2011 2:58 AM
Chloromethane	ND	40	U	ppbv	40	11/15/2011 2:58 AM
cis-1,2-Dichloroethene	ND	40	U	ppbv	40	11/15/2011 2:58 AM
cis-1,3-dichloropropene	ND	40	U	ppbv	40	11/15/2011 2:58 AM
Cyclohexane	60	80	J	ppbv	40	11/15/2011 2:58 AM
Dichlorodifluoromethane	ND	40	U	ppbv	40	11/15/2011 2:58 AM
Ethyl acetate	ND	40	U	ppbv	40	11/15/2011 2:58 AM
Ethylbenzene	ND	80	U	ppbv	40	11/15/2011 2:58 AM
Heptane	23	40	J	ppbv	40	11/15/2011 2:58 AM
Hexachlorobutadiene	ND	80	U	ppbv	40	11/15/2011 2:58 AM
m,p-Xylene	ND	80	U	ppbv	40	11/15/2011 2:58 AM
Methylene chloride	ND	200	U	ppbv	40	11/15/2011 2:58 AM

RTI Laboratories - Analytical Report

WO#: 1111437

Date Reported: 12/21/2011
Revision v1

Client:	Shaw Environmental & Infrastructure, Inc	**Collection Date:**	10/26/2011 4:00:00 PM
Project:	Kirtland AFB		
Lab ID:	1111437-044	**Matrix:**	Air
Client Sample ID:	VA8057-TB		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
n-Hexane	75	80	J	ppbv	40	11/15/2011 2:58 AM
Naphthalene	ND	40	U	ppbv	40	11/15/2011 2:58 AM
o-Xylene	ND	40	U	ppbv	40	11/15/2011 2:58 AM
Propylene	ND	40	U	ppbv	40	11/15/2011 2:58 AM
Styrene	ND	40	U	ppbv	40	11/15/2011 2:58 AM
tert-Butyl Methyl Ether	ND	40	U	ppbv	40	11/15/2011 2:58 AM
Tetrachloroethene	ND	40	U	ppbv	40	11/15/2011 2:58 AM
Tetrahydrofuran	ND	40	U	ppbv	40	11/15/2011 2:58 AM
Toluene	57	40		ppbv	40	11/15/2011 2:58 AM
trans-1,2-Dichloroethene	ND	40	U	ppbv	40	11/15/2011 2:58 AM
trans-1,3-dichloropropene	ND	40	U	ppbv	40	11/15/2011 2:58 AM
Trichloroethene	ND	40	U	ppbv	40	11/15/2011 2:58 AM
Trichlorofluoromethane	ND	40	U	ppbv	40	11/15/2011 2:58 AM
Vinyl acetate	ND	40	U	ppbv	40	11/15/2011 2:58 AM
Vinyl chloride	ND	40	U	ppbv	40	11/15/2011 2:58 AM
Xylenes, Total	ND	120	U	ppbv	40	11/15/2011 2:58 AM
Surr: 4-Bromofluorobenzene	112	70-130		%REC	40	11/15/2011 2:58 AM

RTI Laboratories - QC SUMMARY REPORT

WO#: 1111437

Date Reported: 12/21/2011
Revision v1

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB **Batch ID:** R44217

Sample ID:	BLK 111411 VOA9	Samp Type:	MBLK	Test Code:	MA_APH	Units:	µg/m³	Prep Date:		RunNo:	44217	
Client ID:	PBW	Batch ID:	R44217	TestNo:	MA_APH			Analysis Date:	11/14/2011	SeqNo:	867608	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
C5-C8 Aliphatic Hydrocarbons	ND	120									U
C9-C10 Aromatic Hydrocarbons	ND	130									U
C9-C12 Aliphatic Hydrocarbons	ND	190									U
Surr: 4-Bromofluorobenzene	89		89.50		99.3	70	130				

Sample ID:	1111437-042Adup	Samp Type:	DUP	Test Code:	MA_APH	Units:	µg/m³	Prep Date:		RunNo:	44217	
Client ID:	VA0928	Batch ID:	R44217	TestNo:	MA_APH			Analysis Date:	11/14/2011	SeqNo:	867612	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
C5-C8 Aliphatic Hydrocarbons	2,000,000	940,000						2,070,000	3.17	30	
C9-C10 Aromatic Hydrocarbons	ND	1,100,000						0	0	30	U
C9-C12 Aliphatic Hydrocarbons	ND	1,500,000						0	0	30	U
Surr: 4-Bromofluorobenzene	700,000		716,000		97.3	70	130		0	30	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1111437

Date Reported: 12/21/2011
Revision v1

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB **Batch ID:** R44219

Sample ID:	BLK VOA1 111411	Samp Type:	MBLK	Test Code:	EPA_TO15	Units:	ppbv	Prep Date:		RunNo:	44219
Client ID:	PBW	Batch ID:	R44219	TestNo:	TO-15			Analysis Date:	11/14/2011	SeqNo:	867655

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	ND	1.0									U
1,1,2,2-Tetrachloroethane	ND	1.0									U
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0									U
1,1,2-Trichloroethane	ND	1.0									U
1,1-Dichloroethane	ND	1.0									U
1,1-Dichloroethene	ND	1.0									U
1,2,4-Trichlorobenzene	ND	1.0									U
1,2,4-Trimethylbenzene	ND	1.0									U
1,2-Dibromoethane	ND	1.0									U
1,2-Dichlorobenzene	ND	1.0									U
1,2-Dichloroethane	ND	1.0									U
1,2-Dichloropropane	ND	1.0									U
1,3,5-Trimethylbenzene	ND	1.0									U
1,3-Butadiene	ND	1.0									U
1,3-Dichlorobenzene	ND	1.0									U
1,4-Dichlorobenzene	ND	1.0									U
2-Butanone	ND	1.0									U
2-Hexanone	ND	1.0									U
4-Methyl-2-pentanone	ND	1.0									U
Acetone	ND	1.0									U
Benzene	ND	1.0									U
Benzyl chloride	ND	1.0									U
Bromodichloromethane	ND	1.0									U
Bromoform	ND	1.0									U
Bromomethane	ND	1.0									U
Carbon disulfide	ND	1.0									U
Carbon tetrachloride	ND	1.0									U
Chlorobenzene	ND	1.0									U
Chlorodibromomethane	ND	1.0									U
Chloroethane	ND	1.0									U
Chloroform	ND	1.0									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1111437

Date Reported: 12/21/2011
Revision v1

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB **Batch ID:** R44219

Sample ID:	BLK VOA1 111411	Samp Type:	MBLK	Test Code:	EPA_TO15	Units:	ppbv	Prep Date:		RunNo:	44219
Client ID:	PBW	Batch ID:	R44219	TestNo:	TO-15			Analysis Date:	11/14/2011	SeqNo:	867655

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chloromethane	ND	1.0									U
cis-1,2-Dichloroethene	ND	1.0									U
cis-1,3-dichloropropene	ND	1.0									U
Cyclohexane	ND	2.0									U
Dichlorodifluoromethane	ND	1.0									U
Ethyl acetate	ND	1.0									U
Ethylbenzene	ND	2.0									U
Heptane	ND	1.0									U
Hexachlorobutadiene	ND	2.0									U
m,p-Xylene	ND	2.0									U
Methylene chloride	ND	5.0									U
n-Hexane	ND	2.0									U
Naphthalene	ND	1.0									U
o-Xylene	ND	1.0									U
Propylene	ND	1.0									U
Styrene	ND	1.0									U
tert-Butyl Methyl Ether	ND	1.0									U
Tetrachloroethene	ND	1.0									U
Tetrahydrofuran	ND	1.0									U
Toluene	ND	1.0									U
trans-1,2-Dichloroethene	ND	1.0									U
trans-1,3-dichloropropene	ND	1.0									U
Trichloroethene	ND	1.0									U
Trichlorofluoromethane	ND	1.0									U
Vinyl acetate	ND	1.0									U
Vinyl chloride	ND	1.0									U
Xylenes, Total	ND	3.0									U
Surr: 4-Bromofluorobenzene	14		12.50		112	70	130				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1111437

Date Reported: 12/21/2011
Revision v1

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB

Batch ID: R44219

Sample ID:	1111437-033Adup	Samp Type:	DUP	Test Code:	EPA_TO15	Units:	ppbv	Prep Date:		RunNo:	44219
Client ID:	VA0812	Batch ID:	R44219	TestNo:	TO-15			Analysis Date:	11/15/2011	SeqNo:	867665

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	ND	8,000						0	0	25	U
1,1,2,2-Tetrachloroethane	ND	8,000						0	0	25	U
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	8,000						0	0	25	U
1,1,2-Trichloroethane	ND	8,000						0	0	25	U
1,1-Dichloroethane	ND	8,000						0	0	25	U
1,1-Dichloroethene	ND	8,000						0	0	25	U
1,2,4-Trichlorobenzene	ND	8,000						0	0	25	U
1,2,4-Trimethylbenzene	ND	8,000						0	0	25	U
1,2-Dibromoethane	ND	8,000						0	0	25	U
1,2-Dichlorobenzene	ND	8,000						0	0	25	U
1,2-Dichloroethane	ND	8,000						0	0	25	U
1,2-Dichloropropane	ND	8,000						0	0	25	U
1,3,5-Trimethylbenzene	ND	8,000						0	0	25	U
1,3-Butadiene	ND	8,000						0	0	25	U
1,3-Dichlorobenzene	ND	8,000						0	0	25	U
1,4-Dichlorobenzene	ND	8,000						0	0	25	U
2-Butanone	ND	8,000						0	0	25	U
2-Hexanone	ND	8,000						0	0	25	U
4-Methyl-2-pentanone	ND	8,000						0	0	25	U
Acetone	ND	8,000						0	0	25	U
Benzene	ND	8,000						0	0	25	U
Benzyl chloride	ND	8,000						0	0	25	U
Bromodichloromethane	ND	8,000						0	0	25	U
Bromoform	ND	8,000						0	0	25	U
Bromomethane	ND	8,000						0	0	25	U
Carbon disulfide	ND	8,000						0	0	25	U
Carbon tetrachloride	ND	8,000						0	0	25	U
Chlorobenzene	ND	8,000						0	0	25	U
Chlorodibromomethane	ND	8,000						0	0	25	U
Chloroethane	ND	8,000						0	0	25	U
Chloroform	ND	8,000						0	0	25	U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1111437

Date Reported: 12/21/2011
Revision v1

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB **Batch ID:** R44219

Sample ID:	1111437-033Adup	Samp Type:	DUP	Test Code:	EPA_TO15	Units:	ppbv	Prep Date:		RunNo:	44219
Client ID:	VA0812	Batch ID:	R44219	TestNo:	TO-15			Analysis Date:	11/15/2011	SeqNo:	867665

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chloromethane	ND	8,000						0	0	25	U
cis-1,2-Dichloroethene	ND	8,000						0	0	25	U
cis-1,3-dichloropropene	ND	8,000						0	0	25	U
Cyclohexane	ND	16,000						0	0	25	U
Dichlorodifluoromethane	ND	8,000						0	0	25	U
Ethyl acetate	ND	8,000						0	0	25	U
Ethylbenzene	ND	16,000						0	0	25	U
Heptane	ND	8,000						0	0	25	U
Hexachlorobutadiene	ND	16,000						0	0	25	U
m,p-Xylene	ND	16,000						0	0	25	U
Methylene chloride	ND	40,000						0	0	25	U
n-Hexane	ND	16,000						0	0	25	U
Naphthalene	ND	8,000						0	0	25	U
o-Xylene	ND	8,000						0	0	25	U
Propylene	ND	8,000						0	0	25	U
Styrene	ND	8,000						0	0	25	U
tert-Butyl Methyl Ether	ND	8,000						0	0	25	U
Tetrachloroethene	ND	8,000						0	0	25	U
Tetrahydrofuran	ND	8,000						0	0	25	U
Toluene	ND	8,000						0	0	25	U
trans-1,2-Dichloroethene	ND	8,000						0	0	25	U
trans-1,3-dichloropropene	ND	8,000						0	0	25	U
Trichloroethene	ND	8,000						0	0	25	U
Trichlorofluoromethane	ND	8,000						0	0	25	U
Vinyl acetate	ND	8,000						0	0	25	U
Vinyl chloride	ND	8,000						0	0	25	U
Xylenes, Total	ND	24,000						0	0	25	U
Surr: 4-Bromofluorobenzene	110,000		100,000		109	70	130		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1111437

Date Reported: 12/21/2011
Revision v1

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB **Batch ID:** R44253

Sample ID:	BLK 111511 VOA9	Samp Type:	MBLK	Test Code:	MA_APH	Units:	µg/m³	Prep Date:		RunNo:	44253	
Client ID:	PBW	Batch ID:	R44253	TestNo:	MA_APH			Analysis Date:	11/15/2011	SeqNo:	868411	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
C5-C8 Aliphatic Hydrocarbons	ND	120									U
C9-C10 Aromatic Hydrocarbons	ND	130									U
C9-C12 Aliphatic Hydrocarbons	ND	190									U
Surr: 4-Bromofluorobenzene	88		89.50		98.7	70	130				

Sample ID:	1111437-030Adup	Samp Type:	DUP	Test Code:	MA_APH	Units:	µg/m³	Prep Date:		RunNo:	44253	
Client ID:	VA0809	Batch ID:	R44253	TestNo:	MA_APH			Analysis Date:	11/15/2011	SeqNo:	868417	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
C5-C8 Aliphatic Hydrocarbons	8,100,000	940,000						8,026,000	1.07	30	
C9-C10 Aromatic Hydrocarbons	ND	1,100,000						0	0	30	U
C9-C12 Aliphatic Hydrocarbons	ND	1,500,000						0	0	30	U
Surr: 4-Bromofluorobenzene	680,000		716,000		95.4	70	130		0	30	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1111437

Date Reported: 12/21/2011

Revision v1

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB

Batch ID: R44306

Sample ID:	BLK 111611 VOA9	Samp Type:	MBLK	Test Code:	MA_APH	Units:	µg/m³	Prep Date:		RunNo:	44306	
Client ID:	PBW	Batch ID:	R44306	TestNo:	MA_APH			Analysis Date:	11/16/2011	SeqNo:	869388	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
C5-C8 Aliphatic Hydrocarbons	ND	120									U
C9-C10 Aromatic Hydrocarbons	ND	130									U
C9-C12 Aliphatic Hydrocarbons	ND	190									U
Surr: 4-Bromofluorobenzene	89		89.50		99.0	70	130				

Sample ID:	1111437-010Adup	Samp Type:	DUP	Test Code:	MA_APH	Units:	µg/m³	Prep Date:		RunNo:	44306	
Client ID:	VA0727	Batch ID:	R44306	TestNo:	MA_APH			Analysis Date:	11/16/2011	SeqNo:	869399	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
C5-C8 Aliphatic Hydrocarbons	41,000,000	940,000						69,440,000	52.6	30	R
C9-C10 Aromatic Hydrocarbons	ND	1,100,000						0	0	30	U
C9-C12 Aliphatic Hydrocarbons	ND	1,500,000						0	0	30	U
Surr: 4-Bromofluorobenzene	710,000		716,000		98.8	70	130		0	30	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1111437

Date Reported: 12/21/2011
Revision v1

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB **Batch ID:** R44310

Sample ID:	BLK VOA1 111611	Samp Type:	MBLK	Test Code:	EPA_TO15	Units:	ppbv	Prep Date:		RunNo:	44310
Client ID:	PBW	Batch ID:	R44310	TestNo:	TO-15			Analysis Date:	11/16/2011	SeqNo:	869469

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	ND	1.0									U
1,1,2,2-Tetrachloroethane	ND	1.0									U
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0									U
1,1,2-Trichloroethane	ND	1.0									U
1,1-Dichloroethane	ND	1.0									U
1,1-Dichloroethene	ND	1.0									U
1,2,4-Trichlorobenzene	ND	1.0									U
1,2,4-Trimethylbenzene	ND	1.0									U
1,2-Dibromoethane	ND	1.0									U
1,2-Dichlorobenzene	ND	1.0									U
1,2-Dichloroethane	ND	1.0									U
1,2-Dichloropropane	ND	1.0									U
1,3,5-Trimethylbenzene	ND	1.0									U
1,3-Butadiene	ND	1.0									U
1,3-Dichlorobenzene	ND	1.0									U
1,4-Dichlorobenzene	ND	1.0									U
2-Butanone	ND	1.0									U
2-Hexanone	ND	1.0									U
4-Methyl-2-pentanone	ND	1.0									U
Acetone	ND	1.0									U
Benzene	ND	1.0									U
Benzyl chloride	ND	1.0									U
Bromodichloromethane	ND	1.0									U
Bromoform	ND	1.0									U
Bromomethane	ND	1.0									U
Carbon disulfide	ND	1.0									U
Carbon tetrachloride	ND	1.0									U
Chlorobenzene	ND	1.0									U
Chlorodibromomethane	ND	1.0									U
Chloroethane	ND	1.0									U
Chloroform	ND	1.0									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1111437

Date Reported: 12/21/2011
Revision v1

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB **Batch ID:** R44310

Sample ID:	BLK VOA1 111611	Samp Type:	MBLK	Test Code:	EPA_TO15	Units:	ppbv	Prep Date:		RunNo:	44310
Client ID:	PBW	Batch ID:	R44310	TestNo:	TO-15			Analysis Date:	11/16/2011	SeqNo:	869469

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chloromethane	ND	1.0									U
cis-1,2-Dichloroethene	ND	1.0									U
cis-1,3-dichloropropene	ND	1.0									U
Cyclohexane	ND	2.0									U
Dichlorodifluoromethane	ND	1.0									U
Ethyl acetate	ND	1.0									U
Ethylbenzene	ND	2.0									U
Heptane	ND	1.0									U
Hexachlorobutadiene	ND	2.0									U
m,p-Xylene	ND	2.0									U
Methylene chloride	ND	5.0									U
n-Hexane	ND	2.0									U
Naphthalene	ND	1.0									U
o-Xylene	ND	1.0									U
Propylene	ND	1.0									U
Styrene	ND	1.0									U
tert-Butyl Methyl Ether	ND	1.0									U
Tetrachloroethene	ND	1.0									U
Tetrahydrofuran	ND	1.0									U
Toluene	ND	1.0									U
trans-1,2-Dichloroethene	ND	1.0									U
trans-1,3-dichloropropene	ND	1.0									U
Trichloroethene	ND	1.0									U
Trichlorofluoromethane	ND	1.0									U
Vinyl acetate	ND	1.0									U
Vinyl chloride	ND	1.0									U
Xylenes, Total	ND	3.0									U
Surr: 4-Bromofluorobenzene	13		12.50		108	70	130				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1111437

Date Reported: 12/21/2011
Revision v1

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB **Batch ID:** R44310

Sample ID:	1111437-043Adup	Samp Type:	DUP	Test Code:	EPA_TO15	Units:	ppbv	Prep Date:		RunNo:	44310
Client ID:	VA0929	Batch ID:	R44310	TestNo:	TO-15			Analysis Date:	11/16/2011	SeqNo:	869484

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	ND	8,000						0	0	25	U
1,1,2,2-Tetrachloroethane	ND	8,000						0	0	25	U
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	8,000						0	0	25	U
1,1,2-Trichloroethane	ND	8,000						0	0	25	U
1,1-Dichloroethane	ND	8,000						0	0	25	U
1,1-Dichloroethene	ND	8,000						0	0	25	U
1,2,4-Trichlorobenzene	ND	8,000						0	0	25	U
1,2,4-Trimethylbenzene	ND	8,000						0	0	25	U
1,2-Dibromoethane	ND	8,000						0	0	25	U
1,2-Dichlorobenzene	ND	8,000						0	0	25	U
1,2-Dichloroethane	ND	8,000						0	0	25	U
1,2-Dichloropropane	ND	8,000						0	0	25	U
1,3,5-Trimethylbenzene	ND	8,000						0	0	25	U
1,3-Butadiene	ND	8,000						0	0	25	U
1,3-Dichlorobenzene	ND	8,000						0	0	25	U
1,4-Dichlorobenzene	ND	8,000						0	0	25	U
2-Butanone	ND	8,000						0	0	25	U
2-Hexanone	ND	8,000						0	0	25	U
4-Methyl-2-pentanone	ND	8,000						0	0	25	U
Acetone	ND	8,000						0	0	25	U
Benzene	92,000	8,000						116,300	23.7	25	
Benzyl chloride	ND	8,000						0	0	25	U
Bromodichloromethane	ND	8,000						0	0	25	U
Bromoform	ND	8,000						0	0	25	U
Bromomethane	ND	8,000						0	0	25	U
Carbon disulfide	ND	8,000						0	0	25	U
Carbon tetrachloride	ND	8,000						0	0	25	U
Chlorobenzene	ND	8,000						0	0	25	U
Chlorodibromomethane	ND	8,000						0	0	25	U
Chloroethane	ND	8,000						0	0	25	U
Chloroform	ND	8,000						0	0	25	U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1111437

Date Reported: 12/21/2011
Revision v1

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB **Batch ID:** R44310

Sample ID:	1111437-043Adup	Samp Type:	DUP	Test Code:	EPA_TO15	Units:	ppbv	Prep Date:		RunNo:	44310
Client ID:	VA0929	Batch ID:	R44310	TestNo:	TO-15			Analysis Date:	11/16/2011	SeqNo:	869484

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chloromethane	ND	8,000						0	0	25	U
cis-1,2-Dichloroethene	ND	8,000						0	0	25	U
cis-1,3-dichloropropene	ND	8,000						0	0	25	U
Cyclohexane	110,000	16,000						135,900	16.8	25	
Dichlorodifluoromethane	ND	8,000						0	0	25	U
Ethyl acetate	ND	8,000						0	0	25	U
Ethylbenzene	ND	16,000						0	0	25	U
Heptane	44,000	8,000						52,880	19.4	25	
Hexachlorobutadiene	ND	16,000						0	0	25	U
m,p-Xylene	ND	16,000						10,240	200	25	RU
Methylene chloride	ND	40,000						0	0	25	U
n-Hexane	130,000	16,000						145,400	13.9	25	
Naphthalene	ND	8,000						0	0	25	U
o-Xylene	ND	8,000						0	0	25	U
Propylene	ND	8,000						0	0	25	U
Styrene	ND	8,000						0	0	25	U
tert-Butyl Methyl Ether	ND	8,000						0	0	25	U
Tetrachloroethene	ND	8,000						0	0	25	U
Tetrahydrofuran	ND	8,000						0	0	25	U
Toluene	130,000	8,000						178,400	29.4	25	R
trans-1,2-Dichloroethene	ND	8,000						0	0	25	U
trans-1,3-dichloropropene	ND	8,000						0	0	25	U
Trichloroethene	ND	8,000						0	0	25	U
Trichlorofluoromethane	ND	8,000						0	0	25	U
Vinyl acetate	ND	8,000						0	0	25	U
Vinyl chloride	ND	8,000						0	0	25	U
Xylenes, Total	ND	24,000						10,240	200	25	RU
Surr: 4-Bromofluorobenzene	110,000		100,000		109	70	130		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1111437

Date Reported: 12/21/2011
Revision v1

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB **Batch ID:** R44334

Sample ID:	MBLK VOA1 111711	Samp Type:	MBLK	Test Code:	EPA_TO15	Units:	ppbv	Prep Date:		RunNo:	44334
Client ID:	PBW	Batch ID:	R44334	TestNo:	TO-15			Analysis Date:	11/17/2011	SeqNo:	869964

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	ND	1.0									U
1,1,2,2-Tetrachloroethane	ND	1.0									U
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0									U
1,1,2-Trichloroethane	ND	1.0									U
1,1-Dichloroethane	ND	1.0									U
1,1-Dichloroethene	ND	1.0									U
1,2,4-Trichlorobenzene	ND	1.0									U
1,2,4-Trimethylbenzene	ND	1.0									U
1,2-Dibromoethane	ND	1.0									U
1,2-Dichlorobenzene	ND	1.0									U
1,2-Dichloroethane	ND	1.0									U
1,2-Dichloropropane	ND	1.0									U
1,3,5-Trimethylbenzene	ND	1.0									U
1,3-Butadiene	ND	1.0									U
1,3-Dichlorobenzene	ND	1.0									U
1,4-Dichlorobenzene	ND	1.0									U
2-Butanone	ND	1.0									U
2-Hexanone	ND	1.0									U
4-Methyl-2-pentanone	ND	1.0									U
Acetone	ND	1.0									U
Benzene	ND	1.0									U
Benzyl chloride	ND	1.0									U
Bromodichloromethane	ND	1.0									U
Bromoform	ND	1.0									U
Bromomethane	ND	1.0									U
Carbon disulfide	ND	1.0									U
Carbon tetrachloride	ND	1.0									U
Chlorobenzene	ND	1.0									U
Chlorodibromomethane	ND	1.0									U
Chloroethane	ND	1.0									U
Chloroform	ND	1.0									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1111437

Date Reported: 12/21/2011
Revision v1

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB **Batch ID:** R44334

Sample ID:	MBLK VOA1 111711	Samp Type:	MBLK	Test Code:	EPA_TO15	Units:	ppbv	Prep Date:		RunNo:	44334
Client ID:	PBW	Batch ID:	R44334	TestNo:	TO-15			Analysis Date:	11/17/2011	SeqNo:	869964

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chloromethane	ND	1.0									U
cis-1,2-Dichloroethene	ND	1.0									U
cis-1,3-dichloropropene	ND	1.0									U
Cyclohexane	ND	2.0									U
Dichlorodifluoromethane	ND	1.0									U
Ethyl acetate	ND	1.0									U
Ethylbenzene	ND	2.0									U
Heptane	ND	1.0									U
Hexachlorobutadiene	ND	2.0									U
m,p-Xylene	ND	2.0									U
Methylene chloride	ND	5.0									U
n-Hexane	ND	2.0									U
Naphthalene	ND	1.0									U
o-Xylene	ND	1.0									U
Propylene	ND	1.0									U
Styrene	ND	1.0									U
tert-Butyl Methyl Ether	ND	1.0									U
Tetrachloroethene	ND	1.0									U
Tetrahydrofuran	ND	1.0									U
Toluene	ND	1.0									U
trans-1,2-Dichloroethene	ND	1.0									U
trans-1,3-dichloropropene	ND	1.0									U
Trichloroethene	ND	1.0									U
Trichlorofluoromethane	ND	1.0									U
Vinyl acetate	ND	1.0									U
Vinyl chloride	ND	1.0									U
Xylenes, Total	ND	3.0									U
Surr: 4-Bromofluorobenzene	14		12.50		114	70	130				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1111437

Date Reported: 12/21/2011
Revision v1

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB **Batch ID:** R44334

Sample ID:	1111437-011Adup	Samp Type:	DUP	Test Code:	EPA_TO15	Units:	ppbv	Prep Date:		RunNo:	44334
Client ID:	VA0728	Batch ID:	R44334	TestNo:	TO-15			Analysis Date:	11/18/2011	SeqNo:	869973

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	ND	8,000						0	0	25	U
1,1,2,2-Tetrachloroethane	ND	8,000						0	0	25	U
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	8,000						0	0	25	U
1,1,2-Trichloroethane	ND	8,000						0	0	25	U
1,1-Dichloroethane	ND	8,000						0	0	25	U
1,1-Dichloroethene	ND	8,000						0	0	25	U
1,2,4-Trichlorobenzene	ND	8,000						0	0	25	U
1,2,4-Trimethylbenzene	ND	8,000						0	0	25	U
1,2-Dibromoethane	ND	8,000						0	0	25	U
1,2-Dichlorobenzene	ND	8,000						0	0	25	U
1,2-Dichloroethane	ND	8,000						0	0	25	U
1,2-Dichloropropane	ND	8,000						0	0	25	U
1,3,5-Trimethylbenzene	ND	8,000						0	0	25	U
1,3-Butadiene	ND	8,000						0	0	25	U
1,3-Dichlorobenzene	ND	8,000						0	0	25	U
1,4-Dichlorobenzene	ND	8,000						0	0	25	U
2-Butanone	40,000	8,000						30,800	26.0	25	R
2-Hexanone	ND	8,000						0	0	25	U
4-Methyl-2-pentanone	ND	8,000						0	0	25	U
Acetone	150,000	8,000						115,700	23.4	25	
Benzene	76,000	8,000						60,240	22.9	25	
Benzyl chloride	ND	8,000						0	0	25	U
Bromodichloromethane	ND	8,000						0	0	25	U
Bromoform	ND	8,000						0	0	25	U
Bromomethane	ND	8,000						0	0	25	U
Carbon disulfide	ND	8,000						0	0	25	U
Carbon tetrachloride	ND	8,000						0	0	25	U
Chlorobenzene	ND	8,000						0	0	25	U
Chlorodibromomethane	ND	8,000						0	0	25	U
Chloroethane	ND	8,000						0	0	25	U
Chloroform	ND	8,000						0	0	25	U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1111437

Date Reported: 12/21/2011
Revision v1

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB **Batch ID:** R44334

Sample ID:	1111437-011Adup	Samp Type:	DUP	Test Code:	EPA_TO15	Units:	ppbv	Prep Date:		RunNo:	44334
Client ID:	VA0728	Batch ID:	R44334	TestNo:	TO-15			Analysis Date:	11/18/2011	SeqNo:	869973

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chloromethane	ND	8,000						0	0	25	U
cis-1,2-Dichloroethene	ND	8,000						0	0	25	U
cis-1,3-dichloropropene	ND	8,000						0	0	25	U
Cyclohexane	220,000	16,000						194,500	13.9	25	
Dichlorodifluoromethane	ND	8,000						0	0	25	U
Ethyl acetate	ND	8,000						0	0	25	U
Ethylbenzene	24,000	16,000						20,160	15.4	25	
Heptane	320,000	8,000						278,400	14.1	25	
Hexachlorobutadiene	ND	16,000						0	0	25	U
m,p-Xylene	88,000	16,000						75,840	15.4	25	
Methylene chloride	ND	40,000						0	0	25	U
n-Hexane	190,000	16,000						160,200	16.4	25	
Naphthalene	ND	8,000						0	0	25	U
o-Xylene	24,000	8,000						20,960	14.5	25	
Propylene	ND	8,000						0	0	25	U
Styrene	ND	8,000						0	0	25	U
tert-Butyl Methyl Ether	ND	8,000						0	0	25	U
Tetrachloroethene	ND	8,000						0	0	25	U
Tetrahydrofuran	ND	8,000						0	0	25	U
Toluene	400,000	8,000						335,400	18.6	25	
trans-1,2-Dichloroethene	ND	8,000						0	0	25	U
trans-1,3-dichloropropene	ND	8,000						0	0	25	U
Trichloroethene	ND	8,000						0	0	25	U
Trichlorofluoromethane	ND	8,000						0	0	25	U
Vinyl acetate	ND	8,000						0	0	25	U
Vinyl chloride	ND	8,000						0	0	25	U
Xylenes, Total	110,000	24,000						96,800	15.2	25	
Surr: 4-Bromofluorobenzene	100,000		100,000		102	70	130		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1111437

Date Reported: 12/21/2011
Revision v1

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB **Batch ID:** R44336

Sample ID:	BLK 111711 VOA9	Samp Type:	MBLK	Test Code:	MA_APH	Units:	µg/m³	Prep Date:		RunNo:	44336	
Client ID:	PBW	Batch ID:	R44336	TestNo:	MA_APH			Analysis Date:	11/17/2011	SeqNo:	870011	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
C5-C8 Aliphatic Hydrocarbons	ND	120									U
C9-C10 Aromatic Hydrocarbons	ND	130									U
C9-C12 Aliphatic Hydrocarbons	ND	190									U
Surr: 4-Bromofluorobenzene	87		89.50		97.2	70	130				

Sample ID:	1111437-016Adup	Samp Type:	DUP	Test Code:	MA_APH	Units:	µg/m³	Prep Date:		RunNo:	44336	
Client ID:	VA0733	Batch ID:	R44336	TestNo:	MA_APH			Analysis Date:	11/17/2011	SeqNo:	870014	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
C5-C8 Aliphatic Hydrocarbons	11,000,000	940,000						9,788,000	11.3	30	
C9-C10 Aromatic Hydrocarbons	ND	1,100,000						0	0	30	U
C9-C12 Aliphatic Hydrocarbons	ND	1,500,000						0	0	30	U
Surr: 4-Bromofluorobenzene	680,000		716,000		94.7	70	130		0	30	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1111437

Date Reported: 12/21/2011
Revision v1

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB **Batch ID:** R44470

Sample ID:	mblk	Samp Type:	MBLK	Test Code:	ASTM-D2504	Units:	%	Prep Date:		RunNo:	44470	
Client ID:	PBW	Batch ID:	R44470	TestNo:	ASTM-D2504			Analysis Date:	11/21/2011	SeqNo:	872694	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Carbon dioxide	ND	0.10									U
Carbon Monoxide	ND	0.10									U
Methane	ND	0.50									U
Nitrogen	ND	0.10									U
Oxygen	ND	0.10									U

Sample ID:	lcs	Samp Type:	LCS	Test Code:	ASTM-D2504	Units:	%	Prep Date:		RunNo:	44470	
Client ID:	LCSW	Batch ID:	R44470	TestNo:	ASTM-D2504			Analysis Date:	11/21/2011	SeqNo:	872696	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Carbon dioxide	2.6	0.10	2.500	0	103	70	130	2.620	2.20	0	
Carbon Monoxide	2.5	0.10	2.500	0	102	70	130	2.519	0.751	0	
Methane	2.0	0.50	2.000	0	97.8	70	130	1.936	1.03	0	
Nitrogen	2.9	0.10	2.500	0	116	70	130	2.842	2.23	0	
Oxygen	2.6	0.10	2.500	0	104	70	130	2.578	1.08	0	

Sample ID:	1111437-030bdup	Samp Type:	DUP	Test Code:	ASTM-D2504	Units:	%	Prep Date:		RunNo:	44470	
Client ID:	VA0809	Batch ID:	R44470	TestNo:	ASTM-D2504			Analysis Date:	11/21/2011	SeqNo:	872708	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Carbon dioxide	0.33	0.10						0.3410	4.19	20	
Carbon Monoxide	ND	0.10						0	0	20	U
Methane	ND	0.50						0	0	20	U
Nitrogen	80	0.10						80.50	0.282	20	
Oxygen	19	0.10						18.92	0.243	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1111437

Date Reported: 12/21/2011
Revision v1

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB **Batch ID:** R44471

Sample ID:	mblk	Samp Type:	MBLK	Test Code:	ASTM-D2504	Units:	%	Prep Date:		RunNo:	44471	
Client ID:	PBW	Batch ID:	R44471	TestNo:	ASTM-D2504			Analysis Date:	11/23/2011	SeqNo:	872737	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Carbon dioxide	ND	0.10									U
Carbon Monoxide	ND	0.10									U
Methane	ND	0.50									U
Nitrogen	ND	0.10									U
Oxygen	ND	0.10									U

Sample ID:	lcs	Samp Type:	LCS	Test Code:	ASTM-D2504	Units:	%	Prep Date:		RunNo:	44471	
Client ID:	LCSW	Batch ID:	R44471	TestNo:	ASTM-D2504			Analysis Date:	11/23/2011	SeqNo:	872739	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Carbon dioxide	2.1	0.10	2.500	0	84.8	70	130	2.129	0.424	0	
Carbon Monoxide	2.2	0.10	2.500	0	89.0	70	130	2.290	2.83	0	
Methane	1.8	0.50	2.000	0	89.5	70	130	1.710	4.57	0	
Nitrogen	2.9	0.10	2.500	0	116	70	130	2.774	4.51	0	
Oxygen	2.5	0.10	2.500	0	98.6	70	130	2.338	5.29	0	

Sample ID:	1111437-020adup	Samp Type:	DUP	Test Code:	ASTM-D2504	Units:	%	Prep Date:		RunNo:	44471	
Client ID:	VA0755	Batch ID:	R44471	TestNo:	ASTM-D2504			Analysis Date:	11/23/2011	SeqNo:	872765	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Carbon dioxide	0.50	0.10						0.5030	0.398	20	
Carbon Monoxide	ND	0.10						0	0	20	U
Methane	ND	0.50						0	0	20	U
Nitrogen	79	0.10						79.21	0.721	20	
Oxygen	20	0.10						20.42	1.07	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1111437

Date Reported: 12/21/2011
Revision v1

Client: Shaw Environmental & Infrastructure, Inc

Project: Kirtland AFB **Batch ID:** R44472

Sample ID:	mblk	Samp Type:	MBLK	Test Code:	ASTM-D2504	Units:	%	Prep Date:		RunNo:	44472	
Client ID:	PBW	Batch ID:	R44472	TestNo:	ASTM-D2504			Analysis Date:	11/22/2011	SeqNo:	872722	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Carbon dioxide	ND	0.10									U
Carbon Monoxide	ND	0.10									U
Methane	ND	0.50									U
Nitrogen	ND	0.10									U
Oxygen	ND	0.10									U

Sample ID:	lcs	Samp Type:	LCS	Test Code:	ASTM-D2504	Units:	%	Prep Date:		RunNo:	44472	
Client ID:	LCSW	Batch ID:	R44472	TestNo:	ASTM-D2504			Analysis Date:	11/22/2011	SeqNo:	872724	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Carbon dioxide	2.2	0.10	2.500	0	88.1	70	130	2.341	6.07	0	
Carbon Monoxide	2.3	0.10	2.500	0	91.6	70	130	2.374	3.56	0	
Methane	1.8	0.50	2.000	0	90.3	70	130	1.925	6.38	0	
Nitrogen	2.8	0.10	2.500	0	111	70	130	2.865	3.16	0	
Oxygen	2.4	0.10	2.500	0	96.3	70	130	2.526	4.78	0	

Sample ID:	1111437-012bdup	Samp Type:	DUP	Test Code:	ASTM-D2504	Units:	%	Prep Date:		RunNo:	44472	
Client ID:	VA0729	Batch ID:	R44472	TestNo:	ASTM-D2504			Analysis Date:	11/22/2011	SeqNo:	872734	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Carbon dioxide	11	0.10						11.07	0.426	20	
Carbon Monoxide	ND	0.10						0	0	20	U
Methane	ND	0.50						0	0	20	U
Nitrogen	82	0.10						82.78	0.438	20	
Oxygen	3.2	0.10						3.191	1.09	20	

RTI Laboratories

Run ID: VOA1_111114A **Run No.:** 44219

Analytical Run Date: 11/14/2011 **InstrumentID:** VOA1

Analyst: Rachel Hill **Column:**

Calibration ID: 44219 **Column ID:** 0.25mm, 1.4umFT

Column Length: 30m

SampID	TestCode	SampType	Batch ID	Analysis Date/Time	QA By	Q	Comments
BFB1 VOA1 111411	BFB_TUNE	TUNE	R44219	11/14/2011 9:13:00 AM	Charles O`Bryan		
1ppbv ICAL	EPA_TO15	ICAL	R44219	11/14/2011 12:26:00 PM	Charles O`Bryan		
10ppbv ICAL	EPA_TO15	ICAL	R44219	11/14/2011 2:38:00 PM	Charles O`Bryan		
12ppbv ICAL	EPA_TO15	ICAL	R44219	11/14/2011 3:19:00 PM	Charles O`Bryan		
15ppbv ICAL	EPA_TO15	ICAL	R44219	11/14/2011 4:01:00 PM	Charles O`Bryan		
20ppbv ICAL	EPA_TO15	ICAL	R44219	11/14/2011 4:43:00 PM	Charles O`Bryan		
30ppbv ICAL	EPA_TO15	ICAL	R44219	11/14/2011 5:27:00 PM	Charles O`Bryan		
50ppbv ICAL	EPA_TO15	ICAL	R44219	11/14/2011 6:11:00 PM	Charles O`Bryan		
BFB2 VOA2 111411	BFB_TUNE	TUNE	R44219	11/14/2011 6:52:00 PM	Charles O`Bryan		
ICV VOA1 111411	EPA_TO15	ICV	R44219	11/14/2011 7:33:00 PM	Charles O`Bryan		
RLVS1 VOA1 11141	EPA_TO15	RLVS	R44219	11/14/2011 8:16:00 PM	Charles O`Bryan		
BLK VOA1 111411	EPA_TO15	MBLK	R44219	11/14/2011 9:04:00 PM	Charles O`Bryan		
1111023-004A	EPA_TO15	SAMP	R44219	11/14/2011 10:26:00 PM	Charles O`Bryan		
1111023-006A	EPA_TO15	SAMP	R44219	11/14/2011 11:14:00 PM	Charles O`Bryan		
1111023-007A	EPA_TO15	SAMP	R44219	11/15/2011 12:02:00 AM	Charles O`Bryan		
1111023-008A	EPA_TO15	SAMP	R44219	11/15/2011 12:51:00 AM	Charles O`Bryan		
1111023-009A	EPA_TO15	SAMP	R44219	11/15/2011 1:35:00 AM	Charles O`Bryan		
1111437-044A	EPA_TO15	SAMP	R44219	11/15/2011 2:58:00 AM	Charles O`Bryan		
1111437-029A	EPA_TO15	SAMP	R44219	11/15/2011 3:40:00 AM	Charles O`Bryan		
1111437-030A	EPA_TO15	SAMP	R44219	11/15/2011 4:21:00 AM	Charles O`Bryan		
1111437-033A	EPA_TO15	SAMP	R44219	11/15/2011 5:45:00 AM	Charles O`Bryan		Over diluted sample. Re-analyzed at lower dilution later in run. Imported here to show that sample and duplicate were analyzed.
1111437-033Adup	EPA_TO15	DUP	R44219	11/15/2011 6:26:00 AM	Charles O`Bryan		
1111437-031A	EPA_TO15	SAMP	R44219	11/15/2011 9:12:00 AM	Charles O`Bryan		
1111437-033A	EPA_TO15	SAMP	R44219	11/15/2011 9:54:00 AM	Charles O`Bryan		
1111437-034A	EPA_TO15	SAMP	R44219	11/15/2011 11:23:00 AM	Charles O`Bryan		
1111023-019A	EPA_TO15	SAMP	R44219	11/15/2011 12:52:00 PM	Charles O`Bryan		
1111437-035A	EPA_TO15	SAMP	R44219	11/15/2011 1:34:00 PM	Charles O`Bryan		
1111437-036A	EPA_TO15	SAMP	R44219	11/15/2011 2:16:00 PM	Charles O`Bryan		
1111437-022A	EPA_TO15	SAMP	R44219	11/15/2011 3:46:00 PM	Charles O`Bryan		
1111437-023A	EPA_TO15	SAMP	R44219	11/15/2011 4:31:00 PM	Charles O`Bryan		
RLVS2 VOA1 11141	EPA_TO15	RLVS	R44219	11/15/2011 6:03:00 PM	Charles O`Bryan		

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
867653	ICV VOA1 111411	EPA_TO15	ICV	\1\DATA\11141111/14/2011 7:33:		1	R44219		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	10.54	10.54		9.6	0	0	0.107	1	0	110%	70	130	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	10.12	10.12		10	0	0	0.211	1	0	101%	70	130	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	10.77	10.77		9.8	0	0	0.108	1	0	110%	70	130	0%	
1,1,2-Trichloroethane	A	ppbv	9.8	9.8		9.8	0	0	0.2	1	0	100%	70	130	0%	
1,1-Dichloroethane	A	ppbv	10.27	10.27		9.7	0	0	0.111	1	0	106%	70	130	0%	
1,1-Dichloroethene	A	ppbv	10.74	10.74		9.9	0	0	0.097	1	0	108%	70	130	0%	
1,2,4-Trichlorobenzene	A	ppbv	9.21	9.21		9.1	0	0	0.271	1	0	101%	70	130	0%	
1,2,4-Trimethylbenzene	A	ppbv	9.63	9.63		9.8	0	0	0.245	1	0	98%	70	130	0%	
1,2-Dibromoethane	A	ppbv	9.81	9.81		9.6	0	0	0.186	1	0	102%	70	130	0%	
1,2-Dichlorobenzene	A	ppbv	10.08	10.08		9.7	0	0	0.208	1	0	104%	70	130	0%	
1,2-Dichloroethane	A	ppbv	10.05	10.05		9.7	0	0	0.196	1	0	104%	70	130	0%	
1,2-Dichloropropane	A	ppbv	9.85	9.85		9.8	0	0	0.224	1	0	101%	70	130	0%	
1,3,5-Trimethylbenzene	A	ppbv	9.43	9.43		9.7	0	0	0.24	1	0	97%	70	130	0%	
1,3-Butadiene	A	ppbv	11.11	11.11		9.8	0	0	0.152	1	0	113%	70	130	0%	
1,3-Dichlorobenzene	A	ppbv	9.9	9.9		9.7	0	0	0.202	1	0	102%	70	130	0%	
1,4-Dichlorobenzene	A	ppbv	9.85	9.85		9.6	0	0	0.194	1	0	103%	70	130	0%	
1,4-Dioxane	A	ppbv	10.36	10.36		9.6	0	0	0.128	1	0	108%	70	130	0%	
2-Butanone	A	ppbv	10.48	10.48		9.9	0	0	0.287	1	0	106%	70	130	0%	
2-Hexanone	A	ppbv	10.44	10.44		9.8	0	0	0.135	1	0	107%	70	130	0%	
2-Propanol	A	ppbv	10.99	10.99		10.1	0	0	0.329	1	0	109%	70	130	0%	
4-Methyl-2-pentanone	A	ppbv	10.45	10.45		10	0	0	0.157	1	0	105%	70	130	0%	
Acetone	A	ppbv	10.49	10.49		10	0	0	0.43	1	0	105%	70	130	0%	
Benzene	A	ppbv	10.02	10.02		9.6	0	0	0.126	1	0	104%	70	130	0%	
Benzyl chloride	A	ppbv	10.62	10.62		9.7	0	0	0.155	1	0	109%	70	130	0%	
Bromodichloromethane	A	ppbv	9.8	9.8		9.6	0	0	0.156	1	0	102%	70	130	0%	
Bromoform	A	ppbv	10.01	10.01		9.6	0	0	0.197	1	0	104%	70	130	0%	
Bromomethane	A	ppbv	10.03	10.03		9.3	0	0	0.075	1	0	108%	70	130	0%	
Carbon disulfide	A	ppbv	10.59	10.59		9.7	0	0	0.093	1	0	109%	70	130	0%	
Carbon tetrachloride	A	ppbv	10.17	10.17		9.5	0	0	0.114	1	0	107%	70	130	0%	
Chlorobenzene	A	ppbv	10.03	10.03		9.9	0	0	0.275	1	0	101%	70	130	0%	
Chlorodibromomethane	A	ppbv	9.96	9.96		9.2	0	0	0.165	1	0	108%	70	130	0%	
Chloroethane	A	ppbv	9.9	9.9		9.8	0	0	0.063	1	0	101%	70	130	0%	
Chloroform	A	ppbv	10.63	10.63		9.4	0	0	0.126	1	0	113%	70	130	0%	
Chloromethane	A	ppbv	9.95	9.95		9.8	0	0	0.104	1	0	102%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
867653	ICV VOA1 111411	EPA_TO15	ICV	\\1\DATA\11141111/14/2011 7:33:		1	R44219		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
cis-1,2-Dichloroethene	A	ppbv	10.27	10.27		9.8	0	0	0.107	1	0	105%	70	130	0%	
cis-1,3-dichloropropene	A	ppbv	9.62	9.62		9.5	0	0	0.166	1	0	101%	70	130	0%	
Cyclohexane	A	ppbv	10.83	10.83		9.8	0	0	0.684	2	0	111%	70	130	0%	
Dichlorodifluoromethane	A	ppbv	9.9	9.9		9.2	0	0	0.086	1	0	108%	70	130	0%	
Ethanol	A	ppbv	9.81	9.81		9.2	0	0	1.962	5	0	107%	70	130	0%	
Ethyl acetate	A	ppbv	10.64	10.64		9.8	0	0	0.157	1	0	109%	70	130	0%	
Ethylbenzene	A	ppbv	9.99	9.99		9.8	0	0	0.737	2	0	102%	70	130	0%	
Heptane	A	ppbv	10.54	10.54		9.9	0	0	0.249	1	0	106%	70	130	0%	
Hexachlorobutadiene	A	ppbv	10.13	10.13		9.4	0	0	0.374	2	0	108%	70	130	0%	
m,p-Xylene	A	ppbv	20.46	20.46		19.2	0	0	0.524	2	0	107%	70	130	0%	
Methylene chloride	A	ppbv	10.6	10.6		10	0	0	2.077	5	0	106%	70	130	0%	
n-Hexane	A	ppbv	10.77	10.77		10.1	0	0	0.692	2	0	107%	70	130	0%	
Naphthalene	A	ppbv	9.55	9.55		9.2	0	0	0.247	1	0	104%	70	130	0%	
o-Xylene	A	ppbv	10.11	10.11		10	0	0	0.258	1	0	101%	70	130	0%	
Propylene	A	ppbv	10.66	10.66		10.2	0	0	0.075	1	0	105%	70	130	0%	
Styrene	A	ppbv	9.94	9.94		9.8	0	0	0.263	1	0	101%	70	130	0%	
tert-Butyl Methyl Ether	A	ppbv	10.18	10.18		9.9	0	0	0.228	1	0	103%	70	130	0%	
Tetrachloroethene	A	ppbv	10.12	10.12		9.6	0	0	0.148	1	0	105%	70	130	0%	
Tetrahydrofuran	A	ppbv	10.66	10.66		10	0	0	0.201	1	0	107%	70	130	0%	
Toluene	A	ppbv	9.97	9.97		9.8	0	0	0.158	1	0	102%	70	130	0%	
trans-1,2-Dichloroethene	A	ppbv	10.45	10.45		9.8	0	0	0.117	1	0	107%	70	130	0%	
trans-1,3-dichloropropene	A	ppbv	9.3	9.3		9.1	0	0	0.171	1	0	102%	70	130	0%	
Trichloroethene	A	ppbv	9.87	9.87		9.6	0	0	0.119	1	0	103%	70	130	0%	
Trichlorofluoromethane	A	ppbv	10.42	10.42		9.6	0	0	0.148	1	0	109%	70	130	0%	
Vinyl acetate	A	ppbv	10.57	10.57		9.9	0	0	0.266	1	0	107%	70	130	0%	
Vinyl chloride	A	ppbv	11.29	11.29		9.4	0	0	0.072	1	0	120%	70	130	0%	
Xylenes, Total	C	ppbv	30.57	30.57		29.2	0	0	0.782	3	0	105%	70	130	0%	
1,4-Difluorobenzene	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%			0%	
Bromochloromethane	I	ppbv	12.5	12.5		1.25	0	0	0	0	0	1000%			0%	
Chlorobenzene-d5	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%			0%	
4-Bromofluorobenzene	S	ppbv	12.93	12.93		12.5	0	0	0	0	0	103%	70	130	0%	

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\111411\11141114.D Vial: 3
Acq On : 14 Nov 2011 7:33 pm Operator: RACHEL HILL
Sample : ICV VOA1 111411 Inst : VOA 1
Misc : ICV EPA TO15 Multiplr: 1.00
MS Integration Params: CLME.P

Method : C:\HPCHEM\1\METHODS\111411V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Nov 15 09:19:29 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	117	0.00
2	T	Propylene	1.331	1.392	-4.6	110	0.00
3	T	Dichlorodifluoromethane	3.270	3.520	-7.6	113	0.00
4	T	1,2-Dichloro-1,2,2,2-tetraf	2.263	2.424	-7.1	113	0.00
5	T	Chloromethane	1.358	1.422	-4.7	104	0.00
6	T	Vinyl chloride	1.527	1.834	-20.1	114	0.00
7	T	1,3-Butadiene	1.250	1.418	-13.4	111	0.00
8	T	Bromomethane	1.280	1.380	-7.8	113	0.00
9	T	Chloroethane	0.801	0.863	-7.7	112	0.00
10	T	Trichlorofluoromethane	2.951	3.203	-8.5	113	0.00
11	T	Ethanol	0.333	0.355	-6.6	106	0.00
12	T	Freon113	2.389	2.626	-9.9	110	0.00
13	T	1,1-Dichloroethene	2.004	2.174	-8.5	109	0.00
14	T	Acetone	1.748	1.833	-4.9	99	0.00
15	T	Carbon disulfide	3.496	3.816	-9.2	112	0.00
16	T	2-Propanol	1.650	1.795	-8.8	105	0.00
17	T	Methylene chloride	1.508	1.598	-6.0	104	0.00
18	T	tert-Butyl Methyl Ether	2.377	2.445	-2.9	100	0.00
19	T	trans-1,2-Dichloroethene	1.835	1.957	-6.6	105	0.00
20	T	n-Hexane	2.034	2.169	-6.6	106	0.00
21	T	1,1-Dichloroethane	2.165	2.294	-6.0	105	0.00
22	T	Vinyl acetate	2.638	2.817	-6.8	99	0.00
23	T	cis-1,2-Dichloroethene	1.145	1.200	-4.8	106	0.00
24	T	2-Butanone	1.787	1.892	-5.9	107	0.00
25	T	Ethyl acetate	2.316	2.514	-8.5	103	0.00
26	T	Tetrahydrofuran	1.161	1.238	-6.6	101	0.00
27	T	Chloroform	2.234	2.422	-8.4	107	0.00
28	T	1,1,1-Trichloroethane	2.116	2.323	-9.8	107	0.00
29	T	Cyclohexane	2.029	2.242	-10.5	105	0.00
30	T	Carbon tetrachloride	1.957	2.094	-7.0	107	0.00
31	T	Benzene	2.753	2.872	-4.3	102	0.00
32	T	1,2-Dichloroethane	1.204	1.248	-3.7	101	0.00
33	I	1,4-Difluorobenzene	1.000	1.000	0.0	121	0.00
34	T	Heptane	0.773	0.823	-6.5	105	0.00
35	T	Trichloroethene	0.423	0.435	-2.8	107	0.00
36	T	1,2-Dichloropropane	0.328	0.330	-0.6	102	0.00
37	T	1,4-Dioxane	0.127	0.137	-7.9	107	0.00
38	T	Bromodichloromethane	0.623	0.637	-2.2	105	0.00
39	T	cis-1,3-Dichloropropene	0.490	0.496	-1.2	104	0.00
40	T	4-Methyl-2-pentanone	0.228	0.238	-4.4	104	0.00
41	T	Toluene	0.874	0.889	-1.7	105	0.00
42	T	trans-1,3-Dichloropropene	0.424	0.434	-2.4	105	0.00
43	T	1,1,2-Trichloroethane	0.305	0.305	0.0	106	0.00
44	T	Tetrachloroethene	0.468	0.493	-5.3	110	0.00
45	T	2-Hexanone	0.482	0.513	-6.4	105	0.00
46	T	Chlorodibromomethane	0.468	0.475	-1.5	107	0.00
47	T	1,2-Dibromoethane	0.437	0.446	-2.1	107	0.00
48	I	Chlorobenzene-d5	1.000	1.000	0.0	121	0.00
49	T	Chlorobenzene	0.842	0.853	-1.3	107	0.00
50	T	Ethylbenzene	1.408	1.435	-1.9	106	0.00
51	T	m,p-Xylene	1.103	1.175	-6.5	108	0.00
52	T	o-Xylene	1.040	1.051	-1.1	107	0.00
53	T	Styrene	0.729	0.739	-1.4	109	0.00
54	T	Bromoform	0.550	0.573	-4.2	110	0.00
55	S	4-Bromofluorobenzene	0.579	0.599	-3.5	122	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\111411\11141114.D Vial: 3
Acq On : 14 Nov 2011 7:33 pm Operator: RACHEL HILL
Sample : ICV VOA1 111411 Inst : VOA 1
Misc : ICV EPA TO15 Multiplr: 1.00
MS Integration Params: CLME.P

Method : C:\HPCHEM\1\METHODS\111411V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Nov 15 09:19:29 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
56	T	1,1,2,2-Tetrachloroethane	0.799	0.809	-1.3	107	0.00
57	T	4-Ethyltoluene	1.239	1.227	1.0	108	0.00
58	T	1,3,5-Trimethylbenzene	1.028	0.999	2.8	107	0.00
59	T	1,2,4-Trimethylbenzene	0.961	0.945	1.7	108	0.00
60	T	1,3-Dichlorobenzene	0.616	0.629	-2.1	109	0.00
61	T	1,4-Dichlorobenzene	0.577	0.592	-2.6	108	0.00
62	T	Benzyl chloride	0.740	0.810	-9.5	108	0.00
63	T	1,2-Dichlorobenzene	0.557	0.579	-3.9	109	0.00
64	T	1,2,4-Trichlorobenzene	0.122	0.124	-1.6	104	0.00
65	T	Hexachlorobutadiene	0.274	0.295	-7.7	109	0.00
66		Naphthalene	0.207	0.215	-3.9	106	0.00

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\111411\11141114.D Vial: 3
Acq On : 14 Nov 2011 7:33 pm Operator: RACHEL HILL
Sample : ICV VOA1 111411 Inst : VOA 1
Misc : ICV EPA TO15 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Nov 15 9:20 2011 Quant Results File: 111411V1.RES

Quant Method : C:\HPCHEM\1\METHODS\111411V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Nov 15 09:19:29 2011
Response via : Initial Calibration
DataAcq Meth : 110811V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.59	130	588321	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.69	114	1940680	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.54	117	1288203	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.19	95	771469	12.93	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 103.44%				
Target Compounds							Qvalue
2) Propylene	5.51	41	668224	10.66	ppbv		99
3) Dichlorodifluoromethane	5.58	85	1524295	9.90	ppbv		99
4) 1,2-Dichloro-1,2,2,2-tetra	5.83	135	1083734	10.18	ppbv	#	74
5) Chloromethane	5.99	50	635615	9.95	ppbv		99
6) Vinyl chloride	6.20	62	811439	11.29	ppbv		99
7) 1,3-Butadiene	6.26	39	653848	11.11	ppbv		93
8) Bromomethane	6.85	94	604029	10.03	ppbv		99
9) Chloroethane	7.00	64	373560	9.90	ppbv		98
10) Trichlorofluoromethane	7.33	101	1447001	10.42	ppbv		98
11) Ethanol	7.56	45	153734	9.81	ppbv		99
12) Freon113	7.99	101	1211118	10.77	ppbv		90
13) 1,1-Dichloroethene	8.09	61	1012947	10.74	ppbv		91
14) Acetone	8.18	43	862834	10.49	ppbv		95
15) Carbon disulfide	8.46	76	1742236	10.59	ppbv	#	100
16) 2-Propanol	8.22	45	853469	10.99	ppbv	#	79
17) Methylene chloride	8.75	49	752205	10.60	ppbv	#	83
18) tert-Butyl Methyl Ether	8.95	73	1139283	10.18	ppbv	#	90
19) trans-1,2-Dichloroethene	9.03	61	902549	10.45	ppbv		87
20) n-Hexane	9.22	57	1030951	10.77	ppbv		93
21) 1,1-Dichloroethane	9.60	63	1047127	10.27	ppbv		98
22) Vinyl acetate	9.53	43	1312365	10.57	ppbv	#	96
23) cis-1,2-Dichloroethene	10.28	96	553489	10.27	ppbv		88
24) 2-Butanone	10.24	43	881486	10.48	ppbv	#	90
25) Ethyl acetate	10.20	43	1159526	10.64	ppbv	#	100
26) Tetrahydrofuran	10.58	42	582550	10.66	ppbv		90
27) Chloroform	10.60	83	1117156	10.63	ppbv		99
28) 1,1,1-Trichloroethane	10.85	97	1049773	10.54	ppbv		96
29) Cyclohexane	10.86	56	1034235	10.83	ppbv		89
30) Carbon tetrachloride	11.01	117	936441	10.17	ppbv		98
31) Benzene	11.30	78	1297734	10.02	ppbv		96
32) 1,2-Dichloroethane	11.37	62	569572	10.05	ppbv		98
34) Heptane	11.35	43	1265045	10.54	ppbv	#	90
35) Trichloroethene	12.03	130	648559	9.87	ppbv		93
36) 1,2-Dichloropropane	12.38	63	501532	9.85	ppbv		96
37) 1,4-Dioxane	12.46	88	204193	10.36	ppbv	#	87
38) Bromodichloromethane	12.67	83	948847	9.80	ppbv		99
39) cis-1,3-Dichloropropene	13.22	75	730896	9.62	ppbv		97
40) 4-Methyl-2-pentanone	13.33	58	369906	10.45	ppbv	#	92
41) Toluene	13.63	91	1352712	9.97	ppbv		97
42) trans-1,3-Dichloropropene	13.93	75	612633	9.30	ppbv		96
43) 1,1,2-Trichloroethane	14.20	97	464446	9.80	ppbv		97
44) Tetrachloroethene	14.33	166	734992	10.12	ppbv		98
45) 2-Hexanone	14.41	43	780445	10.44	ppbv		95
46) Chlorodibromomethane	14.75	129	722886	9.96	ppbv		98
47) 1,2-Dibromoethane	14.99	107	665480	9.81	ppbv		99
49) Chlorobenzene	15.58	112	870400	10.03	ppbv	#	89
50) Ethylbenzene	15.63	91	1449221	9.99	ppbv		92
51) m,p-Xylene	15.78	91	2324755	20.46	ppbv		92
52) o-Xylene	16.37	91	1083585	10.11	ppbv	#	90

(#) = qualifier out of range (m) = manual integration
11141114.D 111411V1.M Thu Nov 17 13:24:54 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\111411\11141114.D Vial: 3
Acq On : 14 Nov 2011 7:33 pm Operator: RACHEL HILL
Sample : ICV VOA1 111411 Inst : VOA 1
Misc : ICV EPA TO15 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Nov 15 9:20 2011 Quant Results File: 111411V1.RES

Quant Method : C:\HPCHEM\1\METHODS\111411V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Nov 15 09:19:29 2011
Response via : Initial Calibration
DataAcq Meth : 110811V1

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
53) Styrene	16.40	104	746768	9.94	ppbv		98
54) Bromoform	16.78	173	567338	10.01	ppbv	#	98
56) 1,1,2,2-Tetrachloroethane	17.36	83	833892	10.12	ppbv	#	98
57) 4-Ethyltoluene	17.60	105	1239067	9.71	ppbv		96
58) 1,3,5-Trimethylbenzene	17.68	105	998800	9.43	ppbv		97
59) 1,2,4-Trimethylbenzene	18.27	105	953923	9.63	ppbv		97
60) 1,3-Dichlorobenzene	18.82	146	628837	9.90	ppbv		98
61) 1,4-Dichlorobenzene	18.97	146	585946	9.85	ppbv		98
62) Benzyl chloride	19.18	91	809413	10.62	ppbv		97
63) 1,2-Dichlorobenzene	19.61	146	579114	10.08	ppbv		98
64) 1,2,4-Trichlorobenzene	22.77	180	115856	9.21	ppbv		97
65) Hexachlorobutadiene	22.97	225	286088	10.13	ppbv		99
66) Naphthalene	23.45	128	203552	9.55	ppbv		99

(#) = qualifier out of range (m) = manual integration
11141114.D 111411V1.M Thu Nov 17 13:24:54 2011 Page 2

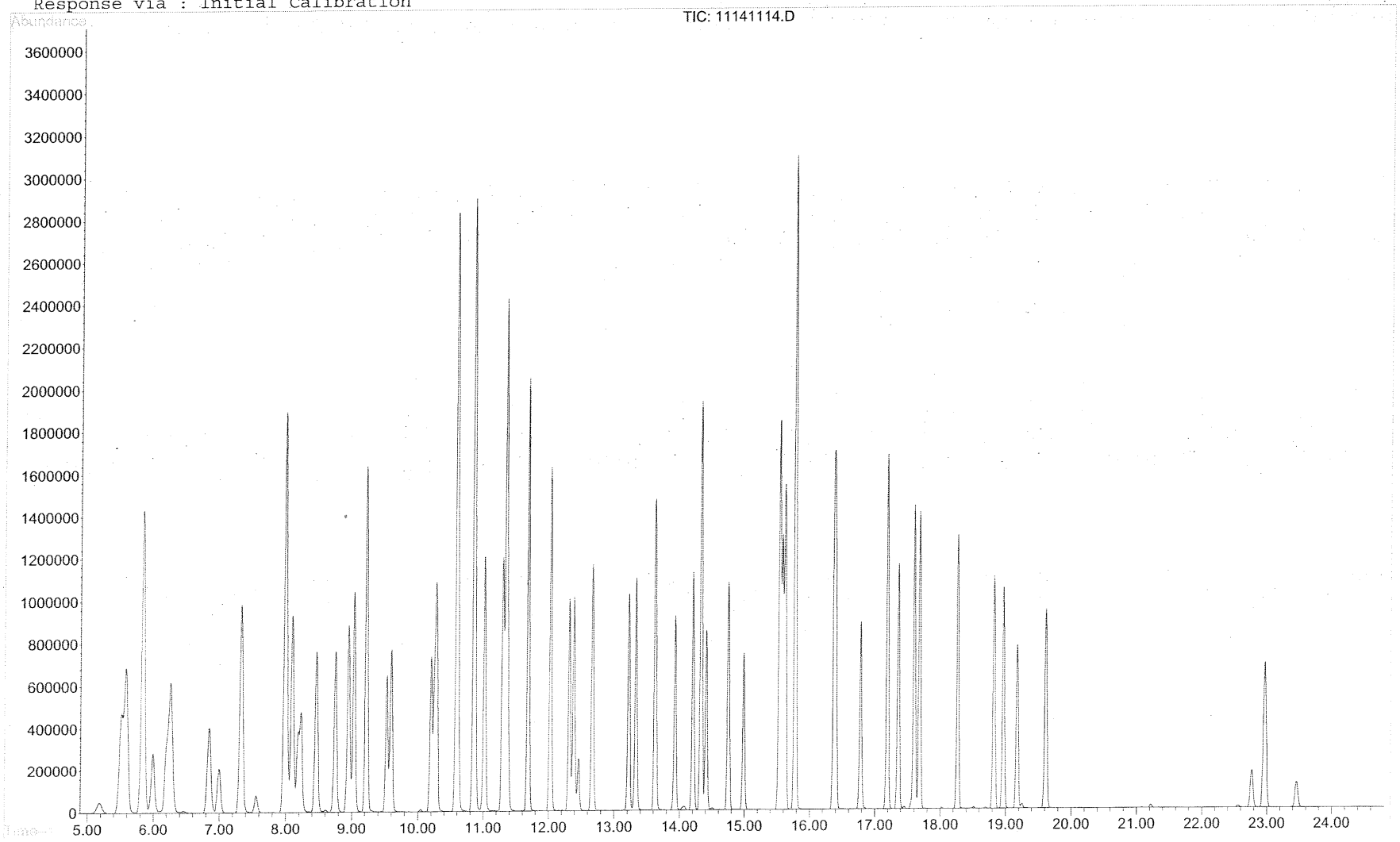
Quantitation Report

Data File : C:\HPCHEM\1\DATA\111411\11141114.D
Acq On : 14 Nov 2011 7:33 pm
Sample : ICV VOA1 111411
Misc : ICV EPA TO15
MS Integration Params: CLME.P
Quant Time: Nov 15 9:20 2011

Vial: 3
Operator: RACHEL HILL
Inst : VOA 1
Multiplr: 1.00

Quant Results File: 111411V1.RES

Method : C:\HPCHEM\1\METHODS\111411V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Nov 15 09:19:29 2011
Response via : Initial Calibration



RTI Laboratories

Run ID: VOA1_111116A **Run No.:** 44310

Analytical Run Date: 11/16/2011 **InstrumentID:** VOA1

Analyst: Rachel Hill **Column:**

Calibration ID: 44219 **Column ID:** 0.25mm, 1.4umFT

Column Length: 30m

SampID	TestCode	SampType	Batch ID	Analysis Date/Time	QA By	Q	Comments
BFB1 VOA1 111611	BFB_TUNE	TUNE	R44310	11/16/2011 9:56:00 AM	Robert Lynch		
CCV VOA1 111611	EPA_TO15	CCV	R44310	11/16/2011 12:13:00 PM	Robert Lynch		
RLVS1 VOA1 11161	EPA_TO15	RLVS	R44310	11/16/2011 12:56:00 PM	Robert Lynch		
BLK VOA1 111611	EPA_TO15	MBLK	R44310	11/16/2011 1:44:00 PM	Charles O`Bryan		
1111437-021A	EPA_TO15	SAMP	R44310	11/16/2011 2:29:00 PM	Charles O`Bryan		
1111437-024A	EPA_TO15	SAMP	R44310	11/16/2011 3:10:00 PM	Charles O`Bryan		
1111437-025A	EPA_TO15	SAMP	R44310	11/16/2011 3:58:00 PM	Charles O`Bryan		
1111437-026A	EPA_TO15	SAMP	R44310	11/16/2011 4:47:00 PM	Charles O`Bryan		
1111437-027A	EPA_TO15	SAMP	R44310	11/16/2011 5:38:00 PM	Charles O`Bryan		
1111437-028A	EPA_TO15	SAMP	R44310	11/16/2011 6:19:00 PM	Charles O`Bryan		
1111437-038A	EPA_TO15	SAMP	R44310	11/16/2011 7:06:00 PM	Charles O`Bryan		
1111437-039A	EPA_TO15	SAMP	R44310	11/16/2011 7:53:00 PM	Charles O`Bryan		
1111437-040A	EPA_TO15	SAMP	R44310	11/16/2011 8:33:00 PM	Charles O`Bryan		
1111437-042A	EPA_TO15	SAMP	R44310	11/16/2011 9:58:00 PM	Charles O`Bryan		
1111437-043A	EPA_TO15	SAMP	R44310	11/16/2011 10:39:00 PM	Charles O`Bryan		
1111437-043Adup	EPA_TO15	DUP	R44310	11/16/2011 11:19:00 PM	Charles O`Bryan		
1111437-036A	EPA_TO15	SAMP	R44310	11/17/2011 12:03:00 AM	Charles O`Bryan		
1111437-037A	EPA_TO15	SAMP	R44310	11/17/2011 12:44:00 AM	Charles O`Bryan		
1111437-004A	EPA_TO15	SAMP	R44310	11/17/2011 1:25:00 AM	Charles O`Bryan		
1111437-005A	EPA_TO15	SAMP	R44310	11/17/2011 2:09:00 AM	Charles O`Bryan		
1111437-006A	EPA_TO15	SAMP	R44310	11/17/2011 2:53:00 AM	Charles O`Bryan		
1111437-007A	EPA_TO15	SAMP	R44310	11/17/2011 3:37:00 AM	Charles O`Bryan		
1111437-017A	EPA_TO15	SAMP	R44310	11/17/2011 4:25:00 AM	Charles O`Bryan		
RLVS2 VOA1 11161	EPA_TO15	RLVS	R44310	11/17/2011 8:26:00 AM	Robert Lynch		

RTI Laboratories

ANALYTICAL RUN Summary

22-Dec-11

RunNo 44310

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
869465	BFB1 VOA1 111611	BFB_TUNE	TUNE	\1\DATA\111611\11/16/2011 9:56:		1	R44310		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
173	M		0.6	0.6		100	0	0	0	0	0	1%	0	2	0%	
174	M		67.5	67.5		100	0	0	0	0	0	68%	50	120	0%	
175	M		8.1	8.1		100	0	0	0	0	0	8%	4	9	0%	
176	M		97.6	97.6		100	0	0	0	0	0	98%	93	101	0%	
177	M		8	8		100	0	0	0	0	0	8%	5	9	0%	
50	M		25.6	25.6		100	0	0	0	0	0	26%	8	40	0%	
75	M		49.4	49.4		100	0	0	0	0	0	49%	30	66	0%	
95	M		100	100		100	0	0	0	0	0	100%	100	100	0%	
96	M		7.5	7.5		100	0	0	0	0	0	8%	5	9	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
869466	CCV VOA1 111611	EPA_TO15	CCV	\1\DATA\111611\11/16/2011 12:1		1	R44310		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	10.06	10.06		9.6	0	0	0.107	1	0	105%	70	130	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	10.45	10.45		10	0	0	0.211	1	0	105%	70	130	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	10.71	10.71		9.8	0	0	0.108	1	0	109%	70	130	0%	
1,1,2-Trichloroethane	A	ppbv	9.45	9.45		9.8	0	0	0.2	1	0	96%	70	130	0%	
1,1-Dichloroethane	A	ppbv	10.15	10.15		9.7	0	0	0.111	1	0	105%	70	130	0%	
1,1-Dichloroethene	A	ppbv	11.11	11.11		9.9	0	0	0.097	1	0	112%	70	130	0%	
1,2,4-Trichlorobenzene	A	ppbv	8.67	8.67		9.1	0	0	0.271	1	0	95%	70	130	0%	
1,2,4-Trimethylbenzene	A	ppbv	10.08	10.08		9.8	0	0	0.245	1	0	103%	70	130	0%	
1,2-Dibromoethane	A	ppbv	9.33	9.33		9.6	0	0	0.186	1	0	97%	70	130	0%	
1,2-Dichlorobenzene	A	ppbv	10.3	10.3		9.7	0	0	0.208	1	0	106%	70	130	0%	
1,2-Dichloroethane	A	ppbv	9.52	9.52		9.7	0	0	0.196	1	0	98%	70	130	0%	
1,2-Dichloropropane	A	ppbv	9.4	9.4		9.8	0	0	0.224	1	0	96%	70	130	0%	
1,3,5-Trimethylbenzene	A	ppbv	9.86	9.86		9.7	0	0	0.24	1	0	102%	70	130	0%	
1,3-Butadiene	A	ppbv	11.67	11.67		9.8	0	0	0.152	1	0	119%	70	130	0%	
1,3-Dichlorobenzene	A	ppbv	9.98	9.98		9.7	0	0	0.202	1	0	103%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
869466	CCV VOA1 111611	EPA_TO15	CCV	.\1\DATA\111611\11/16/2011 12:1		1	R44310		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,4-Dichlorobenzene	A	ppbv	9.91	9.91		9.6	0	0	0.194	1	0	103%	70	130	0%	
1,4-Dioxane	A	ppbv	9.86	9.86		9.6	0	0	0.128	1	0	103%	70	130	0%	
2-Butanone	A	ppbv	9.85	9.85		9.9	0	0	0.287	1	0	99%	70	130	0%	
2-Hexanone	A	ppbv	10.03	10.03		9.8	0	0	0.135	1	0	102%	70	130	0%	
2-Propanol	A	ppbv	11.34	11.34		10.1	0	0	0.329	1	0	112%	70	130	0%	
4-Methyl-2-pentanone	A	ppbv	10.27	10.27		10	0	0	0.157	1	0	103%	70	130	0%	
Acetone	A	ppbv	9.93	9.93		10	0	0	0.43	1	0	99%	70	130	0%	
Benzene	A	ppbv	9.72	9.72		9.6	0	0	0.126	1	0	101%	70	130	0%	
Benzyl chloride	A	ppbv	10.56	10.56		9.7	0	0	0.155	1	0	109%	70	130	0%	
Bromodichloromethane	A	ppbv	9.15	9.15		9.6	0	0	0.156	1	0	95%	70	130	0%	
Bromoform	A	ppbv	9.57	9.57		9.6	0	0	0.197	1	0	100%	70	130	0%	
Bromomethane	A	ppbv	10.49	10.49		9.3	0	0	0.075	1	0	113%	70	130	0%	
Carbon disulfide	A	ppbv	11.11	11.11		9.7	0	0	0.093	1	0	115%	70	130	0%	
Carbon tetrachloride	A	ppbv	9.78	9.78		9.5	0	0	0.114	1	0	103%	70	130	0%	
Chlorobenzene	A	ppbv	9.64	9.64		9.9	0	0	0.275	1	0	97%	70	130	0%	
Chlorodibromomethane	A	ppbv	9.36	9.36		9.2	0	0	0.165	1	0	102%	70	130	0%	
Chloroethane	A	ppbv	10.38	10.38		9.8	0	0	0.063	1	0	106%	70	130	0%	
Chloroform	A	ppbv	10.24	10.24		9.4	0	0	0.126	1	0	109%	70	130	0%	
Chloromethane	A	ppbv	10.66	10.66		9.8	0	0	0.104	1	0	109%	70	130	0%	
cis-1,2-Dichloroethene	A	ppbv	10.18	10.18		9.8	0	0	0.107	1	0	104%	70	130	0%	
cis-1,3-dichloropropene	A	ppbv	9.19	9.19		9.5	0	0	0.166	1	0	97%	70	130	0%	
Cyclohexane	A	ppbv	10.66	10.66		9.8	0	0	0.684	2	0	109%	70	130	0%	
Dichlorodifluoromethane	A	ppbv	10.25	10.25		9.2	0	0	0.086	1	0	111%	70	130	0%	
Ethanol	A	ppbv	10.02	10.02		9.2	0	0	1.962	5	0	109%	70	130	0%	
Ethyl acetate	A	ppbv	9.88	9.88		9.8	0	0	0.157	1	0	101%	70	130	0%	
Ethylbenzene	A	ppbv	9.82	9.82		9.8	0	0	0.737	2	0	100%	70	130	0%	
Heptane	A	ppbv	10.32	10.32		9.9	0	0	0.249	1	0	104%	70	130	0%	
Hexachlorobutadiene	A	ppbv	9.25	9.25		9.4	0	0	0.374	2	0	98%	70	130	0%	
m,p-Xylene	A	ppbv	19.66	19.66		19.2	0	0	0.524	2	0	102%	70	130	0%	
Methylene chloride	A	ppbv	10.67	10.67		10	0	0	2.077	5	0	107%	70	130	0%	
n-Hexane	A	ppbv	10.71	10.71		10.1	0	0	0.692	2	0	106%	70	130	0%	
Naphthalene	A	ppbv	8.89	8.89		9.2	0	0	0.247	1	0	97%	70	130	0%	
o-Xylene	A	ppbv	9.9	9.9		10	0	0	0.258	1	0	99%	70	130	0%	
Propylene	A	ppbv	11.25	11.25		10.2	0	0	0.075	1	0	110%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
869466	CCV VOA1 111611	EPA_TO15	CCV	\1\DATA\111611	11/16/2011 12:1	1	R44310		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Styrene	A	ppbv	9.78	9.78		9.8	0	0	0.263	1	0	100%	70	130	0%	
tert-Butyl Methyl Ether	A	ppbv	9.51	9.51		9.9	0	0	0.228	1	0	96%	70	130	0%	
Tetrachloroethene	A	ppbv	9.59	9.59		9.6	0	0	0.148	1	0	100%	70	130	0%	
Tetrahydrofuran	A	ppbv	10.19	10.19		10	0	0	0.201	1	0	102%	70	130	0%	
Toluene	A	ppbv	9.61	9.61		9.8	0	0	0.158	1	0	98%	70	130	0%	
trans-1,2-Dichloroethene	A	ppbv	10.37	10.37		9.8	0	0	0.117	1	0	106%	70	130	0%	
trans-1,3-dichloropropene	A	ppbv	8.78	8.78		9.1	0	0	0.171	1	0	96%	70	130	0%	
Trichloroethene	A	ppbv	9.47	9.47		9.6	0	0	0.119	1	0	99%	70	130	0%	
Trichlorofluoromethane	A	ppbv	10.57	10.57		9.6	0	0	0.148	1	0	110%	70	130	0%	
Vinyl acetate	A	ppbv	9.97	9.97		9.9	0	0	0.266	1	0	101%	70	130	0%	
Vinyl chloride	A	ppbv	11.51	11.51		9.4	0	0	0.072	1	0	122%	70	130	0%	
Xylenes, Total	C	ppbv	29.56	29.56		29.2	0	0	0.782	3	0	101%	70	130	0%	
1,4-Difluorobenzene	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%			0%	
Bromochloromethane	I	ppbv	12.5	12.5		1.25	0	0	0	0	0	1000%			0%	
Chlorobenzene-d5	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%			0%	
4-Bromofluorobenzene	S	ppbv	12.68	12.68		12.5	0	0	0	0	0	101%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
869467	RLVS1 VOA1 11161	EPA_TO15	RLVS	\1\DATA\111611	11/16/2011 12:5	1	R44310		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	0.98	0.98		0.996	0	0	0.107	1	0	98%	70	130	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	1.32	1.32		1	0	0	0.211	1	0	132%	70	130	0%	S
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	0.96	0.96		0.98	0	0	0.108	1	0	98%	70	130	0%	
1,1,2-Trichloroethane	A	ppbv	1.02	1.02		0.98	0	0	0.2	1	0	104%	70	130	0%	
1,1-Dichloroethane	A	ppbv	1.07	1.07		0.97	0	0	0.111	1	0	110%	70	130	0%	
1,1-Dichloroethene	A	ppbv	1	1		0.99	0	0	0.097	1	0	101%	70	130	0%	
1,2,4-Trichlorobenzene	A	ppbv	1.22	1.22		0.91	0	0	0.271	1	0	134%	70	130	0%	S
1,2,4-Trimethylbenzene	A	ppbv	1.47	1.47		0.98	0	0	0.245	1	0	150%	70	130	0%	S
1,2-Dibromoethane	A	ppbv	1	1		0.96	0	0	0.186	1	0	104%	70	130	0%	
1,2-Dichlorobenzene	A	ppbv	1.39	1.39		0.97	0	0	0.208	1	0	143%	70	130	0%	S
1,2-Dichloroethane	A	ppbv	1.18	1.18		0.97	0	0	0.196	1	0	122%	70	130	0%	
1,2-Dichloropropane	A	ppbv	1.09	1.09		0.98	0	0	0.224	1	0	111%	70	130	0%	

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\111611\11161103.D Vial: 4
Acq On : 16 Nov 2011 12:13 pm Operator: RACHEL HILL
Sample : CCV VOA1 111611 Inst : VOA 1
Misc : ICV EPA TO15 Multiplr: 1.00
MS Integration Params: CLME.P

Method : C:\HPCHEM\1\METHODS\111411V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Nov 15 09:19:29 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	94	0.00
2	T	Propylene	1.331	1.468	-10.3	94	0.00
3	T	Dichlorodifluoromethane	3.270	3.644	-11.4	94	0.00
4	T	1,2-Dichloro-1,2,2,2-tetraf	2.263	2.487	-9.9	93	0.00
5	T	Chloromethane	1.358	1.523	-12.2	90	0.00
6	T	Vinyl chloride	1.527	1.870	-22.5	93	0.00
7	T	1,3-Butadiene	1.250	1.489	-19.1	94	0.00
8	T	Bromomethane	1.280	1.444	-12.8	95	0.00
9	T	Chloroethane	0.801	0.904	-12.9	95	0.00
10	T	Trichlorofluoromethane	2.951	3.251	-10.2	93	0.00
11	T	Ethanol	0.333	0.362	-8.7	87	0.00
12	T	Freon113	2.389	2.610	-9.3	88	0.00
13	T	1,1-Dichloroethene	2.004	2.250	-12.3	91	0.00
14	T	Acetone	1.748	1.736	0.7	76	0.00
15	T	Carbon disulfide	3.496	4.003	-14.5	95	0.00
16	T	2-Propanol	1.650	1.852	-12.2	88	0.00
17	T	Methylene chloride	1.508	1.609	-6.7	85	0.00
18	T	tert-Butyl Methyl Ether	2.377	2.284	3.9	75	0.00
19	T	trans-1,2-Dichloroethene	1.835	1.943	-5.9	84	0.00
20	T	n-Hexane	2.034	2.156	-6.0	85	0.00
21	T	1,1-Dichloroethane	2.165	2.265	-4.6	83	0.00
22	T	Vinyl acetate	2.638	2.657	-0.7	76	0.00
23	T	cis-1,2-Dichloroethene	1.145	1.189	-3.8	85	0.00
24	T	2-Butanone	1.787	1.778	0.5	81	0.00
25	T	Ethyl acetate	2.316	2.336	-0.9	77	0.00
26	T	Tetrahydrofuran	1.161	1.184	-2.0	78	0.00
27	T	Chloroform	2.234	2.335	-4.5	83	0.00
28	T	1,1,1-Trichloroethane	2.116	2.217	-4.8	82	0.00
29	T	Cyclohexane	2.029	2.207	-8.8	83	0.00
30	T	Carbon tetrachloride	1.957	2.015	-3.0	83	0.00
31	T	Benzene	2.753	2.788	-1.3	79	0.00
32	T	1,2-Dichloroethane	1.204	1.182	1.8	77	0.00
33	I	1,4-Difluorobenzene	1.000	1.000	0.0	100	0.00
34	T	Heptane	0.773	0.806	-4.3	85	0.00
35	T	Trichloroethene	0.423	0.417	1.4	85	0.00
36	T	1,2-Dichloropropane	0.328	0.315	4.0	80	0.00
37	T	1,4-Dioxane	0.127	0.130	-2.4	84	0.00
38	T	Bromodichloromethane	0.623	0.595	4.5	81	0.00
39	T	cis-1,3-Dichloropropene	0.490	0.473	3.5	82	0.00
40	T	4-Methyl-2-pentanone	0.228	0.234	-2.6	84	0.00
41	T	Toluene	0.874	0.857	1.9	83	0.00
42	T	trans-1,3-Dichloropropene	0.424	0.409	3.5	82	0.00
43	T	1,1,2-Trichloroethane	0.305	0.294	3.6	84	0.00
44	T	Tetrachloroethene	0.468	0.467	0.2	86	0.00
45	T	2-Hexanone	0.482	0.493	-2.3	83	0.00
46	T	Chlorodibromomethane	0.468	0.447	4.5	83	0.00
47	T	1,2-Dibromoethane	0.437	0.424	3.0	84	0.00
48	I	Chlorobenzene-d5	1.000	1.000	0.0	98	0.00
49	T	Chlorobenzene	0.842	0.820	2.6	84	0.00
50	T	Ethylbenzene	1.408	1.411	-0.2	85	0.00
51	T	m,p-Xylene	1.103	1.129	-2.4	84	0.00
52	T	o-Xylene	1.040	1.030	1.0	85	0.00
53	T	Styrene	0.729	0.727	0.3	87	0.00
54	T	Bromoform	0.550	0.548	0.4	86	0.00
55	S	4-Bromofluorobenzene	0.579	0.587	-1.4	97	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\111611\11161103.D Vial: 4
Acq On : 16 Nov 2011 12:13 pm Operator: RACHEL HILL
Sample : CCV VOA1 111611 Inst : VOA 1
Misc : ICV EPA TO15 Multiplr: 1.00
MS Integration Params: CLME.P

Method : C:\HPCHEM\1\METHODS\111411V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Nov 15 09:19:29 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
56	T	1,1,2,2-Tetrachloroethane	0.799	0.836	-4.6	90	0.00
57	T	4-Ethyltoluene	1.239	1.246	-0.6	89	0.00
58	T	1,3,5-Trimethylbenzene	1.028	1.045	-1.7	91	0.00
59	T	1,2,4-Trimethylbenzene	0.961	0.988	-2.8	92	0.00
60	T	1,3-Dichlorobenzene	0.616	0.634	-2.9	89	0.00
61	T	1,4-Dichlorobenzene	0.577	0.596	-3.3	88	0.00
62	T	Benzyl chloride	0.740	0.805	-8.8	87	0.00
63	T	1,2-Dichlorobenzene	0.557	0.592	-6.3	91	0.00
64	T	1,2,4-Trichlorobenzene	0.122	0.116	4.9	79	0.00
65	T	Hexachlorobutadiene	0.274	0.270	1.5	81	0.00
66		Naphthalene	0.207	0.200	3.4	80	0.00

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\111611\11161103.D Vial: 4
Acq On : 16 Nov 2011 12:13 pm Operator: RACHEL HILL
Sample : CCV VOA1 111611 Inst : VOA 1
Misc : ICV EPA TO15 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Nov 16 12:38 2011 Quant Results File: 111411V1.RES

Quant Method : C:\HPCHEM\1\METHODS\111411V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Nov 15 09:19:29 2011
Response via : Initial Calibration
DataAcq Meth : 111411V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.58	130	474062	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.69	114	1601195	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.54	117	1046116	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.19	95	614287	12.68	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 101.44%				
Target Compounds							Qvalue
2) Propylene	5.51	41	567961	11.25	ppbv		99
3) Dichlorodifluoromethane	5.58	85	1271296	10.25	ppbv		99
4) 1,2-Dichloro-1,2,2,2-tetra	5.84	135	896132	10.44	ppbv	#	72
5) Chloromethane	5.99	50	548796	10.66	ppbv		99
6) Vinyl chloride	6.20	62	666614	11.51	ppbv		99
7) 1,3-Butadiene	6.26	39	553245	11.67	ppbv		93
8) Bromomethane	6.84	94	509459	10.49	ppbv		99
9) Chloroethane	7.00	64	315575	10.38	ppbv		97
10) Trichlorofluoromethane	7.33	101	1183638	10.57	ppbv		98
11) Ethanol	7.56	45	126431	10.02	ppbv		99
12) Freon113	7.99	101	969998	10.71	ppbv		89
13) 1,1-Dichloroethene	8.09	61	844712	11.11	ppbv		90
14) Acetone	8.18	43	658309	9.93	ppbv	#	94
15) Carbon disulfide	8.46	76	1472765	11.11	ppbv	#	100
16) 2-Propanol	8.23	45	709534	11.34	ppbv	#	72
17) Methylene chloride	8.75	49	610256	10.67	ppbv	#	83
18) tert-Butyl Methyl Ether	8.95	73	857541	9.51	ppbv	#	90
19) trans-1,2-Dichloroethene	9.03	61	722043	10.37	ppbv		87
20) n-Hexane	9.22	57	825833	10.71	ppbv		93
21) 1,1-Dichloroethane	9.60	63	833318	10.15	ppbv		98
22) Vinyl acetate	9.53	43	997769	9.97	ppbv	#	96
23) cis-1,2-Dichloroethene	10.28	96	442037	10.18	ppbv		87
24) 2-Butanone	10.24	43	667707	9.85	ppbv	#	91
25) Ethyl acetate	10.19	43	868081	9.88	ppbv	#	99
26) Tetrahydrofuran	10.58	42	448997	10.19	ppbv		88
27) Chloroform	10.60	83	867839	10.24	ppbv		100
28) 1,1,1-Trichloroethane	10.85	97	807061	10.06	ppbv		95
29) Cyclohexane	10.86	56	820175	10.66	ppbv		88
30) Carbon tetrachloride	11.01	117	725928	9.78	ppbv		97
31) Benzene	11.30	78	1014928	9.72	ppbv		96
32) 1,2-Dichloroethane	11.37	62	434850	9.52	ppbv		98
34) Heptane	11.34	43	1021875	10.32	ppbv	#	89
35) Trichloroethene	12.03	130	513089	9.47	ppbv		94
36) 1,2-Dichloropropane	12.38	63	394813	9.40	ppbv		96
37) 1,4-Dioxane	12.46	88	160378	9.86	ppbv	#	87
38) Bromodichloromethane	12.67	83	731093	9.15	ppbv		99
39) cis-1,3-Dichloropropene	13.22	75	575994	9.19	ppbv		97
40) 4-Methyl-2-pentanone	13.33	58	299823	10.27	ppbv	#	91
41) Toluene	13.62	91	1075707	9.61	ppbv		97
42) trans-1,3-Dichloropropene	13.93	75	477183	8.78	ppbv		97
43) 1,1,2-Trichloroethane	14.20	97	369422	9.45	ppbv		96
44) Tetrachloroethene	14.33	166	574727	9.59	ppbv		98
45) 2-Hexanone	14.41	43	618867	10.03	ppbv		95
46) Chlorodibromomethane	14.75	129	560786	9.36	ppbv		99
47) 1,2-Dibromoethane	14.99	107	521996	9.33	ppbv		99
49) Chlorobenzene	15.58	112	679170	9.64	ppbv	#	89
50) Ethylbenzene	15.62	91	1157068	9.82	ppbv		92
51) m,p-Xylene	15.78	91	1813713	19.66	ppbv		92
52) o-Xylene	16.37	91	861732	9.90	ppbv	#	90

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\111611\11161103.D Vial: 4
Acq On : 16 Nov 2011 12:13 pm Operator: RACHEL HILL
Sample : CCV VOA1 111611 Inst : VOA 1
Misc : ICV EPA TO15 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Nov 16 12:38 2011 Quant Results File: 111411V1.RES

Quant Method : C:\HPCHEM\1\METHODS\111411V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Nov 15 09:19:29 2011
Response via : Initial Calibration
DataAcq Meth : 111411V1

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
53)	Styrene	16.40	104	596605	9.78	ppbv		98
54)	Bromoform	16.78	173	440480	9.57	ppbv	#	98
56)	1,1,2,2-Tetrachloroethane	17.36	83	699427	10.45	ppbv	#	99
57)	4-Ethyltoluene	17.60	105	1021670	9.86	ppbv		95
58)	1,3,5-Trimethylbenzene	17.68	105	848315	9.86	ppbv		96
59)	1,2,4-Trimethylbenzene	18.27	105	810507	10.08	ppbv		97
60)	1,3-Dichlorobenzene	18.82	146	514923	9.98	ppbv		98
61)	1,4-Dichlorobenzene	18.96	146	478813	9.91	ppbv		98
62)	Benzyl chloride	19.17	91	653864	10.56	ppbv		96
63)	1,2-Dichlorobenzene	19.61	146	480410	10.30	ppbv		98
64)	1,2,4-Trichlorobenzene	22.77	180	88525	8.67	ppbv		98
65)	Hexachlorobutadiene	22.96	225	212177	9.25	ppbv		99
66)	Naphthalene	23.46	128	153893	8.89	ppbv		99

(#) = qualifier out of range (m) = manual integration
11161103.D 111411V1.M Mon Nov 21 11:48:01 2011 Page 2

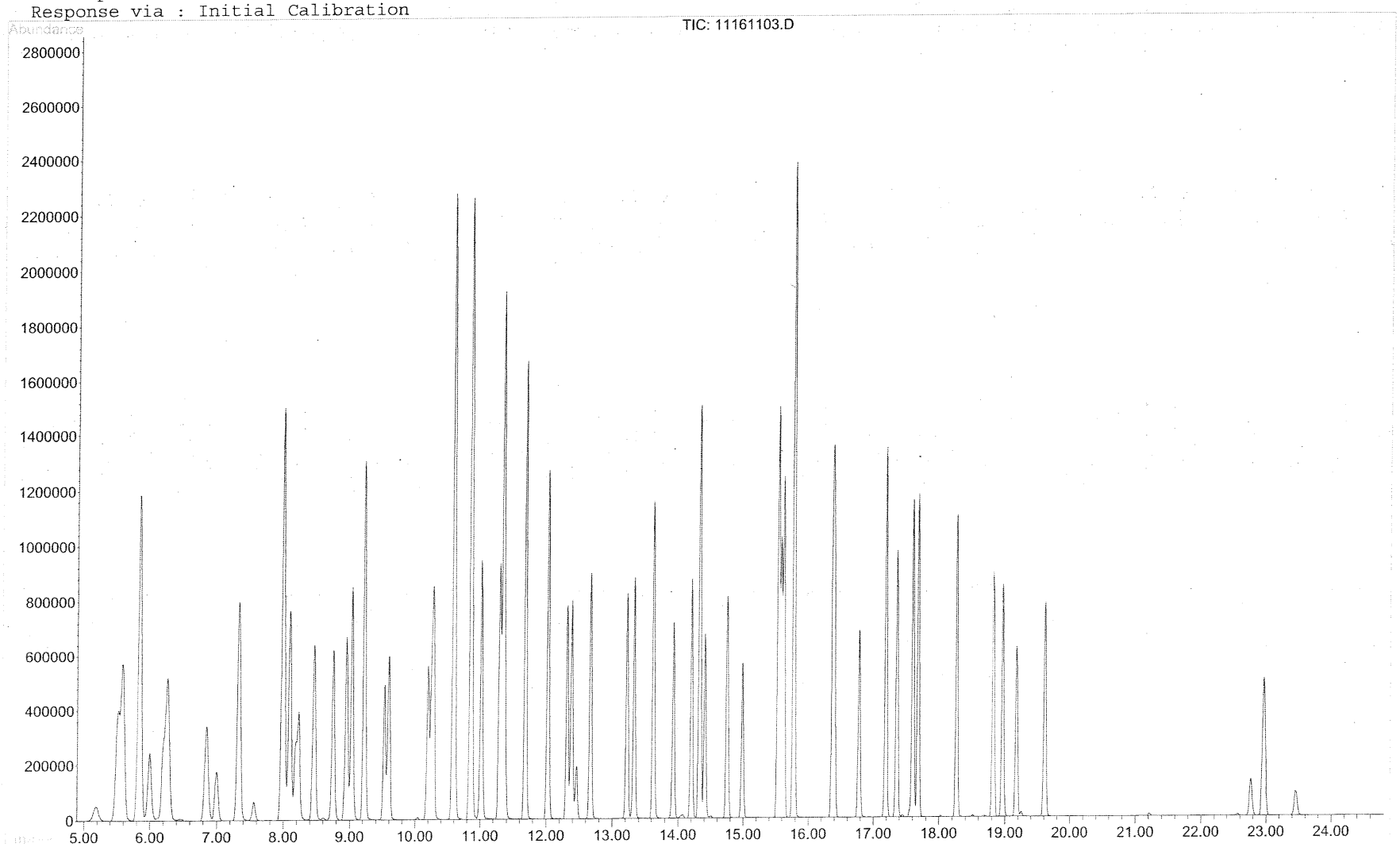
Quantitation Report

Data File : C:\HPCHEM\1\DATA\111611\11161103.D
Acq On : 16 Nov 2011 12:13 pm
Sample : CCV VOA1 111611
Misc : ICV EPA TO15
MS Integration Params: CLME.P
Quant Time: Nov 16 12:38 2011

Vial: 4
Operator: RACHEL HILL
Inst : VOA 1
Multiplr: 1.00

Quant Results File: 111411V1.RES

Method : C:\HPCHEM\1\METHODS\111411V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Nov 15 09:19:29 2011
Response via : Initial Calibration



RTI Laboratories

Run ID: VOA1_111117A **Run No.:** 44334

Analytical Run Date: 11/17/2011 **InstrumentID:** VOA1

Analyst: Rachel Hill **Column:**

Calibration ID: 44334 **Column ID:** 0.25mm, 1.4umFT

Column Length: 30m

SampID	TestCode	SampType	Batch ID	Analysis Date/Time	QA By	Q	Comments
BFB1 VOA1 111711	BFB_TUNE	TUNE	R44334	11/17/2011 10:15:00 AM	Robert Lynch		
1ppbv ICAL	EPA_TO15	ICAL	R44334	11/17/2011 3:05:00 PM	Robert Lynch		
10ppbv ICAL	EPA_TO15	ICAL	R44334	11/17/2011 3:46:00 PM	Robert Lynch		
12ppbv ICAL	EPA_TO15	ICAL	R44334	11/17/2011 4:27:00 PM	Robert Lynch		
15ppbv ICAL	EPA_TO15	ICAL	R44334	11/17/2011 5:08:00 PM	Robert Lynch		
20ppbv ICAL	EPA_TO15	ICAL	R44334	11/17/2011 5:50:00 PM	Robert Lynch		
30ppbv ICAL	EPA_TO15	ICAL	R44334	11/17/2011 6:33:00 PM	Robert Lynch		
50ppbv ICAL	EPA_TO15	ICAL	R44334	11/17/2011 7:17:00 PM	Robert Lynch		
BFB2 VOA1 111711	BFB_TUNE	TUNE	R44334	11/17/2011 7:57:00 PM	Robert Lynch		
ICV VOA1 111711	EPA_TO15	ICV	R44334	11/17/2011 8:38:00 PM	Robert Lynch		
RLVS1 VOA1 11171	EPA_TO15	RLVS	R44334	11/17/2011 9:20:00 PM	Robert Lynch		
MBLK VOA1 111711	EPA_TO15	MBLK	R44334	11/17/2011 10:08:00 PM	Charles O`Bryan		
1111437-028A	EPA_TO15	SAMP	R44334	11/18/2011 12:20:00 AM	Charles O`Bryan		
1111437-041A	EPA_TO15	SAMP	R44334	11/18/2011 1:02:00 AM	Charles O`Bryan		
1111437-018A	EPA_TO15	SAMP	R44334	11/18/2011 2:31:00 AM	Charles O`Bryan		
1111437-019A	EPA_TO15	SAMP	R44334	11/18/2011 3:18:00 AM	Charles O`Bryan		
1111437-008A	EPA_TO15	SAMP	R44334	11/18/2011 3:59:00 AM	Charles O`Bryan		
1111437-009A	EPA_TO15	SAMP	R44334	11/18/2011 4:41:00 AM	Charles O`Bryan		
1111437-010A	EPA_TO15	SAMP	R44334	11/18/2011 5:21:00 AM	Charles O`Bryan		
1111437-011A	EPA_TO15	SAMP	R44334	11/18/2011 6:02:00 AM	Charles O`Bryan		
1111437-011Adup	EPA_TO15	DUP	R44334	11/18/2011 6:43:00 AM	Charles O`Bryan		
1111437-001A	EPA_TO15	SAMP	R44334	11/18/2011 7:31:00 AM	Charles O`Bryan		
1111437-002A	EPA_TO15	SAMP	R44334	11/18/2011 8:12:00 AM	Charles O`Bryan		
1111437-003A	EPA_TO15	SAMP	R44334	11/18/2011 8:59:00 AM	Charles O`Bryan		
1111437-012A	EPA_TO15	SAMP	R44334	11/18/2011 9:40:00 AM	Charles O`Bryan		
1111437-027A	EPA_TO15	SAMP	R44334	11/18/2011 10:27:00 AM	Charles O`Bryan		
1111437-013A	EPA_TO15	SAMP	R44334	11/18/2011 11:09:00 AM	Charles O`Bryan		
1111437-014A	EPA_TO15	SAMP	R44334	11/18/2011 11:49:00 AM	Charles O`Bryan		
1111437-016A	EPA_TO15	SAMP	R44334	11/18/2011 1:12:00 PM	Charles O`Bryan		
1111437-021A	EPA_TO15	SAMP	R44334	11/18/2011 1:53:00 PM	Charles O`Bryan		
1111437-004A	EPA_TO15	SAMP	R44334	11/18/2011 2:34:00 PM	Charles O`Bryan		
1111437-010A	EPA_TO15	SAMP	R44334	11/18/2011 4:37:00 PM	Charles O`Bryan		
1111437-015A	EPA_TO15	SAMP	R44334	11/18/2011 5:18:00 PM	Charles O`Bryan		
RLVS2 VOA1 11171	EPA_TO15	RLVS	R44334	11/18/2011 6:48:00 PM	Robert Lynch		

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
869962	ICV VOA1 111711	EPA_TO15	ICV	:\1\DATA\11171111/17/2011 8:38:		1	R44334		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
1,1,1-Trichloroethane	A	ppbv	11.48	11.48		9.6	0	0	0.107	1	0	120%	70	130	0%	
1,1,2,2-Tetrachloroethane	A	ppbv	11.48	11.48		10	0	0	0.211	1	0	115%	70	130	0%	
1,1,2-Trichloro-1,2,2-trifluoroethane	A	ppbv	11.61	11.61		9.8	0	0	0.108	1	0	118%	70	130	0%	
1,1,2-Trichloroethane	A	ppbv	11.38	11.38		9.8	0	0	0.2	1	0	116%	70	130	0%	
1,1-Dichloroethane	A	ppbv	11.31	11.31		9.7	0	0	0.111	1	0	117%	70	130	0%	
1,1-Dichloroethene	A	ppbv	11.37	11.37		9.9	0	0	0.097	1	0	115%	70	130	0%	
1,2,4-Trichlorobenzene	A	ppbv	9.12	9.12		9.1	0	0	0.271	1	0	100%	70	130	0%	
1,2,4-Trimethylbenzene	A	ppbv	10.98	10.98		9.8	0	0	0.245	1	0	112%	70	130	0%	
1,2-Dibromoethane	A	ppbv	11.2	11.2		9.6	0	0	0.186	1	0	117%	70	130	0%	
1,2-Dichlorobenzene	A	ppbv	10.99	10.99		9.7	0	0	0.208	1	0	113%	70	130	0%	
1,2-Dichloroethane	A	ppbv	11.74	11.74		9.7	0	0	0.196	1	0	121%	70	130	0%	
1,2-Dichloropropane	A	ppbv	11.78	11.78		9.8	0	0	0.224	1	0	120%	70	130	0%	
1,3,5-Trimethylbenzene	A	ppbv	10.69	10.69		9.7	0	0	0.24	1	0	110%	70	130	0%	
1,3-Butadiene	A	ppbv	11.21	11.21		9.8	0	0	0.152	1	0	114%	70	130	0%	
1,3-Dichlorobenzene	A	ppbv	11.12	11.12		9.7	0	0	0.202	1	0	115%	70	130	0%	
1,4-Dichlorobenzene	A	ppbv	10.62	10.62		9.6	0	0	0.194	1	0	111%	70	130	0%	
1,4-Dioxane	A	ppbv	11.97	11.97		9.6	0	0	0.128	1	0	125%	70	130	0%	
2-Butanone	A	ppbv	12.29	12.29		9.9	0	0	0.287	1	0	124%	70	130	0%	
2-Hexanone	A	ppbv	12.03	12.03		9.8	0	0	0.135	1	0	123%	70	130	0%	
2-Propanol	A	ppbv	12.36	12.36		10.1	0	0	0.329	1	0	122%	70	130	0%	
4-Methyl-2-pentanone	A	ppbv	12.01	12.01		10	0	0	0.157	1	0	120%	70	130	0%	
Acetone	A	ppbv	12.28	12.28		10	0	0	0.43	1	0	123%	70	130	0%	
Benzene	A	ppbv	11.58	11.58		9.6	0	0	0.126	1	0	121%	70	130	0%	
Benzyl chloride	A	ppbv	11.76	11.76		9.7	0	0	0.155	1	0	121%	70	130	0%	
Bromodichloromethane	A	ppbv	11.22	11.22		9.6	0	0	0.156	1	0	117%	70	130	0%	
Bromoform	A	ppbv	11.15	11.15		9.6	0	0	0.197	1	0	116%	70	130	0%	
Bromomethane	A	ppbv	10.28	10.28		9.3	0	0	0.075	1	0	111%	70	130	0%	
Carbon disulfide	A	ppbv	10.92	10.92		9.7	0	0	0.093	1	0	113%	70	130	0%	
Carbon tetrachloride	A	ppbv	11.2	11.2		9.5	0	0	0.114	1	0	118%	70	130	0%	
Chlorobenzene	A	ppbv	11.39	11.39		9.9	0	0	0.275	1	0	115%	70	130	0%	
Chlorodibromomethane	A	ppbv	11.33	11.33		9.2	0	0	0.165	1	0	123%	70	130	0%	
Chloroethane	A	ppbv	10.22	10.22		9.8	0	0	0.063	1	0	104%	70	130	0%	
Chloroform	A	ppbv	11.55	11.55		9.4	0	0	0.126	1	0	123%	70	130	0%	
Chloromethane	A	ppbv	10.18	10.18		9.8	0	0	0.104	1	0	104%	70	130	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
869962	ICV VOA1 111711	EPA_TO15	ICV	:\1\DATA\11171111/17/2011 8:38:		1	R44334		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
cis-1,2-Dichloroethene	A	ppbv	11.39	11.39		9.8	0	0	0.107	1	0	116%	70	130	0%	
cis-1,3-dichloropropene	A	ppbv	11.17	11.17		9.5	0	0	0.166	1	0	118%	70	130	0%	
Cyclohexane	A	ppbv	11.85	11.85		9.8	0	0	0.684	2	0	121%	70	130	0%	
Dichlorodifluoromethane	A	ppbv	9.96	9.96		9.2	0	0	0.086	1	0	108%	70	130	0%	
Ethanol	A	ppbv	11.52	11.52		9.2	0	0	1.962	5	0	125%	70	130	0%	
Ethyl acetate	A	ppbv	12.17	12.17		9.8	0	0	0.157	1	0	124%	70	130	0%	
Ethylbenzene	A	ppbv	11.39	11.39		9.8	0	0	0.737	2	0	116%	70	130	0%	
Heptane	A	ppbv	11.78	11.78		9.9	0	0	0.249	1	0	119%	70	130	0%	
Hexachlorobutadiene	A	ppbv	9.91	9.91		9.4	0	0	0.374	2	0	105%	70	130	0%	
m,p-Xylene	A	ppbv	23.17	23.17		19.2	0	0	0.524	2	0	121%	70	130	0%	
Methylene chloride	A	ppbv	11.41	11.41		10	0	0	2.077	5	0	114%	70	130	0%	
n-Hexane	A	ppbv	11.87	11.87		10.1	0	0	0.692	2	0	118%	70	130	0%	
Naphthalene	A	ppbv	9.21	9.21		9.2	0	0	0.247	1	0	100%	70	130	0%	
o-Xylene	A	ppbv	11.52	11.52		10	0	0	0.258	1	0	115%	70	130	0%	
Propylene	A	ppbv	10.73	10.73		10.2	0	0	0.075	1	0	105%	70	130	0%	
Styrene	A	ppbv	11.23	11.23		9.8	0	0	0.263	1	0	115%	70	130	0%	
tert-Butyl Methyl Ether	A	ppbv	12.15	12.15		9.9	0	0	0.228	1	0	123%	70	130	0%	
Tetrachloroethene	A	ppbv	11.17	11.17		9.6	0	0	0.148	1	0	116%	70	130	0%	
Tetrahydrofuran	A	ppbv	12.24	12.24		10	0	0	0.201	1	0	122%	70	130	0%	
Toluene	A	ppbv	11.56	11.56		9.8	0	0	0.158	1	0	118%	70	130	0%	
trans-1,2-Dichloroethene	A	ppbv	11.45	11.45		9.8	0	0	0.117	1	0	117%	70	130	0%	
trans-1,3-dichloropropene	A	ppbv	10.73	10.73		9.1	0	0	0.171	1	0	118%	70	130	0%	
Trichloroethene	A	ppbv	11.05	11.05		9.6	0	0	0.119	1	0	115%	70	130	0%	
Trichlorofluoromethane	A	ppbv	10.83	10.83		9.6	0	0	0.148	1	0	113%	70	130	0%	
Vinyl acetate	A	ppbv	12.71	12.71		9.9	0	0	0.266	1	0	128%	70	130	0%	
Vinyl chloride	A	ppbv	11.21	11.21		9.4	0	0	0.072	1	0	119%	70	130	0%	
Xylenes, Total	C	ppbv	34.69	34.69		29.2	0	0	0.782	3	0	119%	70	130	0%	
1,4-Difluorobenzene	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%			0%	
Bromochloromethane	I	ppbv	12.5	12.5		1.25	0	0	0	0	0	1000%			0%	
Chlorobenzene-d5	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%			0%	
4-Bromofluorobenzene	S	ppbv	12.83	12.83		12.5	0	0	0	0	0	103%	70	130	0%	

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\111711\11171115.D Vial: 2
Acq On : 17 Nov 2011 8:38 pm Operator: RACHEL HILL
Sample : ICV VOA1 111711 Inst : VOA 1
Misc : ICV EPA TO15 Multiplr: 1.00
MS Integration Params: CLME.P

Method : C:\HPCHEM\1\METHODS\111711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Nov 18 09:29:35 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	115	0.00
2	T	Propylene	1.350	1.420	-5.2	112	0.00
3	T	Dichlorodifluoromethane	3.293	3.566	-8.3	114	0.00
4	T	1,2-Dichloro-1,2,2,2-tetraf	2.294	2.496	-8.8	116	0.00
5	T	Chloromethane	1.289	1.382	-7.2	107	0.00
6	T	Vinyl chloride	1.524	1.816	-19.2	115	0.00
7	T	1,3-Butadiene	1.250	1.431	-14.5	113	0.00
8	T	Bromomethane	1.312	1.450	-10.5	117	0.00
9	T	Chloroethane	0.817	0.908	-11.1	115	0.00
10	T	Trichlorofluoromethane	2.904	3.276	-12.8	117	0.00
11	T	Ethanol	0.370	0.463	-25.1	126	0.00
12	T	Freon113	2.388	2.827	-18.4	116	0.00
13	T	1,1-Dichloroethene	1.976	2.269	-14.8	114	0.00
14	T	Acetone	1.952	2.396	-22.7	115	0.00
15	T	Carbon disulfide	3.568	4.017	-12.6	114	0.00
16	T	2-Propanol	1.842	2.255	-22.4	116	0.00
17	T	Methylene chloride	1.570	1.792	-14.1	112	0.00
18	T	tert-Butyl Methyl Ether	2.698	3.311	-22.7	115	0.00
19	T	trans-1,2-Dichloroethene	1.906	2.227	-16.8	114	0.00
20	T	n-Hexane	2.113	2.484	-17.6	114	0.00
21	T	1,1-Dichloroethane	2.268	2.645	-16.6	113	0.00
22	T	Vinyl acetate	3.033	3.893	-28.4	114	0.00
23	T	cis-1,2-Dichloroethene	1.237	1.438	-16.2	115	0.00
24	T	2-Butanone	2.087	2.590	-24.1	113	0.00
25	T	Ethyl acetate	2.756	3.422	-24.2	113	0.00
26	T	Tetrahydrofuran	1.266	1.550	-22.4	112	0.00
27	T	Chloroform	2.338	2.756	-17.9	114	0.00
28	T	1,1,1-Trichloroethane	2.208	2.640	-19.6	115	0.00
29	T	Cyclohexane	2.101	2.541	-20.9	112	0.00
30	T	Carbon tetrachloride	2.050	2.417	-17.9	116	0.00
31	T	Benzene	3.117	3.761	-20.7	114	0.00
32	T	1,2-Dichloroethane	1.322	1.600	-21.0	114	0.00
33	I	1,4-Difluorobenzene	1.000	1.000	0.0	116	0.00
34	T	Heptane	0.792	0.942	-18.9	112	0.00
35	T	Trichloroethene	0.441	0.508	-15.2	115	0.00
36	T	1,2-Dichloropropane	0.367	0.441	-20.2	113	0.00
37	T	1,4-Dioxane	0.143	0.179	-25.2	121	0.00
38	T	Bromodichloromethane	0.641	0.749	-16.8	114	0.00
39	T	cis-1,3-Dichloropropene	0.540	0.635	-17.6	114	0.00
40	T	4-Methyl-2-pentanone	0.252	0.303	-20.2	114	0.00
41	T	Toluene	0.971	1.146	-18.0	114	0.00
42	T	trans-1,3-Dichloropropene	0.462	0.545	-18.0	115	0.00
43	T	1,1,2-Trichloroethane	0.335	0.389	-16.1	115	0.00
44	T	Tetrachloroethene	0.483	0.562	-16.4	116	0.00
45	T	2-Hexanone	0.519	0.637	-22.7	115	0.00
46	T	Chlorodibromomethane	0.499	0.577	-15.6	115	0.00
47	T	1,2-Dibromoethane	0.477	0.557	-16.8	116	0.00
48	I	Chlorobenzene-d5	1.000	1.000	0.0	116	0.00
49	T	Chlorobenzene	0.928	1.067	-15.0	114	0.00
50	T	Ethylbenzene	1.550	1.801	-16.2	114	0.00
51	T	m,p-Xylene	1.185	1.431	-20.8	114	0.00
52	T	o-Xylene	1.134	1.306	-15.2	114	0.00
53	T	Styrene	0.800	0.917	-14.6	115	0.00
54	T	Bromoform	0.589	0.684	-16.1	117	0.00
55	S	4-Bromofluorobenzene	0.574	0.589	-2.6	117	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\111711\11171115.D Vial: 2
Acq On : 17 Nov 2011 8:38 pm Operator: RACHEL HILL
Sample : ICV VOA1 111711 Inst : VOA 1
Misc : ICV EPA TO15 Multiplr: 1.00
MS Integration Params: CLME.P

Method : C:\HPCHEM\1\METHODS\111711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Nov 18 09:29:35 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
56	T	1,1,2,2-Tetrachloroethane	0.892	1.024	-14.8	115	0.00
57	T	4-Ethyltoluene	1.382	1.542	-11.6	115	0.00
58	T	1,3,5-Trimethylbenzene	1.161	1.280	-10.2	115	0.00
59	T	1,2,4-Trimethylbenzene	1.102	1.235	-12.1	115	0.00
60	T	1,3-Dichlorobenzene	0.682	0.781	-14.5	115	0.00
61	T	1,4-Dichlorobenzene	0.636	0.703	-10.5	109	0.00
62	T	Benzyl chloride	0.824	0.999	-21.2	114	0.00
63	T	1,2-Dichlorobenzene	0.640	0.725	-13.3	113	0.00
64	T	1,2,4-Trichlorobenzene	0.122	0.123	-0.8	106	0.00
65	T	Hexachlorobutadiene	0.270	0.285	-5.6	105	0.00
66		Naphthalene	0.203	0.203	0.0	105	0.00

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\111711\11171115.D Vial: 2
Acq On : 17 Nov 2011 8:38 pm Operator: RACHEL HILL
Sample : ICV VOA1 111711 Inst : VOA 1
Misc : ICV EPA TO15 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Nov 18 9:30 2011 Quant Results File: 111711V1.RES

Quant Method : C:\HPCHEM\1\METHODS\111711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Nov 18 09:29:35 2011
Response via : Initial Calibration
DataAcq Meth : 111711V1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.59	130	524191	12.50	ppbv		0.00
33) 1,4-Difluorobenzene	11.69	114	1734648	12.50	ppbv		0.00
48) Chlorobenzene-d5	15.54	117	1137553	12.50	ppbv		0.00
System Monitoring Compounds							
55) 4-Bromofluorobenzene	17.19	95	670155	12.83	ppbv		0.00
Spiked Amount 12.500	Range 70 - 113		Recovery = 102.64%				
Target Compounds							Qvalue
2) Propylene	5.51	41	607341	10.73	ppbv		99
3) Dichlorodifluoromethane	5.59	85	1375654	9.96	ppbv		99
4) 1,2-Dichloro-1,2,2,2-tetra	5.84	135	994237	10.34	ppbv	#	74
5) Chloromethane	6.00	50	550626	10.18	ppbv		99
6) Vinyl chloride	6.21	62	715990	11.21	ppbv		99
7) 1,3-Butadiene	6.27	39	587991	11.21	ppbv		94
8) Bromomethane	6.85	94	565377	10.28	ppbv		100
9) Chloroethane	7.00	64	350170	10.22	ppbv		98
10) Trichlorofluoromethane	7.34	101	1318993	10.83	ppbv		98
11) Ethanol	7.56	45	178541	11.52	ppbv		99
12) Freon113	8.00	101	1161954	11.61	ppbv		90
13) 1,1-Dichloroethene	8.09	61	941831	11.37	ppbv		92
14) Acetone	8.18	43	1004847	12.28	ppbv		97
15) Carbon disulfide	8.47	76	1634068	10.92	ppbv	#	100
16) 2-Propanol	8.23	45	955195	12.36	ppbv		82
17) Methylene chloride	8.75	49	751331	11.41	ppbv		85
18) tert-Butyl Methyl Ether	8.95	73	1374586	12.15	ppbv	#	91
19) trans-1,2-Dichloroethene	9.04	61	915408	11.45	ppbv		88
20) n-Hexane	9.22	57	1052032	11.87	ppbv		94
21) 1,1-Dichloroethane	9.60	63	1075992	11.31	ppbv		98
22) Vinyl acetate	9.53	43	1616021	12.71	ppbv		97
23) cis-1,2-Dichloroethene	10.28	96	590798	11.39	ppbv		90
24) 2-Butanone	10.24	43	1075449	12.29	ppbv		91
25) Ethyl acetate	10.20	43	1406406	12.17	ppbv	#	100
26) Tetrahydrofuran	10.58	42	649865	12.24	ppbv		91
27) Chloroform	10.61	83	1132803	11.55	ppbv		100
28) 1,1,1-Trichloroethane	10.86	97	1062894	11.48	ppbv		96
29) Cyclohexane	10.86	56	1044113	11.85	ppbv		90
30) Carbon tetrachloride	11.02	117	963045	11.20	ppbv		98
31) Benzene	11.30	78	1514074	11.58	ppbv		97
32) 1,2-Dichloroethane	11.37	62	650973	11.74	ppbv		98
34) Heptane	11.35	43	1294100	11.78	ppbv	#	91
35) Trichloroethene	12.03	130	676967	11.05	ppbv		94
36) 1,2-Dichloropropane	12.38	63	600249	11.78	ppbv		96
37) 1,4-Dioxane	12.46	88	238330	11.97	ppbv	#	89
38) Bromodichloromethane	12.67	83	997184	11.22	ppbv		99
39) cis-1,3-Dichloropropene	13.22	75	837344	11.17	ppbv		97
40) 4-Methyl-2-pentanone	13.33	58	420513	12.01	ppbv		92
41) Toluene	13.63	91	1557923	11.56	ppbv		98
42) trans-1,3-Dichloropropene	13.93	75	687720	10.73	ppbv		97
43) 1,1,2-Trichloroethane	14.20	97	529103	11.38	ppbv		97
44) Tetrachloroethene	14.33	166	749032	11.17	ppbv		99
45) 2-Hexanone	14.41	43	866575	12.03	ppbv		96
46) Chlorodibromomethane	14.75	129	784725	11.33	ppbv		99
47) 1,2-Dibromoethane	14.99	107	741810	11.20	ppbv		99
49) Chlorobenzene	15.58	112	961646	11.39	ppbv	#	91
50) Ethylbenzene	15.62	91	1606591	11.39	ppbv		94
51) m,p-Xylene	15.78	91	2499514	23.17	ppbv		93
52) o-Xylene	16.37	91	1188338	11.52	ppbv	#	91

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\111711\11171115.D Vial: 2
Acq On : 17 Nov 2011 8:38 pm Operator: RACHEL HILL
Sample : ICV VOA1 111711 Inst : VOA 1
Misc : ICV EPA TO15 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Nov 18 9:30 2011 Quant Results File: 111711V1.RES

Quant Method : C:\HPCHEM\1\METHODS\111711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Nov 18 09:29:35 2011
Response via : Initial Calibration
DataAcq Meth : 111711V1

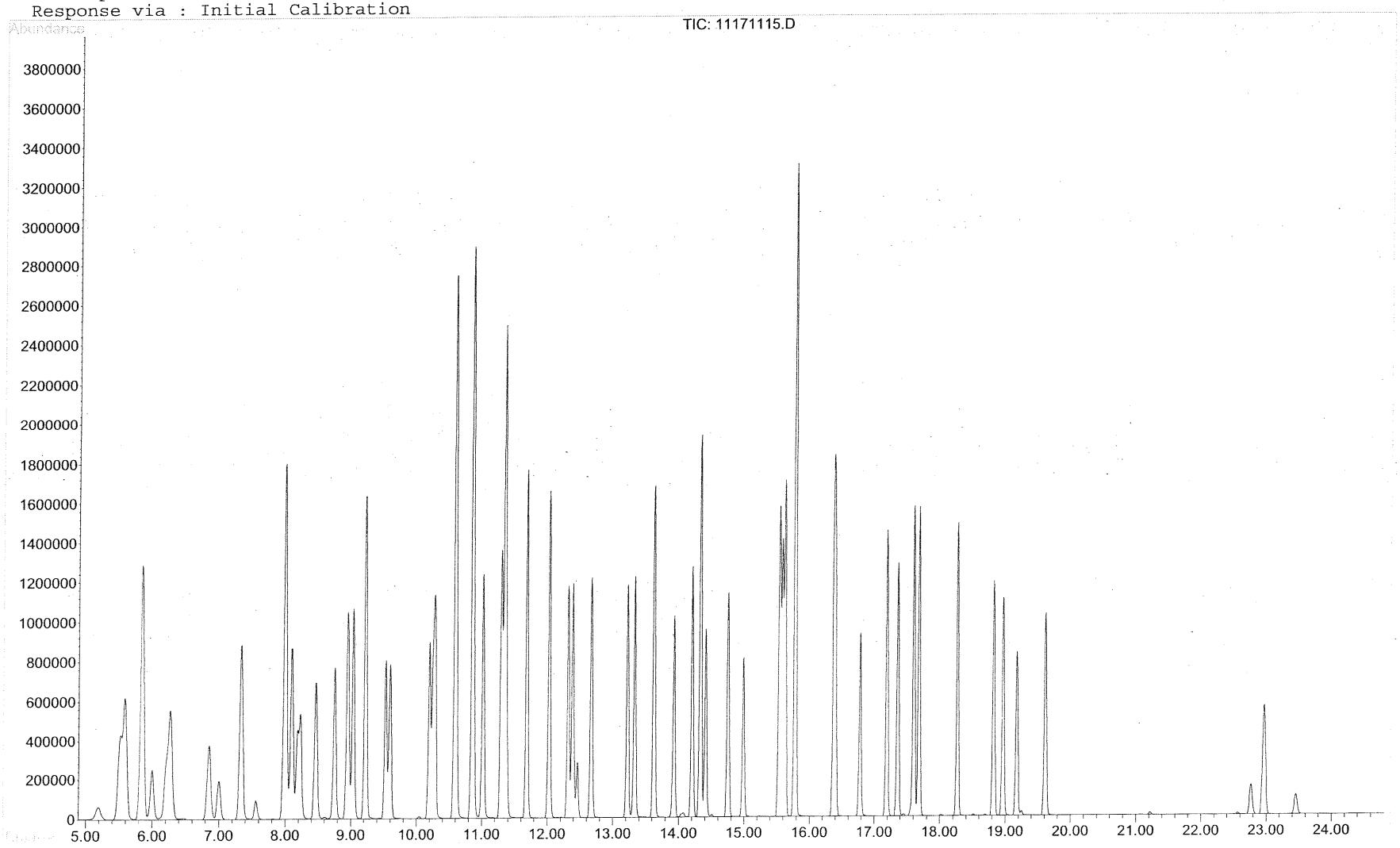
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
53)	Styrene	16.40	104	817490	11.23	ppbv		98
54)	Bromoform	16.78	173	597413	11.15	ppbv	#	98
56)	1,1,2,2-Tetrachloroethane	17.36	83	931916	11.48	ppbv	#	99
57)	4-Ethyltoluene	17.60	105	1375022	10.94	ppbv		95
58)	1,3,5-Trimethylbenzene	17.68	105	1130020	10.69	ppbv		97
59)	1,2,4-Trimethylbenzene	18.27	105	1101140	10.98	ppbv		97
60)	1,3-Dichlorobenzene	18.82	146	689560	11.12	ppbv		98
61)	1,4-Dichlorobenzene	18.97	146	614343	10.62	ppbv		99
62)	Benzyl chloride	19.18	91	881765	11.76	ppbv		97
63)	1,2-Dichlorobenzene	19.61	146	639891	10.99	ppbv		98
64)	1,2,4-Trichlorobenzene	22.77	180	101574	9.12	ppbv		97
65)	Hexachlorobutadiene	22.97	225	243636	9.91	ppbv		99
66)	Naphthalene	23.46	128	169931	9.21	ppbv		100

(#) = qualifier out of range (m) = manual integration
11171115.D 111711V1.M Mon Nov 21 12:16:14 2011 Page 2

Quantitation Report

Data File : C:\HPCHEM\1\DATA\111711\11171115.D Vial: 2
Acq On : 17 Nov 2011 8:38 pm Operator: RACHEL HILL
Sample : ICV VOA1 111711 Inst : VOA 1
Misc : ICV EPA TO15 Multiplr: 1.00
MS Integration Params: CLME.P
Quant Time: Nov 18 9:30 2011 Quant Results File: 111711V1.RES

Method : C:\HPCHEM\1\METHODS\111711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Nov 18 09:29:35 2011
Response via : Initial Calibration



Response Factor Report VOA 1

Method : C:\HPCHEM\1\METHODS\111411V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Nov 15 09:19:29 2011
Response via : Initial Calibration

Calibration Files
2 =11141105.D 4 =11141107.D 5 =11141108.D
6 =11141109.D 7 =11141110.D 8 =11141111.D

		Compound	2	4	5	6	7	8	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------							
2)	T	Propylene	1.557	1.473	1.398	1.309	1.241	1.161	1.331	11.29
3)	T	Dichlorodifluoromet	3.260	3.656	3.481	3.269	3.146	2.999	3.270	7.05
4)	T	1,2-Dichloro-1,2,2,	2.128	2.513	2.385	2.265	2.240	2.174	2.263	6.27
5)	T	Chloromethane	1.532	1.592	1.486	1.366	1.273	1.149	1.358	13.97
6)	T	Vinyl chloride	1.713	1.887	1.790	1.683	1.546	1.138	1.527	23.28
7)	T	1,3-Butadiene	1.379	1.493	1.386	1.297	1.256	1.136	1.250	18.03
8)	T	Bromomethane	1.229	1.431	1.351	1.278	1.241	1.184	1.280	6.55
9)	T	Chloroethane	0.800	0.900	0.856	0.802	0.771	0.731	0.801	7.44
10)	T	Trichlorofluorometh	2.837	3.301	3.133	2.940	2.886	2.802	2.951	6.64
11)	T	Ethanol	0.337	0.391	0.363	0.312	0.308	0.287	0.333	11.69
12)	T	Freon113	2.353	2.800	2.581	2.374	2.359	2.261	2.389	10.53
13)	T	1,1-Dichloroethene	2.118	2.326	2.138	1.960	1.894	1.823	2.004	9.88
14)	T	Acetone	2.326	2.163	1.914	1.564	1.503	1.421	1.748	22.15
15)	T	Carbon disulfide	3.531	3.989	3.754	3.497	3.375	3.164	3.496	8.64
16)	T	2-Propanol	1.702	1.990	1.844	1.607	1.580	1.442	1.650	12.95
17)	T	Methylene chloride	1.858	1.792	1.601	1.409	1.348	1.290	1.508	16.17
18)	T	tert-Butyl Methyl E	3.080	2.866	2.551	2.075	2.058	2.015	2.377	19.09
19)	T	trans-1,2-Dichloroe	2.027	2.177	1.961	1.742	1.687	1.654	1.835	11.97
20)	T	n-Hexane	2.212	2.394	2.191	1.937	1.907	1.852	2.034	11.53
21)	T	1,1-Dichloroethane	2.442	2.562	2.341	2.037	1.968	1.919	2.165	12.74
22)	T	Vinyl acetate	3.171	3.310	2.935	2.407	2.308	2.207	2.638	18.53
23)	T	cis-1,2-Dichloroeth	1.217	1.319	1.212	1.078	1.061	1.056	1.145	9.04
24)	T	2-Butanone	2.345	2.069	1.895	1.652	1.616	1.454	1.787	18.55
25)	T	Ethyl acetate	2.807	2.856	2.553	2.165	2.051	1.894	2.316	18.05
26)	T	Tetrahydrofuran	1.364	1.433	1.298	1.101	1.062	0.981	1.161	17.65
27)	T	Chloroform	2.461	2.655	2.443	2.175	2.108	1.982	2.234	13.37
28)	T	1,1,1-Trichloroetha	2.157	2.547	2.358	2.107	2.061	1.903	2.116	13.45
29)	T	Cyclohexane	2.239	2.504	2.264	2.011	1.937	1.741	2.029	16.73
30)	T	Carbon tetrachlorid	2.007	2.291	2.103	1.875	1.865	1.826	1.957	9.77
31)	T	Benzene	3.403	3.307	2.973	2.491	2.412	2.361	2.753	16.93
32)	T	1,2-Dichloroethane	1.507	1.443	1.317	1.101	1.073	1.027	1.204	17.95
33)	I	1,4-Difluorobenzene	----------ISTD----------							
34)	T	Heptane	0.794	0.949	0.872	0.767	0.749	0.697	0.773	15.30
35)	T	Trichloroethene	0.392	0.491	0.456	0.410	0.412	0.421	0.423	9.14
36)	T	1,2-Dichloropropane	0.361	0.391	0.355	0.302	0.298	0.302	0.328	12.21
37)	T	1,4-Dioxane	0.122	0.154	0.142	0.124	0.120	0.118	0.127	12.01
38)	T	Bromodichloromethan	0.593	0.735	0.676	0.597	0.592	0.604	0.623	9.62
39)	T	cis-1,3-Dichloropro	0.506	0.577	0.527	0.458	0.452	0.458	0.490	9.99
40)	T	4-Methyl-2-pentanon	0.194	0.278	0.255	0.224	0.221	0.217	0.228	12.65
41)	T	Toluene	0.946	1.026	0.938	0.817	0.807	0.810	0.874	10.89
42)	T	trans-1,3-Dichlorop	0.431	0.497	0.460	0.401	0.392	0.395	0.424	9.67
43)	T	1,1,2-Trichloroetha	0.318	0.349	0.324	0.284	0.284	0.291	0.305	8.32
44)	T	Tetrachloroethene	0.439	0.542	0.508	0.458	0.473	0.461	0.468	10.14
45)	T	2-Hexanone	0.416	0.589	0.544	0.484	0.471	0.450	0.482	13.42
46)	T	Chlorodibromomethan	0.425	0.537	0.497	0.448	0.454	0.470	0.468	8.19
47)	T	1,2-Dibromoethane	0.447	0.503	0.468	0.412	0.410	0.417	0.437	8.61
48)	I	Chlorobenzene-d5	----------ISTD----------							
49)	T	Chlorobenzene	0.909	0.959	0.894	0.792	0.784	0.788	0.842	9.04
50)	T	Ethylbenzene	1.578	1.626	1.494	1.347	1.319	1.295	1.408	11.36
51)	T	m,p-Xylene	1.222	1.316	1.226	1.105	1.075	0.985	1.103	16.07
52)	T	o-Xylene	1.143	1.179	1.097	1.006	0.990	0.977	1.040	9.91
53)	T	Styrene	0.792	0.819	0.767	0.705	0.688	0.690	0.729	8.84
54)	T	Bromoform	0.527	0.626	0.596	0.543	0.535	0.534	0.550	8.33
55)	S	4-Bromofluorobenzen	0.637	0.590	0.588	0.581	0.564	0.552	0.579	5.48
56)	T	1,1,2,2-Tetrachloro	1.045	0.910	0.851	0.762	0.723	0.681	0.799	18.20
57)	T	4-Ethyltoluene	1.710	1.366	1.260	1.157	1.108	1.065	1.239	19.42

(#) = Out of Range ### Number of calibration levels exceeded format ###

Method : C:\HPCHEM\1\METHODS\111411V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Nov 15 09:19:29 2011
Response via : Initial Calibration

Calibration Files
2 =11141105.D 4 =11141107.D 5 =11141108.D
6 =11141109.D 7 =11141110.D 8 =11141111.D

		Compound	2	4	5	6	7	8	Avg	%RSD
58)	T	1,3,5-Trimethylbenz	1.440	1.125	1.046	0.939	0.918	0.890	1.028	20.05
59)	T	1,2,4-Trimethylbenz	1.374	1.055	0.982	0.887	0.852	0.812	0.961	21.59
60)	T	1,3-Dichlorobenzene	0.839	0.698	0.656	0.579	0.549	0.515	0.616	20.17
61)	T	1,4-Dichlorobenzene	0.753	0.663	0.618	0.547	0.519	0.489	0.577	18.34
62)	T	Benzyl chloride	0.705	0.903	0.855	0.757	0.717	0.648	0.740	14.82
63)	T	1,2-Dichlorobenzene	0.797	0.638	0.595	0.527	0.493	0.444	0.557	23.88
64)	T	1,2,4-Trichlorobenz		0.143	0.128	0.119	0.118	0.113	0.122	9.73
65)	T	Hexachlorobutadiene		0.328	0.294	0.273	0.262	0.246	0.274	11.89
66)		Naphthalene		0.245	0.217	0.205	0.200	0.187	0.207	10.70

(#) = Out of Range ### Number of calibration levels exceeded format ###

Compound List Report VOA 1

Method : C:\HPCHEM\1\METHODS\111411V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Tue Nov 15 09:19:29 2011
Response via : Initial Calibration
Total Cpnds : 66

PK#		Compound Name	QIon	Exp RT	Rel RT	Cal	#Qual	A/H	ID
1	I	Bromochloromethane	130	10.59	1.000	A	2	A	B
2	T	Propylene	41	5.51	0.520	A	2	A	B
3	T	Dichlorodifluoromethane	85	5.58	0.527	A	3	A	B
4	T	1,2-Dichloro-1,2,2,2-tetrafluo	135	5.84	0.551	A	2	A	B
5	T	Chloromethane	50	5.99	0.566	A	3	A	B
6	T	Vinyl chloride	62	6.20	0.586	A	2	A	B
7	T	1,3-Butadiene	39	6.26	0.591	A	2	A	B
8	T	Bromomethane	94	6.84	0.646	A	3	A	B
9	T	Chloroethane	64	6.99	0.661	A	3	A	B
10	T	Trichlorofluoromethane	101	7.33	0.692	A	3	A	B
11	T	Ethanol	45	7.55	0.713	A	2	A	B
12	T	Freon113	101	7.99	0.754	A	2	A	B
13	T	1,1-Dichloroethene	61	8.09	0.764	A	2	A	B
14	T	Acetone	43	8.18	0.773	A	2	A	B
15	T	Carbon disulfide	76	8.46	0.799	A	3	A	B
16	T	2-Propanol	45	8.23	0.777	A	2	A	B
17	T	Methylene chloride	49	8.75	0.827	A	2	A	B
18	T	tert-Butyl Methyl Ether	73	8.95	0.845	A	2	A	B
19	T	trans-1,2-Dichloroethene	61	9.03	0.853	A	2	A	B
20	T	n-Hexane	57	9.22	0.871	A	3	A	B
21	T	1,1-Dichloroethane	63	9.59	0.906	A	3	A	B
22	T	Vinyl acetate	43	9.52	0.900	A	2	A	B
23	T	cis-1,2-Dichloroethene	96	10.28	0.971	A	3	A	B
24	T	2-Butanone	43	10.25	0.968	A	2	A	B
25	T	Ethyl acetate	43	10.19	0.963	A	3	A	B
26	T	Tetrahydrofuran	42	10.58	1.000	A	2	A	B
27	T	Chloroform	83	10.60	1.001	A	2	A	B
28	T	1,1,1-Trichloroethane	97	10.85	1.025	A	3	A	B
29	T	Cyclohexane	56	10.86	1.026	A	2	A	B
30	T	Carbon tetrachloride	117	11.02	1.041	A	3	A	B
31	T	Benzene	78	11.30	1.067	A	3	A	B
32	T	1,2-Dichloroethane	62	11.37	1.074	A	3	A	B
33	I	1,4-Difluorobenzene	114	11.69	1.000	A	2	A	B
34	T	Heptane	43	11.34	0.970	A	3	A	B
35	T	Trichloroethene	130	12.03	1.029	A	3	A	B
36	T	1,2-Dichloropropane	63	12.39	1.060	A	3	A	B
37	T	1,4-Dioxane	88	12.45	1.065	A	2	A	B
38	T	Bromodichloromethane	83	12.67	1.084	A	2	A	B
39	T	cis-1,3-Dichloropropene	75	13.22	1.131	A	2	A	B
40	T	4-Methyl-2-pentanone	58	13.33	1.140	A	3	A	B
41	T	Toluene	91	13.63	1.166	A	2	A	B
42	T	trans-1,3-Dichloropropene	75	13.93	1.191	A	3	A	B
43	T	1,1,2-Trichloroethane	97	14.21	1.215	A	3	A	B
44	T	Tetrachloroethene	166	14.33	1.226	A	3	A	B
45	T	2-Hexanone	43	14.41	1.233	A	2	A	B
46	T	Chlorodibromomethane	129	14.75	1.262	A	2	A	B
47	T	1,2-Dibromoethane	107	14.99	1.282	A	2	A	B
48	I	Chlorobenzene-d5	117	15.54	1.000	A	2	A	B
49	T	Chlorobenzene	112	15.58	1.003	A	3	A	B
50	T	Ethylbenzene	91	15.62	1.005	A	2	A	B
51	T	m,p-Xylene	91	15.78	1.015	A	2	A	B
52	T	o-Xylene	91	16.37	1.054	A	2	A	B
53	T	Styrene	104	16.40	1.055	A	3	A	B
54	T	Bromoform	173	16.78	1.080	A	3	A	B
55	S	4-Bromofluorobenzene	95	17.19	1.106	A	2	A	B
56	T	1,1,2,2-Tetrachloroethane	83	17.36	1.117	A	2	A	B
57	T	4-Ethyltoluene	105	17.60	1.133	A	1	A	B
58	T	1,3,5-Trimethylbenzene	105	17.68	1.138	A	2	A	B
59	T	1,2,4-Trimethylbenzene	105	18.26	1.175	A	2	A	B
60	T	1,3-Dichlorobenzene	146	18.82	1.211	A	3	A	B
61	T	1,4-Dichlorobenzene	146	18.97	1.220	A	3	A	B
62	T	Benzyl chloride	91	19.17	1.234	A	2	A	B
63	T	1,2-Dichlorobenzene	146	19.61	1.262	A	3	A	B
64	T	1,2,4-Trichlorobenzene	180	22.77	1.465	A	3	A	B
65	T	Hexachlorobutadiene	225	22.97	1.478	A	2	A	B
66		Naphthalene	128	23.46	1.510	A	2	A	B

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Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO  = Quad w/origin
#Qual = number of qualifiers
  A/H = Area or Height
ID  R = R.T.  B = R.T. & Q  Q = Qvalue L = Largest  A = All
-------------------------------------------------------------------------
          111411V1.M     Thu Nov 17 13:24:39 2011
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Response Factor Report VOA 1

Method : C:\HPCHEM\1\METHODS\111711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Nov 18 09:29:35 2011
Response via : Initial Calibration

Calibration Files
2 =11171107.D 4 =11171108.D 5 =11171109.D
6 =11171110.D 7 =11171111.D 8 =11171112.D

		Compound	2	4	5	6	7	8	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------							
2)	T	Propylene	1.589	1.454	1.405	1.320	1.272	1.185	1.350	10.48
3)	T	Dichlorodifluoromet	3.344	3.584	3.460	3.281	3.197	3.020	3.293	5.77
4)	T	1,2-Dichloro-1,2,2,	2.212	2.475	2.402	2.303	2.284	2.181	2.294	4.80
5)	T	Chloromethane	1.470	1.482	1.390	1.276	1.215	1.105	1.289	12.68
6)	T	Vinyl chloride	1.663	1.823	1.735	1.667	1.618	1.267	1.524	21.57
7)	T	1,3-Butadiene	1.375	1.458	1.361	1.296	1.251	1.161	1.250	16.05
8)	T	Bromomethane	1.309	1.427	1.390	1.308	1.271	1.206	1.312	5.71
9)	T	Chloroethane	0.825	0.908	0.885	0.818	0.781	0.736	0.817	7.64
10)	T	Trichlorofluorometh	2.920	3.225	3.120	2.905	2.764	2.669	2.904	7.14
11)	T	Ethanol	0.340	0.423	0.405	0.383	0.326	0.339	0.370	10.85
12)	T	Freon113	2.404	2.798	2.625	2.450	2.263	2.182	2.388	11.38
13)	T	1,1-Dichloroethene	2.108	2.288	2.150	1.983	1.818	1.746	1.976	10.93
14)	T	Acetone	2.364	2.406	2.150	1.941	1.599	1.637	1.952	18.56
15)	T	Carbon disulfide	3.714	4.068	3.862	3.572	3.404	3.179	3.568	9.52
16)	T	2-Propanol	1.698	2.231	2.058	1.906	1.683	1.678	1.842	12.44
17)	T	Methylene chloride	1.903	1.849	1.687	1.540	1.379	1.324	1.570	15.81
18)	T	tert-Butyl Methyl E	3.169	3.315	2.942	2.670	2.165	2.321	2.698	16.90
19)	T	trans-1,2-Dichloroe	2.080	2.250	2.063	1.903	1.705	1.683	1.906	12.19
20)	T	n-Hexane	2.271	2.516	2.312	2.117	1.908	1.876	2.113	12.66
21)	T	1,1-Dichloroethane	2.460	2.692	2.480	2.259	2.016	1.987	2.268	12.57
22)	T	Vinyl acetate	3.056	3.926	3.500	3.095	2.507	2.621	3.033	17.68
23)	T	cis-1,2-Dichloroeth	1.274	1.437	1.333	1.235	1.118	1.125	1.237	9.72
24)	T	2-Butanone	2.394	2.642	2.318	2.131	1.746	1.668	2.087	18.43
25)	T	Ethyl acetate	3.004	3.477	3.157	2.777	2.262	2.334	2.756	17.49
26)	T	Tetrahydrofuran	1.322	1.595	1.439	1.294	1.115	1.095	1.266	16.56
27)	T	Chloroform	2.534	2.780	2.558	2.376	2.146	2.061	2.338	13.26
28)	T	1,1,1-Trichloroetha	2.216	2.639	2.470	2.278	2.078	1.989	2.208	13.10
29)	T	Cyclohexane	2.284	2.605	2.373	2.176	1.948	1.797	2.101	17.53
30)	T	Carbon tetrachlorid	2.012	2.394	2.243	2.071	1.903	1.900	2.050	9.97
31)	T	Benzene	3.533	3.809	3.468	3.111	2.622	2.672	3.117	15.92
32)	T	1,2-Dichloroethane	1.511	1.613	1.472	1.323	1.114	1.145	1.322	16.24
33)	I	1,4-Difluorobenzene	----------ISTD----------							
34)	T	Heptane	0.818	0.970	0.884	0.826	0.744	0.710	0.792	15.64
35)	T	Trichloroethene	0.418	0.512	0.475	0.451	0.418	0.426	0.441	9.32
36)	T	1,2-Dichloropropane	0.377	0.451	0.401	0.368	0.316	0.338	0.367	13.13
37)	T	1,4-Dioxane	0.124	0.172	0.160	0.151	0.129	0.137	0.143	12.50
38)	T	Bromodichloromethan	0.610	0.761	0.697	0.650	0.590	0.609	0.641	10.55
39)	T	cis-1,3-Dichloropro	0.527	0.646	0.588	0.543	0.483	0.506	0.540	10.84
40)	T	4-Methyl-2-pentanon	0.212	0.308	0.282	0.260	0.232	0.242	0.252	13.14
41)	T	Toluene	1.001	1.168	1.061	0.974	0.862	0.894	0.971	12.11
42)	T	trans-1,3-Dichlorop	0.438	0.548	0.503	0.464	0.418	0.437	0.462	10.27
43)	T	1,1,2-Trichloroetha	0.332	0.393	0.359	0.333	0.301	0.319	0.335	9.46
44)	T	Tetrachloroethene	0.467	0.560	0.529	0.487	0.473	0.466	0.483	10.54
45)	T	2-Hexanone	0.434	0.642	0.586	0.537	0.485	0.491	0.519	14.19
46)	T	Chlorodibromomethan	0.451	0.580	0.535	0.504	0.469	0.494	0.499	9.12
47)	T	1,2-Dibromoethane	0.478	0.558	0.513	0.476	0.434	0.450	0.477	9.61
48)	I	Chlorobenzene-d5	----------ISTD----------							
49)	T	Chlorobenzene	0.948	1.081	0.998	0.927	0.836	0.876	0.928	9.79
50)	T	Ethylbenzene	1.676	1.832	1.671	1.558	1.394	1.428	1.550	12.19
51)	T	m,p-Xylene	1.296	1.446	1.323	1.232	1.106	1.063	1.185	17.16
52)	T	o-Xylene	1.214	1.319	1.213	1.136	1.035	1.063	1.134	11.01
53)	T	Styrene	0.862	0.920	0.850	0.792	0.731	0.754	0.800	10.11
54)	T	Bromoform	0.574	0.678	0.635	0.589	0.556	0.574	0.589	9.03
55)	S	4-Bromofluorobenzen	0.650	0.583	0.585	0.563	0.566	0.548	0.574	6.85
56)	T	1,1,2,2-Tetrachloro	1.163	1.029	0.949	0.851	0.795	0.770	0.892	18.52
57)	T	4-Ethyltoluene	1.915	1.554	1.427	1.289	1.191	1.190	1.382	20.37

(#) = Out of Range ### Number of calibration levels exceeded format ###

Response Factor Report VOA 1

Method : C:\HPCHEM\1\METHODS\111711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Nov 18 09:29:35 2011
Response via : Initial Calibration

Calibration Files
2 =11171107.D 4 =11171108.D 5 =11171109.D
6 =11171110.D 7 =11171111.D 8 =11171112.D

		Compound	2	4	5	6	7	8	Avg	%RSD
58)	T	1,3,5-Trimethylbenz	1.665	1.291	1.190	1.070	1.001	0.992	1.161	22.05
59)	T	1,2,4-Trimethylbenz	1.566	1.239	1.135	1.027	0.946	0.935	1.102	21.87
60)	T	1,3-Dichlorobenzene	0.876	0.786	0.729	0.652	0.608	0.585	0.682	17.78
61)	T	1,4-Dichlorobenzene	0.784	0.744	0.675	0.611	0.574	0.551	0.636	16.10
62)	T	Benzyl chloride	0.651	1.014	0.948	0.864	0.798	0.788	0.824	15.65
63)	T	1,2-Dichlorobenzene	0.850	0.739	0.683	0.608	0.561	0.545	0.640	19.48
64)	T	1,2,4-Trichlorobenz		0.134	0.131	0.123	0.112	0.117	0.122	7.08
65)	T	Hexachlorobutadiene		0.312	0.295	0.280	0.248	0.246	0.270	11.15
66)		Naphthalene		0.224	0.218	0.208	0.186	0.191	0.203	7.84

(#) = Out of Range ### Number of calibration levels exceeded format ###

Compound List Report VOA 1

Method : C:\HPCHEM\1\METHODS\111711V1.M (RTE Integrator)
Title : TO15 ppbv
Last Update : Fri Nov 18 09:29:35 2011
Response via : Initial Calibration
Total Cpnds : 66

PK#			Compound Name	QIon	Exp RT	Rel RT	Cal	#Qual	A/H	ID
1	I		Bromochloromethane	130	10.59	1.000	A	2	A	B
2		T	Propylene	41	5.52	0.521	A	2	A	B
3		T	Dichlorodifluoromethane	85	5.59	0.528	A	3	A	B
4		T	1,2-Dichloro-1,2,2,2-tetrafluo	135	5.84	0.552	A	2	A	B
5		T	Chloromethane	50	6.00	0.566	A	3	A	B
6		T	Vinyl chloride	62	6.21	0.586	A	2	A	B
7		T	1,3-Butadiene	39	6.27	0.592	A	2	A	B
8		T	Bromomethane	94	6.85	0.647	A	3	A	B
9		T	Chloroethane	64	7.00	0.661	A	3	A	B
10		T	Trichlorofluoromethane	101	7.34	0.693	A	3	A	B
11		T	Ethanol	45	7.56	0.714	A	2	A	B
12		T	Freon113	101	7.99	0.755	A	2	A	B
13		T	1,1-Dichloroethene	61	8.09	0.764	A	2	A	B
14		T	Acetone	43	8.18	0.773	A	2	A	B
15		T	Carbon disulfide	76	8.46	0.799	A	3	A	B
16		T	2-Propanol	45	8.23	0.777	A	2	A	B
17		T	Methylene chloride	49	8.75	0.827	A	2	A	B
18		T	tert-Butyl Methyl Ether	73	8.95	0.845	A	2	A	B
19		T	trans-1,2-Dichloroethene	61	9.04	0.853	A	2	A	B
20		T	n-Hexane	57	9.22	0.871	A	3	A	B
21		T	1,1-Dichloroethane	63	9.60	0.906	A	3	A	B
22		T	Vinyl acetate	43	9.53	0.900	A	2	A	B
23		T	cis-1,2-Dichloroethene	96	10.28	0.971	A	3	A	B
24		T	2-Butanone	43	10.24	0.967	A	2	A	B
25		T	Ethyl acetate	43	10.20	0.963	A	3	A	B
26		T	Tetrahydrofuran	42	10.58	1.000	A	2	A	B
27		T	Chloroform	83	10.61	1.001	A	2	A	B
28		T	1,1,1-Trichloroethane	97	10.86	1.025	A	3	A	B
29		T	Cyclohexane	56	10.86	1.026	A	2	A	B
30		T	Carbon tetrachloride	117	11.02	1.040	A	3	A	B
31		T	Benzene	78	11.30	1.067	A	3	A	B
32		T	1,2-Dichloroethane	62	11.37	1.074	A	3	A	B
33	I		1,4-Difluorobenzene	114	11.69	1.000	A	2	A	B
34		T	Heptane	43	11.35	0.971	A	3	A	B
35		T	Trichloroethene	130	12.03	1.029	A	3	A	B
36		T	1,2-Dichloropropane	63	12.38	1.060	A	3	A	B
37		T	1,4-Dioxane	88	12.46	1.066	A	2	A	B
38		T	Bromodichloromethane	83	12.67	1.084	A	2	A	B
39		T	cis-1,3-Dichloropropene	75	13.22	1.131	A	2	A	B
40		T	4-Methyl-2-pentanone	58	13.33	1.141	A	3	A	B
41		T	Toluene	91	13.63	1.166	A	2	A	B
42		T	trans-1,3-Dichloropropene	75	13.93	1.192	A	3	A	B
43		T	1,1,2-Trichloroethane	97	14.20	1.215	A	3	A	B
44		T	Tetrachloroethene	166	14.33	1.226	A	3	A	B
45		T	2-Hexanone	43	14.41	1.233	A	2	A	B
46		T	Chlorodibromomethane	129	14.75	1.262	A	2	A	B
47		T	1,2-Dibromoethane	107	14.99	1.282	A	2	A	B
48	I		Chlorobenzene-d5	117	15.54	1.000	A	2	A	B
49		T	Chlorobenzene	112	15.58	1.003	A	3	A	B
50		T	Ethylbenzene	91	15.63	1.006	A	2	A	B
51		T	m,p-Xylene	91	15.78	1.015	A	2	A	B
52		T	o-Xylene	91	16.37	1.054	A	2	A	B
53		T	Styrene	104	16.40	1.056	A	3	A	B
54		T	Bromoform	173	16.78	1.080	A	3	A	B
55		S	4-Bromofluorobenzene	95	17.19	1.106	A	2	A	B
56		T	1,1,2,2-Tetrachloroethane	83	17.36	1.117	A	2	A	B
57		T	4-Ethyltoluene	105	17.60	1.133	A	1	A	B
58		T	1,3,5-Trimethylbenzene	105	17.68	1.138	A	2	A	B
59		T	1,2,4-Trimethylbenzene	105	18.27	1.176	A	2	A	B
60		T	1,3-Dichlorobenzene	146	18.82	1.211	A	3	A	B
61		T	1,4-Dichlorobenzene	146	18.97	1.221	A	3	A	B
62		T	Benzyl chloride	91	19.18	1.234	A	2	A	B
63		T	1,2-Dichlorobenzene	146	19.61	1.262	A	3	A	B
64		T	1,2,4-Trichlorobenzene	180	22.77	1.465	A	3	A	B
65		T	Hexachlorobutadiene	225	22.97	1.478	A	2	A	B
66			Naphthalene	128	23.46	1.510	A	2	A	B

```
Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
#Qual = number of qualifiers
 A/H = Area or Height
ID   R = R.T.   B = R.T. & Q  Q = Qvalue L = Largest  A = All
--------------------------------------------------------------------------------
          111711V1.M     Mon Nov 21 12:16:03 2011
```

RTI Laboratories

Run ID: VOA9_111114A **Run No.:** 44217

Analytical Run Date: 11/14/2011 **InstrumentID:** VOA9

Analyst: Rachel Hill **Column:**

Calibration ID: 44138 **Column ID:**

Column Length:

SampID	TestCode	SampType	Batch ID	Analysis Date/Time	QA By	Q	Comments
BFB 111411 VOA9	BFB_TUNE	TUNE	R44217	11/14/2011 9:49:00 AM	Robert Lynch		
CCV 111411 VOA9	MA_APH	CCV	R44217	11/14/2011 10:32:00 AM	Robert Lynch		
RLVS1 111411 VOA	MA_APH	RLVS	R44217	11/14/2011 11:19:00 AM	Robert Lynch		
BLK 111411 VOA9	MA_APH	MBLK	R44217	11/14/2011 12:10:00 PM	Charles O`Bryan		
1111437-038A	MA_APH	SAMP	R44217	11/14/2011 2:37:00 PM	Charles O`Bryan		
1111437-039A	MA_APH	SAMP	R44217	11/14/2011 4:10:00 PM	Charles O`Bryan		
1111437-042A	MA_APH	SAMP	R44217	11/14/2011 5:35:00 PM	Charles O`Bryan		
1111437-042Adup	MA_APH	DUP	R44217	11/14/2011 6:18:00 PM	Charles O`Bryan		
1111437-043A	MA_APH	SAMP	R44217	11/14/2011 7:01:00 PM	Charles O`Bryan		
1111437-022A	MA_APH	SAMP	R44217	11/14/2011 8:26:00 PM	Charles O`Bryan		
1111437-023A	MA_APH	SAMP	R44217	11/14/2011 9:51:00 PM	Charles O`Bryan		
1111437-037A	MA_APH	SAMP	R44217	11/15/2011 2:07:00 AM	Charles O`Bryan		
1111437-041A	MA_APH	SAMP	R44217	11/15/2011 2:56:00 AM	Charles O`Bryan		
1111437-021A	MA_APH	SAMP	R44217	11/15/2011 3:42:00 AM	Charles O`Bryan		
1111437-025A	MA_APH	SAMP	R44217	11/15/2011 6:27:00 AM	Charles O`Bryan		
1111437-026A	MA_APH	SAMP	R44217	11/15/2011 7:16:00 AM	Charles O`Bryan		
1111437-027A	MA_APH	SAMP	R44217	11/15/2011 8:06:00 AM	Charles O`Bryan		
RLVS2 111411 VOA	MA_APH	RLVS	R44217	11/15/2011 8:48:00 AM	Robert Lynch		

RTI Laboratories

ANALYTICAL RUN Summary

22-Dec-11

RunNo 44217

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
867605	BFB 111411 VOA9	BFB_TUNE	TUNE	\1\DATA\111411	11/14/2011 9:49:	1	R44217		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
173	M		0	0		100	0	0	0	0	0	0%	0	2	0%	
174	M		57.6	57.6		100	0	0	0	0	0	58%	50	120	0%	
175	M		7.5	7.5		100	0	0	0	0	0	8%	4	9	0%	
176	M		96.7	96.7		100	0	0	0	0	0	97%	93	101	0%	
177	M		6.7	6.7		100	0	0	0	0	0	7%	5	9	0%	
50	M		27.5	27.5		100	0	0	0	0	0	28%	8	40	0%	
75	M		51.9	51.9		100	0	0	0	0	0	52%	30	66	0%	
95	M		100	100		100	0	0	0	0	0	100%	100	100	0%	
96	M		6.5	6.5		100	0	0	0	0	0	7%	5	9	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
867606	CCV 111411 VOA9	MA_APH	CCV	\1\DATA\111411	11/14/2011 10:3	1	R44217		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	225.59	225.59		234	0	0	0	0	0	96%	70	130	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³		0		0	0	0	29.876	117	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	261.82	261.82		266	0	0	0	0	0	98%	70	130	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³		0		0	0	0	35.658	133	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	370.02	370.02		378	0	0	0	0	0	98%	70	130	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³		0		0	0	0	25.766	189	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
non C5-C8 - TOTAL	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
non C9-C12 - TOTAL	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
Chlorobenzene-d5	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	88.6	88.6		89.5	0	0	0	0	0	99%	70	130	0%	

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\111411\11141102.D Vial: 2
Acq On : 14 Nov 2011 10:32 am Operator: RACHEL HILL
Sample : CCV 111411 VOA9 Inst : GC/MS Ins
Misc : CCV MA APH Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Nov 15 9:38 2011 Quant Results File: 110811V9.RES

Quant Method : C:\HPCHEM\1\METHODS\110811V9.M (RTE Integrator)
Title : MASS APH
Last Update : Thu Nov 10 11:53:00 2011
Response via : Initial Calibration
DataAcq Meth : 110811V9

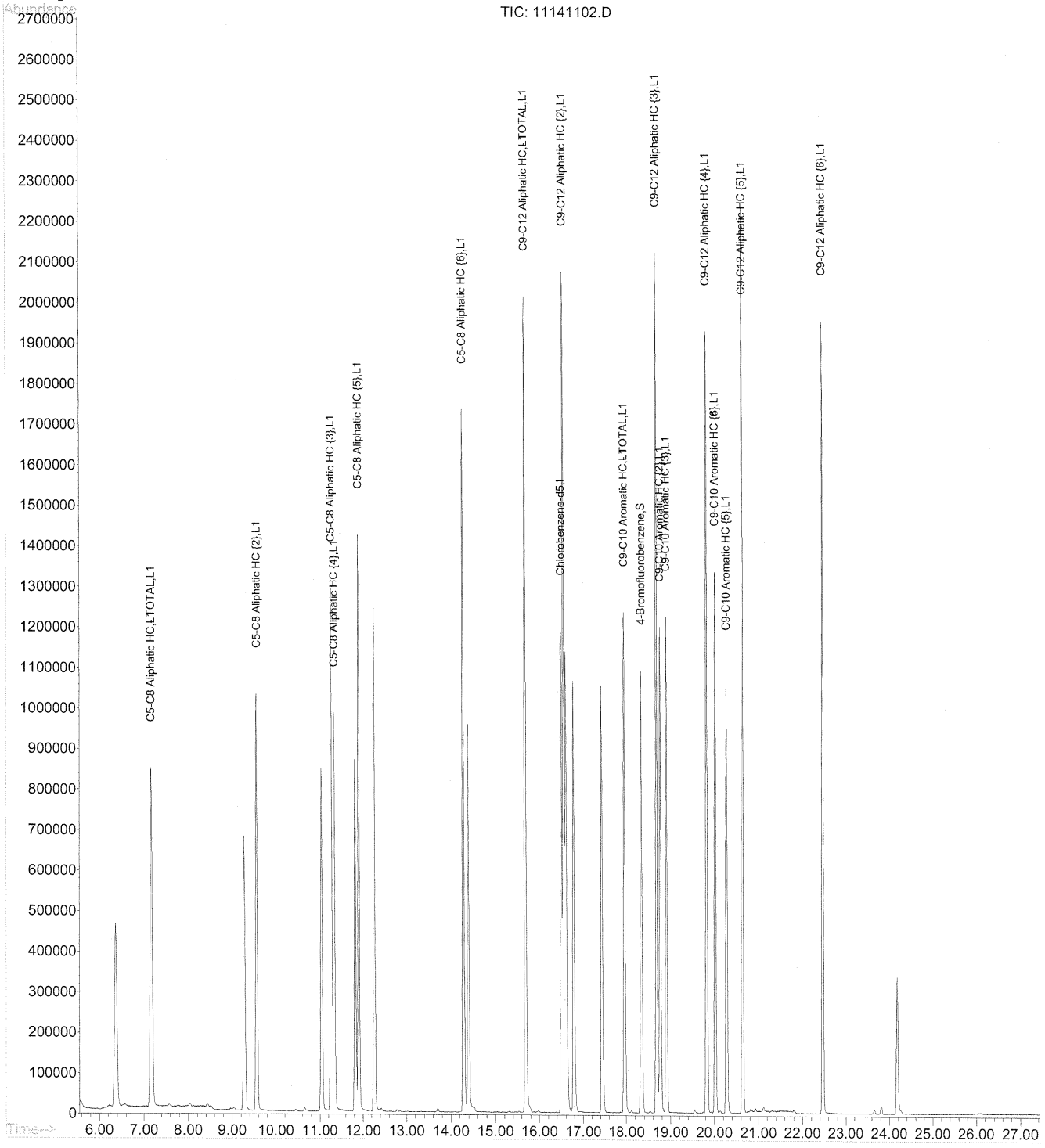
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	16.51	117	808010	12.50	ug/m3	-0.01
System Monitoring Compounds						
41) 4-Bromofluorobenzene	18.34	95	548904	88.60	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 98.99%			
Target Compounds						Qvalue
1) C5-C8 Aliphatic HC	7.17	TIC	2856143	29.16	ug/m3	100
2) C5-C8 Aliphatic HC {2}	9.56	TIC	2586294	34.84	ug/m3	100
3) C5-C8 Aliphatic HC {3}	11.27	TIC	3267344	39.75	ug/m3	100
4) C5-C8 Aliphatic HC {4}	11.34	TIC	2517772	34.20	ug/m3	100
5) C5-C8 Aliphatic HC {5}	11.91	TIC	3169340	40.39	ug/m3	100
6) C5-C8 Aliphatic HC {6}	14.29	TIC	3726771	47.05	ug/m3	100
7) C5-C8 Aliphatic HC - TOTAL	7.17	TIC	18123664m	225.59	ug/m3	
8) C9-C12 Aliphatic HC	15.69	TIC	4598374	52.69	ug/m3	100
9) C9-C12 Aliphatic HC {2}	16.56	TIC	4572046	53.24	ug/m3	100
10) C9-C12 Aliphatic HC {3}	18.68	TIC	4399432	59.90	ug/m3	100
11) C9-C12 Aliphatic HC {4}	19.83	TIC	4260110	59.69	ug/m3	100
12) C9-C12 Aliphatic HC {5}	20.64	TIC	4542711	69.32	ug/m3	100
13) C9-C12 Aliphatic HC {6}	22.46	TIC	3937710	75.62	ug/m3	100
14) C9-C12 Aliphatic HC - TOTA	15.69	TIC	26310383m	370.02	ug/m3	
15) C9-C10 Aromatic HC	17.97	120	269589	49.60	ug/m3	100
16) C9-C10 Aromatic HC {2}	18.76	120	290230	50.12	ug/m3	100
17) C9-C10 Aromatic HC {3}	18.91	120	429807	51.88	ug/m3	100
18) C9-C10 Aromatic HC {4}	20.02	120	100445	57.58	ug/m3	100
19) C9-C10 Aromatic HC {5}	20.28	120	333357	51.78	ug/m3	100
20) C9-C10 Aromatic HC {6}	20.02	134	243222	58.11	ug/m3	100
21) C9-C10 Aromatic HC - TOTAL	17.97	TIC	1666650m	261.82	ug/m3	

(#) = qualifier out of range (m) = manual integration
11141102.D 110811V9.M Tue Nov 15 15:02:05 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\111411\11141102.D Vial: 2
Acq On : 14 Nov 2011 10:32 am Operator: RACHEL HILL
Sample : CCV 111411 VOA9 Inst : GC/MS Ins
Misc : CCV MA APH Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Nov 15 9:38 2011 Quant Results File: 110811V9.RES

Method : C:\HPCHEM\1\METHODS\110811V9.M (RTE Integrator)
Title : MASS APH
Last Update : Thu Nov 10 11:53:00 2011
Response via : Initial Calibration



11141102.D 110811V9.M Tue Nov 15 15:02:05 2011 Page 2

RTI Laboratories

Run ID: VOA9_111115A **Run No.:** 44253

Analytical Run Date: 11/15/2011 **InstrumentID:** VOA9

Analyst: Rachel Hill **Column:**

Calibration ID: 44138 **Column ID:**

Column Length:

SampID	TestCode	SampType	Batch ID	Analysis Date/Time	QA By	Q	Comments
BFB 111511 VOA9	BFB_TUNE	TUNE	R44253	11/15/2011 10:01:00 AM	Robert Lynch		
CCV 111511 VOA9	MA_APH	CCV	R44253	11/15/2011 10:44:00 AM	Robert Lynch		
RLVS1 111511 VOA	MA_APH	RLVS	R44253	11/15/2011 11:47:00 AM	Robert Lynch		
BLK 111511 VOA9	MA_APH	MBLK	R44253	11/15/2011 12:51:00 PM	Charles O`Bryan		
1111437-024A	MA_APH	SAMP	R44253	11/15/2011 1:34:00 PM	Charles O`Bryan		
1111437-028A	MA_APH	SAMP	R44253	11/15/2011 2:17:00 PM	Charles O`Bryan		
1111437-040A	MA_APH	SAMP	R44253	11/15/2011 2:59:00 PM	Charles O`Bryan		
1111437-029A	MA_APH	SAMP	R44253	11/15/2011 3:42:00 PM	Charles O`Bryan		
1111437-030A	MA_APH	SAMP	R44253	11/15/2011 4:25:00 PM	Charles O`Bryan		
1111437-030Adup	MA_APH	DUP	R44253	11/15/2011 5:07:00 PM	Charles O`Bryan		
1111437-005A	MA_APH	SAMP	R44253	11/15/2011 8:55:00 PM	Charles O`Bryan		
1111437-036A	MA_APH	SAMP	R44253	11/15/2011 11:56:00 PM	Charles O`Bryan		
1111437-017A	MA_APH	SAMP	R44253	11/16/2011 7:34:00 AM	Charles O`Bryan		
1111437-018A	MA_APH	SAMP	R44253	11/16/2011 8:23:00 AM	Charles O`Bryan		
RLVS1 111511 VOA	MA_APH	RLVS	R44253	11/16/2011 9:06:00 AM	Robert Lynch		

RTI Laboratories

ANALYTICAL RUN Summary

22-Dec-11

RunNo 44253

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
868408	BFB 111511 VOA9	BFB_TUNE	TUNE	\1\DATA\111511	11/15/2011 10:0	1	R44253		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
173	M		0	0		100	0	0	0	0	0	0%	0	2	0%	
174	M		56.9	56.9		100	0	0	0	0	0	57%	50	120	0%	
175	M		7.7	7.7		100	0	0	0	0	0	8%	4	9	0%	
176	M		95.6	95.6		100	0	0	0	0	0	96%	93	101	0%	
177	M		6.5	6.5		100	0	0	0	0	0	7%	5	9	0%	
50	M		27.6	27.6		100	0	0	0	0	0	28%	8	40	0%	
75	M		52.2	52.2		100	0	0	0	0	0	52%	30	66	0%	
95	M		100	100		100	0	0	0	0	0	100%	100	100	0%	
96	M		6.9	6.9		100	0	0	0	0	0	7%	5	9	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
868409	CCV 111511 VOA9	MA_APH	CCV	\1\DATA\111511	11/15/2011 10:4	1	R44253		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	229.89	229.89		234	0	0	0	0	0	98%	70	130	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³		0		0	0	0	29.876	117	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	261.84	261.84		266	0	0	0	0	0	98%	70	130	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³		0		0	0	0	35.658	133	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	375.76	375.76		378	0	0	0	0	0	99%	70	130	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³		0		0	0	0	25.766	189	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
non C5-C8 - TOTAL	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
non C9-C12 - TOTAL	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
Chlorobenzene-d5	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	89.38	89.38		89.5	0	0	0	0	0	100%	70	130	0%	

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\111511\11151102.D Vial: 2
Acq On : 15 Nov 2011 10:44 am Operator: RACHEL HILL
Sample : CCV 111511 VOA9 Inst : GC/MS Ins
Misc : CCV MA APH Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Nov 16 9:45 2011 Quant Results File: 110811V9.RES

Quant Method : C:\HPCHEM\1\METHODS\110811V9.M (RTE Integrator)
Title : MASS APH
Last Update : Thu Nov 10 11:53:00 2011
Response via : Initial Calibration
DataAcq Meth : 110811V9

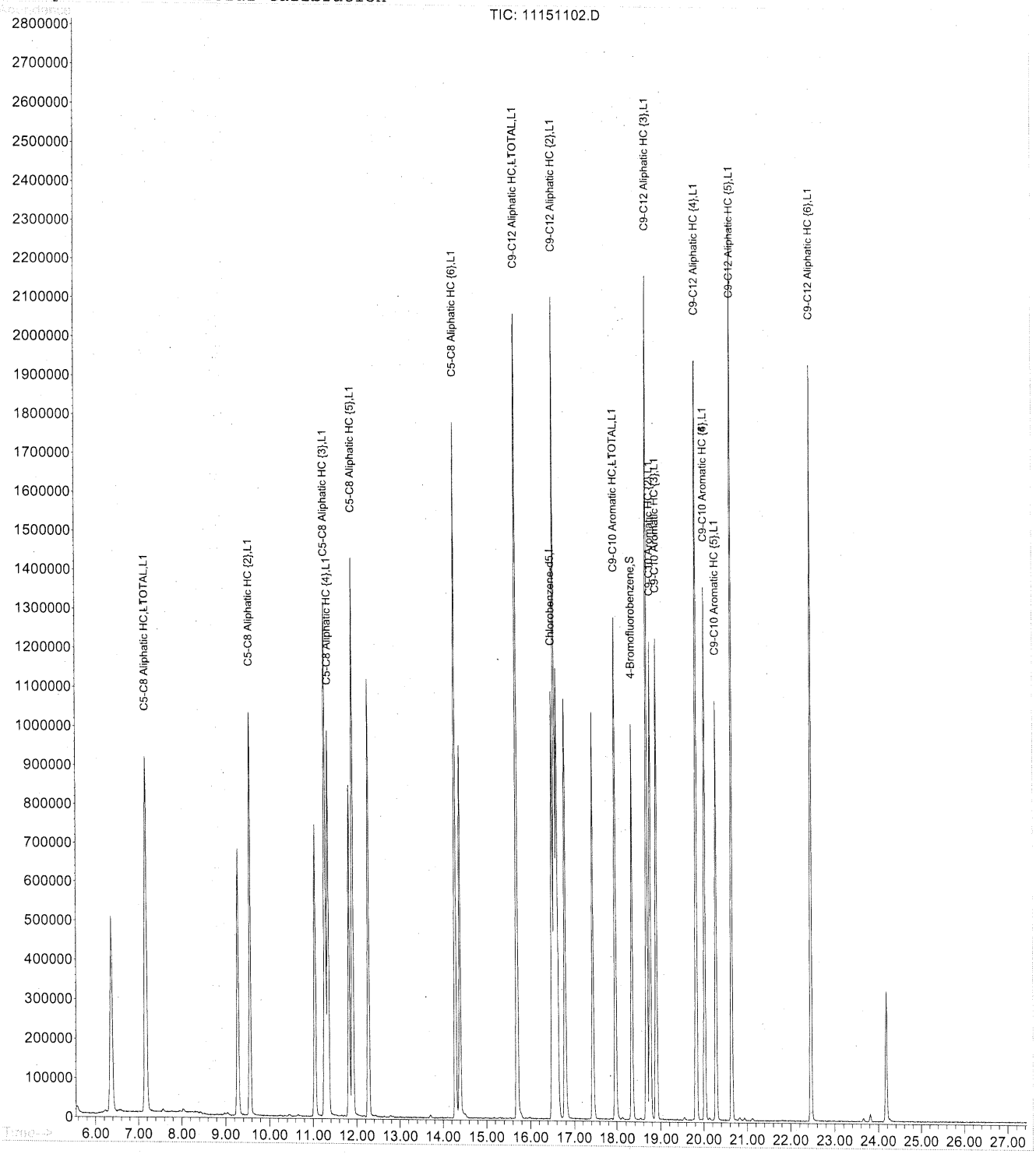
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	16.50	117	720059	12.50	ug/m3	-0.01
System Monitoring Compounds						
41) 4-Bromofluorobenzene	18.34	95	493470	89.38	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 99.87%			
Target Compounds						Qvalue
1) C5-C8 Aliphatic HC	7.17	TIC	3105185	31.70	ug/m3	100
2) C5-C8 Aliphatic HC (2)	9.56	TIC	2590257	34.90	ug/m3	100
3) C5-C8 Aliphatic HC (3)	11.27	TIC	3316856	40.35	ug/m3	100
4) C5-C8 Aliphatic HC (4)	11.35	TIC	2522281	34.26	ug/m3	100
5) C5-C8 Aliphatic HC (5)	11.91	TIC	3166357	40.35	ug/m3	100
6) C5-C8 Aliphatic HC (6)	14.29	TIC	3768041	47.57	ug/m3	100
7) C5-C8 Aliphatic HC - TOTAL	7.17	TIC	18468977m	229.89	ug/m3	
8) C9-C12 Aliphatic HC	15.70	TIC	4712163	53.99	ug/m3	100
9) C9-C12 Aliphatic HC (2)	16.56	TIC	4586859	53.42	ug/m3	100
10) C9-C12 Aliphatic HC (3)	18.68	TIC	4482118	61.03	ug/m3	100
11) C9-C12 Aliphatic HC (4)	19.83	TIC	4346835	60.91	ug/m3	100
12) C9-C12 Aliphatic HC (5)	20.64	TIC	4675699	71.35	ug/m3	100
13) C9-C12 Aliphatic HC (6)	22.46	TIC	3915055	75.18	ug/m3	100
14) C9-C12 Aliphatic HC - TOTA	15.70	TIC	26718729m	375.76	ug/m3	
15) C9-C10 Aromatic HC	17.97	120	275773	50.73	ug/m3	100
16) C9-C10 Aromatic HC (2)	18.76	120	291806	50.39	ug/m3	100
17) C9-C10 Aromatic HC (3)	18.91	120	426097	51.43	ug/m3	100
18) C9-C10 Aromatic HC (4)	20.02	120	99320	56.93	ug/m3	100
19) C9-C10 Aromatic HC (5)	20.28	120	333083	51.74	ug/m3	100
20) C9-C10 Aromatic HC (6)	20.02	134	240715	57.51	ug/m3	100
21) C9-C10 Aromatic HC - TOTAL	17.97	TIC	1666794m	261.84	ug/m3	

(#) = qualifier out of range (m) = manual integration
11151102.D 110811V9.M Mon Nov 21 16:02:15 2011

Quantitation Report

Data File : C:\HPCHEM\1\DATA\111511\11151102.D Vial: 2
Acq On : 15 Nov 2011 10:44 am Operator: RACHEL HILL
Sample : CCV 111511 VOA9 Inst : GC/MS Ins
Misc : CCV MA APH Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Nov 16 9:45 2011 Quant Results File: 110811V9.RES

Method : C:\HPCHEM\1\METHODS\110811V9.M (RTE Integrator)
Title : MASS APH
Last Update : Thu Nov 10 11:53:00 2011
Response via : Initial Calibration



11151102.D 110811V9.M Mon Nov 21 16:02:15 2011 Page 2

RTI Laboratories

Run ID: VOA9_111116A **Run No.:** 44306

Analytical Run Date: 11/16/2011 **InstrumentID:** VOA9

Analyst: Rachel Hill **Column:**

Calibration ID: 44138 **Column ID:**

Column Length:

SampID	TestCode	SampType	Batch ID	Analysis Date/Time	QA By	Q	Comments
BFB 111611 VOA9	BFB_TUNE	TUNE	R44306	11/16/2011 10:03:00 AM	Robert Lynch		
CCV 111611 VOA9	MA_APH	CCV	R44306	11/16/2011 10:47:00 AM	Robert Lynch		
RLVS1 111611 VOA	MA_APH	RLVS	R44306	11/16/2011 11:38:00 AM	Robert Lynch		
BLK 111611 VOA9	MA_APH	MBLK	R44306	11/16/2011 12:39:00 PM	Charles O`Bryan		
1111437-031A	MA_APH	SAMP	R44306	11/16/2011 1:22:00 PM	Charles O`Bryan		
1111437-033A	MA_APH	SAMP	R44306	11/16/2011 2:05:00 PM	Charles O`Bryan		
1111437-034A	MA_APH	SAMP	R44306	11/16/2011 2:48:00 PM	Charles O`Bryan		
1111437-035A	MA_APH	SAMP	R44306	11/16/2011 3:30:00 PM	Charles O`Bryan		
1111437-004A	MA_APH	SAMP	R44306	11/16/2011 4:13:00 PM	Charles O`Bryan		
1111437-006A	MA_APH	SAMP	R44306	11/16/2011 4:57:00 PM	Charles O`Bryan		
1111437-007A	MA_APH	SAMP	R44306	11/16/2011 5:42:00 PM	Charles O`Bryan		
1111437-019A	MA_APH	SAMP	R44306	11/16/2011 6:31:00 PM	Charles O`Bryan		
1111437-008A	MA_APH	SAMP	R44306	11/16/2011 7:14:00 PM	Charles O`Bryan		
1111437-010A	MA_APH	SAMP	R44306	11/16/2011 8:39:00 PM	Charles O`Bryan		Sample needs further dilution. Reporting here to show that sample and duplicate were analyzed.
1111437-010Adup	MA_APH	DUP	R44306	11/16/2011 9:22:00 PM	Charles O`Bryan		
1111437-011A	MA_APH	SAMP	R44306	11/16/2011 10:04:00 PM	Charles O`Bryan		
1111437-002A	MA_APH	SAMP	R44306	11/16/2011 11:30:00 PM	Charles O`Bryan		
1111437-012A	MA_APH	SAMP	R44306	11/17/2011 12:56:00 AM	Charles O`Bryan		
RLVS2 111611 VOA	MA_APH	RLVS	R44306	11/17/2011 10:17:00 AM	Robert Lynch		Liquid nitrogen ran out in middle of the night, while sampling a sample. Was unable to flush system clean and re-run RLVS before 24hr clock due to LN tank going dry mid-analysis.

RTI Laboratories

ANALYTICAL RUN Summary

22-Dec-11

RunNo 44306

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
869384	BFB 111611 VOA9	BFB_TUNE	TUNE	:\1\DATA\11161111/16/2011 10:0		1	R44306		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
173	M		0	0		100	0	0	0	0	0	0%	0	2	0%	
174	M		58	58		100	0	0	0	0	0	58%	50	120	0%	
175	M		7.6	7.6		100	0	0	0	0	0	8%	4	9	0%	
176	M		96.2	96.2		100	0	0	0	0	0	96%	93	101	0%	
177	M		6.6	6.6		100	0	0	0	0	0	7%	5	9	0%	
50	M		27.7	27.7		100	0	0	0	0	0	28%	8	40	0%	
75	M		53	53		100	0	0	0	0	0	53%	30	66	0%	
95	M		100	100		100	0	0	0	0	0	100%	100	100	0%	
96	M		6.9	6.9		100	0	0	0	0	0	7%	5	9	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
869386	CCV 111611 VOA9	MA_APH	CCV	:\1\DATA\11161111/16/2011 10:4		1	R44306		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	223.81	223.81		234	0	0	0	0	0	96%	70	130	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³		0		0	0	0	29.876	117	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	252.37	252.37		266	0	0	0	0	0	95%	70	130	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³		0		0	0	0	35.658	133	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	357.82	357.82		378	0	0	0	0	0	95%	70	130	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³		0		0	0	0	25.766	189	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
non C5-C8 - TOTAL	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
non C9-C12 - TOTAL	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
Chlorobenzene-d5	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	89.32	89.32		89.5	0	0	0	0	0	100%	70	130	0%	

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\111611\11161102.D Vial: 2
Acq On : 16 Nov 2011 10:47 am Operator: RACHEL HILL
Sample : CCV 111611 VOA9 Inst : GC/MS Ins
Misc : CCV MA APH Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Nov 17 11:57 2011 Quant Results File: 110811V9.RES

Quant Method : C:\HPCHEM\1\METHODS\110811V9.M (RTE Integrator)
Title : MASS APH
Last Update : Thu Nov 10 11:53:00 2011
Response via : Initial Calibration
DataAcq Meth : 110811V9

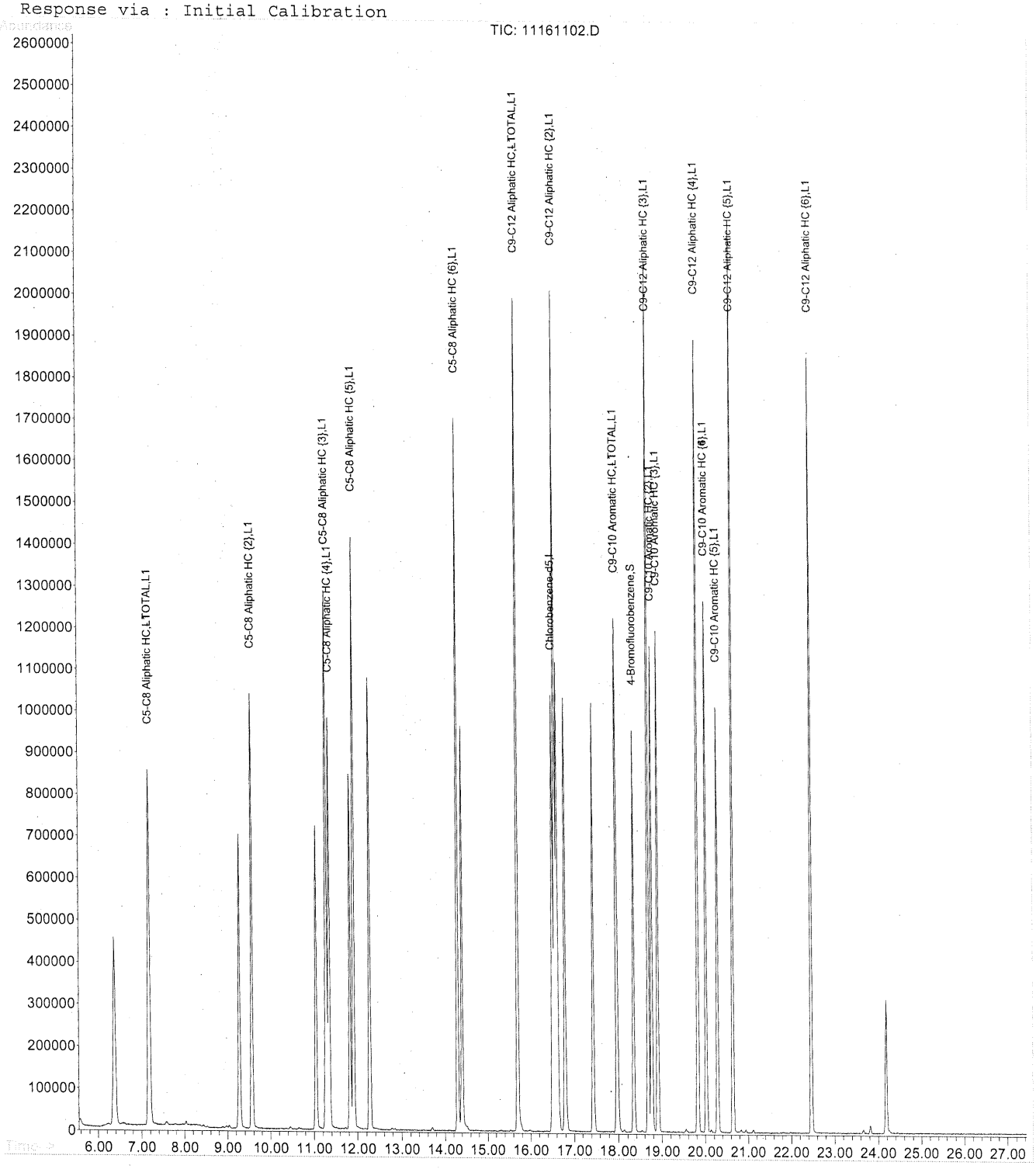
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	16.50	117	691913	12.50	ug/m3	-0.02
System Monitoring Compounds						
41) 4-Bromofluorobenzene	18.34	95	473859	89.32	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 99.80%			
Target Compounds						Qvalue
1) C5-C8 Aliphatic HC	7.17	TIC	2880196	29.40	ug/m3	100
2) C5-C8 Aliphatic HC {2}	9.56	TIC	2591044	34.91	ug/m3	100
3) C5-C8 Aliphatic HC {3}	11.27	TIC	3285561	39.97	ug/m3	100
4) C5-C8 Aliphatic HC {4}	11.34	TIC	2491046	33.83	ug/m3	100
5) C5-C8 Aliphatic HC {5}	11.91	TIC	3119075	39.75	ug/m3	100
6) C5-C8 Aliphatic HC {6}	14.29	TIC	3613668	45.63	ug/m3	100
7) C5-C8 Aliphatic HC - TOTAL	7.17	TIC	17980590m	223.81	ug/m3	
8) C9-C12 Aliphatic HC	15.70	TIC	4465652	51.17	ug/m3	100
9) C9-C12 Aliphatic HC {2}	16.56	TIC	4403763	51.29	ug/m3	100
10) C9-C12 Aliphatic HC {3}	18.68	TIC	4271259	58.16	ug/m3	100
11) C9-C12 Aliphatic HC {4}	19.83	TIC	4114556	57.65	ug/m3	100
12) C9-C12 Aliphatic HC {5}	20.64	TIC	4410401	67.30	ug/m3	100
13) C9-C12 Aliphatic HC {6}	22.47	TIC	3777147	72.54	ug/m3	100
14) C9-C12 Aliphatic HC - TOTA	15.70	TIC	25442778m	357.82	ug/m3	
15) C9-C10 Aromatic HC	17.98	120	264564	48.67	ug/m3	100
16) C9-C10 Aromatic HC {2}	18.76	120	279290	48.23	ug/m3	100
17) C9-C10 Aromatic HC {3}	18.91	120	412619	49.80	ug/m3	100
18) C9-C10 Aromatic HC {4}	20.02	120	95113	54.52	ug/m3	100
19) C9-C10 Aromatic HC {5}	20.29	120	321028	49.87	ug/m3	100
20) C9-C10 Aromatic HC {6}	20.03	134	233868	55.88	ug/m3	100
21) C9-C10 Aromatic HC - TOTAL	17.97	TIC	1606482m	252.37	ug/m3	

(#) = qualifier out of range (m) = manual integration
11161102.D 110811V9.M Thu Nov 17 12:45:17 2011 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\111611\11161102.D Vial: 2
Acq On : 16 Nov 2011 10:47 am Operator: RACHEL HILL
Sample : CCV 111611 VOA9 Inst : GC/MS Ins
Misc : CCV MA APH Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Nov 17 11:57 2011 Quant Results File: 110811V9.RES

Method : C:\HPCHEM\1\METHODS\110811V9.M (RTE Integrator)
Title : MASS APH
Last Update : Thu Nov 10 11:53:00 2011
Response via : Initial Calibration



11161102.D 110811V9.M Thu Nov 17 12:45:17 2011 Page 2

RTI Laboratories

Run ID: VOA9_111117A **Run No.:** 44336

Analytical Run Date: 11/17/2011 **InstrumentID:** VOA9

Analyst: Rachel Hill **Column:**

Calibration ID: 44138 **Column ID:**

Column Length:

SampID	TestCode	SampType	Batch ID	Analysis Date/Time	QA By	Q	Comments
BFB 111711 VOA9	BFB_TUNE	TUNE	R44336	11/17/2011 12:18:00 PM	Robert Lynch		
CCV 111711 VOA9	MA_APH	CCV	R44336	11/17/2011 1:01:00 PM	Robert Lynch		
RLVS1 111711 VOA	MA_APH	RLVS	R44336	11/17/2011 1:43:00 PM	Robert Lynch		
BLK 111711 VOA9	MA_APH	MBLK	R44336	11/17/2011 2:35:00 PM	Charles O`Bryan		
1111437-015A	MA_APH	SAMP	R44336	11/17/2011 3:18:00 PM	Charles O`Bryan		
1111437-016A	MA_APH	SAMP	R44336	11/17/2011 4:02:00 PM	Charles O`Bryan		
1111437-016Adup	MA_APH	DUP	R44336	11/17/2011 5:39:00 PM	Charles O`Bryan		
1111437-001A	MA_APH	SAMP	R44336	11/17/2011 6:31:00 PM	Charles O`Bryan		
1111437-003A	MA_APH	SAMP	R44336	11/17/2011 7:22:00 PM	Charles O`Bryan		
1111437-009A	MA_APH	SAMP	R44336	11/17/2011 8:07:00 PM	Charles O`Bryan		
1111437-010A	MA_APH	SAMP	R44336	11/17/2011 11:05:00 PM	Charles O`Bryan		
1111437-013A	MA_APH	SAMP	R44336	11/17/2011 11:50:00 PM	Charles O`Bryan		
1111437-014A	MA_APH	SAMP	R44336	11/18/2011 12:35:00 AM	Charles O`Bryan		
RLVS2 111711 VOA	MA_APH	RLVS	R44336	11/18/2011 1:19:00 AM	Robert Lynch		

RTI Laboratories

ANALYTICAL RUN Summary

22-Dec-11

RunNo 44336

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
870008	BFB 111711 VOA9	BFB_TUNE	TUNE	\1\DATA\11171111/17/2011 12:1		1	R44336		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
173	M		0	0		100	0	0	0	0	0	0%	0	2	0%	
174	M		59.1	59.1		100	0	0	0	0	0	59%	50	120	0%	
175	M		7.3	7.3		100	0	0	0	0	0	7%	4	9	0%	
176	M		96.8	96.8		100	0	0	0	0	0	97%	93	101	0%	
177	M		6.6	6.6		100	0	0	0	0	0	7%	5	9	0%	
50	M		27.4	27.4		100	0	0	0	0	0	27%	8	40	0%	
75	M		52.9	52.9		100	0	0	0	0	0	53%	30	66	0%	
95	M		100	100		100	0	0	0	0	0	100%	100	100	0%	
96	M		7	7		100	0	0	0	0	0	7%	5	9	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
870009	CCV 111711 VOA9	MA_APH	CCV	\1\DATA\11171111/17/2011 1:01:		1	R44336		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C5-C8 Aliphatic	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
C5-C8 Aliphatic HC - TOTAL	A	µg/m³	199.39	199.39		234	0	0	0	0	0	85%	70	130	0%	
C5-C8 Aliphatic Hydrocarbons	A	µg/m³		0		0	0	0	29.876	117	0	0%	0	0	0%	
C9-C10 Aromatic HC - TOTAL	A	µg/m³	226.9	226.9		266	0	0	0	0	0	85%	70	130	0%	
C9-C10 Aromatic Hydrocarbons	A	µg/m³		0		0	0	0	35.658	133	0	0%	0	0	0%	
C9-C12 Aliphatic	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
C9-C12 Aliphatic HC - TOTAL	A	µg/m³	321.84	321.84		378	0	0	0	0	0	85%	70	130	0%	
C9-C12 Aliphatic Hydrocarbons	A	µg/m³		0		0	0	0	25.766	189	0	0%	0	0	0%	
C9-C12 Aliphatic-Aromatic Hydrocarbons	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
non C5-C8 - TOTAL	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
non C9-C12 - TOTAL	A	µg/m³		0		0	0	0	0	0	0	0%	0	0	0%	
Chlorobenzene-d5	I	ppbv	12.5	12.5		12.5	0	0	0	0	0	100%	80	120	0%	
4-Bromofluorobenzene	S	µg/m³	86.28	86.28		89.5	0	0	0	0	0	96%	70	130	0%	

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\111711\11171102.D Vial: 2
Acq On : 17 Nov 2011 1:01 pm Operator: RACHEL HILL
Sample : CCV 111711 VOA9 Inst : GC/MS Ins
Misc : CCV MA APH Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Nov 18 10:38 2011 Quant Results File: 110811V9.RES

Quant Method : C:\HPCHEM\1\METHODS\110811V9.M (RTE Integrator)
Title : MASS APH
Last Update : Thu Nov 10 11:53:00 2011
Response via : Initial Calibration
DataAcq Meth : 110811V9

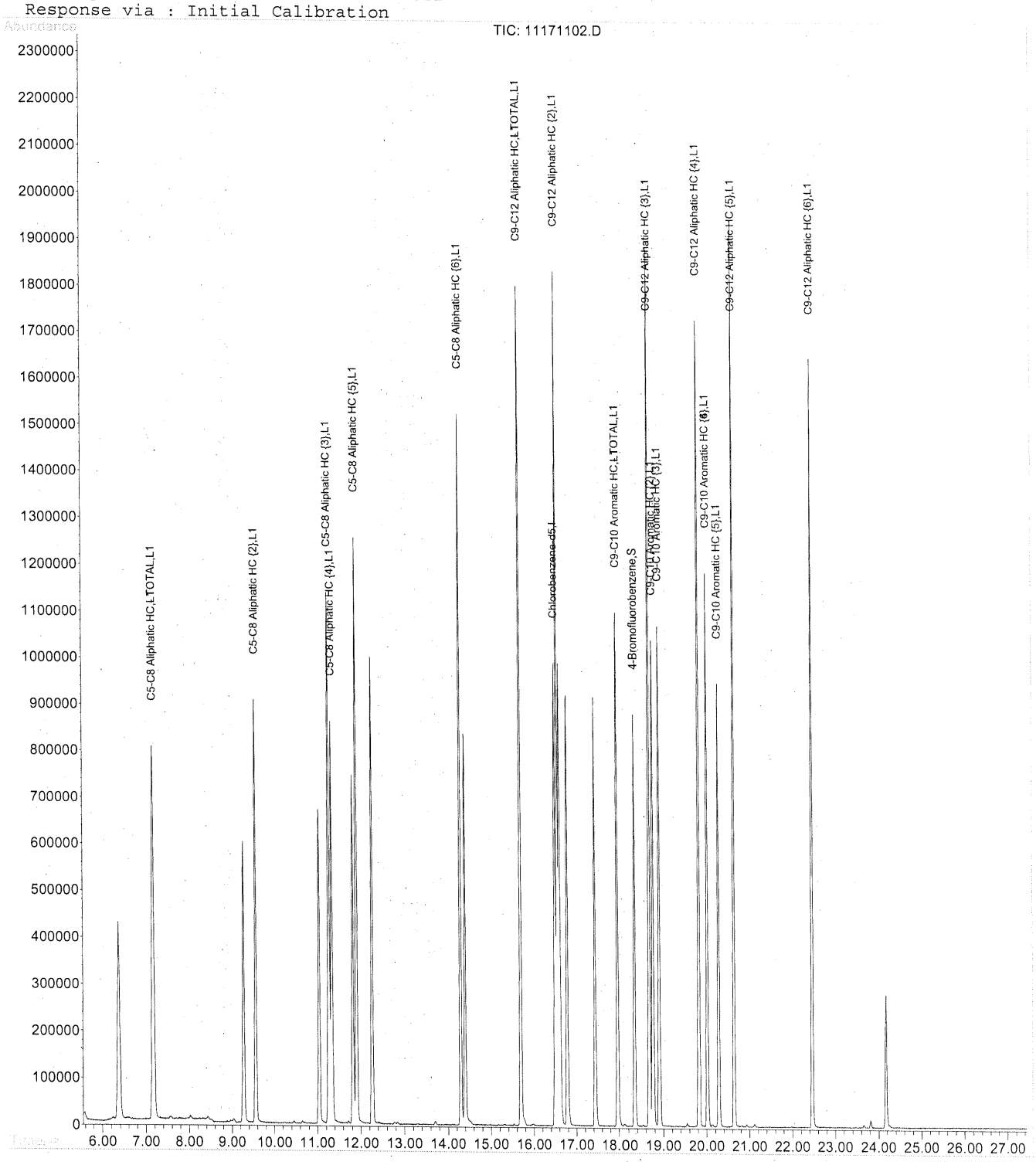
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	16.51	117	654083	12.50	ug/m3	-0.01
System Monitoring Compounds						
41) 4-Bromofluorobenzene	18.34	95	432676	86.28	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery = 96.40%			
Target Compounds						Qvalue
1) C5-C8 Aliphatic HC	7.17	TIC	2742240	27.99	ug/m3	100
2) C5-C8 Aliphatic HC {2}	9.56	TIC	2248709	30.29	ug/m3	100
3) C5-C8 Aliphatic HC {3}	11.27	TIC	2840757	34.56	ug/m3	100
4) C5-C8 Aliphatic HC {4}	11.34	TIC	2197773	29.85	ug/m3	100
5) C5-C8 Aliphatic HC {5}	11.91	TIC	2762811	35.21	ug/m3	100
6) C5-C8 Aliphatic HC {6}	14.29	TIC	3226843	40.74	ug/m3	100
7) C5-C8 Aliphatic HC - TOTAL	7.17	TIC	16019133m	199.39	ug/m3	
8) C9-C12 Aliphatic HC	15.69	TIC	4042537	46.32	ug/m3	100
9) C9-C12 Aliphatic HC {2}	16.56	TIC	3990408	46.47	ug/m3	100
10) C9-C12 Aliphatic HC {3}	18.68	TIC	3849042	52.41	ug/m3	100
11) C9-C12 Aliphatic HC {4}	19.82	TIC	3751697	52.57	ug/m3	100
12) C9-C12 Aliphatic HC {5}	20.64	TIC	3951726	60.31	ug/m3	100
13) C9-C12 Aliphatic HC {6}	22.46	TIC	3299195	63.36	ug/m3	100
14) C9-C12 Aliphatic HC - TOTA	15.69	TIC	22884605m	321.84	ug/m3	
15) C9-C10 Aromatic HC	17.97	120	235300	43.29	ug/m3	100
16) C9-C10 Aromatic HC {2}	18.76	120	250929	43.33	ug/m3	100
17) C9-C10 Aromatic HC {3}	18.90	120	367941	44.41	ug/m3	100
18) C9-C10 Aromatic HC {4}	20.02	120	87603	50.22	ug/m3	100
19) C9-C10 Aromatic HC {5}	20.28	120	291224	45.24	ug/m3	100
20) C9-C10 Aromatic HC {6}	20.02	134	211390	50.51	ug/m3	100
21) C9-C10 Aromatic HC - TOTAL	17.97	TIC	1444387m	226.90	ug/m3	

(#) = qualifier out of range (m) = manual integration
11171102.D 110811V9.M Fri Nov 18 12:23:15 2011

Quantitation Report

Data File : C:\HPCHEM\1\DATA\111711\11171102.D Vial: 2
Acq On : 17 Nov 2011 1:01 pm Operator: RACHEL HILL
Sample : CCV 111711 VOA9 Inst : GC/MS Ins
Misc : CCV MA APH Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Nov 18 10:38 2011 Quant Results File: 110811V9.RES

Method : C:\HPCHEM\1\METHODS\110811V9.M (RTE Integrator)
Title : MASS APH
Last Update : Thu Nov 10 11:53:00 2011
Response via : Initial Calibration



Response Factor Report GC/MS Ins

Method : C:\HPCHEM\1\METHODS\110811V9.M (RTE Integrator)
Title : MASS APH
Last Update : Thu Nov 10 11:53:00 2011
Response via : Initial Calibration

Calibration Files
1 =11091103.D 2 =11091104.D 3 =11091105.D
4 =11091106.D 5 =11091107.D 6 =11091108.D

		Compound	1	2	3	4	5	6	Avg		%RSD
1)	L1	C5-C8 Aliphatic HC	1.267	1.045	0.995	0.952	0.931	0.870	0.980	E5	15.32
2)	L1	C5-C8 Aliphatic HC	9.278	7.772	7.270	7.057	7.231	6.910	7.423	E4	12.27
3)	L1	C5-C8 Aliphatic HC	1.031	0.856	0.816	0.777	0.799	0.762	0.822	E5	12.48
4)	L1	C5-C8 Aliphatic HC	9.032	7.792	7.136	6.960	7.237	6.840	7.363	E4	11.29
5)	L1	C5-C8 Aliphatic HC	9.571	8.263	7.750	7.485	7.639	7.355	7.847	E4	11.08
6)	L1	C5-C8 Aliphatic HC	9.630	8.316	7.853	7.611	7.743	7.423	7.920	E4	11.01
7)	L1	C5-C8 Aliphatic HC	9.976	8.452	7.945	7.679	7.815	7.433	8.034	E4	12.12
8)	L1	C9-C12 Aliphatic HC	1.074	0.929	0.866	0.853	0.846	0.808	0.873	E5	12.29
9)	L1	C9-C12 Aliphatic HC	1.030	0.912	0.847	0.868	0.847	0.801	0.859	E5	11.56
10)	L1	C9-C12 Aliphatic HC	9.134	7.767	7.393	7.225	7.150	6.714	7.344	E4	13.12
11)	L1	C9-C12 Aliphatic HC	8.859	7.553	7.174	6.980	6.859	6.539	7.137	E4	12.68
12)	L1	C9-C12 Aliphatic HC	8.075	6.905	6.554	6.552	6.364	6.005	6.553	E4	12.57
13)	L1	C9-C12 Aliphatic HC	6.350	5.378	5.020	5.239	5.061	4.905	5.207	E4	11.05
14)	L1	C9-C12 Aliphatic HC	8.729	7.506	7.064	7.058	6.913	6.570	7.111	E4	12.18
15)	L1	C9-C10 Aromatic HC	6.487	5.529	5.253	5.225	5.258	5.203	5.436	E3	8.87
16)	L1	C9-C10 Aromatic HC	6.973	5.906	5.604	5.506	5.582	5.495	5.791	E3	9.36
17)	L1	C9-C10 Aromatic HC	1.003	0.848	0.803	0.798	0.800	0.780	0.828	E4	9.77
18)	L1	C9-C10 Aromatic HC	2.061	1.748	1.700	1.688	1.717	1.682	1.745	E3	8.31
19)	L1	C9-C10 Aromatic HC	7.763	6.525	6.244	6.163	6.220	6.121	6.438	E3	9.39
20)	L1	C9-C10 Aromatic HC	4.970	4.241	4.039	4.008	4.063	4.034	4.185	E3	8.56
21)	L1	C9-C10 Aromatic HC	7.658	6.487	6.159	6.092	6.140	6.065	6.366	E3	9.32
22)		C5-C8 Aliphatic	9.976	8.452	7.945	7.679	7.815	7.433	8.034	E4	12.12
23)	L1	non C5-C8	9.718	8.446	8.002	7.671	7.448	7.125	7.883	E4	12.42
24)	L1	non C5-C8 {2}	7.002	5.486	5.058	4.913	5.082	4.792	5.234	E4	16.38
25)	L1	non C5-C8 {3}	3.178	3.229	3.248	3.081	3.219	3.146	3.175	E4	1.92
26)	L1	non C5-C8 {4}	8.371	7.065	6.611	6.370	6.455	6.158	6.685	E4	12.63
27)	L1	non C5-C8 {5}	4.928	5.055	5.101	4.768	4.800	4.736	4.860	E4	3.57
28)	L1	non C5-C8 {6}	7.563	6.312	6.032	5.821	5.986	5.712	6.125	E4	11.25
29)	L1	non C5-C8 - TOTAL	5.380	5.391	5.305	5.196	5.412	5.362	5.318	E4	1.79
30)		C9-C12 Aliphatic	8.729	7.506	7.064	7.058	6.913	6.570	7.111	E4	12.18
31)	L1	non C9-C12	4.730	4.707	4.761	4.405	4.472	4.415	4.573	E4	3.39
32)	L1	non C9-C12 {2}	7.167	5.912	5.632	5.235	5.298	5.106	5.535	E4	15.54
33)	L1	non C9-C12 {3}	7.131	6.085	5.633	5.630	5.646	5.475	5.842	E4	10.55
34)	L1	non C9-C12 {4}	6.996	5.940	5.558	5.442	5.549	5.355	5.716	E4	10.69
35)	L1	non C9-C12 {5}	2.785	2.861	2.954	2.804	2.856	2.818	2.861	E4	2.37
36)	L1	non C9-C12 - TOTAL	4.154	3.982	3.870	3.731	3.807	3.729	3.832	E4	5.11
37)	L1	C9-C10 Aromatic	7.658	6.487	6.159	6.092	6.140	6.065	6.366	E3	9.32
38)	L1	C9-C10 Aromatic {2}	7.658	6.487	6.159	6.092	6.140	6.065	6.366	E3	9.32
39)	L1	C9-C10 Aromatic - T	7.658	6.487	6.159	6.092	6.140	6.065	6.366	E3	9.32
40)	I	Chlorobenzene-d5	----------ISTD----------								
41)	S	4-Bromofluorobenzen	0.094	0.094	0.094	0.096	0.096	0.097	0.096		1.94

(#) = Out of Range ### Number of calibration levels exceeded format ###

Compound List Report GC/MS Ins

Method : C:\HPCHEM\1\METHODS\110811V9.M (RTE Integrator)
Title : MASS APH
Last Update : Thu Nov 10 11:53:00 2011
Response via : Initial Calibration
Total Cpnds : 41

PK#		Compound Name	QIon	Exp RT	Rel RT	Cal	#Qual	A/H	ID
1	L1	C5-C8 Aliphatic HC	TIC	7.21	1.000	A	0	A	B
2	L1	C5-C8 Aliphatic HC {2}	TIC	9.59	1.000	A	0	A	B
3	L1	C5-C8 Aliphatic HC {3}	TIC	11.30	1.000	A	0	A	B
4	L1	C5-C8 Aliphatic HC {4}	TIC	11.37	1.000	A	0	A	B
5	L1	C5-C8 Aliphatic HC {5}	TIC	11.93	1.000	A	0	A	B
6	L1	C5-C8 Aliphatic HC {6}	TIC	14.31	1.000	A	0	A	B
7	L1	C5-C8 Aliphatic HC - TOTAL	TIC	7.00	1.000	A	0	A	B
8	L1	C9-C12 Aliphatic HC	TIC	15.71	1.000	A	0	A	B
9	L1	C9-C12 Aliphatic HC {2}	TIC	16.58	1.000	A	0	A	B
10	L1	C9-C12 Aliphatic HC {3}	TIC	18.69	1.000	A	0	A	B
11	L1	C9-C12 Aliphatic HC {4}	TIC	19.84	1.000	A	0	A	B
12	L1	C9-C12 Aliphatic HC {5}	TIC	20.66	1.000	A	0	A	B
13	L1	C9-C12 Aliphatic HC {6}	TIC	22.48	1.000	A	0	A	B
14	L1	C9-C12 Aliphatic HC - TOTAL	TIC	15.71	1.000	A	0	A	B
15	L1	C9-C10 Aromatic HC	120	17.99	1.000	A	0	A	B
16	L1	C9-C10 Aromatic HC {2}	120	18.78	1.000	A	0	A	B
17	L1	C9-C10 Aromatic HC {3}	120	18.92	1.000	A	0	A	B
18	L1	C9-C10 Aromatic HC {4}	120	20.04	1.000	A	0	A	B
19	L1	C9-C10 Aromatic HC {5}	120	20.30	1.000	A	0	A	B
20	L1	C9-C10 Aromatic HC {6}	134	20.04	1.000	A	0	A	B
21	L1	C9-C10 Aromatic HC - TOTAL	TIC	17.99	1.000	A	0	A	B
22		C5-C8 Aliphatic	TIC	7.00	1.000	A	0	A	B
23	L1	non C5-C8	TIC	6.41	1.000	A	0	A	B
24	L1	non C5-C8 {2}	TIC	9.30	1.000	A	0	A	B
25	L1	non C5-C8 {3}	TIC	11.07	1.000	A	0	A	B
26	L1	non C5-C8 {4}	TIC	11.84	1.000	A	0	A	B
27	L1	non C5-C8 {5}	TIC	12.29	1.000	A	0	A	B
28	L1	non C5-C8 {6}	TIC	14.42	1.000	A	0	A	B
29	L1	non C5-C8 - TOTAL	TIC	6.41	1.000	A	0	A	B
30		C9-C12 Aliphatic	TIC	16.54	1.000	A	0	A	B
31	L1	non C9-C12	TIC	16.52	1.000	A	0	A	B
32	L1	non C9-C12 {2}	TIC	16.63	1.000	A	0	A	B
33	L1	non C9-C12 {3}	TIC	16.80	1.000	A	0	A	B
34	L1	non C9-C12 {4}	TIC	17.45	1.000	A	0	A	B
35	L1	non C9-C12 {5}	TIC	18.35	1.000	A	0	A	B
36	L1	non C9-C12 - TOTAL	TIC	16.52	1.000	A	0	A	B
37	L1	C9-C10 Aromatic	120	17.62	1.000	A	0	A	B
38	L1	C9-C10 Aromatic {2}	134	17.62	1.000	A	0	A	B
39	L1	C9-C10 Aromatic - TOTAL	134	0.00	1.000	A	1	A	B
40	I	Chlorobenzene-d5	117	16.52	1.000	A	2	A	B
41	S	4-Bromofluorobenzene	95	18.35	1.111	A	2	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
#Qual = number of qualifiers
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

110811V9.M Fri Nov 11 11:57:02 2011

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\110911\11091111.D Vial: 11
Acq On : 9 Nov 2011 10:52 pm Operator: RACHEL HILL
Sample : ICV 110911 VOA9 Inst : GC/MS Ins
Misc : ICV MA APH Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Nov 10 11:59 2011 Quant Results File: 110811V9.RES

Quant Method : C:\HPCHEM\1\METHODS\110811V9.M (RTE Integrator)
Title : MASS APH
Last Update : Thu Nov 10 11:53:00 2011
Response via : Initial Calibration
DataAcq Meth : 110811V9

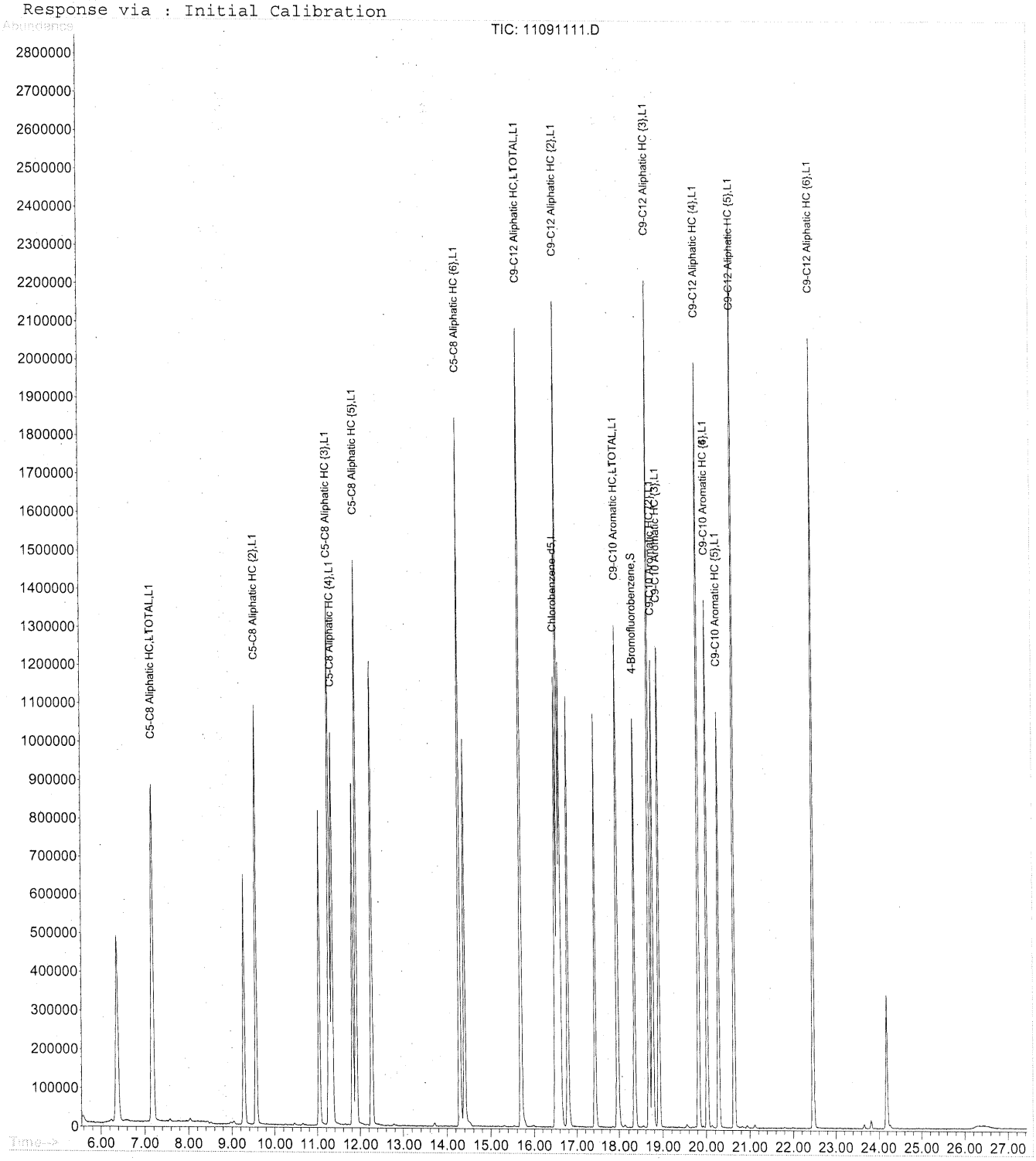
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Chlorobenzene-d5	16.51	117	769870	12.50	ug/m3	-0.01
System Monitoring Compounds						
41) 4-Bromofluorobenzene	18.34	95	529805	89.76	ug/m3	0.00
Spiked Amount 89.500	Range 70 - 130		Recovery =	100.29%		
Target Compounds						Qvalue
1) C5-C8 Aliphatic HC	7.18	TIC	2998675	30.61	ug/m3	100
2) C5-C8 Aliphatic HC {2}	9.56	TIC	2711088	36.52	ug/m3	100
3) C5-C8 Aliphatic HC {3}	11.28	TIC	3476650	42.30	ug/m3	100
4) C5-C8 Aliphatic HC {4}	11.35	TIC	2591553	35.20	ug/m3	100
5) C5-C8 Aliphatic HC {5}	11.91	TIC	3344542	42.62	ug/m3	100
6) C5-C8 Aliphatic HC {6}	14.29	TIC	3916769	49.45	ug/m3	100
7) C5-C8 Aliphatic HC - TOTAL	7.18	TIC	19039277m	236.98	ug/m3	
8) C9-C12 Aliphatic HC	15.70	TIC	4841534	55.48	ug/m3	100
9) C9-C12 Aliphatic HC {2}	16.57	TIC	4762244	55.46	ug/m3	100
10) C9-C12 Aliphatic HC {3}	18.68	TIC	4628233	63.02	ug/m3	100
11) C9-C12 Aliphatic HC {4}	19.83	TIC	4424417	62.00	ug/m3	100
12) C9-C12 Aliphatic HC {5}	20.64	TIC	4754794	72.56	ug/m3	100
13) C9-C12 Aliphatic HC {6}	22.47	TIC	4163156	79.95	ug/m3	100
14) C9-C12 Aliphatic HC - TOTA	15.70	TIC	27574378m	387.79	ug/m3	
15) C9-C10 Aromatic HC	17.97	120	278222	51.19	ug/m3	100
16) C9-C10 Aromatic HC {2}	18.77	120	295920	51.10	ug/m3	100
17) C9-C10 Aromatic HC {3}	18.91	120	431121	52.04	ug/m3	100
18) C9-C10 Aromatic HC {4}	20.02	120	101596	58.24	ug/m3	100
19) C9-C10 Aromatic HC {5}	20.28	120	336824	52.32	ug/m3	100
20) C9-C10 Aromatic HC {6}	20.02	134	246161	58.82	ug/m3	100
21) C9-C10 Aromatic HC - TOTAL	17.97	TIC	1689844m	265.46	ug/m3	

(#) = qualifier out of range (m) = manual integration
11091111.D 110811V9.M Fri Nov 11 11:57:35 2011

Quantitation Report

Data File : C:\HPCHEM\1\DATA\110911\11091111.D Vial: 11
Acq On : 9 Nov 2011 10:52 pm Operator: RACHEL HILL
Sample : ICV 110911 VOA9 Inst : GC/MS Ins
Misc : ICV MA APH Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Nov 10 11:59 2011 Quant Results File: 110811V9.RES

Method : C:\HPCHEM\1\METHODS\110811V9.M (RTE Integrator)
Title : MASS APH
Last Update : Thu Nov 10 11:53:00 2011
Response via : Initial Calibration



11091111.D 110811V9.M Fri Nov 11 11:57:35 2011 Page 2

RTI Laboratories

Run ID: GC-TCD 1_111121A **Run No.:** 44470

Analytical Run Date: 11/21/2011 **InstrumentID:** GC-TCD 1

Analyst: Mike Budziak **Column:** GC-TCD 1

Calibration ID: 43865 **Column ID:** 100/120mesh x 1mm ID

Column Length: 2m

SampID	TestCode	SampType	Batch ID	Analysis Date/Time	QA By	Q	Comments
mblk	ASTM-D2504	MBLK	R44470	11/21/2011 11:03:00 AM	Charles O`Bryan		
ccv std 1-2 a	ASTM-D2504	CCV	R44470	11/21/2011 11:48:00 AM	Charles O`Bryan		
lcs	ASTM-D2504	LCS	R44470	11/21/2011 12:18:00 PM	Charles O`Bryan		
crql std 2% a	ASTM-D2504	CRQL	R44470	11/21/2011 12:41:00 PM	Charles O`Bryan		
1111437-021b	ASTM-D2504	SAMP	R44470	11/21/2011 1:05:00 PM	Charles O`Bryan		
1111437-022b	ASTM-D2504	SAMP	R44470	11/21/2011 1:29:00 PM	Charles O`Bryan		
1111437-023b	ASTM-D2504	SAMP	R44470	11/21/2011 1:59:00 PM	Charles O`Bryan		
1111437-024b	ASTM-D2504	SAMP	R44470	11/21/2011 2:19:00 PM	Charles O`Bryan		
1111437-025b	ASTM-D2504	SAMP	R44470	11/21/2011 2:47:00 PM	Charles O`Bryan		
1111437-026b	ASTM-D2504	SAMP	R44470	11/21/2011 3:55:00 PM	Charles O`Bryan		
1111437-027b	ASTM-D2504	SAMP	R44470	11/21/2011 4:16:00 PM	Charles O`Bryan		
1111437-028b	ASTM-D2504	SAMP	R44470	11/21/2011 4:35:00 PM	Charles O`Bryan		
1111437-029b	ASTM-D2504	SAMP	R44470	11/21/2011 5:10:00 PM	Charles O`Bryan		
1111437-030b	ASTM-D2504	SAMP	R44470	11/21/2011 5:33:00 PM	Charles O`Bryan		
1111437-030bdup	ASTM-D2504	DUP	R44470	11/21/2011 5:54:00 PM	Charles O`Bryan		
ccv std 1-2 b	ASTM-D2504	CCV	R44470	11/21/2011 6:15:00 PM	Charles O`Bryan		
1111437-038b	ASTM-D2504	SAMP	R44470	11/21/2011 6:59:00 PM	Charles O`Bryan		
1111437-039b	ASTM-D2504	SAMP	R44470	11/21/2011 7:20:00 PM	Charles O`Bryan		
1111437-040b	ASTM-D2504	SAMP	R44470	11/21/2011 7:48:00 PM	Charles O`Bryan		
1111437-041b	ASTM-D2504	SAMP	R44470	11/21/2011 8:12:00 PM	Charles O`Bryan		
1111437-042b	ASTM-D2504	SAMP	R44470	11/21/2011 8:44:00 PM	Charles O`Bryan		
1111437-043b	ASTM-D2504	SAMP	R44470	11/21/2011 9:08:00 PM	Charles O`Bryan		
1111437-001b	ASTM-D2504	SAMP	R44470	11/21/2011 9:30:00 PM	Charles O`Bryan		
1111437-002b	ASTM-D2504	SAMP	R44470	11/21/2011 9:52:00 PM	Charles O`Bryan		
1111437-003b	ASTM-D2504	SAMP	R44470	11/21/2011 10:15:00 PM	Charles O`Bryan		
1111437-004b	ASTM-D2504	SAMP	R44470	11/21/2011 10:34:00 PM	Charles O`Bryan		
ccv std 1-2 c	ASTM-D2504	CCV	R44470	11/21/2011 11:42:00 PM	Charles O`Bryan		
crql std 2% c	ASTM-D2504	CRQL	R44470	11/22/2011 12:32:00 AM	Robert Lynch		

RTI Laboratories

ANALYTICAL RUN Summary

22-Dec-11

RunNo 44470

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
872694	mblk	ASTM-D2504	MBLK	\TA\112111\112111/21/2011 11:0		1	R44470		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	0	0		0	0	0	0.025	0.1	0	0%	0	0	0%	
Carbon Monoxide	A	%	0	0		0	0	0	0.025	0.1	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Nitrogen	A	%	0	0		0	0	0	0.025	0.1	0	0%	0	0	0%	
Oxygen	A	%	0	0		0	0	0	0.025	0.1	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
872695	ccv std 1-2 a	ASTM-D2504	CCV	\TA\112111\112111/21/2011 11:4		1	R44470		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	2.62	2.62		2.5	0	0	0.025	0.1	0	105%	85	115	0%	
Carbon Monoxide	A	%	2.519	2.519		2.5	0	0	0.025	0.1	0	101%	85	115	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	85	115	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	85	115	0%	
Methane	A	%	1.936	1.936		2	0	0	0.025	0.5	0	97%	85	115	0%	
Nitrogen	A	%	2.842	2.842		2.5	0	0	0.025	0.1	0	114%	85	115	0%	
Oxygen	A	%	2.578	2.578		2.5	0	0	0.025	0.1	0	103%	85	115	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
872696	lcs	ASTM-D2504	LCS	\TA\112111\112111/21/2011 12:1		1	R44470		0	872695	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	2.563	2.563		2.5	0	2.62	0.025	0.1	0	103%	70	130	2%	
Carbon Monoxide	A	%	2.538	2.538		2.5	0	2.519	0.025	0.1	0	102%	70	130	1%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	70	130	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	70	130	0%	
Methane	A	%	1.956	1.956		2	0	1.936	0.025	0.5	0	98%	70	130	1%	
Nitrogen	A	%	2.906	2.906		2.5	0	2.842	0.025	0.1	0	116%	70	130	2%	
Oxygen	A	%	2.606	2.606		2.5	0	2.578	0.025	0.1	0	104%	70	130	1%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
872707	1111437-030b (Container-1 of 1)	ASTM-D2504	SAMP	\TA\112111\112111/21/2011 5:33:		1	R44470		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Oxygen	A	%	18.919	18.919		0	0	0	0.025	0.1	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
872708	1111437-030bdup	ASTM-D2504	DUP	\TA\112111\112111/21/2011 5:54:		1	R44470		0	872707	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	0.327	0.327		0	0	0.341	0.025	0.1	0	0%	0	0	4%	
Carbon Monoxide	A	%	0	0		0	0	0	0.025	0.1	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Nitrogen	A	%	80.268	80.268		0	0	80.495	0.025	0.1	0	0%	0	0	0%	
Oxygen	A	%	18.873	18.873		0	0	18.919	0.025	0.1	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
872709	ccv std 1-2 b	ASTM-D2504	CCV	\TA\112111\112111/21/2011 6:15:		1	R44470		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	2.55	2.55		2.5	0	0	0.025	0.1	0	102%	85	115	0%	
Carbon Monoxide	A	%	2.478	2.478		2.5	0	0	0.025	0.1	0	99%	85	115	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	85	115	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	85	115	0%	
Methane	A	%	1.979	1.979		2	0	0	0.025	0.5	0	99%	85	115	0%	
Nitrogen	A	%	2.829	2.829		2.5	0	0	0.025	0.1	0	113%	85	115	0%	
Oxygen	A	%	2.55	2.55		2.5	0	0	0.025	0.1	0	102%	85	115	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
872710	1111437-038b (Container-1 of 1)	ASTM-D2504	SAMP	\TA\112111\112111/21/2011 6:59:		1	R44470		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
872762	ccv std 1-2 c	ASTM-D2504	CCV	\TA\112111\112111/21/2011 11:4		1	R44470		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	2.435	2.435		2.5	0	0	0.025	0.1	0	97%	85	115	0%	
Carbon Monoxide	A	%	2.425	2.425		2.5	0	0	0.025	0.1	0	97%	85	115	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	85	115	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	85	115	0%	
Methane	A	%	1.939	1.939		2	0	0	0.025	0.5	0	97%	85	115	0%	
Nitrogen	A	%	2.809	2.809		2.5	0	0	0.025	0.1	0	112%	85	115	0%	
Oxygen	A	%	2.527	2.527		2.5	0	0	0.025	0.1	0	101%	85	115	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
872721	crql std 2% c	ASTM-D2504	CRQL	\TA\112111\112111/22/2011 12:3		1	R44470		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	0.353	0.353		0.3	0	0	0.025	0.1	0	118%	80	120	0%	
Carbon Monoxide	A	%	0.15	0.15		0.14	0	0	0.025	0.1	0	107%	80	120	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	80	120	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	80	120	0%	
Methane	A	%	0.107	0.107		0.09	0	0	0.025	0.5	0	119%	80	120	0%	
Nitrogen	A	%	1.397	1.397		1.39	0	0	0.025	0.1	0	101%	80	120	0%	
Oxygen	A	%	0.081	0.081		0.08	0	0	0.025	0.1	0	101%	80	120	0%	

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\2\DATA\112111\11211102.D Vial: 1
Acq On : 21 Nov 2011 11:48 am Operator:
Sample : ccv std 1-2 a Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title : Method d2504 air analysis
Last Update : Thu May 12 16:13:25 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	Oxygen	2.500	2.578	-3.1	0	0.04
2	Nitrogen	2.500	2.842	-13.7	0	0.03
3	Carbon Monoxide	2.500	2.519	-0.8	0	0.00
4	Methane	2.000	1.936	3.2	0	-0.01
5	Carbon dioxide	2.500	2.620	-4.8	0	-0.03

Evaluate Continuing Calibration Report - Not Founds

Data File : C:\HPCHEM\2\DATA\112111\11211102.D Vial: 1
Acq On : 21 Nov 2011 11:48 am Operator:
Sample : ccv std 1-2 a Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title : Method d2504 air analysis
Last Update : Thu May 12 16:13:25 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0
03051113.D 030511.M Thu Dec 22 10:42:56 2011 TESTCAL

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\112111\11211102.D Vial: 1
Acq On : 21 Nov 2011 11:48 am Operator:
Sample : ccv std 1-2 a Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Nov 21 14:57 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed May 25 15:37:00 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

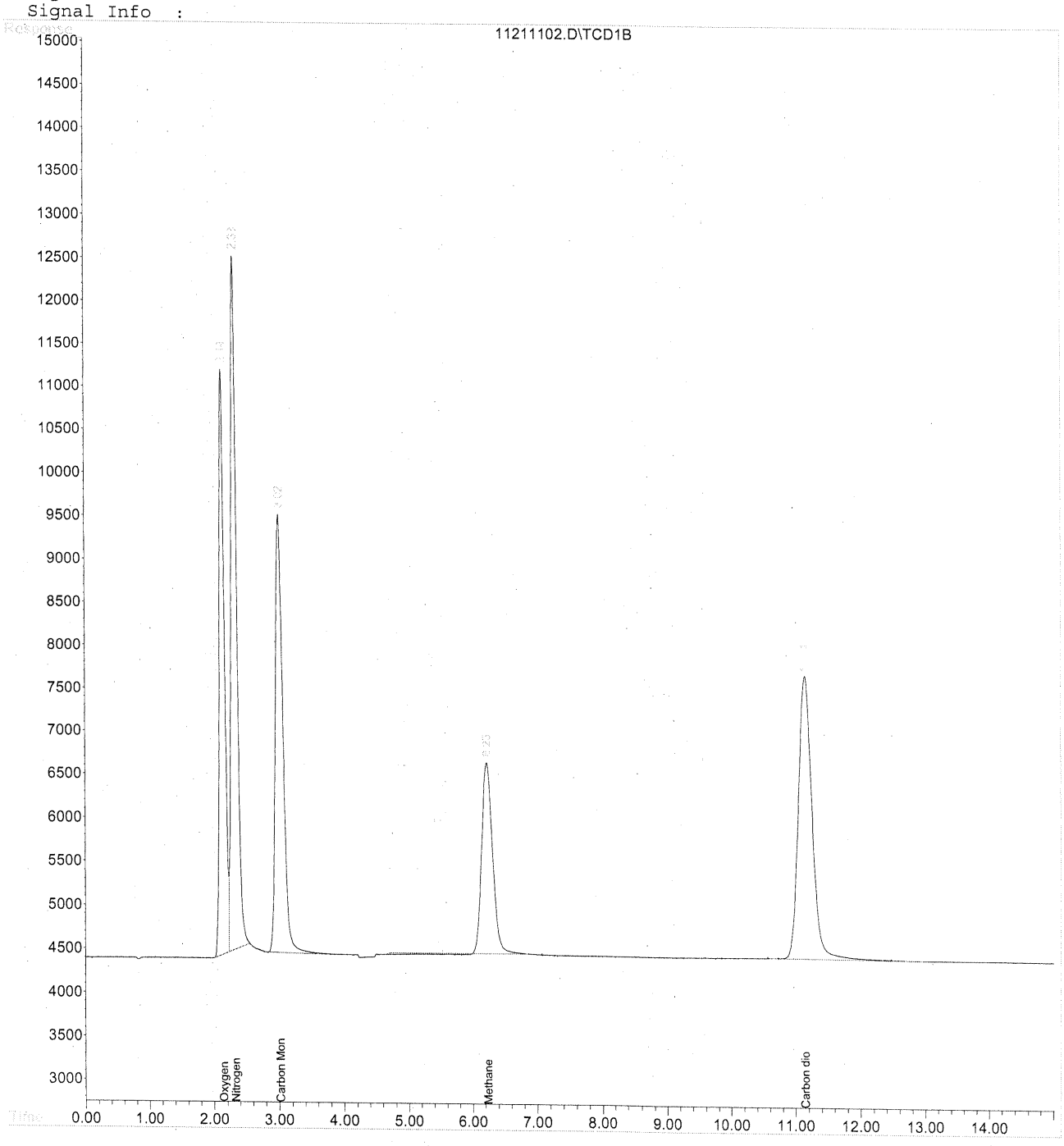
	Compound	R.T.	Response	Conc Units
Target Compounds				
1)	Oxygen	2.14	369579	2.578 %
2)	Nitrogen	2.33	489568	2.842 %
3)	Carbon Monoxide	3.02	396747	2.519 %
4)	Methane	6.24	248706	1.936 %
5)	Carbon dioxide	11.14	475406	2.620 %

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\112111\11211102.D Vial: 1
Acq On : 21 Nov 2011 11:48 am Operator:
Sample : ccv std 1-2 a Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Nov 21 14:57 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed May 25 15:37:00 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\2\DATA\112111\11211116.D Vial: 1
Acq On : 21 Nov 2011 6:15 pm Operator:
Sample : ccv std 1-2 b Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title : Method d2504 air analysis
Last Update : Thu May 12 16:13:25 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	Oxygen	2.500	2.550	-2.0	0	0.04
2	Nitrogen	2.500	2.829	-13.2	0	0.03
3	Carbon Monoxide	2.500	2.478	0.9	0	0.00
4	Methane	2.000	1.979	1.0	0	-0.01
5	Carbon dioxide	2.500	2.550	-2.0	0	-0.04

Evaluate Continuing Calibration Report - Not Founds

Data File : C:\HPCHEM\2\DATA\112111\11211116.D Vial: 1
Acq On : 21 Nov 2011 6:15 pm Operator:
Sample : ccv std 1-2 b Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title : Method d2504 air analysis
Last Update : Thu May 12 16:13:25 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0
03051113.D 030511.M Thu Dec 22 13:33:08 2011 TESTCAL

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\112111\11211116.D Vial: 1
Acq On : 21 Nov 2011 6:15 pm Operator:
Sample : ccv std 1-2 b Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Nov 21 18:50 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed May 25 15:37:00 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

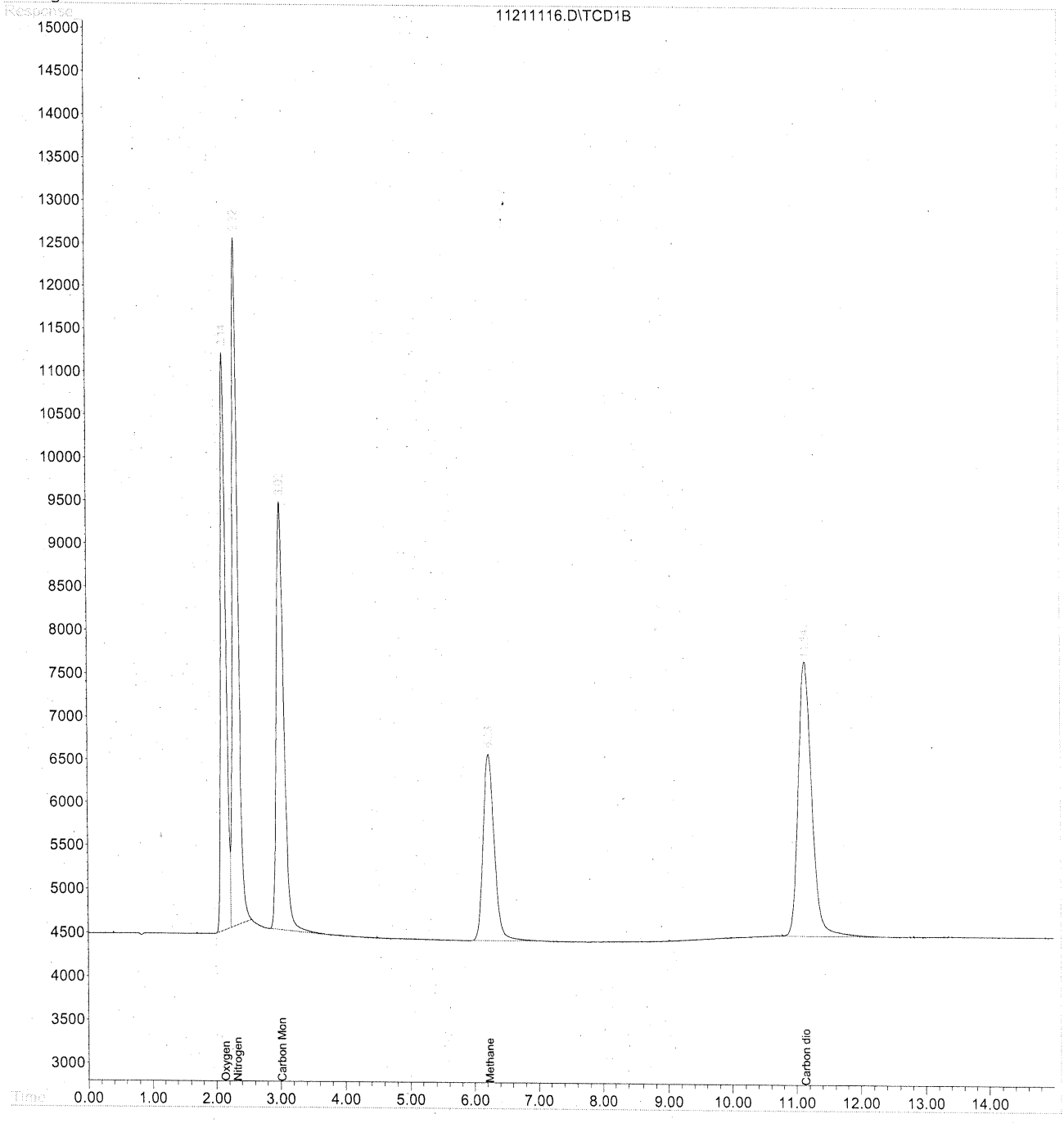
	Compound	R.T.	Response	Conc Units
	Target Compounds			
1)	Oxygen	2.14	365506	2.550 %
2)	Nitrogen	2.33	487267	2.829 %
3)	Carbon Monoxide	3.02	390242	2.478 %
4)	Methane	6.23	254728	1.979 %
5)	Carbon dioxide	11.14	462284	2.550 %

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\112111\11211116.D Vial: 1
Acq On : 21 Nov 2011 6:15 pm Operator:
Sample : ccv std 1-2 b Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Nov 21 18:50 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed May 25 15:37:00 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\2\DATA\112111\11211127.D Vial: 1
Acq On : 21 Nov 2011 11:42 pm Operator:
Sample : ccv std 1-2 c Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title : Method d2504 air analysis
Last Update : Thu May 12 16:13:25 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	Oxygen	2.500	2.527	-1.1	0	0.04
2	Nitrogen	2.500	2.809	-12.4	0	0.02
3	Carbon Monoxide	2.500	2.425	3.0	0	-0.01
4	Methane	2.000	1.939	3.0	0	-0.02
5	Carbon dioxide	2.500	2.435	2.6	0	-0.04

Evaluate Continuing Calibration Report - Not Founds

Data File : C:\HPCHEM\2\DATA\112111\11211127.D Vial: 1
Acq On : 21 Nov 2011 11:42 pm Operator:
Sample : ccv std 1-2 c Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title : Method d2504 air analysis
Last Update : Thu May 12 16:13:25 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0
03051113.D 030511.M Thu Dec 22 10:45:39 2011 TESTCAL

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\112111\11211127.D Vial: 1
Acq On : 21 Nov 2011 11:42 pm Operator:
Sample : ccv std 1-2 c Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Nov 23 13:46 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed May 25 15:37:00 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

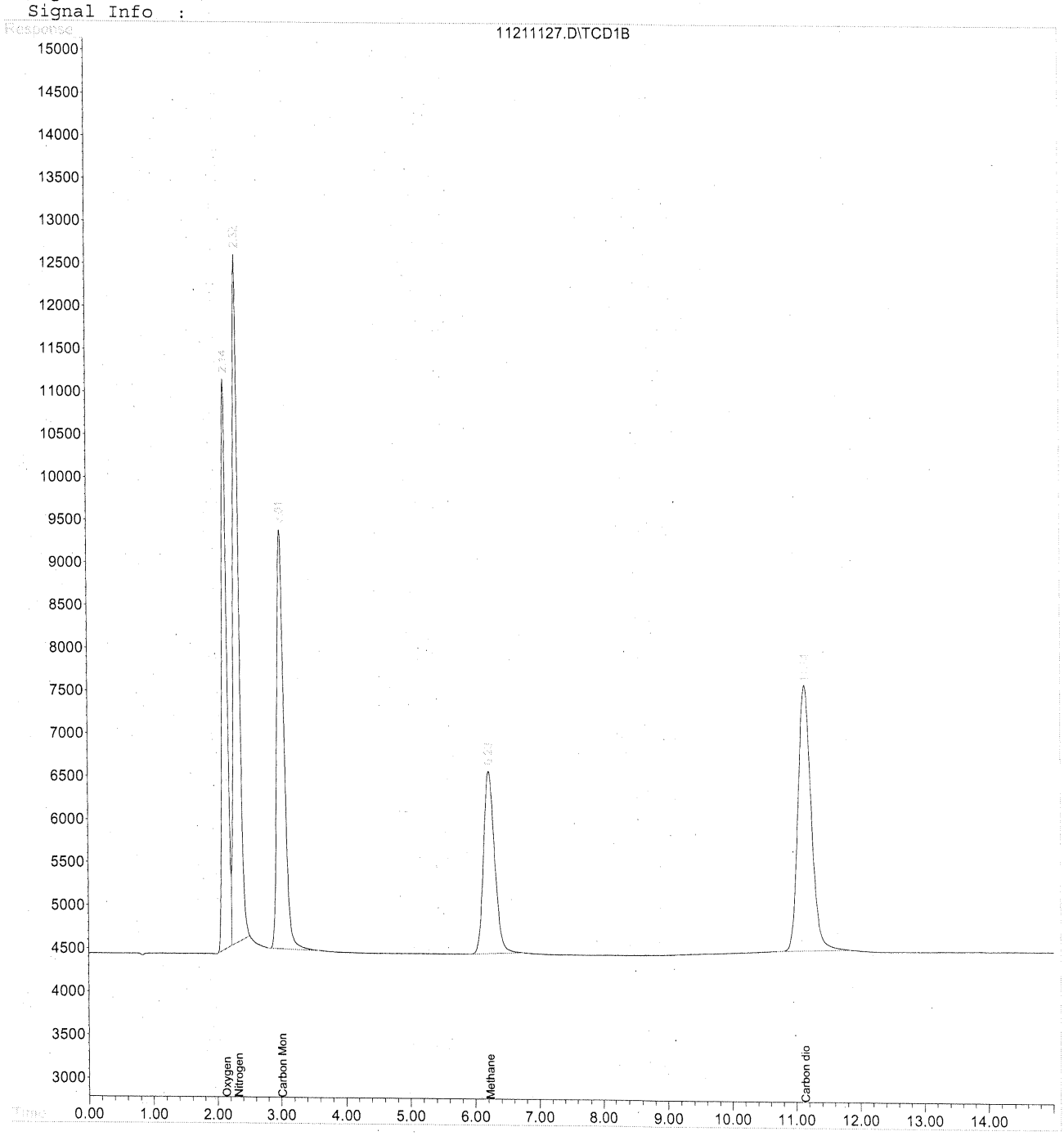
	Compound	R.T.	Response	Conc Units
	Target Compounds			
1)	Oxygen	2.14	362281	2.527 %
2)	Nitrogen	2.32	483941	2.809 %
3)	Carbon Monoxide	3.02	381919	2.425 %
4)	Methane	6.23	249128	1.939 %
5)	Carbon dioxide	11.14	440740	2.435 %

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\112111\11211127.D Vial: 1
Acq On : 21 Nov 2011 11:42 pm Operator:
Sample : ccv std 1-2 c Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Nov 23 13:46 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed May 25 15:37:00 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



RTI Laboratories

Run ID: GC-TCD 1_111122A **Run No.:** 44472

Analytical Run Date: 11/22/2011 **InstrumentID:** GC-TCD 1

Analyst: Mike Budziak **Column:** GC-TCD 1

Calibration ID: 43865 **Column ID:** 100/120mesh x 1mm ID

Column Length: 2m

SampID	TestCode	SampType	Batch ID	Analysis Date/Time	QA By	Q	Comments
mblk	ASTM-D2504	MBLK	R44472	11/22/2011 11:53:00 AM	Charles O`Bryan		
ccv std 1-2 a	ASTM-D2504	CCV	R44472	11/22/2011 1:19:00 PM	Charles O`Bryan		
lcs	ASTM-D2504	LCS	R44472	11/22/2011 1:56:00 PM	Charles O`Bryan		
crql std 2% a	ASTM-D2504	CRQL	R44472	11/22/2011 2:27:00 PM	Charles O`Bryan		
1111437-005b	ASTM-D2504	SAMP	R44472	11/22/2011 3:19:00 PM	Charles O`Bryan		
1111437-006b	ASTM-D2504	SAMP	R44472	11/22/2011 3:39:00 PM	Charles O`Bryan		
1111437-007b	ASTM-D2504	SAMP	R44472	11/22/2011 4:28:00 PM	Charles O`Bryan		
1111437-008b	ASTM-D2504	SAMP	R44472	11/22/2011 4:54:00 PM	Charles O`Bryan		
1111437-009b	ASTM-D2504	SAMP	R44472	11/22/2011 5:35:00 PM	Charles O`Bryan		
1111437-010b	ASTM-D2504	SAMP	R44472	11/22/2011 5:54:00 PM	Charles O`Bryan		
1111437-011b	ASTM-D2504	SAMP	R44472	11/22/2011 6:23:00 PM	Charles O`Bryan		
1111437-012b	ASTM-D2504	SAMP	R44472	11/22/2011 6:42:00 PM	Charles O`Bryan		
1111437-012bdup	ASTM-D2504	DUP	R44472	11/22/2011 7:15:00 PM	Charles O`Bryan		
ccv std 1-2 b	ASTM-D2504	CCV	R44472	11/22/2011 7:37:00 PM	Charles O`Bryan		
crql std 2% c	ASTM-D2504	CRQL	R44472	11/22/2011 10:50:00 PM	Charles O`Bryan		

RTI Laboratories

ANALYTICAL RUN Summary

22-Dec-11

RunNo 44472

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
872722	mblk	ASTM-D2504	MBLK	\TA\112211\112211/22/2011 11:5		1	R44472		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	0	0		0	0	0	0.025	0.1	0	0%	0	0	0%	
Carbon Monoxide	A	%	0	0		0	0	0	0.025	0.1	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Nitrogen	A	%	0	0		0	0	0	0.025	0.1	0	0%	0	0	0%	
Oxygen	A	%	0	0		0	0	0	0.025	0.1	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
872723	ccv std 1-2 a	ASTM-D2504	CCV	\TA\112211\112211/22/2011 1:19:		1	R44472		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	2.341	2.341		2.5	0	0	0.025	0.1	0	94%	85	115	0%	
Carbon Monoxide	A	%	2.374	2.374		2.5	0	0	0.025	0.1	0	95%	85	115	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	85	115	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	85	115	0%	
Methane	A	%	1.925	1.925		2	0	0	0.025	0.5	0	96%	85	115	0%	
Nitrogen	A	%	2.865	2.865		2.5	0	0	0.025	0.1	0	115%	85	115	0%	
Oxygen	A	%	2.526	2.526		2.5	0	0	0.025	0.1	0	101%	85	115	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
872724	lcs	ASTM-D2504	LCS	\TA\112211\112211/22/2011 1:56:		1	R44472		0	872723	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	2.203	2.203		2.5	0	2.341	0.025	0.1	0	88%	70	130	6%	
Carbon Monoxide	A	%	2.291	2.291		2.5	0	2.374	0.025	0.1	0	92%	70	130	4%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	70	130	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	70	130	0%	
Methane	A	%	1.806	1.806		2	0	1.925	0.025	0.5	0	90%	70	130	6%	
Nitrogen	A	%	2.776	2.776		2.5	0	2.865	0.025	0.1	0	111%	70	130	3%	
Oxygen	A	%	2.408	2.408		2.5	0	2.526	0.025	0.1	0	96%	70	130	5%	

1

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
872733	1111437-012b (Container-1 of 1)	ASTM-D2504	SAMP	\TA\112211\112211/22/2011 6:42:		1	R44472		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	11.069	11.069		0	0	0	0.025	0.1	0	0%	0	0	0%	
Carbon Monoxide	A	%	0	0		0	0	0	0.025	0.1	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Nitrogen	A	%	82.781	82.781		0	0	0	0.025	0.1	0	0%	0	0	0%	
Oxygen	A	%	3.191	3.191		0	0	0	0.025	0.1	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
872734	1111437-012bdup	ASTM-D2504	DUP	\TA\112211\112211/22/2011 7:15:		1	R44472		0	872733	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	11.022	11.022		0	0	11.069	0.025	0.1	0	0%	0	0	0%	
Carbon Monoxide	A	%	0	0		0	0	0	0.025	0.1	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Nitrogen	A	%	82.419	82.419		0	0	82.781	0.025	0.1	0	0%	0	0	0%	
Oxygen	A	%	3.226	3.226		0	0	3.191	0.025	0.1	0	0%	0	0	1%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
872735	ccv std 1-2 b	ASTM-D2504	CCV	\TA\112211\112211/22/2011 7:37:		1	R44472		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	2.299	2.299		2.5	0	0	0.025	0.1	0	92%	85	115	0%	
Carbon Monoxide	A	%	2.289	2.289		2.5	0	0	0.025	0.1	0	92%	85	115	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	85	115	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	85	115	0%	
Methane	A	%	1.835	1.835		2	0	0	0.025	0.5	0	92%	85	115	0%	
Nitrogen	A	%	2.864	2.864		2.5	0	0	0.025	0.1	0	115%	85	115	0%	
Oxygen	A	%	2.45	2.45		2.5	0	0	0.025	0.1	0	98%	85	115	0%	

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\2\DATA\112211\11221102.D Vial: 1
Acq On : 22 Nov 2011 1:19 pm Operator:
Sample : ccv std 1-2 a Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title : Method d2504 air analysis
Last Update : Thu May 12 16:13:25 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	Oxygen	2.500	2.526	-1.0	0	0.04
2	Nitrogen	2.500	2.865	-14.6	0	0.03
3	Carbon Monoxide	2.500	2.374	5.0	0	0.00
4	Methane	2.000	1.925	3.7	0	-0.01
5	Carbon dioxide	2.500	2.341	6.4	0	-0.03

Evaluate Continuing Calibration Report - Not Founds

Data File : C:\HPCHEM\2\DATA\112211\11221102.D Vial: 1
Acq On : 22 Nov 2011 1:19 pm Operator:
Sample : ccv std 1-2 a Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title : Method d2504 air analysis
Last Update : Thu May 12 16:13:25 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0
03051113.D 030511.M Thu Dec 22 10:38:15 2011 TESTCAL

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\112211\11221102.D Vial: 1
Acq On : 22 Nov 2011 1:19 pm Operator:
Sample : ccv std 1-2 a Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Nov 22 13:54 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed May 25 15:37:00 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

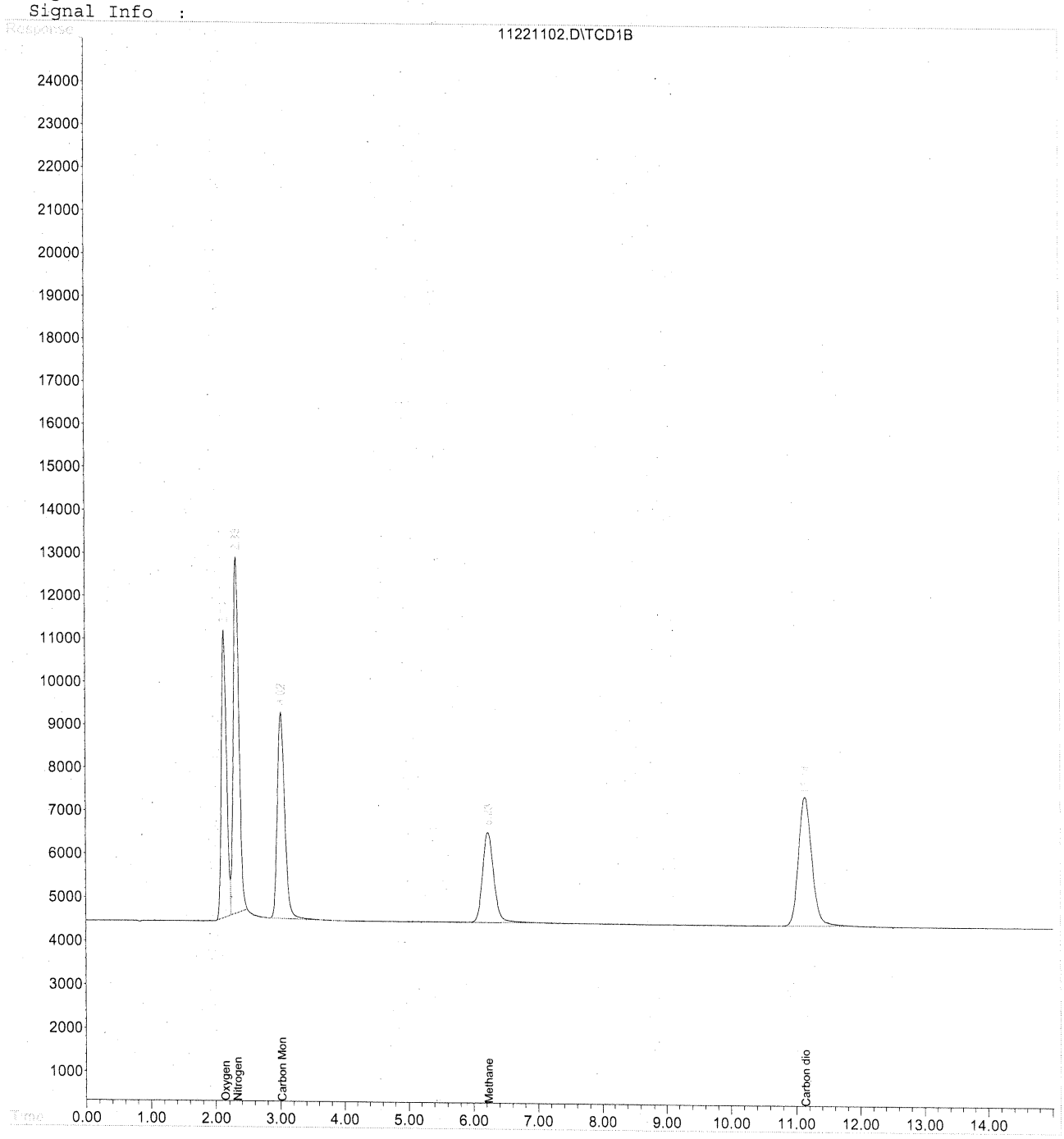
	Compound	R.T.	Response	Conc Units
	Target Compounds			
1)	Oxygen	2.14	362057	2.526 %
2)	Nitrogen	2.33	493613	2.865 %
3)	Carbon Monoxide	3.02	373966	2.374 %
4)	Methane	6.23	247311	1.925 %
5)	Carbon dioxide	11.14	423235	2.341 %

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\112211\11221102.D Vial: 1
Acq On : 22 Nov 2011 1:19 pm Operator:
Sample : ccv std 1-2 a Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Nov 22 13:54 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed May 25 15:37:00 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\2\DATA\112211\11221114.D Vial: 1
Acq On : 22 Nov 2011 7:37 pm Operator:
Sample : ccv std 1-2 b Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title : Method d2504 air analysis
Last Update : Thu May 12 16:13:25 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	Oxygen	2.500	2.450	2.0	0	0.04
2	Nitrogen	2.500	2.864	-14.6	0	0.02
3	Carbon Monoxide	2.500	2.289	8.4	0	-0.01
4	Methane	2.000	1.835	8.3	0	-0.02
5	Carbon dioxide	2.500	2.299	8.0	0	-0.04

Evaluate Continuing Calibration Report - Not Founds

Data File : C:\HPCHEM\2\DATA\112211\11221114.D Vial: 1
Acq On : 22 Nov 2011 7:37 pm Operator:
Sample : ccv std 1-2 b Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title : Method d2504 air analysis
Last Update : Thu May 12 16:13:25 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0
03051113.D 030511.M Thu Dec 22 10:39:49 2011 TESTCAL

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\112211\11221114.D Vial: 1
Acq On : 22 Nov 2011 7:37 pm Operator:
Sample : ccv std 1-2 b Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Nov 22 22:48 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed May 25 15:37:00 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

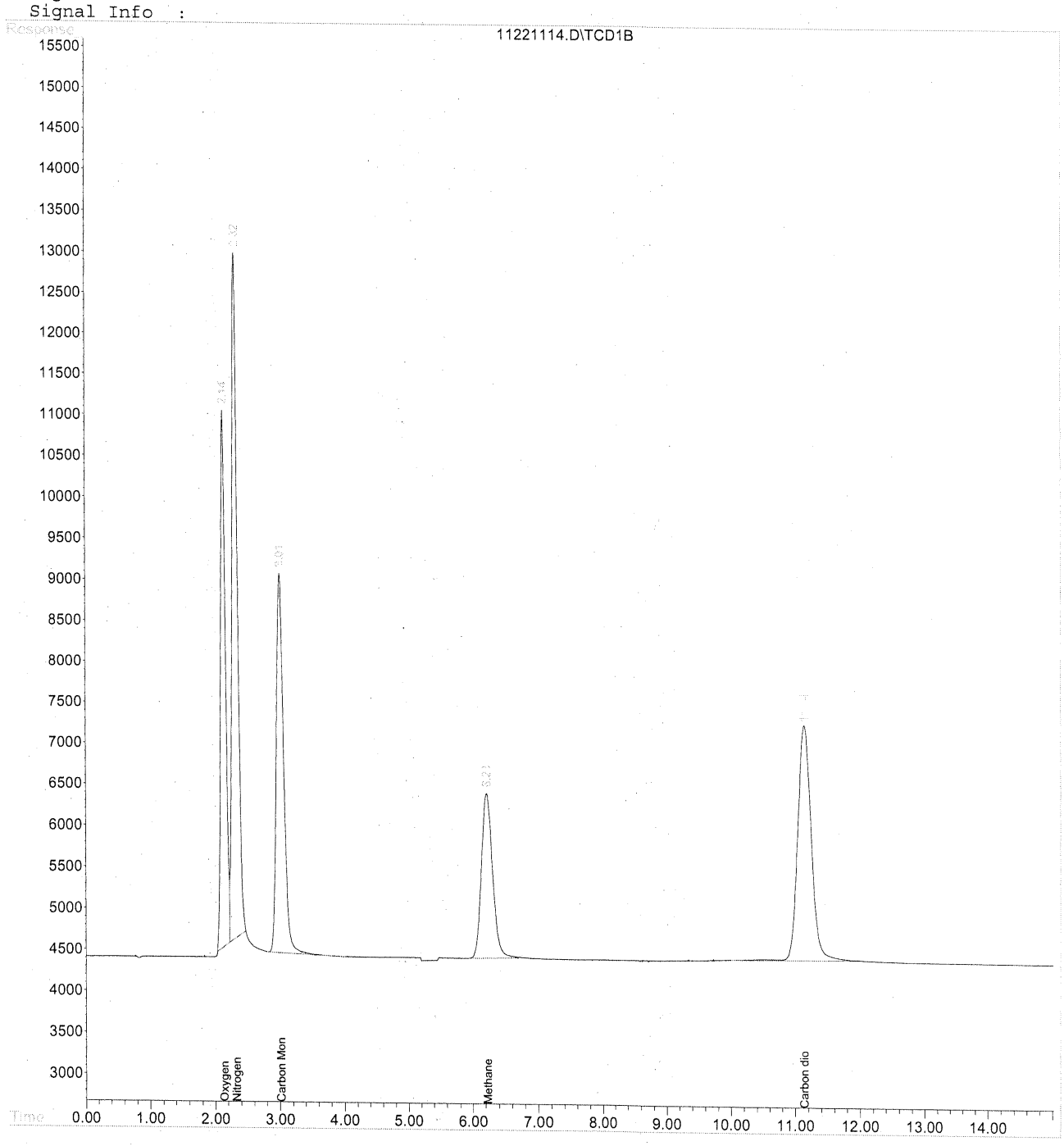
	Compound	R.T.	Response	Conc Units
	Target Compounds			
1)	Oxygen	2.14	351110	2.450 %
2)	Nitrogen	2.32	493376	2.864 %
3)	Carbon Monoxide	3.01	360553	2.289 %
4)	Methane	6.23	234749	1.835 %
5)	Carbon dioxide	11.14	415431	2.299 %

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\112211\11221114.D Vial: 1
Acq On : 22 Nov 2011 7:37 pm Operator:
Sample : ccv std 1-2 b Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Nov 22 22:48 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed May 25 15:37:00 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



RTI Laboratories

Run ID: GC-TCD 1_111123A **Run No.:** 44471

Analytical Run Date: 11/23/2011 **InstrumentID:** GC-TCD 1

Analyst: Mike Budziak **Column:** GC-TCD 1

Calibration ID: 43865 **Column ID:** 100/120mesh x 1mm ID

Column Length: 2m

SampID	TestCode	SampType	Batch ID	Analysis Date/Time	QA By	Q	Comments
mblk	ASTM-D2504	MBLK	R44471	11/23/2011 12:04:00 PM	Charles O`Bryan		
ccv std 1-2 a	ASTM-D2504	CCV	R44471	11/23/2011 12:50:00 PM	Charles O`Bryan		
lcs	ASTM-D2504	LCS	R44471	11/23/2011 1:15:00 PM	Charles O`Bryan		
crql std 2% a	ASTM-D2504	CRQL	R44471	11/23/2011 1:36:00 PM	Charles O`Bryan		
1111437-013b	ASTM-D2504	SAMP	R44471	11/23/2011 2:03:00 PM	Charles O`Bryan		
1111437-014b	ASTM-D2504	SAMP	R44471	11/23/2011 2:29:00 PM	Charles O`Bryan		
1111437-015b	ASTM-D2504	SAMP	R44471	11/23/2011 3:00:00 PM	Charles O`Bryan		
1111437-016b	ASTM-D2504	SAMP	R44471	11/23/2011 3:24:00 PM	Charles O`Bryan		
1111437-017b	ASTM-D2504	SAMP	R44471	11/23/2011 3:46:00 PM	Charles O`Bryan		
1111437-018b	ASTM-D2504	SAMP	R44471	11/23/2011 4:09:00 PM	Charles O`Bryan		
1111437-019b	ASTM-D2504	SAMP	R44471	11/23/2011 4:49:00 PM	Charles O`Bryan		
1111437-020a	ASTM-D2504	SAMP	R44471	11/23/2011 5:46:00 PM	Charles O`Bryan		
1111437-020adup	ASTM-D2504	DUP	R44471	11/23/2011 6:06:00 PM	Charles O`Bryan		
ccv std 1-2 b	ASTM-D2504	CCV	R44471	11/23/2011 6:47:00 PM	Charles O`Bryan		
1111437-031b	ASTM-D2504	SAMP	R44471	11/23/2011 8:11:00 PM	Charles O`Bryan		
1111437-032a	ASTM-D2504	SAMP	R44471	11/23/2011 8:29:00 PM	Charles O`Bryan		
1111437-033b	ASTM-D2504	SAMP	R44471	11/23/2011 8:49:00 PM	Charles O`Bryan		
1111437-034b	ASTM-D2504	SAMP	R44471	11/23/2011 9:09:00 PM	Charles O`Bryan		
1111437-035b	ASTM-D2504	SAMP	R44471	11/23/2011 9:28:00 PM	Charles O`Bryan		
1111437-036b	ASTM-D2504	SAMP	R44471	11/23/2011 9:46:00 PM	Charles O`Bryan		
1111437-037B	ASTM-D2504	SAMP	R44471	11/23/2011 10:08:00 PM	Charles O`Bryan		
ccv std 1-2 c	ASTM-D2504	CCV	R44471	11/23/2011 10:59:00 PM	Charles O`Bryan		
crql std 2% c	ASTM-D2504	CRQL	R44471	11/23/2011 11:29:00 PM	Charles O`Bryan		

RTI Laboratories

ANALYTICAL RUN Summary

22-Dec-11

RunNo 44471

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
872737	mblk	ASTM-D2504	MBLK	\TA\112311\112311/23/2011 12:0		1	R44471		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	0	0		0	0	0	0.025	0.1	0	0%	0	0	0%	
Carbon Monoxide	A	%	0	0		0	0	0	0.025	0.1	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Nitrogen	A	%	0	0		0	0	0	0.025	0.1	0	0%	0	0	0%	
Oxygen	A	%	0	0		0	0	0	0.025	0.1	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
872738	ccv std 1-2 a	ASTM-D2504	CCV	\TA\112311\112311/23/2011 12:5		1	R44471		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	2.129	2.129		2.5	0	0	0.025	0.1	0	85%	85	115	0%	
Carbon Monoxide	A	%	2.29	2.29		2.5	0	0	0.025	0.1	0	92%	85	115	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	85	115	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	85	115	0%	
Methane	A	%	1.71	1.71		2	0	0	0.025	0.5	0	86%	85	115	0%	
Nitrogen	A	%	2.774	2.774		2.5	0	0	0.025	0.1	0	111%	85	115	0%	
Oxygen	A	%	2.338	2.338		2.5	0	0	0.025	0.1	0	94%	85	115	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
872739	lcs	ASTM-D2504	LCS	\TA\112311\112311/23/2011 1:15:		1	R44471		0	872738	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	2.12	2.12		2.5	0	2.129	0.025	0.1	0	85%	70	130	0%	
Carbon Monoxide	A	%	2.226	2.226		2.5	0	2.29	0.025	0.1	0	89%	70	130	3%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	70	130	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	70	130	0%	
Methane	A	%	1.79	1.79		2	0	1.71	0.025	0.5	0	90%	70	130	5%	
Nitrogen	A	%	2.902	2.902		2.5	0	2.774	0.025	0.1	0	116%	70	130	5%	
Oxygen	A	%	2.465	2.465		2.5	0	2.338	0.025	0.1	0	99%	70	130	5%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
872763	1111437-020a (Container-1 of 1)	ASTM-D2504	SAMP	\TA\112311\1123	11/23/2011 5:46:	1	R44471		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	0.503	0.503		0	0	0	0.025	0.1	0	0%	0	0	0%	
Carbon Monoxide	A	%	0	0		0	0	0	0.025	0.1	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Nitrogen	A	%	79.212	79.212		0	0	0	0.025	0.1	0	0%	0	0	0%	
Oxygen	A	%	20.418	20.418		0	0	0	0.025	0.1	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
872765	1111437-020adup	ASTM-D2504	DUP	\TA\112311\1123	11/23/2011 6:06:	1	R44471		0	872763	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	0.501	0.501		0	0	0.503	0.025	0.1	0	0%	0	0	0%	
Carbon Monoxide	A	%	0	0		0	0	0	0.025	0.1	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Nitrogen	A	%	78.643	78.643		0	0	79.212	0.025	0.1	0	0%	0	0	1%	
Oxygen	A	%	20.201	20.201		0	0	20.418	0.025	0.1	0	0%	0	0	1%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
872760	ccv std 1-2 b	ASTM-D2504	CCV	\TA\112311\1123	11/23/2011 6:47:	1	R44471		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	2.407	2.407		2.5	0	0	0.025	0.1	0	96%	85	115	0%	
Carbon Monoxide	A	%	2.375	2.375		2.5	0	0	0.025	0.1	0	95%	85	115	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	85	115	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	85	115	0%	
Methane	A	%	1.965	1.965		2	0	0	0.025	0.5	0	98%	85	115	0%	
Nitrogen	A	%	2.868	2.868		2.5	0	0	0.025	0.1	0	115%	85	115	0%	
Oxygen	A	%	2.474	2.474		2.5	0	0	0.025	0.1	0	99%	85	115	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
872756	1111437-036b (Container-1 of 1)	ASTM-D2504	SAMP	\TA\112311\1123	11/23/2011 9:46:	1	R44471		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	0.399	0.399		0	0	0	0.025	0.1	0	0%	0	0	0%	
Carbon Monoxide	A	%	0	0		0	0	0	0.025	0.1	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Nitrogen	A	%	78.559	78.559		0	0	0	0.025	0.1	0	0%	0	0	0%	
Oxygen	A	%	19.914	19.914		0	0	0	0.025	0.1	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
872757	1111437-037B (Container-1 of 1)	ASTM-D2504	SAMP	\TA\112311\1123	11/23/2011 10:0	1	R44471		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	0.225	0.225		0	0	0	0.025	0.1	0	0%	0	0	0%	
Carbon Monoxide	A	%	0	0		0	0	0	0.025	0.1	0	0%	0	0	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Methane	A	%	0	0		0	0	0	0.025	0.5	0	0%	0	0	0%	
Nitrogen	A	%	78.361	78.361		0	0	0	0.025	0.1	0	0%	0	0	0%	
Oxygen	A	%	20.793	20.793		0	0	0	0.025	0.1	0	0%	0	0	0%	

Seq No	Sample ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
872758	ccv std 1-2 c	ASTM-D2504	CCV	\TA\112311\1123	11/23/2011 10:5	1	R44471		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Carbon dioxide	A	%	2.328	2.328		2.5	0	0	0.025	0.1	0	93%	85	115	0%	
Carbon Monoxide	A	%	2.291	2.291		2.5	0	0	0.025	0.1	0	92%	85	115	0%	
Ethane	A	%		0		0	0	0	0.025	0.5	0	0%	85	115	0%	
Hydrogen	A	%		0		0	0	0	0.025	0.5	0	0%	85	115	0%	
Methane	A	%	1.87	1.87		2	0	0	0.025	0.5	0	94%	85	115	0%	
Nitrogen	A	%	2.794	2.794		2.5	0	0	0.025	0.1	0	112%	85	115	0%	
Oxygen	A	%	2.398	2.398		2.5	0	0	0.025	0.1	0	96%	85	115	0%	

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\2\DATA\112311\11231102.D Vial: 1
Acq On : 23 Nov 2011 12:50 pm Operator:
Sample : ccv std 1-2 a Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title : Method d2504 air analysis
Last Update : Thu May 12 16:13:25 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	Oxygen	2.500	2.338	6.5	0	0.04
2	Nitrogen	2.500	2.774	-11.0	0	0.03
3	Carbon Monoxide	2.500	2.290	8.4	0	0.00
4	Methane	2.000	1.710	14.5	0	-0.01
5	Carbon dioxide	2.500	2.129	14.8	0	-0.03

Evaluate Continuing Calibration Report - Not Founds

Data File : C:\HPCHEM\2\DATA\112311\11231102.D Vial: 1
Acq On : 23 Nov 2011 12:50 pm Operator:
Sample : ccv std 1-2 a Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title : Method d2504 air analysis
Last Update : Thu May 12 16:13:25 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0
03051113.D 030511.M Thu Dec 22 10:33:09 2011 TESTCAL

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\112311\11231102.D Vial: 1
Acq On : 23 Nov 2011 12:50 pm Operator:
Sample : ccv std 1-2 a Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Nov 23 13:18 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed May 25 15:37:00 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
	Target Compounds			
1)	Oxygen	2.14	334999	2.338 %
2)	Nitrogen	2.33	477944	2.774 %
3)	Carbon Monoxide	3.02	360635	2.290 %
4)	Methane	6.23	217590	1.710 %
5)	Carbon dioxide	11.14	383911	2.129 %

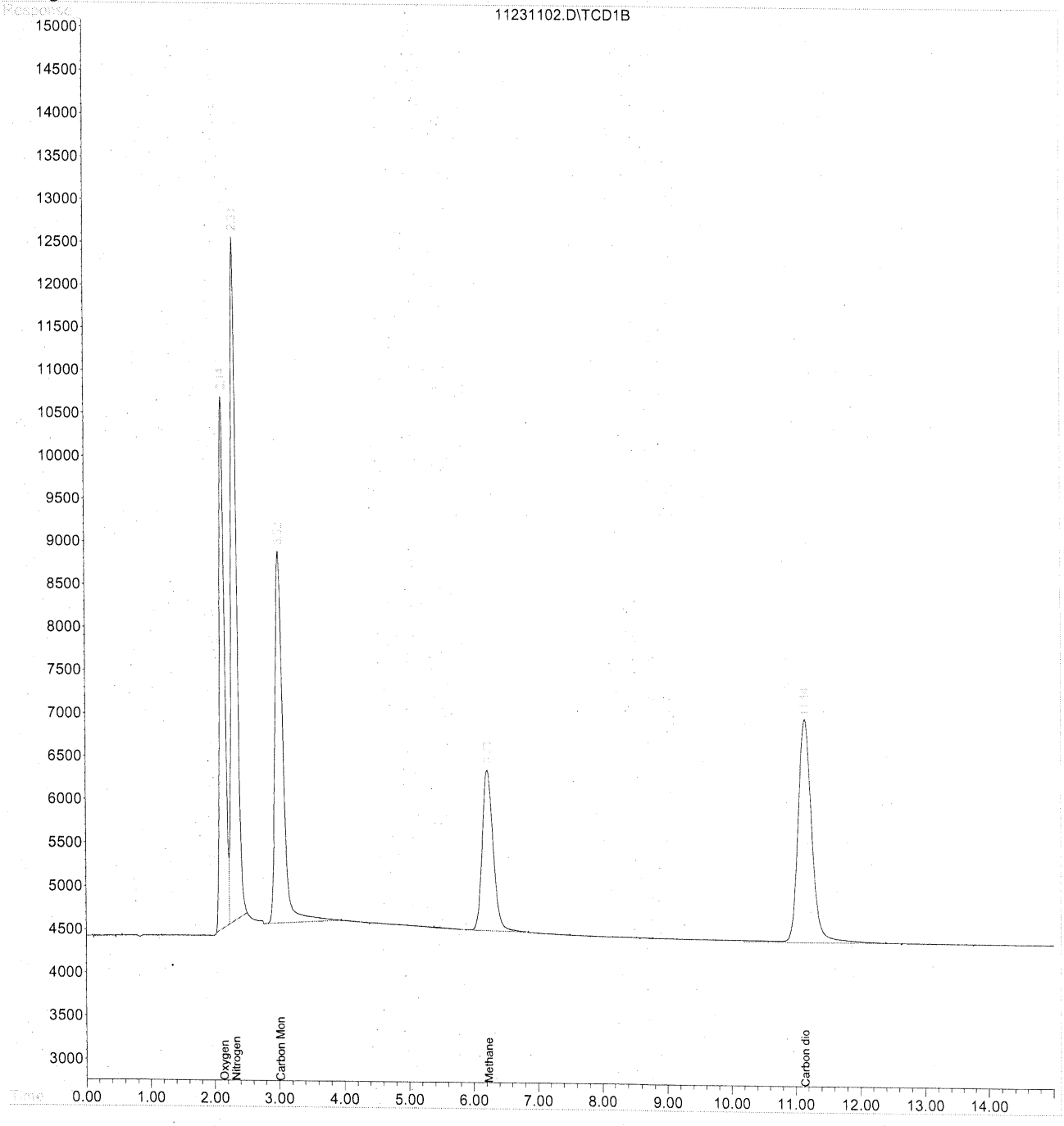
(f)=RT Delta > 1/2 Window (m)=manual int.
11231102.D 030511.M Thu Dec 22 10:33:01 2011 TESTCAL

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\112311\11231102.D Vial: 1
Acq On : 23 Nov 2011 12:50 pm Operator:
Sample : ccv std 1-2 a Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Nov 23 13:18 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed May 25 15:37:00 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\2\DATA\112311\11231114.D Vial: 1
Acq On : 23 Nov 2011 6:47 pm Operator:
Sample : ccv std 1-2 b Inst : GC/TCD
Misc : Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title : Method d2504 air analysis
Last Update : Thu May 12 16:13:25 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	Oxygen	2.500	2.474	1.0	0	0.04
2	Nitrogen	2.500	2.868	-14.7	0	0.03
3	Carbon Monoxide	2.500	2.375	5.0	0	0.00
4	Methane	2.000	1.965	1.7	0	0.00
5	Carbon dioxide	2.500	2.407	3.7	0	-0.02

Evaluate Continuing Calibration Report - Not Founds

Data File : C:\HPCHEM\2\DATA\112311\11231114.D Vial: 1
Acq On : 23 Nov 2011 6:47 pm Operator:
Sample : ccv std 1-2 b Inst : GC/TCD
Misc : Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title : Method d2504 air analysis
Last Update : Thu May 12 16:13:25 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(Min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0
03051113.D 030511.M Thu Dec 22 10:34:19 2011 TESTCAL

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\112311\11231114.D Vial: 1
Acq On : 23 Nov 2011 6:47 pm Operator:
Sample : ccv std 1-2 b Inst : GC/TCD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Nov 23 23:52 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed May 25 15:37:00 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

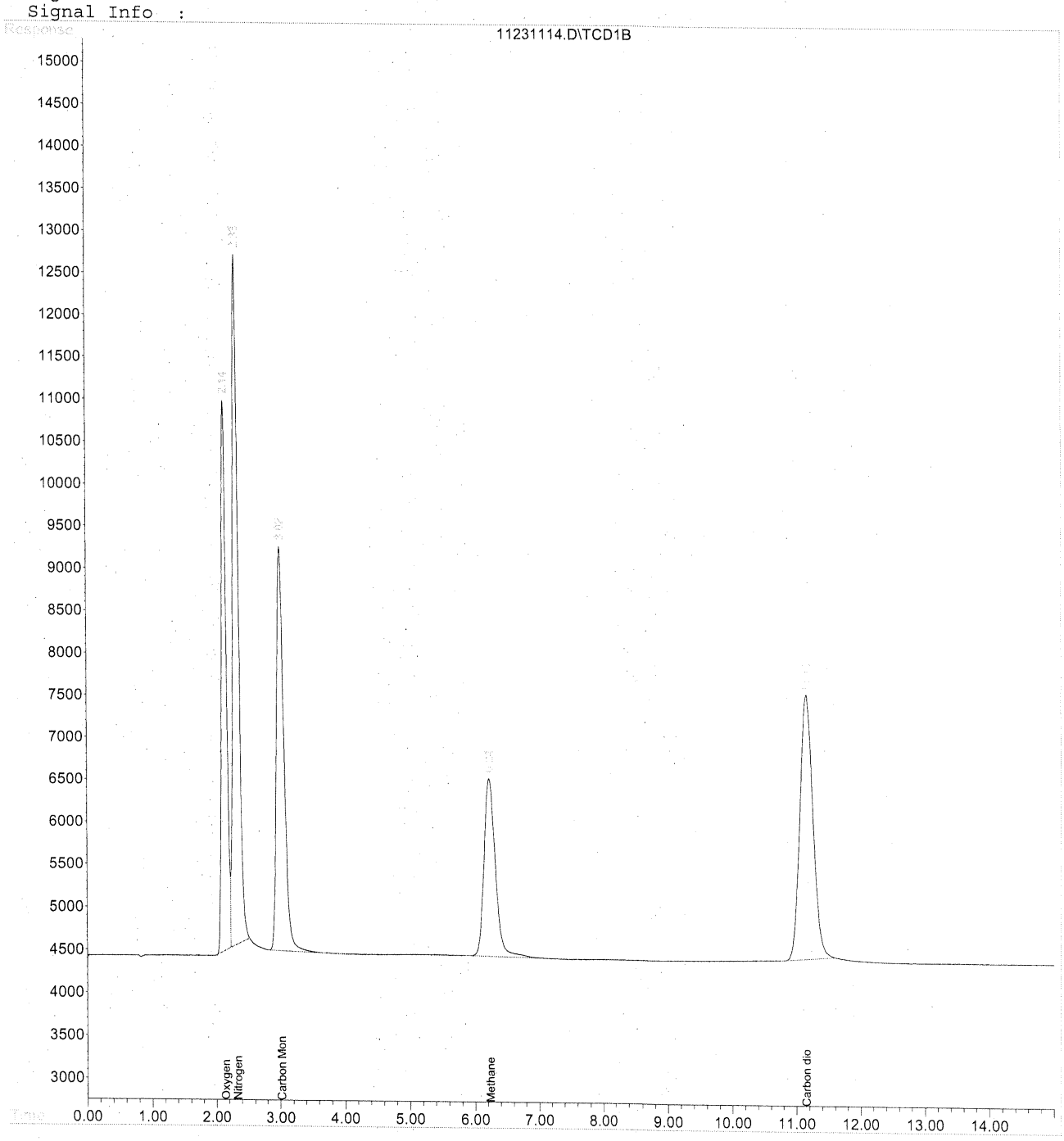
	Compound	R.T.	Response	Conc Units
	Target Compounds			
1)	Oxygen	2.14	354526	2.474 %
2)	Nitrogen	2.33	494065	2.868 %
3)	Carbon Monoxide	3.02	374031	2.375 %
4)	Methane	6.24	252788	1.965 %
5)	Carbon dioxide	11.15	435544	2.407 %

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\112311\11231114.D Vial: 1
Acq On : 23 Nov 2011 6:47 pm Operator:
Sample : ccv std 1-2 b Inst : GC/TCD
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Nov 23 23:52 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed May 25 15:37:00 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\2\DATA\112311\11231122.D Vial: 1
Acq On : 23 Nov 2011 10:59 pm Operator:
Sample : ccv std 1-2 c Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title : Method d2504 air analysis
Last Update : Thu May 12 16:13:25 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	Oxygen	2.500	2.398	4.1	0	0.04
2	Nitrogen	2.500	2.794	-11.8	0	0.03
3	Carbon Monoxide	2.500	2.291	8.4	0	0.00
4	Methane	2.000	1.870	6.5	0	0.00
5	Carbon dioxide	2.500	2.328	6.9	0	-0.02

Evaluate Continuing Calibration Report - Not Founds

Data File : C:\HPCHEM\2\DATA\112311\11231122.D Vial: 1
Acq On : 23 Nov 2011 10:59 pm Operator:
Sample : ccv std 1-2 c Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title : Method d2504 air analysis
Last Update : Thu May 12 16:13:25 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0
03051113.D 030511.M Thu Dec 22 10:35:10 2011 TESTCAL

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\112311\11231122.D Vial: 1
Acq On : 23 Nov 2011 10:59 pm Operator:
Sample : ccv std 1-2 c Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : events.e
Quant Time: Nov 23 23:52 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed May 25 15:37:00 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

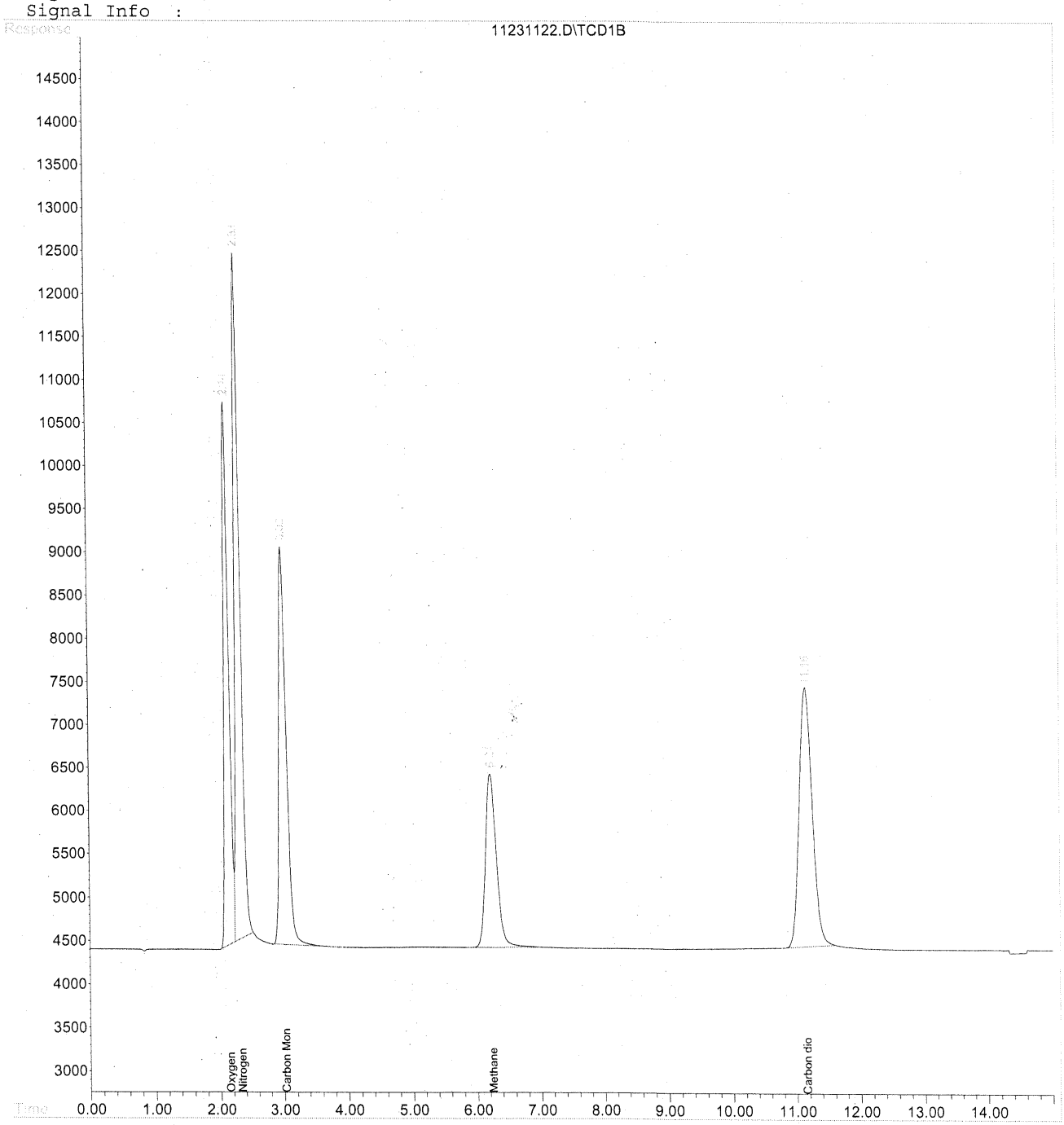
	Compound	R.T.	Response	Conc Units
	Target Compounds			
1)	Oxygen	2.14	343632	2.398 %
2)	Nitrogen	2.33	481347	2.794 %
3)	Carbon Monoxide	3.02	360777	2.291 %
4)	Methane	6.24	239594	1.870 %
5)	Carbon dioxide	11.15	420889	2.328 %

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\112311\11231122.D Vial: 1
Acq On : 23 Nov 2011 10:59 pm Operator:
Sample : ccv std 1-2 c Inst : GC/TCD
Misc : CCV ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Nov 23 23:52 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Wed May 25 15:37:00 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :



Response Factor Report GC/TCD

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title : Method d2504 air analysis
Last Update : Thu May 12 16:13:25 2011

Calibration Files
1 =03051102.D 2 =03051103.D 3 =03051104.D
4 =03051105.D 5 =03051106.D 6 =03051107.D

	Compound	1	2	3	4	5	6	Avg		%RSD
1)	Oxygen	1.450	1.444	1.427	1.365	1.324	2.791	1.624	E5	32.03
2)	Nitrogen	1.748	1.695	1.678	1.586	1.522	2.053	1.723	E5	9.90
3)	Carbon Monoxide	1.690	1.628	1.621	1.517	1.472	1.522	1.575	E5	5.32
4)	Methane	1.422	1.364	1.344	1.267	1.212	1.210	1.303	E5	6.66
5)	Carbon dioxide	2.121	2.009	2.012	1.874	1.813	1.842	1.945	E5	6.21

(#) = Out of Range ### Number of calibration levels exceeded format ###

030511.M Wed Dec 07 11:34:11 2011 TESTCAL

Compound List Report GC/TCD

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title : Method d2504 air analysis
Last Update : Thu May 12 16:13:25 2011
Response via : Initial Calibration
Total Cpnds : 5

PK#	Type	Compound Name	Exp RT	Rel RT	Cal	A/H	ID
1		Oxygen	2.10	1.000	Q	A	R
2		Nitrogen	2.30	1.000	A	A	R
3		Carbon Monoxide	3.03	1.000	A	A	R
4		Methane	6.25	1.000	Q	A	R
5		Carbon dioxide	11.18	1.000	Q	A	R

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

030511.M Wed Dec 07 11:33:56 2011 TESTCAL

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\2\DATA\030511\03051110.D Vial: 1
Acq On : 5 Mar 2011 8:05 am Operator:
Sample : ICV STD 1-2 Inst : GC/TCD
Misc : ICAL ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu May 12 16:13:25 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	Oxygen	2.500	2.652	-6.1	0	0.04
2	Nitrogen	2.500	2.834	-13.4	0	0.03
3	Carbon Monoxide	2.500	2.540	-1.6	0	0.00
4	Methane	2.000	1.986	0.7	0	0.00
5	Carbon dioxide	2.500	2.596	-3.8	0	0.00

Evaluate Continuing Calibration Report - Not Founds

Data File : C:\HPCHEM\2\DATA\030511\03051110.D Vial: 1
Acq On : 5 Mar 2011 8:05 am Operator:
Sample : ICV STD 1-2 Inst : GC/TCD
Misc : ICAL ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E

Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu May 12 16:13:25 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0
03051113.D 030511.M Thu Oct 20 10:35:49 2011 TESTCAL

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\030511\03051110.D Vial: 1
Acq On : 5 Mar 2011 8:05 am Operator:
Sample : ICV STD 1-2 Inst : GC/TCD
Misc : ICAL ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jun 16 9:53 2011 Quant Results File: 030511.RES

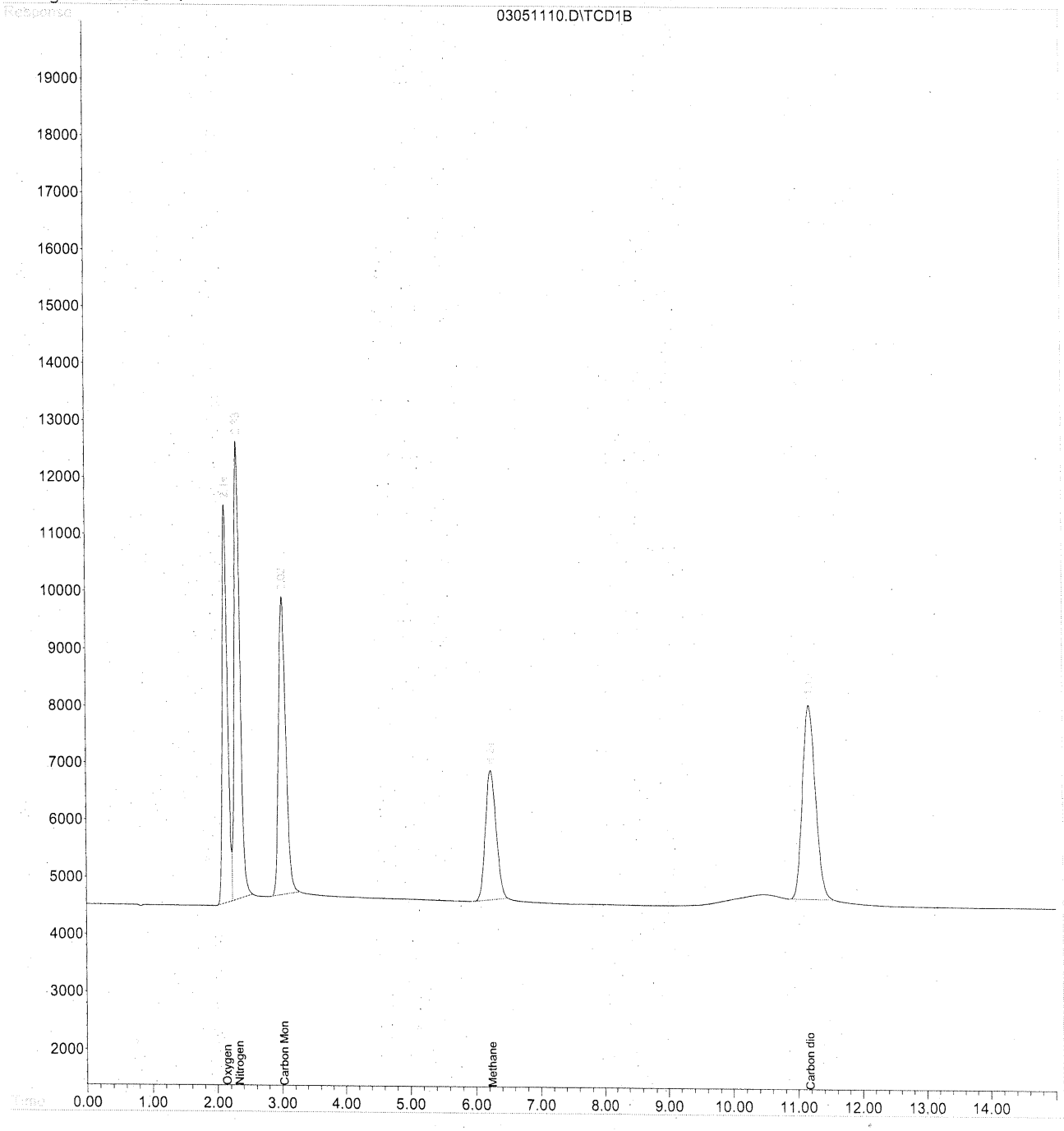
Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu May 12 16:13:25 2011
Response via : Initial Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
	Target Compounds			
1)	Oxygen	2.14	380291	2.652 %
2)	Nitrogen	2.33	488166	2.834 %
3)	Carbon Monoxide	3.02	400088	2.540 %
4)	Methane	6.25	255799	1.986 %
5)	Carbon dioxide	11.18	470903	2.596 %

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\030511\03051110.D Vial: 1
Acq On : 5 Mar 2011 8:05 am Operator:
Sample : ICV STD 1-2 Inst : GC/TCD
Misc : ICAL ASTM-D2504 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Jun 16 9:53 2011 Quant Results File: 030511.RES

Quant Method : C:\HPCHEM\2\METHODS\030511.M (Chemstation Integrator)
Title :
Last Update : Thu May 12 16:13:25 2011
Response via : Multiple Level Calibration
DataAcq Meth : TCD.M

Volume Inj. :
Signal Phase :
Signal Info :